SONY

Sony Network Camera
SNC-CH110/CH115/CH120/CH135/CH140/CH160/CH180
SNC-CH210/CH220/CH240/CH260/CH280
SNC-DH110/DH110T/DH120/DH120T
SNC-DH140/DH140T/DH160/DH180
SNC-DH210/DH210T/DH220/DH220T
SNC-DH240/DH240T/DH260/DH280
SNC-EB520
SNC-EM520/EM521
SNC-EP520/EP521/EP550/EP580
SNC-ER520/ER521/ER550/ER580/ER585/ER585H
SNC-RH124/RH164/RS44N/RS44P/RS46N/RS46P
SNC-RS84N/RS84P/RS86N/RS86P
SNC-ZB550
SNC-ZM550/ZM551
SNC-ZP550
SNC-ZR550

Sony Video Network Station
SNT-EP104/EP154/EX101/EX101E/EX104/EX154

CGI Command Manual

5th Generation

Version 2.06 <Preliminary version>

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Sony Corporation

Contents

1 About this manual

This document describes CGI commands usage of Sony Network Camera and Sony Video Network Station. Applicable models and version are followings.

Sony Network Camera

Model	Type
SNC-EB520	Box Type, Indoor SD
SNC-CH110/CH115/CH120/CH135/CH140	Box Type, Indoor HD
SNC-ZB550	Box Type, Indoor HD, IP over Coax
SNC-CH210/CH220/CH240	Box Type, Indoor Full HD
SNC-CH160/CH180	Box Type, Outdoor HD Bullet
SNC-CH260/CH280	Box Type, Outdoor Full HD
SNC-EM520	Mini Dome Type, Indoor SD
SNC-DH110/DH120/DH140	Mini Dome Type, Indoor HD
SNC-ZM550	Mini Dome Type, Indoor HD, IP over Coax
SNC-DH210/DH220/DH240	Mini Dome Type, Indoor Full HD
SNC-EM521	Mini Dome Type, Indoor SD Vandal
SNC-DH110T/DH120T/DH140T	Mini Dome Type, Indoor HD Vandal
SNC-ZM551	Mini Dome Type, Indoor HD Vandal, IP over Coax
SNC-DH210T/DH220T/DH240T	Mini Dome Type, Indoor Full HD Vandal
SNC-DH160/DH180	Mini Dome Type, Outdoor HD Rugged
SNC-DH260/DH280	Mini Dome Type, Outdoor Full HD
SNC-ER520/ER521 /RS44N/RS44P/RS46N/RS46P	Rapid Dome Camera, Indoor SD
SNC-ER550/RH124	Rapid Dome Camera, Indoor HD
SNC-ZR550	Rapid Dome Camera, Indoor HD, IP over Coax
SNC-ER580	Rapid Dome Camera, Indoor Full HD
SNC-ER585/ER585H	Rapid Dome Camera, Outdoor Full HD
SNC-RS84N/RS84P/RS86N/RS86P	Rapid Dome Camera, Outdoor SD
SNC-RH164	Rapid Dome Camera, Outdoor HD
SNC-EP520/EP521	PTZ Camera, Indoor SD
SNC-EP550	PTZ Camera, Indoor HD
SNC-ZP550	PTZ Camera, Indoor HD, IP over Coax
SNC-EP580	PTZ Camera, Indoor FullHD

Sony Video Network Station

Model	Type
SNT-EX101/EX101E/EX104/EX154	Full Spec. 1CH Box Type/4CH Box Type/4CH Blade Type
SNT-EP104/EP154	Basic Spec. 4CH Box Type/4CH Blade Type

These Sony Network Camera and Sony Video Network Station have the following kinds of CGI commands which are listed below. Network Camera and Video Network Station are called a camera by this manual.

1) Motion video request commands

These are to be used to get motion video (Motion JPEG or MPEG-4 video or H.264) or some of them are to be used for a session initiation for acquiring MPEG-4 or H.264 data.

2) Audio data request commands

These are to be used to get audio data from the camera or some of them are to be used for a session initiation for acquiring audio data.

3) Audio output request commands

These are to be used to upload audio encoded data to the camera so that the camera can output audio via an equipped line output connector.

4) Still image request commands

These are to be used to get a latest still image from the camera.

5) Setting commands of camera

These are to be used to set picture quality and so on.

6) Inquiry commands of camera parameters

These are to be used to inquire various settings of camera parameters which can be set by using setting commands (6).

7) Control commands for Panning, Tilting Zooming and Focusing

These are to be used for Panning, Tilting, Zooming and Focusing. Network Camera supports these commands. And, when a connected analog camera has a function, SNT-EX101/EX101E/EX104/EX154 supports some of the commands.

8) Configuration command for motion detection

These are to be used for configuring motion detection.

9) Information request commands

This is to be used to get information such a result of motion detection or status of the sensor input.

In this document, the usage of CGI commands such as "method", "syntax", and several examples are explained below. The following model can't acquire audio data. And, audio can't be output, either.

- SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
- SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
- SNC-EB520/EM520/EM521
- SNC-ZB550/ZM550/ZM551
- SNT-EP104/EP154

2 Motion video request commands

There are four kinds of request to acquire motion video data.

/image **/image1**	You can acquire Bit stream corresponding to the setup of ImageCodec1. If "mpeg4" is set up in ImageCodec1, you can acquire MPEG-4 bit stream.
/image2	You can acquire Bit stream corresponding to the setup of ImageCodec 2.
/image3	You can acquire Bit stream corresponding to the setup of ImageCodec 3. But, this request command can be used only with SNC-RS44N/RS44P/RS46N/RS46P/RS84N/RS84P/RS86N/RS86P.
/mpeg4	Indicates that the client application specifies to acquire MPEG-4 bit stream. When the video mode is not set to mpeg4, mpeg4-jpeg or jpeg-mpeg4, the command response will be "400 error".
/h264	Indicates that the client application specifies to acquire H.264 bit stream. When the video mode is not set to h264, h264-jpeg or jpeg-h264, the command response will be "400 error".
/mjpeg	Indicates that the client application specifies to acquire Motion JPEG bit stream. When the video mode is set to mpeg4 or h264, the command response will be "400 error".

2.1 Acquiring MPEG-4 or H.264 bit stream

In terms of MPEG-4 or H.264 bit stream, the camera can send them in the form of "HTTP bit stream", "RTP (UDP) bit stream (unicast)" or "RTP (UDP) bit stream (multicast)". The following are some explanation how the acquiring sequence will be.

<Method>

GET

<Syntax>

http://ip_adr/image

http://ip_adr/mpeg4

http://ip_adr/h264

http://ip_adr/image[?UdpMode=unicast&UdpPort=<UDP port number>]

http://ip_adr/mpeg4[?UdpMode=unicast&UdpPort=<UDP port number>]

http://ip_adr/h264[?UdpMode=unicast&UdpPort=<UDP port number>]

http://ip_adr/image[?UdpMode=multicast]

http://ip_adr/mpeg4 [?UdpMode=multicast]

http://ip_adr/h264[?UdpMode=multicast]

[HTTP bit stream]

The following data shows the way to acquire the HTTP. When simply putting "GET /image...", "GET /mpeg4..." or "GET /h264...", the camera will send the MPEG-4 or H.264 raw data as its response.

GET /image HTTP/1.0¥r¥n User-Agent: xxxx¥r¥n Host: 192.168.0.200¥r¥n Accept: */*¥r¥n Connection: Keep-Alive¥r¥n ¥r¥n	MPEG-4 video request from a client application
HTTP/1.0 200 OK¥r¥n Content-Type: video/mpeg¥r¥n Cache-Control: no-cache¥r¥n Pragma: no-cache¥r¥n ¥r¥n <MPEG-4 data> . . .	The response of the camera which includes MPEG-4 bit stream

Content-Type

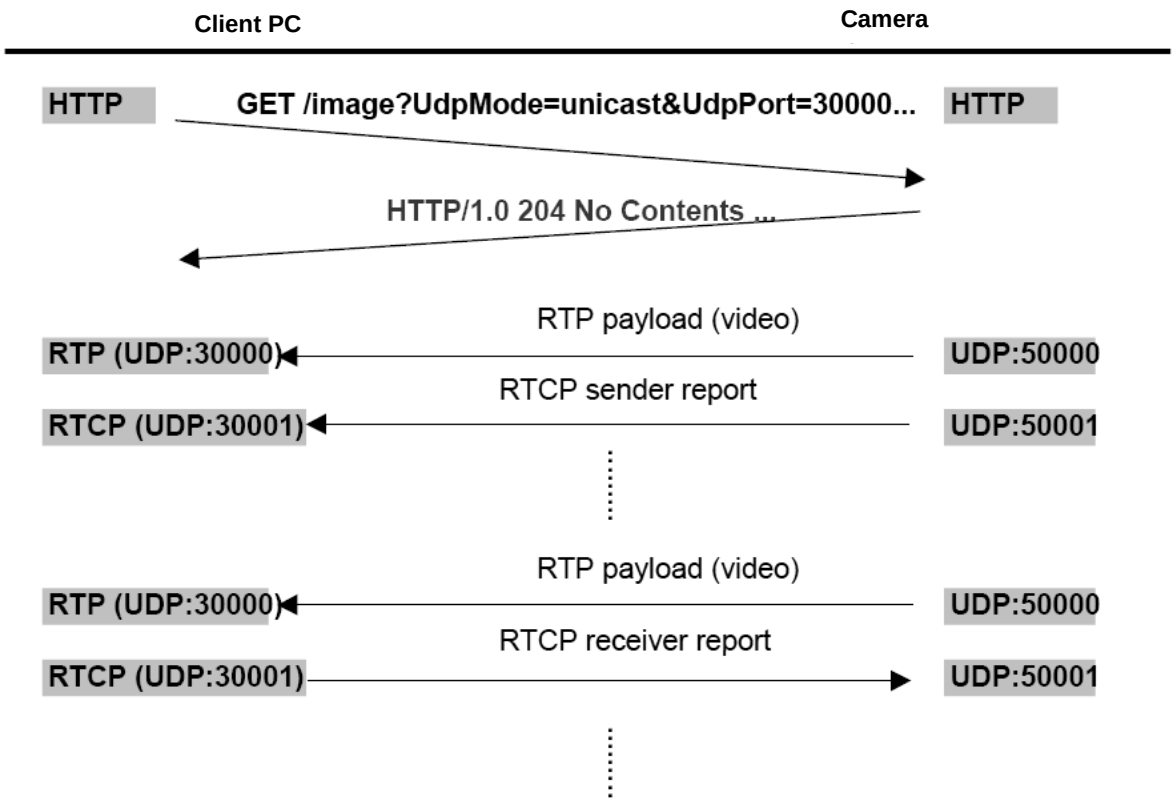
"Content-Type:" header will be set to "video/mpeg" when the video mode of the camera is MPEG-4 mode. "Content-Type:" header will be set to "video/h264" when the video mode of the camera is H.264 mode.

<MPEG-4 data>

<MPEG-4 data> is based on the standard of MPEG-4 and is in the form of raw data. And the <MPEG-4 data> includes so-called "user data" in each picture frame so that the receiver can make use of it.

[RTP (UDP) bit stream (unicast)]

You can get MPEG-4 (or H.264) bit stream by using RTP (Real-time transport protocol). HTTP is based on the TCP, which will lead less throughput in several circumstances e.g. RTT (Round trip time) number is rather large for the sake of network congestion. The following figure shows how the RTP bit stream (unicast) will be acquired by a client application.



In terms of acquiring RTP bit stream (unicast), putting "UdpMode=unicast" and "UdpPort=<UDP port number>" will be required when sending HTTP request.

UdpMode parameter	Specify a mode of transmission which will be either "unicast" or "multicast". The "multicast" can be set only when the multicast streaming in the camera is set to on.
UdpPort parameter	This parameter is effective when the UdpMode is set to "unicast". This parameter specifies the video port number which is the destination port the camera should send to. Listening to this video port will be required by the client application.

RTCP packets

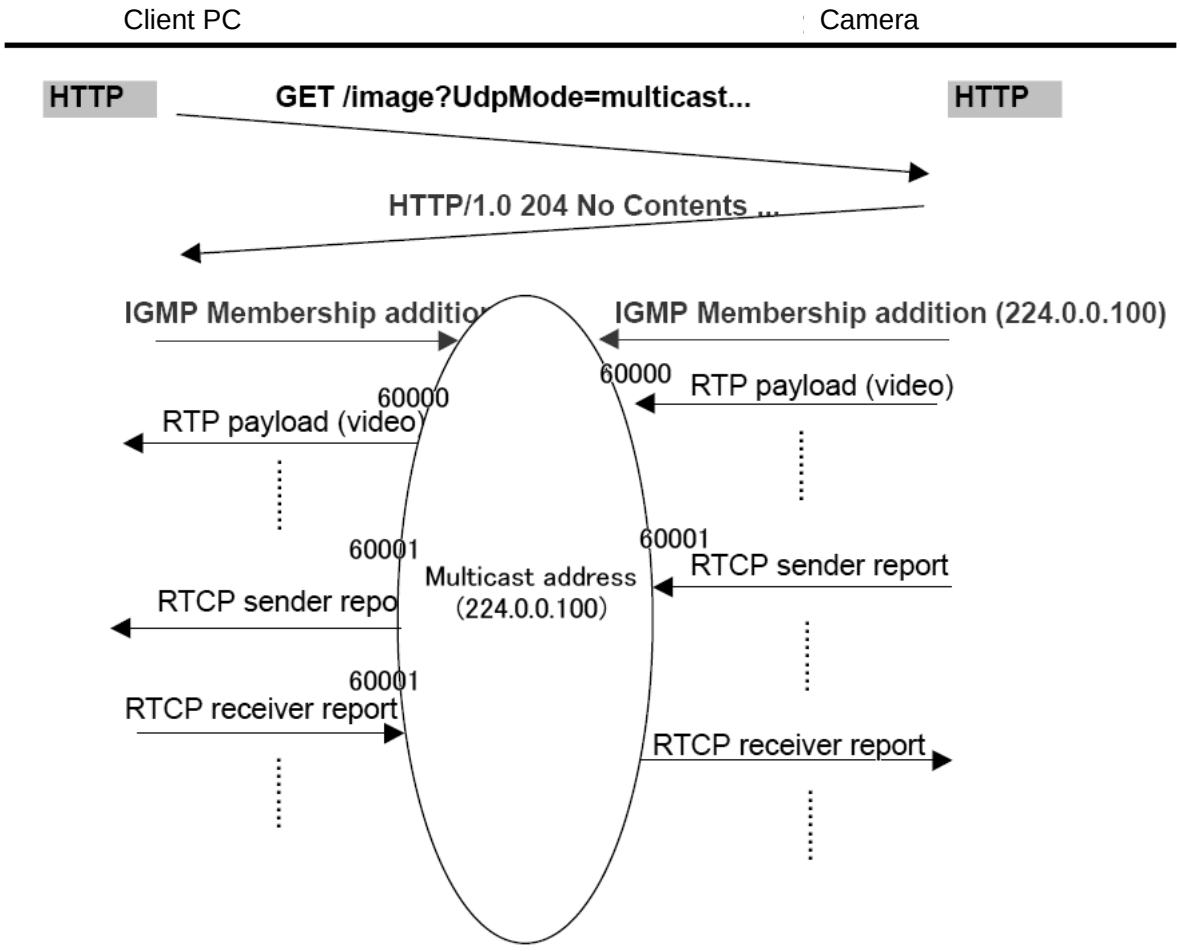
While the camera keeps sending MPEG-4 RTP bit stream, it also sends RTCP report (sender report) to the client side periodically. The client side is required to prepare for receiving the RTCP report and also is required sending RTCP report (receiver report) to the camera periodically. In case of this, the client side should listen to <the video port + 1> as the RTCP port. Note that the camera stops sending the bit stream if it fails to receive RTCP receiver report from the client side for consecutive time specified by RtpExpire parameter. The default of the RtpExpire is 60000 (milliseconds).

[RTP (UDP) bit stream (multicast)]

In terms of multicast RTP bit stream, acquiring sequence is different from the unicast one. In order to activate multicast bit stream, getting information of the multicast settings in the camera is needed prior to starting the sequence. The information is obtained by using "/command/inquiry.cgi?inq=camera" inquiry command.

Multicast	Shows whether multicast streaming is set to on or off.
McAddress	Shows multicast address which is used for multicast bit stream.
McVideoPort	Shows multicast video port which is used for multicast bit stream.

The following figure shows how the RTP bit stream (multicast) is acquired by a client application.



[Motion JPEG bit stream]

In terms of motion JPEG bit stream, only the HTTP bit stream form is supported. The motion JPEG bit stream can be acquired by sending "/image" or "/mjpeg" command, only when the video mode of the camera is set to JPEG. The motion JPEG bit stream is retrieved by the first GET command operation and will be sent as the sequential data. Therefore, display application should display the sequential data with dividing the data into an image-unit. In this case, boundary character string "--myboundary" is fixed as an index.

Also, it is possible adjusting the frame rate by setting the "speed" or "interval" parameter when client application requests bit stream.

<Method>

GET

<Syntax>

http://ip_adr/mjpeg[?speed=<value>]

http://ip_adr/mjpeg[?interval=<value>]

<Parameters>

speed=<value>

Refer to the following list regarding speed=<value>. The "fastest" frame rate is selected if there is no specification of "speed" or "interval" parameters. Setting both "speed" and "interval" parameters is not allowed.

interval=<value>

The range of setting parameter is from 33 to 3600000. The unit of the parameter is "millisecond". It is possible to set the motion image interval by setting "interval" parameter. Setting both "speed" and "interval" parameters is not allowed.

The effective value of speed parameter

Value	Details
0	Fastest
1	1 frame/sec
2	2 frame/sec
3	3 frame/sec
4	4 frame/sec
5	5 frame/sec
6	6 frame/sec
8	8 frame/sec
10	10 frame/sec
15	15 frame/sec
20	20 frame/sec
25	25 frame/sec
30	30 frame/sec

<Example>

Request for motion image by 20 frames per second

```
GET /mjpeg?speed=20 HTTP/1.0¥r¥n
Host: 192.168.1.1
```

Request from motion image by 1 frame per second by using "interval" parameter

```
GET /mjpeg?interval=1000 HTTP/1.1¥r¥n
Host: 192.168.1.1
```

Response data

The output format of the motion JPEG data is the "Server-push". Some HTTP headers have possibilities to be inserted between the boundary string and the data chunk (JPEG data) listed below.

Content-Type header	Indicates that the data chunk is "image/jpeg" type.
CamTim header	Stands for the date and time the JPEG image is taken in the unit.
DataLen header	Stands for the data length of the data chunk. The figure is fixed in the form of 8 digits and will be padded by "0" when the data length is in the range of 7 digits or less.

The following example shows the response data to get motion JPEG bit stream.

```
HTTP/1.0 200 OK¥r¥n
Content-Type: multipart/x-mixed-replace;boundary=--myboundary¥r¥n
¥r¥n
--myboundary¥r¥n
Content-Type: image/jpeg¥r¥n
CamTim: 2004-05-18 Tue 10:13:05¥r¥n
¥r¥n
<JPEG image data>¥r¥n
--myboundary¥r¥n
Content-Type: image/jpeg¥r¥n
CamTim: 2004-05-18 Tue 10:13:05¥r¥n
¥r¥n
<JPEG image data>¥r¥n
--myboundary¥r¥n
Content-Type: image/jpeg¥r¥n
CamTim: 2004-05-18 Tue 10:13:06¥r¥n
¥r¥n
<JPEG image data>¥r¥n
--myboundary¥r¥n
.
```

2.2 Acquiring multiplexed Audio & Video bit stream

The client application can get audio data as well with the video bit stream. In this case both video bit stream and audio bit stream will be multiplexed in one TCP session.

<Method>

GET

<Syntax>

```
http://ip_adr/image?audioin=on[&speed=<value>]
http://ip_adr/image?audioin=on[&interval=<value>]
http://ip_adr/mjpeg?audioin=on[&speed=<value>]
http://ip_adr/mjpeg?audioin=on[&interval=<value>]
http://ip_adr/mpeg4?audioin=on
http://ip_adr/h264?audioin=on
```

Response data

The output format of this multiplexed bit stream is the "Server-push". The bit stream includes video chunks and audio chunks. The client application can make a distinction between the video chunk and audio chunk by checking the "Content-Type" header in the chunk.

Content-Type header	Content-Type: image/jpeg	---	Indicates that is the JPEG chunk
	Content-Type: video/mpeg	---	Indicates that is the MPEG-4 chunk
	Content-Type: video/h264	---	Indicates that is the H.264 chunk
	Content-Type: audio/PCMU		PCMU : G.711 (64kbps)
	Content-Type: audio/40kadpcm		40kadpcm : G.726 (40kbps)
	Content-Type: audio/32kadpcm		32kadpcm : G.726 (32kbps)
	Content-Type: audio/24kadpcm		24kadpcm : G.726(24kbps)
	Content-Type: audio/16kadpcm		16kadpcm : G.726 (16kbps)
			Indicates that is the audio chunk.
CamTim header	Stands for the date and time the video image is taken in the unit. This is inserted only in the video chunk.		
DataLen header	Stands for the data length of the data chunk. In the video chunk the figure is fixed in the form of 8 digits and will be padded by "0" when the data length is in the range of 7 digits or less.		

The following example shows the response data to get motion JPEG bit stream and audio bit stream

```
HTTP/1.0 200 OK¥r¥n
Content-Type: multipart/x-mixed-replace;boundary=--myboundary¥r¥n
¥r¥n
```

--myboundary¥r¥n

Content-Type: audio/16kadpcm¥r¥n

DataLen: 320¥r¥n

¥r¥n

<Audio chunk>¥r¥n

--myboundary¥r¥n

Content-Type: image/jpeg¥r¥n

CamTim: 2004-05-18 Tue 10:13:05¥r¥n

DataLen: 000xxxxx¥r¥n

¥r¥n

<JPEG chunk>¥r¥n

--myboundary¥r¥n

Content-Type: audio/16kadpcm¥r¥n

DataLen: 320¥r¥n

¥r¥n

<Audio chunk>¥r¥n

--myboundary¥r¥n

Content-Type: audio/16kadpcm¥r¥n

DataLen: 320¥r¥n

¥r¥n

<Audio chunk>¥r¥n

--myboundary¥r¥n

Content-Type: image/jpeg¥r¥n

CamTim: 2004-05-18 Tue 10:13:05¥r¥n

DataLen: 000xxxxx¥r¥n

¥r¥n

<JPEG chunk>¥r¥n

--myboundary¥r¥n

Content-Type: audio/16kadpcm¥r¥n

DataLen: 320¥r¥n

¥r¥n

<Audio chunk>¥r¥n

--myboundary¥r¥n

Content-Type: audio/16kadpcm¥r¥n

DataLen: 320¥r¥n

¥r¥n

<Audio chunk>¥r¥n

--myboundary¥r¥n

Content-Type: image/jpeg¥r¥n

CamTim: 2004-05-18 Tue 10:13:06¥r¥n

```
DataLen: 000xxxxx¥r¥n
¥r¥n
<JPEG image data>¥r¥n
--myboundary¥r¥n
.
.
.
```

The following model can't obtain voice data.

- SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
- SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
- SNC-EB520/EM520/EM521
- SNC-ZB550/ZM550/ZM551
- SNT-EP104/EP154

3 Audio data request command

In terms of audio bit stream, the camera can also send it in the form of "HTTP bit stream", "RTP (UDP) bit stream (unicast)" or "RTP (UDP) bit stream (multicast)" like MPEG-4 bit stream. You can refer to the "Acquiring MPEG-4 bit stream" for the details of its sequence.

<Method>

GET

<Syntax>

http://ip_adr/audio
http://ip_adr/audio [?UdpMode=unicast&UdpPort=<UDP port number>]
http://ip_adr/audio [?UdpMode=multicast]

[HTTP bit stream]

The following example of response data shows how the HTTP bit stream will be acquired.

GET /audio HTTP/1.0¥r¥n
User-Agent: xxxxx¥r¥n
Host: 192.168.0.150¥r¥n
Accept: */*¥r¥n
Connection: Keep-Alive¥r¥n
¥r¥n
HTTP/1.0 200 OK¥r¥n
Content-Type: audio/16kadpcm¥r¥n
Cache-Control: no-cache¥r¥n
Pragma: no-cache¥r¥n
¥r¥n
<Audio data>
.
.

<Audio data>

In terms of <Audio data>, it is so-called raw data in the form of specified audio codec (G.711,G.726 (40kbps, 32kbps, 24kbps, 16kbps)). G.711 raw data complies with mu-law format.

[RTP bit stream (unicast)]

In terms of acquiring audio RTP bit stream (unicast), putting both UdpMode=unicast and UdpPort=<UDP port number> parameters are required when it is requested via HTTP.

[RTP bit stream (multicast)]

In terms of acquiring audio RTP bit stream (multicast), putting UdpMode=multicast parameter is required when it is requested via HTTP. In order to activate audio multicast bit stream, getting information about the multicast settings is needed prior to starting the sequence. The information is obtained by using "/command/inquiry.cgi?inq=camera" inquiry command.

Multicast	---	Shows whether multicast streaming is set to on or off.
McAddress	---	Shows multicast address which is used for multicast bit stream.
McAudioPort	---	Shows multicast audio port which is used for multicast bit stream

Acquiring Audio & Video bit stream with timestamp

To acquire audio & video bit stream with the timestamp in HTTP, putting timstamp=on parameter is required. The granularity of the timestamp is millisecond and it does not synchronize to the time included in CamTime header.

<Method>

GET

<Syntax>

```
http://ip_adr/image?timstamp=on
http://ip_adr/image?audioin=on&timstamp=on
http://ip_adr/mjpeg?timstamp=on
http://ip_adr/mjpeg?audioin=on&timstamp=on
http://ip_adr/mpeg4?timstamp=on
http://ip_adr/mpeg4?audioin=on&timstamp=on
http://ip_adr/audio?timestamp=on
```

TimStamp header

TimStamp: 0123456789	Fixed in the form of 10 digits. The granularity of the timestamp is millisecond.

The following model can't use an Audio data request command.

- SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
- SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
- SNC-EB520/EM520/EM521
- SNC-ZB550/ZM550/ZM551
- SNT-EP104/EP154

4 Audio output request commands

These requests are to be used for sending encoded audio data to the camera in order to output audio via the equipped line output. Putting appropriate "Basic authorization (Authorization: Basic xxxx)" header for this request is required. You can put "Administrator" username and password to pass the authorization.

<Method>

POST

<Commands>

The following commands can be sent in conjunction with the audio encoded data.

/audio-out/g711_64.cgi
/audio-out/g726_40.cgi
/audio-out/g726_32.cgi
/audio-out/g726_24.cgi
/audio-out/g726_16.cgi

The following example shows that a client application sends the G.726 (32kbps) encoded data to the camera.

```
POST /audio-out/g726_32.cgi HTTP/1.1¥r¥n
HOST: 192.168.0.150¥r¥n
Connection: close¥r¥n
Authorization: Basic YWRtaW46YWRtaW4=¥r¥n
¥r¥n
<Audio data>
.
.
.
```

The following model can't use an Audio output request commands.

- SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
- SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
- SNC-EB520/EM520/EM521
- SNC-ZB550/ZM550/ZM551
- SNT-EP104/EP154

5 Still image request

Acquire 1 data segment of JPEG file as a still image. This command returns a latest JPEG file on the camera. Image size, color reproduction setting and exposure setting become the same as the motion image(Image Codec 1). A still picture acquisition requirement command is shown in the next table.

/oneshotimage.jpg **/oneshotimage1**	It is the command to acquire the still picture of ImageCodec1.
/oneshotimage2	It is the command to acquire the still picture of ImageCodec2.
/oneshotimage3	It is the command to acquire the still picture of ImageCodec3. This requirement can be used only with SNC-RS44N/RS44P/RS46N/RS46P/RS84N/RS84P/RS86N/RS86P.

<Method>

GET

<Syntax>

```
http://ip_adr/oneshotimage.jpg
```

<Example>

A still image request

```
GET /oneshotimage.jpg HTTP/1.1¥r¥n
Host: 192.168.1.1
```

Response data

```
HTTP/1.0 200 OK¥r¥n
Content-Type: image/jpeg¥r¥n
Content-Length: <image size>¥r¥n
¥r¥n
<JPEG image data>
```

6 Setting commands of camera parameters

Set various settings for the camera. When using these commands, describe as the following syntax <parameter>=<value>. It is possible to transmit several parameters at one time only when they belong to the same CGI name (The part of <cgi> of Syntax). In this case, it is necessary to insert "&" between each <parameter>=<value>.

<Method>

GET/POST

<Syntax>

```
http://ip_adr/command/<cgi>?<parameter>=<value>[&<parameter>=<value>...]
```

<Parameters>

Refer to Chapter "11. CGI command list".

7 Inquiry commands of camera parameters

These are to be used to inquire current status of the camera. The item which has an inquiry parameter in the "11. CGI commands list" can be inquired such as its current status. As a response format, "standard format" and "JS parameter format" which you can select arbitrarily are supported.

<Method>

GET/POST

(1) In the case of getting "standard format" response

<Syntax>

```
http://ip_adr/command/inquiry.cgi?inq=<Inquiry>[&inq=<Inquiry>&inq=<Inquiry>...]
```

The response of the inquiry is as follows in the case of "standard format".

```
HTTP/1.0 200 OK¥r¥n Content-Type: text/plain¥r¥n
Content-Length: <len>¥r¥n
¥r¥n
<parameter>=<value>[&<parameter>=<value>&<parameter>=<value>...]
```

(2) In the case of getting "JS parameter format" response

This type of response is suitable for Java Script processing.

<Syntax>

```
http://ip_adr/command/inquiry.cgi?inqjs=<Inquiry>[&inqjs=<Inquiry>&inqjs=<Inquiry>...]
```

The response of the inquiry is as follows in the case of "JS parameter format".

```
HTTP/1.0 200 OK¥r¥n
Content-Type: text/plain¥r¥n
Content-Length: <len>¥r¥n
¥r¥n
var <parameter>="<value>"
var <parameter>=" <value>"
var <parameter>="<value>"
.
.
.
```

The response of the inquiry is obtained by using the HTML below.

```
<SCRIPT LANGUAGE='JavaScript1.2'
SRC='/command/inquiry.cgi?inqjs=<Inquiry>
TYPE='text/javascript'></SCRIPT>
```

<Parameters>

Refer to Chapter "11. CGI command list" with the item which has an "inq" attribute.

8 Control commands for Panning, Tilting, Zooming and Focusing

"ptzf" command is used for controlling Pan, Tilt, Zoom and Focus. The followings explain "relative" parameter, "AbsolutePanTilt" parameter and "AreaZoom" parameter. "relative" parameter is used for the relative displacement. "AreaZoom" parameter is used in the case the selected rectangle area of the host image is required to zoom. "ContinuousPanTiltZoom" parameter is for Joystick operation.

<Method>

GET/POST

<Syntax>

http://ip_adr/command/ptzf.cgi?relative=aabb
http://ip_adr/command/ptzf.cgi?AreaZoom=x,y,w,h

8.1 relative parameter (syntax: relative=aabb)

It is possible to make the relative displacement of the Pan, Tilt and Zoom by using the relative parameter. The difference between this parameter and "visca" parameter of relative position assignment is the presence of normalization with its Zoom position.

How to set the value "aa"

The value "aa" stands for the controlled item and direction such as "Pan position to the right" of "Zoom position to WIDE". It is possible to set the value "aa" by the following Figure or explanation below.

Upper left 07	**Upper 08**	**Upper right 09**
Left 04		**Right 06**
Lower left 01	**Lower 02**	**Lower right 03**

Zoom WIDE : 10 TELE : 11

Figure 8-1 relative parameter "aa"

How to set the value of "bb"

The value of "bb" stands for the degree of displacement whose range is from 01 to 10. The displacement is based on the current video size. The degree of Pan and Zoom displacement is shown in Table 9.1-1 : Pan/Tilt distance.

Table 2: Pan/Tilt distance

Value	Distance: Percent of the current video size.
01	around 10%
02	around 15%

03	around 20%
04	around 25%
05	around 30%
06	around 40%
07	around 50%
08	around 66.7%
09	around 83.3%
10	around 100%

<Example>

move right with 30% on VGA.

```
POST /command/ptzf.cgi HTTP/1.1¥r¥n
Host: 192.168.1.1¥r¥n
Connection: Keep-Alive¥r¥n
Cache-Control: no-cache¥r¥n
Content-Length: 13¥r¥n
¥r¥n
relative=0605
```

<Response>

```
HTTP/1.1 204 No Content¥r¥n
Content-Length: 0¥r¥n
Server: XXXX/X.XX¥r¥n
¥r¥n
```

8.2 AbsolutePanTilt parameter

A position of pan and tilt is specified in the absolute value. The upper right of the screen is a positive direction. Refer to "12.14 PanTilter" for the coordinate of the PTZ camera.

The bottom right of the screen was a positive direction with a SolidPTZ function before the firmware Ver. 1.30. Set up the CGI command of SolidPTZTiltDirection in "down" after the firmware Ver. 1.30 when you move the bottom right of the screen to the positive direction.

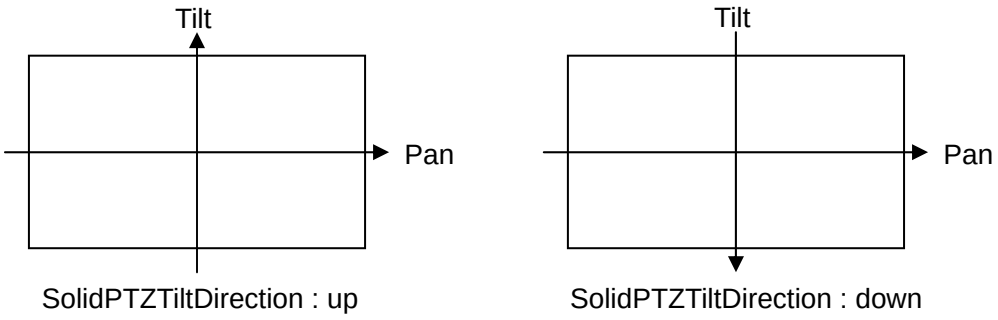


Figure 8-2 Coordinate system of SolidPTZ

Refer to "12.15 PanMovementRange / TiltMovementRange / ZoomMovementRange" for the range of the coordinate of pan and tilt. These values can be read from the camera with PanMovementRange or TiltMovementRange of CGI command.

8.3 AreaZoom parameter (syntax: AreaZoom=x,y,w,h,<codec>)

It is possible to make the Pan and Tilt displacement of the camera by using "AreaZoom" parameter which is familiar to the mouse operation. At first regard the center of the shot image as coordinate origin in Figure8.2-1. If the rectangular area the center of which is (x,y) and the width and height is (w,h) is required to be shot, set the parameter as "AreaZoom=x,y,w,h,<codec>". The camera will shot the dashed line area after the command set.

Note)

- When the specified area is zoomed in, the center may be shifted according to conditions in current Pan, Tilt and Zoom position or specified center.
- When w=0 and h=0 are set in the AreaZoom parameter, no zoom operation is made but the Pan and Tilt operation.

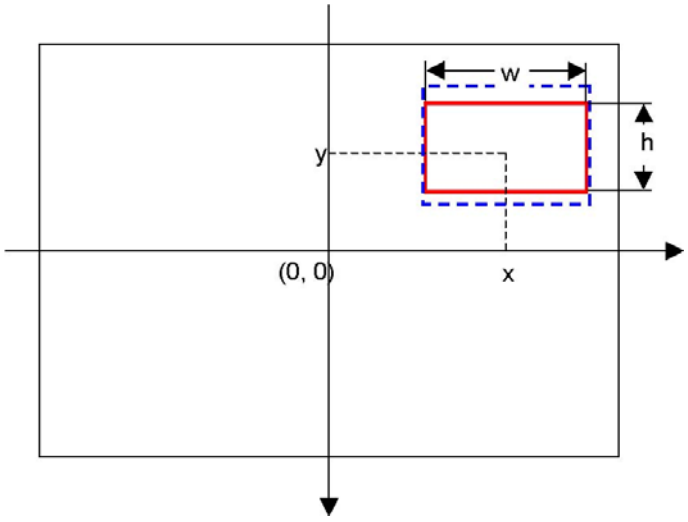


Figure 8-3 AreaZoom

8.4 ContinuousPanTiltZoom parameter (syntax: ContinuousPanTiltZoom=<pan speed>,<tilt speed>,<zoom speed>,<codec>)

This parameter is suitable for the pan and tilt operation which a joy sticks was used for.

About <pan speed> setting:

This value can be specified with one step within the range from -100 to 100. It moves to the right side when a positive value is specified, and when a negative value is specified, it moves to the left side. Pan operation stops when 0 is specified. The speed is almost directly proportional according to the value. Actual speed changes according to the zoom position. When the value is 100 on the Wide edge, speed becomes 120 degree/sec. When this value and <tilt speed> are omitted at the same time, present operation is maintained about pan and tilt operation.

About <tilt speed> setting:

This value can be specified with one step within the range from -100 to 100. It moves to the upper side when a positive value is specified, and when a negative value is specified, it moves to the lower side. Tilt operation stops when 0 is specified. The speed is almost directly proportional according to the value. Actual speed changes according to the zoom position. When the value is 100 on the Wide edge, speed becomes 60 degree/sec. When this value and <pan speed> are omitted at the same time, present operation is maintained about pan and tilt operation.

About <zoom speed> setting:

This value can be specified with one step within the range from -100 to 100. It moves to the Tele direction when a positive value is specified, and when a negative value is specified, it moves to the Wide direction. Zoom operation stops when 0 is specified. When this value is omitted at the same time, present operation is maintained.

About <codec> setting:

This value can be specified with "image1", "image2" or "image3".
When omitting this value, "image1" is thought of as being specified.

About parameter sending interval:

You should send the next command after waiting for HTTP response "204 No Content" from the camera. Send "ContinuousPanTiltZoom=0,0,0" when you stop PTZ operation of camera. (*1)

*1 If you were not able to wait for the response by any means, you should send the next command after it waits at the time of the value of "ContinuousPanTiltZoomInterval" obtained by using system information inquiry "/command/inquiry.cgi&inq=system". The unit of "ContinuousPanTiltZoomInterval" is ms. In this case, it is possible that commands might be reversed. Especially, if the moving command and stopping command is reversed, the camera doesn’t stop at worst.

About Connection:

When using "ContinuousPanTiltZoom" parameter, reconnect every time the command is sent. The reaction of the PTZ operation worsens if keeping connection.

9 Configuration command for motion object detection or unattended object detection

These are to be used for configuring motion detection. Common configuration terms are described in 9.1. Inquiring the configuration is described in 9.2.

9.1 Common configuration terms

This section describes common configuration terms. When using these commands, describe as the following syntax <parameter>=<value>.

<Method>

GET / POST

<Syntax>

```
http://ip_adr/command/objectdetection.cgi?parameter=<value>
```

<Parameters>

Refer to Chapter "11. CGI commands list"

<Example>

Set "Alarm interval" of the unattended detection with half and an hour.

```
POST /command/objectdetection.cgi HTTP/1.1¥r¥n
Host: 192.168.1.1¥r¥n
Connection: Keep-Alive¥r¥n
Cache-Control: no-cache¥r¥n
Content-Length: 20¥r¥n
¥r¥n
Win1Mode=mask
```

<Response>

```
HTTP/1.1 204 No Content¥r¥n
Content-Type: text/plain¥r¥n
Date: Fri, 29 Jul 2005 17:33:58 GMT¥r¥n
Server: XXXX/X.XX¥r¥n
Accept-Ranges: bytes¥r¥n
Connection: Keep-Alive¥r¥n
Expires: Fri, 29 Jul 2005 17:33:56 GMT¥r¥n
Pragma: no-cache¥r¥n
Cache-Control: no-cache¥r¥n
Content-Length: 0¥r¥n
¥r¥n
```

9.2 Inquiring the configuration

The configuration of the motion detection can be inquired described as section 6. Refer to section 6 for detail.

<Syntax>

```
http://ip_adr/command/inquiry.cgi?inq=objectdetection
```

10 Information request command

This request is to be used for getting information such a result of motion detection or status of the sensor input in the form of "HTTP bit stream".

Before using this command, you should configure as described below:

- "AlamData" parameter in system.cgi is set to "on".
- Configure motion object detection or unattended object detection if you need the information.

<Method>

GET

<Syntax>

http://ip_adrress/command/alarmdata.cgi

http://ip_adrress/command/alarmdata.cgi[?interval=<value>]

<Parameters>

interval=<value>

Parameter "interval" means interval seconds between the information is coming. The range of <value> is from 0 to 3600. When 0 is specified the information is updated only when it changes.

<Example>

（Except SNT-EP104/EP154）

GET/command/alarmdata.cgiHTTP/1.1Host:

192.168.0.100 Connection: Keep-Alive

HTTP/1.0 200 OK¥r¥n

Content-Type: multipart/x-mixed-replace;boundary=--myboundary¥r¥n

¥r¥n

--myboundary¥r¥n

Content-Type: text/plain¥r¥n

CamTim: 2007-04-01 Sun 14:10:43¥r¥n

¥r¥n

Sensor1=0¥r¥n

Sensor2=0¥r¥n

Sensor3=0¥r¥n

Sensor4=0¥r¥n

OdWin1=0¥r¥n

OdWin2=0¥r¥n

OdWin3=0¥r¥n

OdWin4=0¥r¥n

VMF=0¥r¥n

Tampering=0¥r¥n
Audio=0¥r¥n
--myboundary¥r¥n
Content-Type: text/plain¥r¥n
CamTim: 2007-04-01 Sun 14:10:46¥r¥n
¥r¥n
.
.

（SNT-EP104/EP154）

GET/command/alarmdata.cgiHTTP/1.1Host:
192.168.0.100 Connection: Keep-Alive

HTTP/1.0 200 OK¥r¥n

Content-Type: multipart/x-mixed-replace;boundary=--myboundary¥r¥n
¥r¥n
--myboundary¥r¥n
Content-Type: text/plain¥r¥n
CamTim: 2007-04-01 Sun 14:10:43¥r¥n
¥r¥n
MdWin1=0¥r¥n
--myboundary¥r¥n
Content-Type: text/plain¥r¥n
CamTim: 2007-04-01 Sun 14:10:46¥r¥n
¥r¥n
.
.

11 CGI command list

These are the tables of every category of the CGI command. These CGI commands may not be able to be used by the model (see under the each table).

- <codec> of Parameter is the integer (1 - 3) which shows ImageCodec1～ImageCodec3.
- <codec> of Value is the string ("image1"/" image2"/" image3") which shows ImageCodec1～ImageCodec3. The models that <codec> can be specified in Value are SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260/DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T /DH260/EB520/EM520/EM521/ZB550/ZM550/ZM551. When <codec> of Value is omitted, it is equal to the case that "image1" was specified. （Even a model except for the above can use codec of Value for AreaZoom and EsRec.）
- The CGI command that "Image1" or "Image2" has it about the end of Parameter controls that that ImageCodec1 or ImageCodec2. "Image1" of the end can be omitted.
- <AI > in the table CGI command shows the number of Alarm In. And, <AO> shows the number of Alarm Out. Refer to Appendix for the number which can be used for every model.

11.1 System

Parameter	Value	InqParm	SetCGI	Ver	Note
ModelName	"<model name>"	system	-	1.00	Return the model name.
Serial	"<serial no.>"	system	-	1.00	Return the serial number.
ChannelNum	"1"/"4"	system	-	1.00	Return the number of channels (one channel or four channels) of Video Network Station.
ChannelId	"1"-"4"	system	-	1.00	Return the number of channels which VideoNetworkStation has.
RackModelName	"SNT-RS1U"/"SNT-RS3U"	system	-	1.10	The model name of the rack of Video Network Station is returned. It can use only with SNT-EX154 and SNT-EP154.
RackSlotId	"0" to "12"	system	-	1.10	The slot ID of the rack of Video Network Station is returned. Value is decimal number. "0" is the value of the unusual time. It can use only with SNT-EX154 and SNT-EP154.

RackSerialNo	"<rack serial no>"	system	-	1.10	The serial number of the rack of Video Network Station is returned. It can use only with SNT-EX154 and SNT-EP154.
PanTiltFunc	"0"/"1"	system	-	1.00	Indicates the camera supports Pan/Tilt function. SNT-EP104 and SNT-EP154 are always "0". A model except for that is always "1".
ZoomFunc	"0"/"1"	system	-	1.00	Indicates the camera supports Zoom function. SNT-EP104 and SNT-EP154 are always "0". A model except for that is always "1".
PrivacyMaskingFunc	"1"	system	-	1.00	Indicates the camera supports Privacy Masking function.
SolidPTZFunc	"1"	system	-	1.10	Indicates the camera supports SolidPTZ function.
SoftVersion	"<version>"	system	-	1.00	Return the software version.
TitleBar	"<text>"	system	system.cgi	1.00	Up to 32 characters.
WelcomeText	"<text>"	system	system.cgi	1.00	Up to 1024 characters.
DefUrlMode	"default"/"userset"/ "custom"	system	system.cgi	1.00	Select home page path. default : ActiveX Viewer userset : Custom home page custom : JAVAScript Viewer
UserUrlPath	"/user/<text>"/ "/a-slot/<text>"	system	system.cgi	1.00	Up to 64 characters except for "/user/" or "/a-slot/".
PowerLed	"on"/"off"	system	system.cgi	1.00	To turn on or off the Power LED.
NetworkLed	"on"/"off"	system	system.cgi	1.00	To turn on or off the Network LED.
CgiAuthen	"on"/"off"	system	system.cgi	1.00	To set the CGI authentication to on or off.
PanoramaRotation	"on"/"off"	system	system.cgi	1.00	Enable or disable rotation of panorama image.
PanoramaFunc	"0"/"1"	system	-	1.00	
PanoramaPicture	"0"/"1"	system	-	1.00	It is the existence of the panorama image.
RoundPanoramaFunc	"0"/"1"	system	-	1.00	
RoundPanoramaPicture	"0"/"1"	system	-	1.00	
ThumbnailFunc	"0"/"1"	system	-	1.00	It is the existence of the Thumbnail function.

PanRotation	"0"/"1"	system	-	1.00	Indicates the camera dose not supports Boundless rotation.
AlarmData	"on"/"off"	system	system.cgi	1.00	Enable or disable streaming of alarm information.
SuperimposeFunc	"id"/"tim"/"idtim"/ "custom"/"off"	system	system.cgi	1.00	Enable or disable superimpose of time & camera ID. id : display camera ID only idtim : display time & camera ID tim : display time only custom : display the text defined by SiFormat off : disable superimpose (For the convertible) This setup becomes effective only when SiEnable is "off". When this CGI is except for "off", the designation of SiFormat which it prepares for the interchange, SiPosition and SiFontSize becomes effective, and an item about the superimposition becomes invalid. Contents are indicated in the position where it was specified with SiPosition when this CGI is specified in "custom" and the one except for "off". A superimposition is made non-indication when it is set up in "off".
SiFormat	"<text>"	system	system.cgi	1.00	Superimposed format in the Upper Left placement on the picture. (For the convertible) A setup becomes effective when the value of SuperimposeFunc is "custom". It can be specified including the tag to sixty characters. (All can't be sometimes indicated by the screen width and the size of the font.)
SiPosition	"0"to"6"	system	system.cgi	1.00	(For the convertible) A superimposition display position is chosen. The contents specified with SuperimposeFunc or SiFormat are objects. 0: Top-left, 1: Top-right, 2: Bottom-left, 3: Bottom-right, 4: Top, 5: Bottom, 6: Center

SiFontSize SiFontSizeImage1 SiFontSizeImage2	"0"/"1"/"2"	system	system.cgi	1.12	Size of superimposed font. 0 : Small, 1 : Middle(Large) 2: Large (Value 2 can be used with SNC-CH115/CH120/CH160/CH210/CH220/CH260 /DH120/DH120T/DH160/DH220/DH220T/DH260 /EB520/EM520/EM521/ZB550/ZM550/ZM551.)
SiEnable SiEnableImage1 SiEnableImage2	"on"/"off"	system	system.cgi	1.12	Enable or disable of Superimpose function. It takes precedence over the specification of SuperimposeFunc. The setup of SuperimposeFunc becomes "off" when SiEnable is set up in "on". A setup for the convertible becomes invalid, too. SuperimposeFunc becomes "off" when SiEnable is set up in "off", too.
SiFormatTag	"<cameraid><datetime><direction><event><zoomratio><codecinfo>"	system	-	1.00	It uses when the tag which can be specified is examined.
SiFormat<n> SiFormat<n>Image1 SiFormat<n>Image2	"<text>"	system	system.cgi	1.12	<n> is the integer of 1 - 7. The format of a string to set up in 1-7 of the superimposition display position (SiPosition n) is specified respectively. Setup example: The contents which <cameraid>, <datetime> and <event> cope with are substituted for this setup, and SAMPLE is indicated as it is. "<text>" = " <cameraid>SAMPLE<datetime><event>" The tag which can be specified is as it is enumerated in SiFormatTag.

SiPosition<n> SiPosition<n>Image1 SiPosition<n>Image2	"0"to"6"	system	system.cgi	1.12	<n> is the integer of 1 - 7. A superimposition display position is chosen. The number of SiPosition<n> copes with the number of SiFormat<n>. 0: Top-left, 1: Top-right, 2: Bottom-left, 3: Bottom-right, 4: Top, 5: Bottom, 6: Center (Limitation 1) It gives priority to "Top" over Top-Left or Top-right. Because of that, it is indicated only in "Top" when it tries even if you indicate it in "Top" and Top-Left and Top-right at the same time. (Limitation 2) Each string is indicated respectively to the center when it is made to indicate it in Top-let and Top-right at the same time. "Bottom-left ": Bottom-right" is the same, too. (Limitation 3) Set it up in SiPosition n not to overlap. When it overlaps and it is set up, you must make the designation of either one side a null character string.
SiCamIdImgEnable	"on"/"off"	system	system.cgi	1.00	Enable or disable LOGO Image. An LOGO image is indicated instead of camera ID. A LOGO image is indicated at the upper left. on: A logo image is indicated. SiCameraId becomes non-indication. off: A logo image isn't indicated. f SiCameraId is effective, a camera ID is indicated. (Default)
Delete	"camidimg"	-	main.cgi	1.00	Delete uploaded Camera ID logo file.
SiCameraId	"<text>"	system	system.cgi	1.00	<cameraid> text up to 20 characters. Toggled by SiLogoEnable. The characters which can be used are a number (0-9), an alphabet (a-z and A-Z), " "(space), "-", ":"(colon) and "_".

SiDateSeparator	"0" to "1"	system	system.cgi	1.00	Date format separator. 0: - (Default) 1: /
SiDateFormat	"0" to "2"	system	system.cgi	1.00	Date format. 0: YYYY<sep>MM<sep>DD HH:MM:SS 1: MM<sep>DD<sep>YYYY HH:MM:SS 2: DD<sep>MM<sep>YYYY HH:MM:SS The character specified with SiDateSeparator is inserted into <sep>.
SiPresetPosition	"on"/"off"	system	system.cgi	1.00	
SiDirectionMode	"azimuth"/"areatitling"	system	system.cgi	1.00	Camera position information such as Areatitle, Preset position and Azimuth. azimuth: Direction corner indication. (Default) areatitling: Indication of an area title.
SiAzimuthMode	"0"/"4"/"8"	system	system.cgi	1.00	Azimuth is set up. 0: OFF 4: 4 direction 8: 8 direction
SiAzimuthNorthPanPos	<pan hex>	system	system.cgi	1.00	A north position is set up.
SiAreaTitle	"<No>,<text>,<pan_start hex>,<pan_end hex>,<tilt_start hex>,<tilt_end hex>,<enable>,<No>,<text>,..."	system	system.cgi	1.00	Some AreaTitle is set up. <No>: Area number (1 to 64) <text>: Name of area title (up to 40 characters) <pan_start>: Start position of pan <pan_end>: End position of pan <tilt_start>: Start position of tilt <tilt_end>: End position of tilt

SiAreaTitleClear	"<No>,<No>,..."	-	system.cgi	1.00	Delete some AreaTitle. <No>: Area number (1 to 64)
SiAreaTitleNum	"<No>"	system	-	1.00	Return the maximum value of the area which can be set up.
SiColor	"0"to"6"	system	system.cgi	1.00	Font Color of superimpose. 0: White, 1: Black, 2: White with black border, 3: Black with white border, 4: White with black background 5: Black with white background, 6: White with transparent background When a color is different, a string "other" is returned.
SiCameraIDStyle	"<Color>","<Blink>","<Style>"	system	system.cgi	1.00	It is a setup about the indication of the CameraID. <Color> specifies the color of the string indicated. 0: Black, 1: Blue, 2: Red, 3: Magenta 4: Green, 5: Cyan, 6: Yellow, 7: White (Default) <Blink> : It is always "off". <Style> specifies the effect on transmission of the string. 0: outline string (other areas include a character body are transparent) 1: normal string with transparent background (Default) 2: normal string with half-transparent white background 3: normal string with half-transparent black background 4: normal string with white background 5: normal string with black background SNC-CH115/CH120/CH160/CH210/CH220/CH260/DH120/DH120T /DH160/DH220/DH220T/DH260/EB520/EM520/EM521 /ZB550/ZM550/ZM551 : <Color> is always 0. <Style> is always 4.

SiDateStyle	"<Color>","<Blink>","<Style>"	system	system.cgi	1.00	The indication of the date is set up. The meaning of <Color Style> is the same as SiCameraIDStyle.
SiZoomRatioStyle	"<Color>","<Blink>","<Style>"	system	system.cgi	1.00	The indication of the zoom ratio is set up. The meaning of <Color Style> is the same as SiCameraIDStyle.
SiCodecInfoStyle	"<Color>","<Blink>","<Style>"	system	system.cgi	1.00	The indication of the CodecInfo is set up. The meaning of <Color Style> is the same as SiCameraIDStyle.
SiEventStyle	"<Color>","<Blink>","<Style>"	system	system.cgi	1.00	The indication of the event is set up. The meaning of <Color Style> is the same as SiCameraIDStyle.
SiDirectionStyle	"<Color>","<Blink>","<Style>"	system	system.cgi	1.00	The indication of the direction is set up. The meaning of <Color Style> is the same as SiCameraIDStyle.
SiStringStyle	"<Color>","<Blink>","<Style>"	system	system.cgi	1.00	The indication of the string except for tag information is set up. The meaning of <Color Style> is the same as SiCameraIDStyle.
Sensor<AI>Mode	"make"/"break"	system	system.cgi	1.00	make: Sensor input is triggered when the connection get short. break: Sensor input is triggered when the connection get open.
Alarm<AO>Duration	"0"to"300"	system	system.cgi	1.00	The time of the output of the alarm is set up.

VideoOutMode	"ip" / "ntsc" / "pal"	system	system.cgi	1.00	Select video output mode. Only SNC-CH135/CH140/CH220/CH240/CH260/CH280/DH140 /DH140T/DH220/DH220T/DH240/DH240T/DH260/DH280/RH124 /RH164 can be set up. "ip" or "on" can be set up in these models. A state of output of the analog video is returned with inquiry. SNC-RH124/RH164：It is one of "ip"/"ntsc"/"pal". SNC-RS44N/RS44P/RS46N/RS46P/RS84N/RS84P/RS86N/RS86P：It is "ntsc" or "pal" corresponding to the end of the model name. SNC-CH115/CH120/CH135/CH140/CH160/CH210/CH220/CH240 /CH260/CH280/DH120/DH120T/DH140/DH140T/DH160/DH220 /DH220T/DH240/DH240T/DH260/DH280/EB520/EM520/EM521 /ZB550/ZM550/ZM551：It becomes "ip"/" ntsc"/" pal" correspornding to the set point of the slide switch and VideoOutMode. SNT-EX101/101E/104/154, SNT-EP104/154： It becomes "ntsc" or "pal" corresponding to the connected camera.
NonVolatilizationLog	"on"/"off"	system	system.cgi	1.00	Enable or disable non-volatile log.
ContinuousPanTiltZoomFunc	"1"/"0"	system	-	1.00	It is the existence of the ContinuousPanTiltZoom function.
ContinuousPanTiltZoomInterval	"<interval time>"	system	-	1.00	It is the shortest interval between a command to use ContinuousPanTiltZoom command. (msec)
CameraControlInterface	"serial"/"coaxitron"	system	system.cgi	1.00	It is the choice of the camera control interface.
HeaderLogoPicture	"1"/"0"	system	-	1.00	This returns some/nothing (1/0) of the header logo image.
PowerSource	"unkown"/"ac"/"dc"/"hpoe"/"poe"	system	-	1.10	The kind of the power supply is returned.
PowerControl	"on"/"off"	system	system.cgi	1.2	Electric power is mediated with LLDP(Link Layer Discovery. Protocol).
EdgeStorageFunc	"1"/"0"	system	-	1.10	Indicates the camera supports EdgeStorage function or not.

IPoCFunc	"1"/"0"	system	-	1.72	Indicates the camera supports IP over Coax function or not.
WsDiscovery	"on"/"off"	system	system.cgi	1.75	Enable or disable to send a multicast join message which WS-Discovery protocol needs at start-up.

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (System)
SNC-CH110	Alarm<AO>Duration, CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-CH115/CH120	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-CH135/CH140	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2
SNC-CH160	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-CH180	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2
SNC-CH210	Alarm<AO>Duration, CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-CH220	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode

SNC-CH240	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2
SNC-CH260	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-CH280	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2
SNC-DH110/DH110T	Alarm<AO>Duration, CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH120	Alarm<AO>Duration, CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, Sensor<AI>Mode, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH120T	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH140/DH140T	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiDirectionStyle, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2
SNC-DH160	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH180	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2

SNC-DH210/DH210T	Alarm<AO>Duration, CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH220	Alarm<AO>Duration, CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, Sensor<AI>Mode, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH220T	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH240/DH240T	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2
SNC-DH260	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-DH280	CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2
SNC-EP520/EP521	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNC-EP550	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNC-EP580	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNC-ER520/ER521	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNC-ER550	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNC-ER580 /ER585/ER585H	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNC-EB520	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode

SNC-EM520/EM521	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-RH124/RH164	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2, SolidPTZFunc
SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2, SolidPTZFunc
SNC-ZB550	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-ZM550	Alarm<AO>Duration, CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, Sensor<AI>Mode, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-ZM551	CameraControlInterface, PowerControl, RackModelName, RackSerialNo, RackSlotId, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode
SNC-ZP550	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNC-ZR550	CameraControlInterface, RackModelName, RackSerialNo, RackSlotId, SolidPTZFunc, VideoOutMode
SNT-EP104	Alarm<AO>Duration, CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, Sensor<AI>Mode, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2, SolidPTZFunc, VideoOutMode
SNT-EP154	Alarm<AO>Duration, CameraControlInterface, PanoramaPicture, PanoramaRotation, PowerControl, RoundPanoramaPicture, Sensor<AI>Mode, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2, SolidPTZFunc, VideoOutMode

SNT-EX101/EX101E	PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2, SolidPTZFunc, VideoOutMode
SNT-EX104	PanoramaPicture, PanoramaRotation, PowerControl, RackModelName, RackSerialNo, RackSlotId, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2, SolidPTZFunc, VideoOutMode
SNT-EX154	PanoramaPicture, PanoramaRotation, PowerControl, RoundPanoramaPicture, SiAreaTitle, SiAreaTitleClear, SiAreaTitleNum, SiAzimuthMode, SiAzimuthNorthPanPos, SiDirectionMode, SiEnableImage1, SiEnableImage2, SiFontSizeImage1, SiFontSizeImage2, SiFormat<n>Image1, SiFormat<n>Image2, SiPosition<n>Image1, SiPosition<n>Image2, SolidPTZFunc, VideoOutMode

11.2 Exclusive camera control

Parameter	Value	InqParm	SetCGI	Ver	Note
CamCtrlRight	"on"/"off"	system	system.cgi	1.00	On or off the exclusive pan/tilt control from ActiveXviewer.
CamCtrlTime	"10"to"600"	system	system.cgi	1.00	Set period of time in seconds. A client that has the permission of pan/tilt control can control the camera in the period.
CamMaxWaitNo	"0"to"10"	system	system.cgi	1.00	Set maximum number of the client who waits the exclusive control.

- The Exclusive camera control CGI commands cannot be used with the following models.
  - ♦ SNT-EP104/EP154

11.3 Date and time

Parameter	Value	InqParm	SetCGI	Ver	Note
Time	"<time>"	system	etc.cgi	1.00	Setting of local time.

GmTime	"<time>"	system	etc.cgi	1.00	Setting of GM time.
TimeZone	"<time zone>"	system	system.cgi	1.00	Setting of time zone.
DstMode	"on"/"off"	system	system.cgi	1.00	Enable or disable summer time (daylight saving time).
DateFormat	"ymd"/"mdy"/"dmy"	system	system.cgi	1.00	ymd : yyyy-mm-dd mdy : mm-dd-yyyy dmy : dd-mm-yyyy
NtpService	"on"/"off"	system	system.cgi	1.00	Synchronization with NTP server
NtpSrvAdd	"conf"/"dhcp"/"multi"	system	system.cgi	1.00	Setting of NTP server address, conf : manual (max. 3) dhcp : get from the DHCP/DHCPv6 server multi : use multicast address
NtpServer	"<server>"	system	system.cgi	1.00	Up to 64 characters.
NtpServer2	"<server>"	system	system.cgi	1.00	Up to 64 characters.
NtpServer3	"<server>"	system	system.cgi	1.00	Up to 64 characters.

11.4 Pan/Tilt/Zoom

Parameter	Value	InqParm	SetCGI	Ver	Note
Move	"<direction>,<speed>,<codec>"	-	ptzf.cgi	1.12	Move command in Pan/Tilt direction. <direction>: left, right, up, down, up-left, up-right, down-left, down-right <speed> : Network Camera : "1" to "24" Video Network Station : "1" to "100"
Move	"<zoom>,<speed>,<codec>"	-	ptzf.cgi	1.12	Move command in zoom direction. <zoom> : “tele”, “wide” <speed> : "1" to "8"

Move	"<focus>,<speed>,<codec>"	-	ptzf.cgi	1.12	Move command in focus direction. <focus> : “near”, “far”, “onepushaf” （onepushaf is effective when FocusMode is manual.） <speed> : "1" to "8"
Move	"stop,<mode>,<codec>"	-	ptzf.cgi	1.12	Stop command for moving. <mode>: "pantilt" or "motor": Stop panning and tilting. "zoom": Zoom is stopped. "focus": Focus is stopped.
AreaZoom	"<center X>,<center Y>, <width>,<height>,<codec>"	-	ptzf.cgi	1.00	width, height: 0 at DirectPT and PT Camera <center X> : X distance from center (Pixel) <center Y> : Y distance from center (Pixel) <codec> : Video codec associated with distance ("image1"/"image2"/"image3")
Relative	"<aabb>,<codec>"	-	ptzf.cgi	1.12	aabb: See chapter "8.1 relative parameter (syntax: relative=aabb)".
AbsolutePanTilt AbsolutePanTiltImage1 AbsolutePanTiltImage2	"<pan position>,<tilt position>,<speed>"	ptzf	ptzf.cgi	1.12	Move to specified address of pan and tilt. speed: "1" to "24"
RelativePanTilt	"<pan position>,<tilt position>,<speed>,<codec>"	-	ptzf.cgi	1.12	Move in the specified direction. speed: "1" to "24"
AbsoluteZoom	"<zoom position>,<codec>"	-	ptzf.cgi	1.12	Move to specified zoom position.
RelativeZoom	"<zoom position>,<codec>"	-	ptzf.cgi	1.12	Move to specified zoom position.
AbsolutePTZF AbsolutePTZFImage1 AbsolutePTZFImage2	"<pan position>,<tilt position>,<zoom position>,<focus position>"	ptzf	ptzf.cgi	1.12	

LimitPanTilt	"<min pan position>,<min tilt position>, <max pan position>,<max tilt position>"	ptzf	ptzf.cgi	1.00	min pan position: "E020"～"FFFF" min tilt position: "F808"～"FFFF" max pan position: "0001"～"1FE0" max tilt position: "0001"～"0AA0" limit clear: all position "7FFF"
HorizontalTiltLimit	"on"/"off"	ptzf	ptzf.cgi	1.00	When this is set on, the operating range of the tilt is by the horizontal.
Cancel	"on,<codec>"	-	ptzf.cgi	1.12	
PanTiltMaxVelocity	"24"	ptzf	-	1.00	
ZoomMaxVelocity	"8"	ptzf	-	1.00	
PanMovementRange	"<min position>,<max position>"	ptzf	-	1.00	Return the range of panning.
TiltMovementRange	"<min position>,<max position>"	ptzf	-	1.00	Return the range of tilting.
ZoomMovementRange	"<wide end>,<optical tele end>,<digital tele end>"	ptzf	-	1.00	Return the range of zooming.
PanPanoramaRange	"<min position>,<max position>"	ptzf	ptzf.cgi	1.00	
TiltPanoramaRange	"<min position>,<max position>"	ptzf	ptzf.cgi	1.00	
VisiblePanRange	"<min pos>,<max pos>"	ptzf	-	1.10	An indication range is returned.
VisibleTiltRange	"<min pos>,<max pos>"	ptzf	-	1.10	An indication range is returned.
ContinuousPanTiltZoom	"<pan speed>,<tilt speed>,<zoom speed>,<codec>"	-	ptzf.cgi	1.12	pan speed: "-100" to "100" tilt speed: "-100" to "100" zoom speed: "-100" to "100"
PtzfMode	"normal"/"step"	camera	camera.cgi	1.00	
RelPanTilt	"1"to"10"	camera	camera.cgi	1.00	
RelZoom	"1"to"10"	camera	camera.cgi	1.00	
AutoFlip	"off"/"0"/"250"/"500"/"750"	camera	camera.cgi	1.00	It is the setup of the time of AutoFlip (msec). SNT-EX101/EX101E/EX104/EX154 is always "off".

AutoFlipMode	"mechaflip"/"eflip"	camera	-	1.00	Return the kind of AutoFlip.
EflipFunc	"0"/"1"	camera	-	1.00	
Eflip	"on"/"off"	camera	camera.cgi	1.12	
SolidPTZ SolidPTZ1 SolidPTZ2	"on"/"off"	camera	camera.cgi	1.12	The solid PTZ function is turned on and off.
SolidPTZMode	"quality"/"rate"	camera	camera.cgi	1.12	This sets up SolidPTZ priority.
SolidPTZTiltDirection	"up"/"down"	camera	camera.cgi	1.3	It is the direction of the coordinate of AbsolutePanTilt. "up": It is the same as Rapid Dome Camera. "down": It is the same even as the firmware V1.2.
AnalogCamPanSpeed	"<speed>"	ptzf	ptzf.cgi	1.2	speed: "0"～"100"
AnalogCamTiltSpeed	"<speed>"	ptzf	ptzf.cgi	1.2	speed: "0"～"100"
AnalogCamZoomSpeed	"<speed>"	ptzf	ptzf.cgi	1.2	speed: "0"～"8"
AnalogCamFocusSpeed	"<speed>"	ptzf	ptzf.cgi	1.2	speed: "0"～"8"
SerialDirect	"<Serial-DirectData>"	-	ptzf.cgi	1.2	The contents of <Serial-DirectData> are transferred to the analog camera.
FocusNearLimit	“<limit position>”	ptzf	ptzf.cgi	1.74	Set the focus near limit. Refer to Appendix.
MaxZoomSpeed	“<speed>”	ptzf	ptzf.cgi	1.74	Set the max zoom speed. Refer to Appendix.

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (Pan/Tilt/Zoom)
SNC-CH110	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-CH115/CH120	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed

SNC-CH135/CH140	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-CH160	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-CH180	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-CH210	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-CH220	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-CH240	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-CH260	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-CH280	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-DH110/DH110T	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-DH120	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-DH120T	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed

SNC-DH140/DH140T	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-DH160	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-DH180	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-DH210/DH210T	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-DH220	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-DH220T	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-DH240/DH240T	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-DH260	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, FocusNearLimit, MaxZoomSpeed
SNC-DH280	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, EflipFunc, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-EP520/EP521	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, VisibleTiltRange, FocusNearLimit, MaxZoomSpeed
SNC-EP550	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, VisibleTiltRange

SNC-EP580	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, VisibleTiltRange, FocusNearLimit, MaxZoomSpeed
SNC-ER520/ER521	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-ER550	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, VisibleTiltRange
SNC-ER580 /ER585/ER585H	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, VisibleTiltRange, FocusNearLimit, MaxZoomSpeed
SNC-EB520	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-EM520/EM521	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-RH124/RH164	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, SerialDirect, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, SolidPTZTiltDirection, VisiblePanRange, VisibleTiltRange, Eflip, FocusNearLimit, MaxZoomSpeed
SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, SerialDirect, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, SolidPTZTiltDirection, VisiblePanRange, VisibleTiltRange, Eflip, FocusNearLimit, MaxZoomSpeed
SNC-ZB550/ZM550 /ZM551	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, AutoFlipMode, Eflip, HorizontalTiltLimit, LimitPanTilt, SerialDirect, SolidPTZMode, FocusNearLimit, MaxZoomSpeed
SNC-ZP550	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AutoFlip, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, VisibleTiltRange
SNC-ZR550	AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, VisibleTiltRange

SNT-EP104	AbsolutePTZF, AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTilt, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AbsoluteZoom, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AreaZoom, AutoFlip, AutoFlipMode, Cancel, ContinuousPanTiltZoom, HorizontalTiltLimit, LimitPanTilt, Move, PanMovementRange, PanPanoramaRange, PanTiltMaxVelocity, PtzfMode, RelPanTilt, RelZoom, Relative, RelativePanTilt, RelativeZoom, SerialDirect, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, SolidPTZTiltDirection, TiltMovementRange, TiltPanoramaRange, VisiblePanRange, VisibleTiltRange, ZoomMaxVelocity, ZoomMovementRange, Eflip, FocusNearLimit, MaxZoomSpeed
SNT-EP154	AbsolutePTZF, AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTilt, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AbsoluteZoom, AnalogCamFocusSpeed, AnalogCamPanSpeed, AnalogCamTiltSpeed, AnalogCamZoomSpeed, AreaZoom, AutoFlip, AutoFlipMode, Cancel, ContinuousPanTiltZoom, HorizontalTiltLimit, LimitPanTilt, Move, PanMovementRange, PanPanoramaRange, PanTiltMaxVelocity, PtzfMode, RelPanTilt, RelZoom, Relative, RelativePanTilt, RelativeZoom, SerialDirect, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, SolidPTZTiltDirection, TiltMovementRange, TiltPanoramaRange, VisiblePanRange, VisibleTiltRange, ZoomMaxVelocity, ZoomMovementRange, Eflip, FocusNearLimit, MaxZoomSpeed
SNT-EX101/EX101E	AbsolutePTZF, AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTilt, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AbsoluteZoom, AreaZoom, AutoFlipMode, ContinuousPanTiltZoom, HorizontalTiltLimit, LimitPanTilt, PtzfMode, RelPanTilt, RelZoom, Relative, RelativePanTilt, RelativeZoom, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, SolidPTZTiltDirection, VisiblePanRange, VisibleTiltRange, Eflip, FocusNearLimit, MaxZoomSpeed
SNT-EX104	AbsolutePTZF, AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTilt, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AbsoluteZoom, AreaZoom, AutoFlipMode, ContinuousPanTiltZoom, HorizontalTiltLimit, LimitPanTilt, PtzfMode, RelPanTilt, RelZoom, Relative, RelativePanTilt, RelativeZoom, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, SolidPTZTiltDirection, VisiblePanRange, VisibleTiltRange, Eflip, FocusNearLimit, MaxZoomSpeed
SNT-EX154	AbsolutePTZF, AbsolutePTZFImage1, AbsolutePTZFImage2, AbsolutePanTilt, AbsolutePanTiltImage1, AbsolutePanTiltImage2, AbsoluteZoom, AreaZoom, AutoFlipMode, ContinuousPanTiltZoom, HorizontalTiltLimit, LimitPanTilt, PtzfMode, RelPanTilt, RelZoom, Relative, RelativePanTilt, RelativeZoom, SolidPTZ, SolidPTZ1, SolidPTZ2, SolidPTZMode, SolidPTZTiltDirection, VisiblePanRange, VisibleTiltRange, Eflip, FocusNearLimit, MaxZoomSpeed

- When a connected analog camera supports it, SNT-EX101/EX101E/EX104/EX154 can use the following CGI command.
  - ♦ Move, Cancel, PanTiltMaxVelocity, ZoomMaxVelocity, AutoFlip

11.5 Focus/Zoom

Parameter	Value	InqParm	SetCGI	Ver	Note
FzMove	"<zoom>,<speed>"	-	focuszoom.cgi	1.00	The movement of a zoom of the lens is started. <zoom>:”tele”/”wide”
FzMove	"<focus>,<speed>"	-	focuszoom.cgi	1.00	The adjustment of the focus of the lens is started. <focus>:”far”/”near”
FzMove	"onepushaf,<speed>"	-	focuszoom.cgi	1.00	One push auto focus is begun.
FzMove	"stop,<mode>"	-	focuszoom.cgi	1.00	A zoom or focus adjustment is stopped. <mode>:”zoom”/”focus” "zoom" : A zoom movement is stopped. A focus stops when a focus follows a zoom, too. "focus" : Focus adjustment is stopped. It doesn't stop when a focus follows a zoom. It is effective only in the movement by FzMove. A movement by the FzAbsolute/FzRelative command doesn't stop.
FzInitialize	"on"	-	focuszoom.cgi	1.00	A zoom and a focus are made condition in the factory default.
FzAbsoluteZoom	"<zoom>"	focuszoom	focuszoom.cgi	1.00	It has a zoom in the position absolutely. A focus doesn't follow it. <zoom>: 0 to 1532 (Integer)

FzAbsoluteFocus	"<focus>"	focuszoom	focuszoom.cgi	1.00	It is adjusted to the position to specify a focus. <focus>: ・SNC-CH115/CH120/CH135/CH140/CH220/CH240/CH260/CH280 /EB520/ZB550: 0 –798 (Integer) ・SNC-CH160/CH180/DH120/DH120T/DH140/DH140T/DH180/DH220/DH220T /DH240/DH240T/DH260/DH280/EM520/EM521/ZM550/ZM551: 0 – 2345 (Integer)
FzAbsoluteZF	"<zoom>,<focus>"	-	focuszoom.cgi	1.00	A zoom and a focus are adjusted to the absolute value at the same time. <zoom>: SNC-CH115/CH120/CH135/CH140/CH220/CH240/CH260/CH280 /EB520/ZB550: Value is ignored. SNC-CH160/CH180/DH120/DH120T/DH140/DH140T/DH180/DH220 /DH220T/DH240/DH240T/DH260/DH280/EM520/EM521/ZM550/ZM551: 0 – 1532 (Integer) <focus>: SNC-CH115/CH120/CH135/CH140/CH220/CH240/CH260/CH280 /EB520/ZB550: 0 –798 (Integer) SNC-CH160/CH180/DH120/DH120T/DH140/DH140T/DH180/DH220 /DH220T/DH240/DH240T/DH260/DH280/EM520/EM521/ZM550/ZM551: 0 – 2345 (Integer)
FzRelativeZoom	"<zoom>"	-	focuszoom.cgi	1.00	Relativity moves a zoom. A focus doesn't follow it. <zoom>: -1532 - 1532 (Integer)

FzRelativeFocus	"<focus>"	-	focuszoom.cgi	1.00	Relativity is moved through the focus. <focus>: SNC-CH115/CH120/CH135/CH140/CH220/CH240/CH260/CH280 /EB520/ZB550: -798–798 (Integer) SNC-CH160/CH180/DH120/DH120T/DH140/DH140T/DH180/DH220 /DH220T/DH240/DH240T/DH260/DH280/EM520/EM521/ZM550/ZM551: -2345 – 2345 (Integer)
FzRelativeZF	"<zoom>"	-	focuszoom.cgi	1.00	Zoom to the relative position. Focus moves in synchronization with zoom. <zoom>:-1532～1532 (Integer)
FzZoomMovementRange	"<wide end>,<tele end>"	focuszoom	-	1.00	The range of a zoom is returned. ”0”,”1532”
FzFocusMovementRange	"<far end>,<near end>"	focuszoom	-	1.00	The range of the focus is returned. SNC-CH115/CH120/CH135/CH140/CH220/CH240/CH260/CH280 /EB520/ZB550:"0","798" SNC-CH160/CH180/DH120/DH120T/DH140/DH140T/DH180/DH220/DH220T /DH240/DH240T/DH260/DH280/EM520/EM521/ZM550/ZM551:"0","2345"

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (Focus/Zoom)
SNC-CH115/CH120	FzAbsoluteZoom, FzMove, FzRelativeZF, FzRelativeZoom, FzZoomMovementRange
SNC-CH135/CH140	FzAbsoluteZoom, FzMove, FzRelativeZF, FzRelativeZoom, FzZoomMovementRange
SNC-CH220	FzAbsoluteZoom, FzMove, FzRelativeZF, FzRelativeZoom, FzZoomMovementRange
SNC-CH240	FzAbsoluteZoom, FzMove, FzRelativeZF, FzRelativeZoom, FzZoomMovementRange
SNC-EB520	FzAbsoluteZoom, FzMove, FzRelativeZF, FzRelativeZoom, FzZoomMovementRange
SNC-ZB550	FzAbsoluteZoom, FzMove, FzRelativeZF, FzRelativeZoom, FzZoomMovementRange

●The Focus/Zoom CGI commands cannot be used with the following models.

- SNC-CH110/CH210
- SNC-DH110/DH110T/DH210/DH210T
- SNC-EP520/EP521/EP550/EP580
- SNC-ER520/ER521/ER550/ER580/ER585/ER585H
- SNC-RH124/RH164
- SNC-RS44N/RS44P/RS46N/RS46P/RS84N/RS84P/RS86N/RS86P
- SNC-ZP550/ZR550
- SNT-EP104/EP154
- SNT-EX101/EX101E/EX104/EX154

11.6 Camera

Parameter	Value	InqParm	SetCGI	Ver	Note
AudioIn	"on"/"off"	camera	camera.cgi	1.00	Enable or disable the audio input.
AudioInVolume	"-10"to"10"	camera	camera.cgi	1.00	Change the volume of the audio input.
AudioOut	"on"/"off"	camera	camera.cgi	1.00	Enable or disable the audio output.
AudioOutVolume	"-10"to"10"	camera	camera.cgi	1.00	Change the volume of the audio output.
MicLineSelect	"mic" / "line"	camera	camera.cgi	1.00	Select the audio input path.
AudInCodec	"g711_64"/"g726_40"/"g726_32"/"g726_24"/"g726_16"	camera	camera.cgi	1.00	Select the audio codec for audio input (encoder).
EchoSuppressor	"on"/"off"	camera	camera.cgi	1.00	Enable or disable the echo suppressor function.
AudioNoiseReduction	"on"/"off"	camera	camera.cgi	1.00	Enable or disable the audio noise reduction.
DynamicRangeCompressor	"on"/"off"	camera	camera.cgi	1.10	A dynamic range compression function is set up.

ImageCodec	"jpeg"/"mpeg4"/"h264" "mpeg4-jpeg"/"jpeg-mpeg4" "h264-jpeg"/"jpeg-h264"	camera	camera.cgi	1.00	Select the video codec. When two are set up at the same time, the first Codec is set up in ImageCodec1, and the second is set up in ImageCodec2.
ImageCodec<codec>	"jpeg"/"mpeg4"/"h264"/"off"	camera	camera.cgi	1.00	Select the video codec. ImageCodec1 does not support "off".
AlmBufCodec	"jpeg"/"mpeg4"/"h264"	camera	-	1.00	
M4ImageSize	"<horizontal pixel>,<mode>"	camera	camera.cgi	1.00	Image size of MPEG-4 streaming. <horizontal pixel>: Refer to the note of the bottom for the image size which can be set up. <mode>: "0"-"2" (This value is ignored.)
JpImageSize	"<horizontal pixel>"	camera	camera.cgi	1.00	Image size of Motion JPEG streaming. Refer to the note of the bottom for the image size which can be set up.
ImageSize<codec>	"<horizontal pixel>,<vertical pixel>"	camera	camera.cgi	1.00	Image size of Streaming. Refer to the note of the bottom for the image size which can be set up.
AreaSet	"<upper left X>,<upper left Y>,<lower right X>,<lower right Y>"	camera	camera.cgi	1.00	The range of Cropping is set up. Refer to Appendix.
AreaSelect	"on"/"off"	camera	camera.cgi	1.00	AreaSelect is made effective.
M4AreaSelect	"on"/"off"	camera	-	1.00	This parameter does not effect into this camera.
JpAreaSelect	"on"/"off"	camera	camera.cgi	1.00	To turn the cropping on JPEG on or off.
Multicast	"on"/"off"	camera	camera.cgi	1.00	Turn multicast streaming on or off.
McAddress	"<ip addr>"	camera	camera.cgi	1.00	Set multicast address for all the McAddress<codec> and McAudioAddress.
McAddress<codec>	"<ip addr>"	camera	camera.cgi	1.70	Set multicast address for each image codec.
McAudioAddress	"<ip addr>"	camera	camera.cgi	1.70	Set multicast address for Audio streaming.

McVideoPort	"1024"to"65534"	camera	camera.cgi	1.00	Set the port number to use with multicast streaming of ImageCodec1.Only even numbers are available. The default value is 60000.
McVideoPort<codec>	"1024"to"65534"	camera	camera.cgi	1.00	Set the port number to use with multicast streaming. Only even numbers are available. The default value is 60000/62000/64000.
McAudioPort	"1024"to"65534"	camera	camera.cgi	1.00	Set the port number from which Audio sends in multicast streaming.Only even numbers are available. The default value is 60002.
McTtl	"1"to"255"	camera	camera.cgi	1.00	Set TTL value on the multicast packet.
UcVideoPort	"1024"to"65534"	camera	camera.cgi	1.00	Set the port number from which MPEG-4 or H.264 sends in unicast streaming. Only even numbers are available. The default value is 50000.
UcVideoPort<codec>	"1024"to"65534"	camera	camera.cgi	1.00	Set the port number from which Image codec sends in unicast streaming. Only even numbers are available. The default value is 50000/52000/54000.
UcAudioPort	"1024"to"65534"	camera	camera.cgi	1.00	Set the port number from which Audio sends in unicast streaming. Only even numbers are available. The default value is 50002.
RTSPMcAddress	"<ip addr>"	camera	camera.cgi	1.26	Set multicast address of RTSP.
RTSPMcVideoPort<codec>	"1024"to"65534"	camera	camera.cgi	1.26	Set the port number from which Image codec sends in multicast streaming of RTSP. Only even numbers are available. The default value is 61000/63000/65000.
RTSPMcAudioPort	"1024"to"65534"	camera	camera.cgi	1.26	Set the port number from which Audio sends in multicast streaming of RTSP. Only even numbers are available. The default value is 61002. SNT-EX154 can be used only with CH1.
RTSPUcVideoPort<codec>	"1024"to"65534"	camera	camera.cgi	1.26	Set the port number from which Image codec sends in unicast streaming of RTSP. Only even numbers are available. The default value is 51000/53000/55000.

RTSPUcAudioPort	"1024"to"65534"	camera	camera.cgi	1.26	Set the port number from which Audio sends in unicast streaming of RTSP. Only even numbers are available. The default value is 51002. SNT-EX154 can be used only with CH1.
McVideoAutomode<codec>	"on"/"off"	camera	camera.cgi	1.26	Set the automatic multicast streaming of the video. Default value is off.
McAudioAutomode	"on"/"off"	camera	camera.cgi	1.26	Set the automatic multicast streaming of the Audio. Default value is invalid. SNT-EX154 can be used only with CH1.
RTSPPort	"554/"1024"to"65535"	camera	camera.cgi	1.00	It uses by the RTSP transmission. A port number is set up. Default is 554. A RTSP server restarts when a setup is changed.
RTSPTimeout	"0" to "600"	camera	camera.cgi	1.04	It uses by the RTSP transmission. This value is used for RTSP session Keep Alive. Default is 0. When set to 0, RTSP session will not be disconnected even if it does not receive the Keep Alive commands.
RTPMJPEGExtnHeader	"on"/"off"	camera	camera.cgi	1.00	The matter whether JPEG over RTP and RTP Extension Header are developed is set up. Initial value is "off". When this command is taken, a camera restarts a RTSP server.
RTPMJPEGOffset	"on"/"off"	camera	camera.cgi	1.61	The value of Fragment Offset in JPEG header over RTP conforms to RFC 2435. If the cgi value is set to “off”, the Fragment Offset value follows the specification prior to v1.61 firmware and differs from RFC 2435. The default value is “on”.
M4FrameRate	"<framerate>"	camera	camera.cgi	1.00	Set frame rate of MPEG-4 Frame Rate (fps) 0(fastest), 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30 Setting Command and Inquiry Command are invalid when "mpeg4" isn't specified in ImageCodec.
M4BitRate	"64" to "2048"	camera	camera.cgi	1.00	Set bitrates (kbps) of MPEG-4. (from 64 to 2048) Setting Command and Inquiry Command are invalid when "mpeg4" isn't specified in ImageCodec.

M4IFrameInterval	"1"to"5"	camera	camera.cgi	1.00	Set I-Frame interval in second. 0: I-Frame interval is specified by the M4IFrameRatio parameter. Setting Command and Inquiry Command are invalid when "mpeg4" isn't specified in ImageCodec.
M4AutoRateCtrl	"on"/"off"	camera	camera.cgi	1.00	Enable or disable the adaptive rate control for MPEG-4. Setting Command and Inquiry Command are invalid when "mpeg4" isn't specified in ImageCodec.
M4InsertIFrame	"on"	-	camera.cgi	1.00	This parameter does not effect into this camera. Setting Command are invalid when "mpeg4" isn't specified in ImageCodec.
JpFrameRate	"<framerate>"	camera	camera.cgi	1.00	Set frame rate of JPEG (fps) 0(fastest), 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30 Setting Command and Inquiry Command are invalid when "jpeg" isn't specified in ImageCodec.
JpQuality	"1"to"10"	camera	camera.cgi	1.00	"1" is lowest quality and "10" is highest quality. Setting Command and Inquiry Command are invalid when "jpeg" isn't specified in ImageCodec.
JpTargetRatio	"5"to"60"	camera	camera.cgi	1.00	* This function is not available even by setting this parameter. Compression ratio is set with 1/"n". This function is valid only when JpQuality is set to 0. Setting Command invalid when "jpeg" isn't specified in ImageCodec.
JpBandwidth	"0.0"/"0.5"to"15.0"	camera	camera.cgi	1.00	Band limitation for JPEG streaming. Setting Command and Inquiry Command are invalid when "jpeg" isn't specified in ImageCodec.
FrameRate<codec>	"1"/"2"/"3"/"4"/"5"/"6"/"8"/"10"/"12"/"15"/"16"/"20"/"25"/"30"	camera	camera.cgi	1.12	The frame rate which can be set up by the model is different. Refer to Appendix.

BitRate<codec>	"64"/"128"/"256"/"384"/"512"/ "768"/"1024"/"1536"/"2048"/"3072"/ "4096"/"5120"/"6144"/"7168"/"8192"	camera	camera.cgi	1.00	
IFrameInterval<codec>	"0"to"5"	camera	camera.cgi	1.00	
IFrameRatio<codec>	"1"to"150"	camera	camera.cgi	1.00	This setup is effective when the value of IFrameInterval<codec> is "0".
AutoRateCtrl<codec>	"on"/"off"	camera	camera.cgi	1.00	
InsertIFrame<codec>	"on"	-	camera.cgi	1.00	
Quality<codec>	"1"to"10"	camera	camera.cgi	1.00	
TargetRatio<codec>	"5"to"60"	camera	camera.cgi	1.00	* This function is not available even by setting this parameter.
Bandwidth<codec>	"0.0"to"15.0"	camera	camera.cgi	1.00	Limitation of the bandwidth of streaming.
ImageMaxSize	<Horizontal>,<Vertical>	camera	-	1.00	Refer to Appendix.
VidCapSize	"<Horizontal>,<Vertical>"	camera	camera.cgi	1.00	Maximum image size or Aspect ratio is changed. When this value is changed, a camera restarts, and some of the setups are returned for a setup of factory default. Refer to Appendix.
JpMode	"00000000" to "FFFFFFFF"	camera	-	1.00	
M4Mode	"00000000" to "FFFFFFFF"	camera	-	1.00	
RtpExpire	"1000"to"86400000"	camera	camera.cgi	1.00	It is the set up of the time-out time of RTP. See chapter "2.1 Acquiring MPEG-4 or H.264 bit stream".
Color	"color"/"black"	camera	camera.cgi	1.00	Select color video or monochrome video.
ZoomMode	"full"/"optical"	camera	camera.cgi	1.00	Zoom range configuration. full: optical and digital zoom area optical: optical zoom area only
FocusMode	"auto"/"manual"	camera	camera.cgi	1.00	Focus function configuration.

VideoStd	"ntsc"/"pal"	camera	camera.cgi	1.00	A setup and inquiry can be done in SNC-RH124/RH164. This command changes NTSC/PAL of the analog output. When this setup is changed, a shutter speed and a frame rate sometimes change. Only inquiry is possible in the model except for SNC-RH124/RH164.
LineLock	"on"/"off"	camera	camera.cgi	1.00	Enable or disable of Line lock function.
LineLockVPhase	"0" to "XXX"	camera	camera.cgi	1.00	Phase of Line lock function. NTSC: 0 - 524 PAL: 0 - 624
WBMode	"auto"/"indoor"/"outdoor"/"atw"/"atwpro"/"fluorescent"/"mercurylamp"/"sodiumlamp"/"metalhalide"/"whiteled"/"onepushwb"/"manual"	camera	camera.cgi	1.00	Select white balance mode. Refer to Appendix.
OnePushTrg	"trgon"	-	camera.cgi	1.00	This parameter affects the camera when WBMode is set to "onepushwb".
RGain	"00" to "FF"	camera	camera.cgi	1.00	This parameter affects the camera when WBMode is set to "manual".
BGain	"00" to "FF"	camera	camera.cgi	1.00	This command affects the camera when WBMode is set to "manual".
HighResoRGain	"000" to "fff"	camera	camera.cgi	1.00	This parameter affects the camera when WBMode is set to "manual".
HighResoBGain	"000" to "fff"	camera	camera.cgi	1.00	This command affects the camera when WBMode is set to "manual".

ExpMode	SNC-RH124/RH164/RS44N /RS44P/RS46N/RS46P /RS84N/RS84P/RS86N /RS86P: "full"/"shutter"/"iris"/"manual" SNC-CH115/CH120/CH135/CH140 /CH180/CH220/CH240/CH260 /CH280/DH120/DH120T /DH140/DH140T/DH180 /DH220/DH220T /DH240/DH240T/DH260 /DH280/EB520/EM520/EM521 /ZB550/ZM550/ZM551: "autoirislens"/"manualirislens"	camera	camera.cgi	1.00	
BLComp	"on"/"off"	camera	camera.cgi	1.00	It is the setup of the backlight compensation.
DynaView	"on"/"off"	camera	camera.cgi	1.00	
ViewDR	"on"/"off"	camera	camera.cgi	1.00	The View-DR (Visibility enhanced wide Dynamic Range) function becomes effective.
VisibilityEnhancer	"high"/"mid"/"low"/"off"	camera	camera.cgi	1.00	
XDNR	"high"/"mid"/"low"/"off"	camera	camera.cgi	1.00	
VideoNoiseReduction	"on"/"off"	camera	camera.cgi	1.12	The noise of the image is decreased.
AutoShutter	"on"/"off"	camera	camera.cgi	1.00	Shutter speed is controlled automatically.
Shutter	"0" to "21"	camera	camera.cgi	1.00	Set shutter speed. This is effective when ExpMode is shutter or manual. The value which can be established varies according to the model. Refer to Appendix.
AutoSlowShutter	"on"/"off"	camera	camera.cgi	1.00	Turn on or off auto slow shutter.

AutoSlowShutterMinSpeed	"0" to "6"	camera	camera.cgi	1.00	Refer to Appendix.
AutoShutterMaxSpeed	"0" to "21"	camera	camera.cgi	1.30	The upper limit of the shutter speed is set up. The value which can be established is the same as Shutter. It is effective when both of AutoShutter and AutoSlowShutter are on.
AutoShutterMinSpeed	"0" to "21"	camera	camera.cgi	1.30	The lower limit of the shutter speed is set up. The value which can be established is the same as Shutter. It is effective when both of AutoShutter and AutoSlowShutter are on.
Iris	"0" to "17"	camera	camera.cgi	1.00	Set Iris. This is effective when ExpMode is iris or manual.
Irismove	"open"/"close"/"stop"	-	camera.cgi	1.00	The state of Iris is controlled.
Agc	"on"/"off"	camera	camera.cgi	1.00	Gain is controlled automatically.
AgcMaxGain	"0" to "7","15"	camera	-	1.00	It is fixed value by the model. Refer to Appendix.
Gain	"0" to "15"	camera	camera.cgi	1.00	Adjust gain. This is effective when ExpMode is manual.
ExpCompMode	"on"/"off"	camera	camera.cgi	1.00	
ExpComp	"0" to "14"	camera	camera.cgi	1.00	Adjust exposure.
Gamma	"1.0"/"2.2" SNC-CH110/CH210/DH110 /DH110T/DH210/DH210T: "0" to "6"	camera	camera.cgi	1.12	
Brightness	"0" to "10"	camera	camera.cgi	1.00	Adjust brightness.
Saturation	"0" to "6"	camera	camera.cgi	1.00	Adjust saturation.
Sharpness	"0" to "6"	camera	camera.cgi	1.00	Adjust sharpness.
Contrast	"0" to "6"	camera	camera.cgi	1.00	Adjust contrast.
IrisMode	"auto"/"manual"	camera	camera.cgi	1.00	This command select IRIS control mode. It is effective only when a connected analog camera copes with it.

VideoInStatus	"1"/"0"	camera	- -	1.10	It is "1" when there is video signal input.
VideoPTRefreshTrg	"on"	-	camera.cgi	1.2	The drive of the image is refreshed.
VideoPTRefresh	"on"/"off"	camera	camera.cgi	1.2	The refresh function is set up.
VideoPTRefreshInterval	<hhmmss>	camera	camera.cgi	1.2	An executive interval is set up.
VideoPTRefreshPeriod	"always"/"schedule"	camera	camera.cgi	1.2	
VideoPTRefreshSchedule	<schedule>	camera	camera.cgi	1.2	An executive schedule is set up.
AspectRatioConversion	"squeeze"/"letterbox"	camera	camera.cgi	1.3	It is the way that an aspect ratio conversions.
EffectiveArea<n>	<upper left X>,<upper left Y>,<lower right X>,<lower right Y>	camera	-	1.3	It is the coordinate of the effective area of the image. An origin is the upper left.
MultiExposure	"on"/"off"	camera	camera.cgi	1.3	Multi exposure mode is changed.
VideoNoiseReductionLevel	"high"/"mid"/"low"	camera	camera.cgi	1.4	Video noise reduction level is changed.
HighSensitivity	“on”/”off”	camera	camera.cgi	1.5	High sensitivity mode is changed.
VidCapFps	“30”/”25”	camera	camera.cgi	1.7	Video capture frame rate is changed.

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (Camera)
SNC-CH110	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, Color, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, ExpMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity, VidCapFps

SNC-CH115/CH120	AlmBufCodec, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-CH135/CH140	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, MultiExposure, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-CH160	AlmBufCodec, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-CH180	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, MultiExposure, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-CH210	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, Color, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, ExpMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-CH220	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity

SNC-CH240	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity
SNC-CH260	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-CH280	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity
SNC-DH110/DH110T	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, Color, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, ExpMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-DH120	AlmBufCodec, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-DH120T	AlmBufCodec, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity

SNC-DH140/DH140T	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, MultiExposure, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-DH160	AlmBufCodec, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-DH180	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, MultiExposure, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-DH210/DH210T	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, Color, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, ExpMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-DH220	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-DH220T	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity

SNC-DH240/DH240T	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity
SNC-DH260	AlmBufCodec, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-DH280	BLComp, DynaView, ExpCompMode, FocusMode, Gain, Gamma, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ZoomMode, McAddress3, HighSensitivity
SNC-EP520/EP521	Agc, AreaSet, AspectRatioConversion, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, EchoSuppressor, EffectiveArea<n>, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, McAddress3, HighSensitivity, VidCapFps
SNC-EP550	Agc, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, Brightness, Contrast, EchoSuppressor, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, McAddress3, VidCapFps
SNC-EP580	Agc, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, Brightness, Contrast, EchoSuppressor, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, McAddress3, VidCapFps
SNC-ER520/ER521	Agc, AreaSet, AspectRatioConversion, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, EchoSuppressor, EffectiveArea<n>, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, ViewDR, VisibilityEnhancer, XDNR, McAddress3, HighSensitivity, VidCapFps

SNC-ER550	Agc, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, Brightness, Contrast, EchoSuppressor, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, ViewDR, VisibilityEnhancer, XDNR, McAddress3, VidCapFps
SNC-ER580 /ER585/ER585H	Agc, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, Brightness, Contrast, EchoSuppressor, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, ViewDR, VisibilityEnhancer, XDNR, McAddress3, VidCapFps
SNC-EB520	AlmBufCodec, AreaSelect, AreaSet,AspectRatioConversion ,AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EffectiveArea<n>,EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-EM520/EM521	AlmBufCodec, AreaSelect, AreaSet,AspectRatioConversion ,AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EffectiveArea<n>,EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNC-RH124/RH164	Agc, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, DynaView, Gamma, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MultiExposure, VidCapSize, VideoNoiseReduction, VideoNoiseReductionLevel, ViewDR, McAddress3, HighSensitivity, VidCapFps
SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	Agc, AreaSelect, AreaSet, AspectRatioConversion, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, EffectiveArea<n>, HighResoBGain, HighResoRGain, IrisMode, Irismove, MultiExposure, VidCapSize, VideoNoiseReduction, VideoNoiseReductionLevel, ViewDR, HighSensitivity, VidCapFps

SNC-ZB550	AlmBufCodec, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-ZM550/ZM551	AlmBufCodec, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, DynaView, DynamicRangeCompressor, EchoSuppressor, ExpCompMode, FocusMode, Gain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, RTSPMcAudioPort, RTSPUcAudioPort, UcAudioPort, VideoInStatus, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, ZoomMode, McAddress3, HighSensitivity
SNC-ZP550	Agc, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, Brightness, Contrast, EchoSuppressor, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, VisibilityEnhancer, XDNR, McAddress3, VidCapFps
SNC-ZR550	Agc, AudioNoiseReduction, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, Brightness, Contrast, EchoSuppressor, HighResoBGain, HighResoRGain, IrisMode, Irismove, LineLock, LineLockVPhase, MicLineSelect, VidCapSize, VideoInStatus, VideoNoiseReduction, ViewDR, VisibilityEnhancer, XDNR, McAddress3, VidCapFps
SNT-EP104	Agc, AgcMaxGain, AreaSelect, AreaSet, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, AutoSlowShutter, AutoSlowShutterMinSpeed, BGain, BLComp, Color, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpComp, ExpCompMode, ExpMode, FocusMode, Gain, HighResoBGain, HighResoRGain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, OnePushTrg, RGain, RTSPMcAudioPort, RTSPUcAudioPort, Shutter, UcAudioPort, VidCapSize, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, WBMode, ZoomMode, McAddress3, HighSensitivity, VidCapFps

SNT-EP154	Agc, AgcMaxGain, AreaSelect, AreaSet, AspectRatioConversion, AudInCodec, AudioIn, AudioInVolume, AudioNoiseReduction, AudioOut, AudioOutVolume, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, AutoSlowShutter, AutoSlowShutterMinSpeed, BGain, BLComp, Color, DynaView, DynamicRangeCompressor, EchoSuppressor, EffectiveArea<n>, ExpComp, ExpCompMode, ExpMode, FocusMode, Gain, HighResoBGain, HighResoRGain, Iris, IrisMode, Irismove, LineLock, LineLockVPhase, McAudioAutomode, McAudioPort, MicLineSelect, MultiExposure, OnePushTrg, RGain, RTSPMcAudioPort, RTSPUcAudioPort, Shutter, UcAudioPort, VidCapSize, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, WBMode, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNT-EX101/EX101E	Agc, AgcMaxGain, AreaSelect, AreaSet, AspectRatioConversion, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, AutoSlowShutter, AutoSlowShutterMinSpeed, BGain, BLComp, Color, DynaView, EffectiveArea<n>, ExpComp, ExpCompMode, ExpMode, Gain, HighResoBGain, HighResoRGain, Iris, LineLock, LineLockVPhase, MultiExposure, OnePushTrg, RGain, Shutter, VidCapSize, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, WBMode, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNT-EX104	Agc, AgcMaxGain, AreaSelect, AreaSet, AspectRatioConversion, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, AutoSlowShutter, AutoSlowShutterMinSpeed, BGain, BLComp, Color, DynaView, EffectiveArea<n>, ExpComp, ExpCompMode, ExpMode, Gain, HighResoBGain, HighResoRGain, Iris, LineLock, LineLockVPhase, MultiExposure, OnePushTrg, RGain, Shutter, VidCapSize, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, WBMode, ZoomMode, McAddress3, HighSensitivity, VidCapFps
SNT-EX154	Agc, AgcMaxGain, AreaSelect, AreaSet, AspectRatioConversion, AutoShutter, AutoShutterMaxSpeed, AutoShutterMinSpeed, AutoSlowShutter, AutoSlowShutterMinSpeed, BGain, BLComp, Color, DynaView, EffectiveArea<n>, ExpComp, ExpCompMode, ExpMode, Gain, HighResoBGain, HighResoRGain, Iris, LineLock, LineLockVPhase, MultiExposure, OnePushTrg, RGain, Shutter, VidCapSize, VideoNoiseReduction, VideoNoiseReductionLevel, VideoPTRefresh, VideoPTRefreshInterval, VideoPTRefreshPeriod, VideoPTRefreshSchedule, VideoPTRefreshTrg, ViewDR, WBMode, ZoomMode, McAddress3, HighSensitivity, VidCapFps

- SNC-CH110/CH210/DH110/DH110T/DH210/DH210T can use AutoShutterMaxSpeed and AutoShutterMinSpeed after the firmware v1.33.

11.7 Privacy mask

Parameter	Value	InqParm	SetCGI	Ver	Note
PrivacyDisplay	"<no.>,<no.>,..."	fcb	camera.cgi	1.00	Set: Turn each index for masking area on or off. The number listed in the query will be turned on. The number missing in the query will be turned off. Inq: Return the index of masking area that is activated. The number of privacy masks which can be set up is different in every model. Refer to Appendix.
PrivacyMaskPosition	"<no.>,<upper left X>,<upper left Y>,<width>,<height>"	fcb	camera.cgi	1.00	Width:"0"to"720" Height:"0"to"480"(NTSC)/"0"to"576"(PAL)
PrivacySetMask	"<no.>,<width>,<height>"	-	camera.cgi	1.00	SNC-RH124/RH164 Width:"0"to"160" Height:"0"to"90" SNC-RS44N/RS44P/RS46N/RS46P/RS84N/RS84P/RS86N/RS86P Width:"0"to"90" Height:"0"to"60"(NTSC)/Height:"0"to"72"(PAL)
PrivacyMaskColor	"<Color>,<Attrib>"	fcb	camera.cgi	1.00	Set the color of the privacy mask. <Color> : black", "gray1", "gray2", "gray3", "gray4", "gray5","gray6", "white", "red", "green", "blue", "cyan", "yellow", "magenta" <Attrib> : "opaque"
PrivacyPTZ<no.>	"<pan pos>,<tilt pos>,<zoom pos>"	fcb	-	1.00	
PrivacyMonitor	"<no.>,<no.>,..."	fcb	-	1.00	Return the number of the masking area that is displayed on the screen.
PrivacyDispEach	"<no.>","on"/"off"	-	camera.cgi	1.00	Change on/off for each masking area. Every model, as for the number of the private mask which it is possible to set, refer to PrivacyMaxNum or Appendix.
PrivacyMaxNum	<PrivacyMaxNum>	fcb	-	1.00	It is the number of masks which can be set up.

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (Privacy mask)
SNC-CH115/CH120	PrivacyPTZ<no.>, PrivacySetMask
SNC-CH135/CH140	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-CH160	PrivacyPTZ<no.>, PrivacySetMask
SNC-CH180	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-CH220	PrivacyPTZ<no.>, PrivacySetMask
SNC-CH240	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-CH260	PrivacyPTZ<no.>, PrivacySetMask
SNC-CH280	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-DH120	PrivacyPTZ<no.>, PrivacySetMask
SNC-DH120T	PrivacyPTZ<no.>, PrivacySetMask
SNC-DH140/DH140T	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-DH160	PrivacyPTZ<no.>, PrivacySetMask
SNC-DH180	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-DH220	PrivacyPTZ<no.>, PrivacySetMask
SNC-DH220T	PrivacyPTZ<no.>, PrivacySetMask
SNC-DH240/DH240T	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-DH260	PrivacyPTZ<no.>, PrivacySetMask
SNC-DH280	PrivacyDispEach, PrivacyPTZ<no.>, PrivacySetMask
SNC-EP520/EP521	PrivacyMaskPosition
SNC-EP550	PrivacyMaskPosition
SNC-EP580	PrivacyMaskPosition
SNC-EB520	PrivacyPTZ<no.>, PrivacySetMask
SNC-EM520/EM521	PrivacyPTZ<no.>, PrivacySetMask

SNC-ER520/ER521	PrivacyMaskPosition
SNC-ER550	PrivacyMaskPosition
SNC-ER580 /ER585/ER585H	PrivacyMaskPosition
SNC-RH124/RH164	PrivacyMaskPosition
SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	PrivacyMaskPosition
SNC-ZB550 /ZM550/ZM551	PrivacyPTZ<no.>, PrivacySetMask
SNC-ZP550/ZR550	PrivacyMaskPosition
SNT-EP104	PrivacyPTZ<no.>, PrivacySetMask
SNT-EP154	PrivacyPTZ<no.>, PrivacySetMask
SNT-EX101/EX101E	PrivacyPTZ<no.> , PrivacySetMask
SNT-EX104	PrivacyPTZ<no.>, PrivacySetMask
SNT-EX154	PrivacyPTZ<no.>, PrivacySetMask

- The Privacy mask CGI commands cannot be used with the following models.
  - SNC-CH110/CH210
  - SNC-DH110/DH110T/DH210/DH210T

11.8 Sense up

Parameter	Value	InqParm	SetCGI	Ver	Note
DayNightMode	"auto"/"manual"/"timer"/"sensor"	camera	camera.cgi	1.00	Select Day/Night mode. SNC-CH110/CH210/DH110/DH110T/DH210/DH210T can set up only "auto"/" manual".

DnLevel	"high"/"low"	camera	camera.cgi	1.00	The value which Day/Night is changed to is set up.
DnTime	"2"/"30"	camera	camera.cgi	1.00	The time until it is changed after they become condition of switching of Day/Night is specified.
DnSchedule	<schedule>	camera	camera.cgi	1.00	Night mode time is set up when DayNightMode is "timer".
DnSensor<AI>	"on"/"off"	camera	camera.cgi	1.00	Set to "on" when DayNightMode is set to "sensor".
DayNight	"on"/"off"	camera	camera.cgi	1.00	Setup the schedule for Day/Night function. SNC-CH210 is always "off".
DnManualFunc	"on"/"off"	camera	camera.cgi	1.00	The trigger.cgi can change Day/Night mode when this DnManualFund parameter is "on" and DayNightMode parameter is not "auto".
DnStatus	"on"/"off"	camera	-	1.00	Return the Day mode or Night mode.
DnSyncEasyFocus	"on"/"off"	camera	camera.cgi	1.00	EasyFocus is executing out automatically at the time of switching of Day/Night.
IRLed	"daynight"/"off"	camera	camera.cgi	1.00	When this is set up in "daynight", an IR irradiation function becomes on at the "Night" time.
IRLedMaxStrength	"1"to"6"	camera	camera.cgi	1.00	This sets up the strength of the IR irradiation.
NIRComp	"on"/"off"	camera	camera.cgi	1.10	Near-IR compensation. A corresponding model is SNC-RS46N/RS46P/RS86N/RS86P.
ViewDROffInNight	"on"/"off"	camera	camera.cgi	1.10	ViewDR is turned off when the condition of DayNight becomes a Night.
WashedOutImageControl	"on"/"off"	camera	camera.cgi	1.10	It is restrained when an object is indicated white by the IR irradiation function.

● The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (Sense up)
SNC-CH110	DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-CH115/CH120	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-CH135/CH140	IRLed, IRLedMaxStrength, NIRComp, WashedOutImageControl
SNC-CH160	NIRComp, ViewDROffInNight
SNC-CH180	NIRComp, WashedOutImageControl

SNC-CH210	DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-CH220	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-CH240	IRLed, IRLedMaxStrength, NIRComp, WashedOutImageControl
SNC-CH260	NIRComp, ViewDROffInNight
SNC-CH280	NIRComp, WashedOutImageControl
SNC-DH110/DH110T	DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-DH120	DnSensor<AI>, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-DH120T	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-DH140/DH140T	IRLed, IRLedMaxStrength, NIRComp, WashedOutImageControl
SNC-DH160	NIRComp, ViewDROffInNight
SNC-DH180	NIRComp, WashedOutImageControl
SNC-DH210/DH210T	DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-DH220	DnSensor<AI>, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-DH220T	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-DH240/DH240T	IRLed, IRLedMaxStrength, NIRComp, WashedOutImageControl
SNC-DH260	NIRComp, ViewDROffInNight
SNC-DH280	NIRComp, WashedOutImageControl
SNC-EP520/EP521	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl
SNC-EP550	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl
SNC-EP580	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl
SNC-ER520/ER521	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl
SNC-ER550	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl

SNC-ER580 /ER585/ER585H	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl
SNC-EB520	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-EM520/EM521	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-RH124/RH164	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl
SNC-ZB550	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-ZM550	DnSensor<AI>, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-ZM551	IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNC-ZP550/ZR550	DnLevel, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, ViewDROffInNight, WashedOutImageControl
SNT-EP104	DayNight, DayNightMode, DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNT-EP154	DayNight, DayNightMode, DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNT-EX101/EX101E	DayNight, DayNightMode, DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNT-EX104	DayNight, DayNightMode, DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl
SNT-EX154	DayNight, DayNightMode, DnLevel, DnManualFunc, DnSchedule, DnSensor<AI>, DnStatus, DnSyncEasyFocus, DnTime, IRLed, IRLedMaxStrength, NIRComp, ViewDROffInNight, WashedOutImageControl

11.9 Serial

Parameter	Value	InqParm	SetCGI	Ver	Note
SerType	SNC-RH124/RH164/RS44N/RS44P/RS46N/RS46P /RS84N/RS84P/RS86N/RS86P: "tcpip"/"visca"/"pelco-d" SNT-EX101/EX101E/EX104/EX154: "normal"/"tcpip"	serial	serial.cgi	1.00	
SerTcpPort	"1024"to"65535"	serial	serial.cgi	1.00	
SerBaudRate	"2"to"7"	serial	serial.cgi	1.00	2:1200, 3: 2400, 4:4800, 5:9600, 6:19200, 7:38400 (bps)
SerCharLen	"7"/"8"	serial	serial.cgi	1.00	
rSerParityBit	"none"/"odd"/"even"	serial	serial.cgi	1.00	
SerStopBit	"1"/"2"	serial	serial.cgi	1.00	
SerStandard	SNC-RH124/RH164/RS44N/RS44P/RS46N/RS46P /RS84N/RS84P/RS86N/RS86P: "rs232c"/"rs485"/"rs422"/"rs485fd" SNT-EX101/EX101E: "rs485"/"rs422" SNT-EX104/EX154: "rs485"	serial	serial.cgi	1.00	
SerProtocol	"pelco-d"/"ad"/"pelco-p"/"bosch"/ "vicon"/"panasonic"/"ge"/"visca"	serial	serial.cgi	1.2	
SerTermination	"on"/"off"	serial	serial.cgi	1.00	
SerDstCamId	"1"to"256"	serial	serial.cgi	1.00	
SerSrcCamId	"1"to"256"	serial	serial.cgi	1.00	
PelcoDZoomSpeed	"0"to"3"	serial	serial.cgi	1.70	Set zoom speed (0: Slowest, 3: Fastest) of the Pelco-D protocol.

- The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (Serial)
SNC-RH124/RH164	SerDstCamId, SerProtocol

SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	SerDstCamId, SerProtocol
SNT-EX101/EX101E	SerSrcCamId, SerTermination, PelcoDZoomSpeed
SNT-EX104	SerSrcCamId, SerTermination, PelcoDZoomSpeed
SNT-EX154	SerSrcCamId, SerTermination, PelcoDZoomSpeed

- The Serial CGI commands cannot be used with the following models.
  - SNC-CH110/CH115/CH120/CH135/CH140/CH160/CH180/CH210/CH220/CH240/CH260/CH280
  - SNC-DH110/DH110T/DH120/DH120T/DH140/DH140T/DH160/DH180/DH210/DH210T/DH220/DH220T/DH240/DH240T/DH260/DH280
  - SNC-EP520/EP521/EP550/EP580
  - SNC-ER520/ER521/ER550/ER580/ER585/ER585H
  - SNC-EB520/EM520/EM521
  - SNC-ZB550/ZM550/ZM551
  - SNT-EP104/EP154

11.10 Network

Parameter	Value	InqParm	SetCGI	Ver	Note
PhySpeed	"10"/"100"	network	network.cgi	1.00	It is the communication speed of Ethernet.
PhyDuplex	"full"/"half"	network	network.cgi	1.00	It is the communication form of Ethernet.
PhyAutonego	"on"/"off"	network	network.cgi	1.00	Auto negotiation becomes effective when this is on.
PhyStat	"100full"/"100half"/"10full"/"10half"	network	-	1.00	A state of communication of Ethernet is acquired.
PhyMdi	"MDI"/"MDI-x"/"AutoMDI"	network	network.cgi	1.00	
PhyMdiStat	"MDI"/"MDI-x"	network	-	1.00	
Dhcp	"on"/"off"	network	network.cgi	1.00	An IP address is acquired from the DHCP server.

DnsAuto	"on"/"off"	network	network.cgi	1.00	An IP address of domain name server is acquired from the DHCP server.
Ip	"<ip addr>"	network	network.cgi	1.00	Set IP address.
Subnetmask	"<ip addr>"	network	network.cgi	1.00	Set sub net mask.
Gateway	"<ip addr>"	network	network.cgi	1.00	Set default gateway.
MacAddress	"<mac addr>"	network	-	1.00	Return the MAC address.
PrimaryDns	"<ip addr>"	network	network.cgi	1.00	Set primary domain name server.
SecondaryDns	"<ip addr>"	network	network.cgi	1.00	Set secondary domain name server.
HostName	"<host name>"	network	network.cgi	1.00	Set host name.
DomainSuffix	"<domain suffix>"	network	network.cgi	1.00	Set domain suffix.
HttpPort	"80"/"1024"to"65535"	network	network.cgi	1.00	Set http port.
Mtu	"1000" to"1500"	network	network.cgi	1.00	
Ipv6Flg	"on"/"off"	network	network.cgi	1.00	It makes IPv6 effective.
AutoIpv6	"on"/"off"	network	network.cgi	1.00	
Dnsv6Auto	"on"/"off"	network	network.cgi	1.00	
Ipv6	"<ip addr>" (char [40])	network	network.cgi	1.00	
Prefix	"0"to"128"	network	network.cgi	1.00	
Gatewayv6	"<ip addr>" (char[40])	network	network.cgi	1.00	
PrimaryDnsv6	"<ip addr>" (char[40])	network	network.cgi	1.00	
SecondaryDnsv6	"<ip addr>" (char[40])	network	network.cgi	1.00	
Ipv6Mtu	"1280" to"1500"	network	network.cgi	1.00	
BruteForceAttack	"0" or "30" to "86400"	network	network.cgi	1.10	A Brute Force Attack function is set up. 0: Disable 30 - 86400: Reject period (sec)

ArppingFunc	"on"/"off"	network	network.cgi	1.2	An Arpping function is set up. A setup becomes effective after the restart.
AccessControlOriginHeader	“<text>”	network	network.cgi	1.4	
NetworkType	“LAN”/”SLOC”	network		1.72	Return the kind of the network device selected.

- The command which can't be used in each model is shown in the following table.

Model name	Unsupported command (Network)
SNT-EP104	PhyMdiStat
SNT-EP154	PhyMdiStat
SNT-EX104	PhyMdiStat
SNT-EX154	PhyMdiStat

- CH2/3/4 of SNT-EP104/EP154/EX104/EX154 doesn't support the following CGI commands.
  - PhySpeed, PhyDuplex, PhyAutonego, PhyMdi

11.11 Wireless network

Parameter	Value	InqParm	SetCGI	Ver	Note
WirelessFunc	"on" / "off"	wireless	wireless.cgi	1.00	
WlsDhcp	"on" / "off"	wireless	wireless.cgi	1.00	
WlsDnsAuto	"on" / "off"	wireless	wireless.cgi	1.00	
WlsIp	"<ip addr>"	wireless	wireless.cgi	1.00	
WlsSubnetmask	"<ip addr>"	wireless	wireless.cgi	1.00	
WlsGateway	"<ip addr>"	wireless	wireless.cgi	1.00	
WlsMacAddress	"<mac addr>"	wireless	-	1.00	
WlsPrimaryDns	"<ip addr>"	wireless	wireless.cgi	1.00	
WlsSecondaryDns	"<ip addr>"	wireless	wireless.cgi	1.00	
WlsMtu	"1000" to"1500"	wireless	wireless.cgi	1.00	

WlsIpv6Flg	"on" / "off"	wireless	wireless.cgi	1.00	
WlsAutoIpv6	"on" / "off"	wireless	wireless.cgi	1.00	
WlsDnsv6Auto	"on" / "off"	wireless	wireless.cgi	1.00	
WlsIpv6	"<ip addr>" (char [40])	wireless	wireless.cgi	1.00	
WlsPrefix	"0"to"128"	wireless	wireless.cgi	1.00	
WlsGatewayv6	"<ip addr>" (char [40])	wireless	wireless.cgi	1.00	
WlsPrimaryDnsv6	"<ip addr>"	wireless	wireless.cgi	1.00	
WlsSecondaryDnsv6	"<ip addr>"	wireless	wireless.cgi	1.00	
WlsIpv6Mtu	"1280" to"1500"	wireless	wireless.cgi	1.00	
WlsSsid	"<text>"	wireless	wireless.cgi	1.00	
WlsNetworkType	"adhoc"/"infrastructure"	wireless	wireless.cgi	1.00	
WlsAuthMode	"none"/"fixedwep"/"dynamicwep"/ "wpaeaptkip"/"wpa2eapaes"/ "wpapsktkip"/"wpa2pskaes"/"wps"	wireless	wireless.cgi	1.00	
WlsWpsPinnumber	"<number>"	wireless	wireless.cgi	1.00	
WlsWpsExec	"on"	-	wireless.cgi	1.00	
WlsPassphrase	"<text>"	wireless	wireless.cgi	1.00	8 to 63 characters.
WlsChannel	"1" to "14"	wireless	wireless.cgi	1.00	
WlsEnableCh	"Channel 01" to "Channel 14"	wireless	-	1.00	
WlsCardModel	"<text>"	wireless	-	1.00	
WlsWepTransKey	"1" to "4"	wireless	wireless.cgi	1.00	
WlsWepKey1	"<wep key>"	wireless	wireless.cgi	1.00	
WlsWepKey2	"<wep key>"	wireless	wireless.cgi	1.00	
WlsWepKey3	"<wep key>"	wireless	wireless.cgi	1.00	
WlsWepKey4	"<wep key>"	wireless	wireless.cgi	1.00	

WlsAntenna	"internal" / "external" / "diversity"	wireless	wireless.cgi	1.00	
WlsHostName	"<host name>"	wireless	wireless.cgi	1.00	
WlsDomainSuffix	"<domain suffix>"	wireless	wireless.cgi	1.00	

- The Wireless Network CGI commands can be used only when a wireless network card is attached to the CF slot of Network Camera.
- The Wireless Network CGI commands can't be used because the following model isn't provided with the CF slot.
  - SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
  - SNC-DH110/DH110T/DH120/DH120T/DH140/DH140T/DH160/DH180/DH210/DH210T/DH220/DH220T/DH240/DH240T/DH260/DH280
  - SNC-EP520/EP521/EP550/EP580
  - SNC-ER520/ER521/ER550/ER580/ER585/ER585H
  - SNC-EB520/EM520/EM521
  - SNC-ZB550/ZM550/ZM551
  - SNC-ZP550/ZR550
  - SNT-EP104/EP154
  - SNT-EX101/EX101E/EX104/EX154

11.12 Filtering

Parameter	Value	InqParm	SetCGI	Ver	Note
FilterFuncGUI	"on/off"	system	system.cgi	1.00	
V4FilterFunc	"on/off"	filter	filter.cgi	1.00	
V4FilterDefaultRule	"allow/deny"	filter	filter.cgi	1.00	
V4FilterRule	<no>,<ip addr>,<mask bits>, <protocol>,<port>,<policy>, <no>,<ip addr>,<maskbits>, <protocol>,<port>,<policy>,...	filter	filter.cgi	1.00	
V4FilterRuleSequence	<no>,<no>,...	filter	filter.cgi	1.00	

V6FilterFunc	"on/off"	filter	filter.cgi	1.00	
V6FilterDefaultRule	"allow/deny"	filter	filter.cgi	1.00	
V6FilterRule	<no>,<ipv6 addr>,<mask bits>, <protocol>,<port>,<policy>, <no>,<ipv6 addr>,<mask bits>, <protocol>,<port>,<policy>,...	filter	filter.cgi	1.00	
V6FilterRuleSequence	<no>,<no>,...	filter	filter.cgi	1.00	

11.13 QoS

Parameter	Value	InqParm	SetCGI	Ver	Note
V4MangleFunc	"on/off"	qos	qos.cgi	1.00	
V4MangleDefaultValue	[0-63]	qos	qos.cgi	1.00	
V4MangleRule	<no>,<ip addr>,<mask bits>, <protocol>,<port>,<value>, <no>,<name>,<ip addr>,<mask bits>, <protocol>,<port>,<value>,...	qos	qos.cgi	1.00	
V4MangleRuleSequence	<no>,<no>,...	qos	qos.cgi	1.00	
V6MangleFunc	"on/off"	qos	qos.cgi	1.00	
V6MangleDefaultValue	[0-63]	qos	qos.cgi	1.00	
V6MangleRule	<no>,<ipv6 addr>,<mask bits>, <protocol>,<port>,<value>, <no>,<ipv6 addr>,<mask bits>, <protocol>,<port>,<value>,...	qos	qos.cgi	1.00	

V6MangleRuleSequence	<no>,<no>,...	qos	qos.cgi	1.00	

11.14 Dynamic IP address notification

Parameter	Value	InqParm	SetCGI	Ver	Note
SmtpIpNtfyService	"on"/"off"	ipnotify	ipnotify.cgi	1.00	
SmIpv4Ntfy	"on"/"off"	ipnotify	ipnotify.cgi	1.00	
SmIpv6Ntfy	"on"/"off"	ipnotify	ipnotify.cgi	1.00	
SmServerName	"<server name>"	smtp	smtp.cgi	1.00	Identical as the SMTP.
SmAuthenMode	"none"/"smtp"/"pop"/"smtp-pop"	smtp	smtp.cgi	1.00	Identical as the SMTP.
SmAthPopServerName	"<server name>"	smtp	smtp.cgi	1.00	Identical as the SMTP.
SmAthUserName	"<text>"	smtp	smtp.cgi	1.00	Identical as the SMTP.
SmAthPassword	"<text>"	smtp	smtp.cgi	1.00	Identical as the SMTP.
SmtpIpNtfyRcptAddr	"<e-mail addr>"	ipnotify	ipnotify.cgi	1.00	
SmtpIpNtfyFromAddr	"<e-mail addr>"	ipnotify	ipnotify.cgi	1.00	
SmtpIpNtfySubject	"<text>"	ipnotify	ipnotify.cgi	1.00	
SmtpIpNtfyMessage	"<text>"	ipnotify	ipnotify.cgi	1.00	
HttpIpNtfyService	"on"/"off"	ipnotify	ipnotify.cgi	1.00	
HttpIpv4Ntfy	"on"/"off"	ipnotify	ipnotify.cgi	1.00	
HttpIpv6Ntfy	"on"/"off"	ipnotify	ipnotify.cgi	1.00	
HttpIpNtfyUrl	"<text>"	ipnotify	ipnotify.cgi	1.00	
HttpIpNtfyProxy	"<server name>"	ipnotify	ipnotify.cgi	1.00	
HttpIpNtfyProxyPort	"1024"to"65535"	ipnotify	ipnotify.cgi	1.00	
HttpIpNtfyMethod	"get"/"post"	ipnotify	ipnotify.cgi	1.00	
HttpIpNtfyOptionField	"<text>"	ipnotify	ipnotify.cgi	1.00	

11.15 SSL / TLS

Parameter	Value	InqParm	SetCGI	Ver	Note
SSLMode	"Plain" / "SSL" / "Plain-SSL" / "SSL-Plain"	network	network.cgi	1.00	
SSLProtocol	"SSLv23" / "SSLv3" / "TLSv10"	network	network.cgi	1.00	
SSLSessionKeyChange	"on" / "off"	network	network.cgi	1.00	on : SSL session key is regularly changed. off : SSL session key is not regularly changed.
SSLKeyChangeInterval	"60" - "3600"	network	network.cgi	1.00	It is possible to use this parameter, when "SSLSessionKeyChange" is on. This parameter is for exchanging interval of SSL session key.
HttpsPort	443 or (1024 - 65535)	network	network.cgi	1.00	
SSLCertMode	"pki"/"normal"/"auto"	network	network.cgi	1.00	"auto" uses the self-signature certificate formed inside. And, "pki" works by the self-signature certificate mode, too. When it is set up in "pki", "auto" is returned to the setup information inquiry.
SSLPrivPassword	set: <base64 encoded string> inq : "**********"	network	network.cgi	1.00	0 to 50 characters.
SSLCertInstalled	"0"/"1"	network	-	1.00	0 : The certificate is preserved. 1 : The certificate is not preserved.
SSLCertIssuerDn	<issuer domain name string>	network	-	1.00	
SSLCertSubjectDn	<subject domain name string>	network	-	1.00	
SSLCertExtendedKeyUsage	<extended key usage string>	network	-	1.00	
SSLCertValidity	<YYYY-MM-DD>	network	-	1.00	
SSLCertAvailability	"0"/"1"	network	-	1.00	
SSLCACertInstalled	"0"/"1"	network	-	1.00	
SSLCACert<n>IssuerDn	<issuer domain name string>	network	-	1.00	
SSLCACert<n>SubjectDn	<subject domain name string>	network	-	1.00	

SSLCACert<n>ExtendedKeyUsage	<extended key usage string>	network	-	1.00	
SSLCACert<n>Validity	<YYYY-MM-DD>	network	-	1.00	
SSLClientCert	"on" / "off"	network	network.cgi	1.00	
	no specification Server certificate	-	sslcert.cgi	1.00	
Generate	selfsignedcert	-	sslcert.cgi	1.00	
	CA certificate file	-	sslcacert<n>.cgi	1.00	
Delete	sslcert	-	ssldeletecert.cgi	1.00	
Delete	"cacert1" / "cacert2" / "cacert3" / "cacert4"	-	ssldeletecert.cgi	1.00	

11.16 802.1X

Parameter	Value	InqParm	SetCGI	Ver	Note
Dot1XWiredFunc	"on"/"off"	802Dot1X	802dot1x.cgi	1.00	
Dot1XIdentity	<Identity string>	802Dot1X	802dot1x.cgi	1.00	
Dot1XPassword	set: <base64 encoded string> inq : "**********"	802Dot1X	802dot1x.cgi	1.00	
Dot1XEapMethod	"tls"/"peap"	802Dot1X	802dot1x.cgi	1.00	
Dot1XTlsMode	"normal"	802Dot1X	802dot1x.cgi	1.00	
Dot1XPrivPassword	set: <base64 encoded string> inq : "**********"	802Dot1X	802dot1x.cgi	1.00	
CACertInstalled	"0"/"1"	802Dot1X	-	1.00	
CACert<n>IssuerDn	<issuer domain name string>	802Dot1X	-	1.00	
CACert<n>SubjectDn	<subject domain name string>	802Dot1X	-	1.00	
CACert<n>ExtendedKeyUsage	<extended key usage string>	802Dot1X	-	1.00	
CACert<n>Validity	<YYYY-MM-DD>	802Dot1X	-	1.00	

ClientCertInstalled	"0"/"1"	802Dot1X	-	1.00	
ClientCertIssuerDn	<issuer domain name string>	802Dot1X	-	1.00	
ClientCertSubjectDn	<subject domain name string>	802Dot1X	-	1.00	
ClientCertExtendedKeyUsage	<extended key usage string>	802Dot1X	-	1.00	
ClientCertValidity	<YYYY-MM-DD>	802Dot1X	-	1.00	
ClientCertAvailability	"0"/"1"	802Dot1X	-	1.00	
	CA certificate file	-	802dot1xcacert<n>.cgi	1.00	To import CA certificate. <n>: 1 to 4
	Client certificate file	-	802dot1xclientcert.cgi	1.00	
Delete	"cacert1"/"cacert2"/"cacert3"/"cacert4"/"clientcert"	-	802dot1xdeletecert.cgi	1.00	
Status	"Wired"/ "Wireless"	-	802dot1xgetstatus.cgi	1.00	

11.17 Viewermode

Parameter	Value	InqParm	SetCGI	Ver	Note
ViewerMode	"<mode>"	viewermode	-	1.00	The function which a user during a log-in can operate is returned. Refer to Appendix.

11.18 User

Parameter	Value	InqParm	SetCGI	Ver	Note
Administrator	"<encoded name:pass>"	user	user.cgi	1.00	
User<n>	"<encoded name:pass>,<mode>"	user	user.cgi	1.00	<n> is the integer of 1 - 9. It sets up a username, a password and the mode. Refer to Appendix.
ViewerAuthen	"on"/"off"	user	user.cgi	1.00	

ViewerModeDefault	"<mode>"	user	user.cgi	1.00	

11.19 Security

Parameter	Value	InqParm	SetCGI	Ver	Note
IpLimitFunc	"on"/"off"	iplimit	iplimit.cgi	1.00	
IpLimitPolicy	"allow"/"deny"	iplimit	iplimit.cgi	1.00	
IpLimit<n>	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	1.00	<n> is the integer of 1 - 10.

11.20 Preset position

Parameter	Value	InqParm	SetCGI	Ver	Note
PresetCall	"<no.>,<speed>,<codec>"	-	presetposition.cgi	1.12	speed: "1" to "24"
PresetSet	"<no.>,<name>,on/off,<codec>"	-	presetposition.cgi	1.12	
PresetClear	"<no.>,<no.>,... ,<codec>"	-	presetposition.cgi	1.12	
PresetCopy	"<from_instance>,<from_no>, <to_instance>,<to_no>"	-	presetposition.cgi	1.12	
PresetThumbnailClear	"<no>,<no>,...,<codec>"	-	presetposition.cgi	1.12	
Delete	"presetimg,<num>,<codec>"	-	main.cgi	1.12	This CGI command deletes a thumbnail image. <num> specifies the number of "1" - "256". When it is completely deleted, "all" is specified.
PresetName PresetNameImage1 PresetNameImage2	"<no.>,<name>,<no.>,<name>,..."	presetposition	presetposition.cgi	1.12	

GroupAdd	"<no>,<name>"	-	presetposition.cgi	1.00	One Group is added. The number of maximums of Group is 64.
GroupMake	"<no>,<name>,<no>,<name>,..."	-	presetposition.cgi	1.00	All the group information is erased, and a group is remake newly. When nothing is specified, all groups are erased.
GroupName	"<no>,<name>,<no>,<name>,..."	presetposition	presetposition.cgi	1.00	
GroupClear	"<no>,<no>,..."	-	presetposition.cgi	1.00	A specified group is deleted. preset inside the group isn't deleted. When preset inside the group is deleted, Preset acquired with PresetGroupRelation is deleted separately with PresetClear.
PresetGroupRegist	"<group_no>,<preset_no>,<preset_no>,..."	-	presetposition.cgi	1.00	<preset_no> preset is added to the <group_no> group.
PresetGroupRelation	"<group_no>,<number_of_preset>,<preset_no>,<preset_no>,..."	presetposition	presetposition.cgi	1.00	All group_no's and a registered pre-set are acquired.
PresetDetection	"<no.>"/"none"	presetposition	presetposition.cgi	1.00	default: "none"
PresetVMF	"<no.>"/"none"	presetposition	presetposition.cgi	1.00	default: "none"
PresetTampering PresetTamperingImage1 PresetTamperingImage2	"<no.>"/"none"	presetposition	presetposition.cgi	1.12	default: "none"
PresetSensor<AI> PresetSensor<AI>Image1 PresetSensor<AI>Image2	"<no.>"/"none"	presetposition	presetposition.cgi	1.12	default: "none"
PresetAud	"<no>"/"none"	presetposition	presetposition.cgi	1.10	

HomePos HomePosImage1 HomePosImage2	"set"/"reset"/"recall"/"ptz-recall"	-	presetposition.cgi	1.00	A position in power supply on and a position of Home are specified.
HomePosProperty HomePosPropertyImage1 HomePosPropertyImage2	"<pan pos>,<tilt pos>,<zoom pos>"	presetposition	-	1.12	
Tour TourImage1 TourImage2	"on"/"off"	presetposition	presetposition.cgi	1.12	
Tour<X> Tour<X>Image1 Tour<X>Image2	"on"/"off"	presetposition	presetposition.cgi	1.12	<X> is one character of A, B, C, D and E.
Tour<X>Sequence Tour<X>SequenceImage1 Tour<X>SequenceImage2	"<no.>,<no.>,..."	presetposition	presetposition.cgi	1.12	<X> is one character of A, B, C, D and E.
Tour<X>Staytime Tour<X>StaytimeImage1 Tour<X>StaytimeImage2	"1"to"3600"	presetposition	presetposition.cgi	1.12	<X> is one character of A, B, C, D and E.
Tour<X>Period Tour<X>PeriodImage1 Tour<X>PeriodImage2	"always"/"schedule"	presetposition	presetposition.cgi	1.12	<X> is one character of A, B, C, D and E.
Tour<X>Schedule Tour<X>ScheduleImage1 Tour<X>ScheduleImage2	"<schedule>"	presetposition	presetposition.cgi	1.12	<X> is one character of A, B, C, D and E.

Tour<X>Speed Tour<X>SpeedImage1 Tour<X>SpeedImage2	"<speed>"	presetposition	presetposition.cgi	1.12	<X> is one character of A, B, C, D and E. speed: "1"～"24", default = 24(Fastest)
TourResume TourResumeImage1 TourResumeImage2	"on"/"off"	presetposition	presetposition.cgi	1.12	
TourRsmTime TourRsmTimeImage1 TourRsmTimeImage2	"5"to"3600"	presetposition	presetposition.cgi	1.12	
TourManualSuspend	"on"	-	presetposition.cgi	1.00	
TourManualResume	"on,<codec>"	-	presetposition.cgi	1.12	
TourPreview	"<A,B,C,D,E,temp,stop>,<codec>"	-	presetposition.cgi	1.12	
TourPreviewCopy	"<A,B,C,D,E>,<codec>"	-	presetposition.cgi	1.12	
TourPreviewSequence TourPreviewSequenceImage1 TourPreviewSequenceImage2	"<no.>,<no.>,..."	presetposition	presetposition.cgi	1.12	
TourPreviewSpeed TourPreviewSpeedImage1 TourPreviewSpeedImage2	"<speed>"	presetposition	presetposition.cgi	1.12	
STour	"on"/"off"	presetposition	presetposition.cgi	1.00	
STour<X>	"on"/"off"	presetposition	presetposition.cgi	1.00	<X> is one character of A, B, C and D.
STour<X>Period	"always"/"schedule"	presetposition	presetposition.cgi	1.00	<X> is one character of A, B, C and D.
STour<X>Schedule	"<schedule>"	presetposition	presetposition.cgi	1.00	<X> is one character of A, B, C and D.
STourResume	"on"/"off"	presetposition	presetposition.cgi	1.00	Enable or disable
STourRsmTime	"5"to"3600"	presetposition	presetposition.cgi	1.00	

STourRecord	<A,B,C,D,temp,stop>	-	presetposition.cgi	1.00	
STourPreview	<A,B,C,D,temp,stop>	-	presetposition.cgi	1.00	
STourPreviewCopy	<A,B,C,D>	-	presetposition.cgi	1.00	
STourMaxRecordTime	"<sec>"	presetposition	-	1.00	The maximum record time of the tour is acquired.
STour<X>RecordedTime	"<sec>"	presetposition	-	1.00	<X> is one character of A, B, C and D. The present record time of the tour is acquired.
PresetPos PresetPosImage1 PresetPosImage2	"<no>,<name>,<pan pos>,<tilt pos>, <zoom pos>,<focus pos><iris pos>,…"	presetposition	-	1.12	This CGI command acquires the name and position of the preset.

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (Preset position)
SNC-CH110	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-CH115/CH120	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-CH135/CH140	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2

SNC-CH160	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-CH180	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-CH210	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-CH220	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-CH240	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-CH260	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime

SNC-CH280	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-DH110/DH110T	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-DH120	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetSensor1Image1, PresetSensor1Image2, PresetSensor<AI>, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-DH120T	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-DH140/DH140T	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-DH160	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime

SNC-DH180	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-DH210/DH210T	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-DH220	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetSensor1Image1, PresetSensor1Image2, PresetSensor<AI>, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-DH220T	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-DH240/DH240T	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-DH260	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime

SNC-DH280	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-EP520/EP521	GroupName, HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetAud, PresetCopy, PresetNameImage1, PresetNameImage2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2, PresetVMF, PresetPosImage1, PresetPosImage2, PresetSensorImage1, PresetSensorImage2
SNC-EP550	GroupName, HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetAud, PresetCopy, PresetNameImage1, PresetNameImage2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2, PresetVMF, PresetPosImage1, PresetPosImage2, PresetSensorImage1, PresetSensorImage2

SNC-EP580	GroupName, HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetAud, PresetCopy, PresetNameImage1, PresetNameImage2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2, PresetVMF, PresetPosImage1, PresetPosImage2, PresetSensorImage1, PresetSensorImage2
SNC-ER520/ER521	GroupName, HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetAud, PresetCopy, PresetNameImage1, PresetNameImage2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2, PresetVMF, PresetPosImage1, PresetPosImage2, PresetSensorImage1, PresetSensorImage2
SNC-ER550	GroupName, HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetAud, PresetCopy, PresetNameImage1, PresetNameImage2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2, PresetVMF, PresetPosImage1, PresetPosImage2, PresetSensorImage1, PresetSensorImage2

SNC-ER580 /ER585/ER585H	GroupName, HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetAud, PresetCopy, PresetNameImage1, PresetNameImage2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2, PresetVMF, PresetPosImage1, PresetPosImage2, PresetSensorImage1, PresetSensorImage2
SNC-EB520	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, StourRsmTime
SNC-EM520/EM521	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, StourRsmTime
SNC-RH124/RH164	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2

SNC-ZB550	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-ZM550	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetSensor1Image1, PresetSensor1Image2, PresetSensor<AI>, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-ZM551	GroupAdd, GroupClear, GroupMake, GroupName, PresetAud, PresetDetection, PresetGroupRegist, PresetGroupRelation, PresetVMF, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime
SNC-ZP550/ZR550	GroupName, HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetAud, PresetCopy, PresetNameImage1, PresetNameImage2, PresetTamperingImage1, PresetTamperingImage2, STour, STour<X>, STour<X>Period, STour<X>RecordedTime, STour<X>Schedule, STourMaxRecordTime, STourPreview, STourPreviewCopy, STourRecord, STourResume, STourRsmTime, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2 PresetVMF, PresetPosImage1, PresetPosImage2, PresetSensorImage1, PresetSensorImage2
SNT-EP104	All Preset position CGI commands.
SNT-EP154	All Preset position CGI commands.
SNT-EX101/EX101E	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2

SNT-EX104	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2
SNT-EX154	HomePosImage1, HomePosImage2, HomePosPropertyImage1, HomePosPropertyImage2, PresetCopy, PresetNameImage1, PresetNameImage2, PresetPosImage1, PresetPosImage2, PresetSensor1Image1, PresetSensor1Image2, PresetTamperingImage1, PresetTamperingImage2, Tour<X>Image1, Tour<X>Image2, Tour<X>PeriodImage1, Tour<X>PeriodImage2, Tour<X>ScheduleImage1, Tour<X>ScheduleImage2, Tour<X>SequenceImage1, Tour<X>SequenceImage2, Tour<X>SpeedImage1, Tour<X>SpeedImage2, Tour<X>StaytimeImage1, Tour<X>StaytimeImage2, TourImage1, TourImage2, TourPreviewSequenceImage1, TourPreviewSequenceImage2, TourPreviewSpeedImage1, TourPreviewSpeedImage2, TourResumeImage1, TourResumeImage2, TourRsmTimeImage1, TourRsmTimeImage2

- SNT-EX101/EX101E/EX104/EX154 can use the following CGI when a connected analog camera supports it.
  - HomePos, HomePosProperty, PresetSet, PresetCall, PresetClear, PresetName. GroupAdd, GroupMake, GroupName, GroupClear, PresetGroupRegist, PresetGroupRelation, PresetThumbnailClear, Delete

11.21 FTP client

Parameter	Value	InqParm	SetCGI	Ver	Note
FtpClientFunc	"on"/"off"	ftpclient	ftpclient.cgi	1.00	Enable or disable the FTP client function.
FcServerName	"<server name>"	ftpclient	ftpclient.cgi	1.00	Set FTP server name.
FcUserName	"<text>"	ftpclient	ftpclient.cgi	1.00	Set user of FTP server.
FcPassword	"<text>"	ftpclient	ftpclient.cgi	1.00	Set password of FTP server.
FcPassive	"on"/"off"	ftpclient	ftpclient.cgi	1.00	Enable or disable the passive FTP.
FcStoreMode	"overwrite"/"rename"	ftpclient	ftpclient.cgi	1.00	
FcAlmFunc	"on"/"off"	ftpclient	ftpclient.cgi	1.00	

FcAlmRemotePath	"<text>"	ftpclient	ftpclient.cgi	1.00	
FcAlmAssignedName	"<text>"	ftpclient	ftpclient.cgi	1.00	
FcAlmSuffix	"date"/"seq"	ftpclient	ftpclient.cgi	1.00	
FcAlmDetection	"on"/"off"	ftpclient	ftpclient.cgi	1.00	Object Detection or Lite Object Detection becomes a trigger when this is set up in on.
FcAlmVmf	"on"/"off"	ftpclient	ftpclient.cgi	1.00	
FcAlmTampering	"on"/"off"	ftpclient	ftpclient.cgi	1.00	
FcAlmSensor<AI>	"on"/"off"	ftpclient	ftpclient.cgi	1.00	
FcAlmBuffer	"on"/"off"	ftpclient	ftpclient.cgi	1.00	
FcAlmAud	"on"/"off"	ftpclient	ftpclient.cgi	1.10	
FcAlmPeriod	"always"/"schedule"	ftpclient	ftpclient.cgi	1.00	
FcAlmSchedule	"<schedule>"	ftpclient	ftpclient.cgi	1.00	
FcAlmImage1	"on"/"off"	ftpclient	ftpclient.cgi	1.12	
FcAlmImage2	"on"/"off"	ftpclient	ftpclient.cgi	1.12	
FcAlmImage3	“on”/”off”	ftpclient	ftpclient.cgi	1.20	
SeqClear	"ftp-alarm"	-	etc.cgi	1.00	
FcPeriodicalFunc	"on"/"off"	ftpclient	ftpclient.cgi	1.00	
FcPrdRemotePath	"<text>"	ftpclient	ftpclient.cgi	1.00	
FcPrdAssignedName	"<text>"	ftpclient	ftpclient.cgi	1.00	
FcPrdSuffix	"none"/"date"/"seq"	ftpclient	ftpclient.cgi	1.00	
FcPrdMode	"period"/"synctour"	ftpclient	ftpclient.cgi	1.00	
FcPrdPeriod	"always"/"schedule"	ftpclient	ftpclient.cgi	1.00	
FcPrdSchedule	"<schedule>"	ftpclient	ftpclient.cgi	1.00	
FcPrdInterval	"<interval time>"	ftpclient	ftpclient.cgi	1.00	<interval time> is specified in form of HHMMSS (hours, minutes, seconds, two-digit each).

FcPrdImage1	"on"/"off"	ftpclient	ftpclient.cgi	1.12	
FcPrdImage2	"on"/"off"	ftpclient	ftpclient.cgi	1.12	
FcPrdImage3	“on”/”off”	ftpclient	ftpclient.cgi	1.20	
SeqClear	"ftp-periodical"	-	etc.cgi	1.00	
FcManualFunc	"on"/"off"	ftpclient	ftpclient.cgi	1.00	
FcManRemotePath	"<text>"	ftpclient	ftpclient.cgi	1.00	
FcManAssignedName	"<text>"	ftpclient	ftpclient.cgi	1.00	
FcManSuffix	"none"/"date"/"seq"	ftpclient	ftpclient.cgi	1.00	
SeqClear	"ftp-manual"	-	etc.cgi	1.00	

- The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (FTP client)
SNC-CH110	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-CH115/CH120	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-CH135/CH140	FcAlmImage3, FcPrdImage3
SNC-CH160	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-CH180	FcAlmImage3, FcPrdImage3
SNC-CH210	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-CH220	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-CH240	FcAlmImage3, FcPrdImage3
SNC-CH260	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-CH280	FcAlmImage3, FcPrdImage3
SNC-DH110/DH110T	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3

SNC-DH120	FcAlmAud, FcAlmBuffer, FcAlmSensor<AI>, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-DH120T	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-DH140/DH140T	FcAlmImage3, FcPrdImage3
SNC-DH160	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-DH180	FcAlmImage3, FcPrdImage3
SNC-DH210/DH210T	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-DH220	FcAlmAud, FcAlmBuffer, FcAlmSensor<AI>, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-DH220T	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-DH240/DH240T	FcAlmImage3, FcPrdImage3
SNC-DH260	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-DH280	FcAlmImage3, FcPrdImage3
SNC-EP520/EP521	FcAlmAud, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-EP550	FcAlmAud, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-EP580	FcAlmAud, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-ER520/ER521	FcAlmAud, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-ER550	FcAlmAud, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-ER580 /ER585/ER585H	FcAlmAud, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-EB520	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-EM520/EM521	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3

SNC-RH124/RH164	FcAlmImage3, FcPrdImage3
SNC-ZB550	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-ZM550	FcAlmAud, FcAlmBuffer, FcAlmSensor<AI>, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-ZM551	FcAlmAud, FcAlmBuffer, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNC-ZP550/ZR550	FcAlmAud, FcAlmVmf, FcAlmImage3, FcPrdImage3
SNT-EP104	FcAlmAud, FcAlmSensor<AI>, FcAlmTampering, FcAlmVmf
SNT-EP154	FcAlmAud, FcAlmSensor<AI>, FcAlmTampering, FcAlmVmf
SNT-EX101/EX101E	FcAlmImage3, FcPrdImage3
SNT-EX104	FcAlmImage3, FcPrdImage3
SNT-EX154	FcAlmImage3, FcPrdImage3

11.22 FTP server

Parameter	Value	InqParm	SetCGI	Ver	Note
FtpServerFunc	"on"/"off"	ftpserver	ftpserver.cgi	1.00	Enable or disable the FTP server function.
FsRootDir	"builtin"/"a-slot"	ftpserver	ftpserver.cgi	1.00	Following models have "a-slot" function. SNC-CH135/CH140/CH180/CH240/CH280 /RH124/RH164/RS44N/RS44P/RS46N/RS46P /RS84N/RS84P/RS86N/RS86P, SNT-EX101/EX101E/EX104

11.23 SMTP

Parameter	Value	InqParm	SetCGI	Ver	Note
SmtpFunc	"on"/"off"	smtp	smtp.cgi	1.00	
SmtpPort	"25"to"65535"	smtp	smtp.cgi	1.00	
PopPort	"110"to"65535"	smtp	smtp.cgi	1.00	
SmServerName	"<server name>"	smtp	smtp.cgi	1.00	
SmAuthenMode	"none"/"smtp"/"pop"/"smtp-pop"	smtp	smtp.cgi	1.00	
SmPopMode	"pop3"/"apop"	smtp	smtp.cgi	1.00	
SmPopAfterWaitTime	"0"to"10000"	smtp	smtp.cgi	1.00	
SmAthPopServerName	"<server name>"	smtp	smtp.cgi	1.00	
SmAuthMode	"login"/"cram-md5"	smtp	smtp.cgi	1.00	
SmAthUserName	"<text>"	smtp	smtp.cgi	1.00	
SmAthPassword	"<text>"	smtp	smtp.cgi	1.00	
SmTLS	"on"/"off"	smtp	smtp.cgi	1.00	
SmTlsStart	"on"/"off"	smtp	smtp.cgi	1.00	
SmRcptToAddr<n>	"<e-mail addr>"	smtp	smtp.cgi	1.00	<n> is the integer of 1 - 3.
SmAdminAddr	"<e-mail addr>"	smtp	smtp.cgi	1.00	
SmSubject	"<text>"	smtp	smtp.cgi	1.00	
SmMessage	"<text>"	smtp	smtp.cgi	1.00	
SmAlmFunc	"on"/"off"	smtp	smtp.cgi	1.00	
SmAlmFileAttach	"on"/"off"	smtp	smtp.cgi	1.00	
SmAlmAssignedName	"<text>"	smtp	smtp.cgi	1.00	
SmAlmSuffix	"none"/"date"/"seq"	smtp	smtp.cgi	1.00	
SmAlmDetection	"on"/"off"	smtp	smtp.cgi	1.00	
SmAlmVmf	"on"/"off"	smtp	smtp.cgi	1.00	

SmAlmTampering	"on"/"off"	smtp	smtp.cgi	1.00	
SmAlmTamperingPrdInterval	"<interval time>"	smtp	smtp.cgi	1.00	
SmAlmSensor<AI>	"on"/"off"	smtp	smtp.cgi	1.00	
SmAlmAud	"on"/"off"	smtp	smtp.cgi	1.10	
SmAlmPeriod	"always"/"schedule"	smtp	smtp.cgi	1.00	
SmAlmSchedule	"<schedule>"	smtp	smtp.cgi	1.00	
SmAlmImage1	"on"/"off"	smtp	smtp.cgi	1.12	
SmAlmImage2	"on"/"off"	smtp	smtp.cgi	1.12	
SmAlmImage3	“on”/”off”	smtp	smtp.cgi	1.20	
SmPeriodicalFunc	"on"/"off"	smtp	smtp.cgi	1.00	
SmPrdAssignedName	"<text>"	smtp	smtp.cgi	1.00	
SmPrdSuffix	"none"/"date"/"seq"	smtp	smtp.cgi	1.00	
SmPrdPeriod	"always"/"schedule"	smtp	smtp.cgi	1.00	
SmPrdSchedule	"<schedule>"	smtp	smtp.cgi	1.00	
SmPrdInterval	"<interval time>"	smtp	smtp.cgi	1.00	<interval time> is specified in form of HHMMSS (hours, minutes, seconds, two-digit each).
SmPrdImage1	"on"/"off"	smtp	smtp.cgi	1.12	
SmPrdImage2	"on"/"off"	smtp	smtp.cgi	1.12	
SmPrdImage3	“on”/”off”	smtp	smtp.cgi	1.20	
SmManualFunc	"on"/"off"	smtp	smtp.cgi	1.00	
SmManAssignedName	"<text>"	smtp	smtp.cgi	1.00	
SmManSuffix	"none"/"date"/"seq"	smtp	smtp.cgi	1.00	
SeqClear	"smtp-alarm" / "smtp-periodical" / "smtp-manual"	-	etc.cgi	1.00	
SmEmgFunc	"on"/"off"	smtp	smtp.cgi	1.10	Alarm notice by E-mail is made effective.

SmEmgNotifyCyclic	"on"/"off"	smtp	smtp.cgi	1.10	Periodic notice is made effective. A notice interval is set up with SmEngInterval.
SmEmgFanDetect	"on"/"off"	smtp	smtp.cgi	1.10	It is informed when a fan breaks down.
SmEmgVideoDetect	"on"/"off"	smtp	smtp.cgi	1.10	It is informed when video input is stopped.
SmEmgPowerDetect	"on"/"off"	smtp	smtp.cgi	1.10	It is informed of the change of the power supply. It can use only with SNT-EX154 and SNT-EP154.
SmEmgInterval	"<interval time>"	smtp	smtp.cgi	1.10	It is the notice interval when SmEmgNotifyCyclic is turned on. It is specified with hhmmss.
SmEmgRcptAddr	"<e-mail addr>"	smtp	smtp.cgi	1.10	It is the recipient of the alarm notice.
SmEmgAdminAddr	"<e-mail addr>"	smtp	smtp.cgi	1.10	It is the sender of the alarm notice.
SmEmgMediaErrorDetect	“on”/”off”	smtp	smtp.cgi	1.50	It notifies when the writing in, the reading to the archive-medium have a malfunction.

● The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (SMTP)
SNC-CH110	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH115/CH120	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgNotifyCyclic, SmEmgInterval, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH135/CH140	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH160	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH180	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3

SNC-CH210	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH220	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH240	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH260	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-CH280	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH110/DH110T	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH120	SmAlmAud, SmAlmSensor<AI>, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH120T	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH140/DH140T	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH160	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH180	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH210/DH210T	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH220	SmAlmAud, SmAlmSensor<AI>, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3

SNC-DH220T	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH240/DH240T	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH260	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-DH280	SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-EP520/EP521	SmAlmAud, SmAlmVmf, SmEmgPowerDetect, SmEmgVideoDetect, SmAlmImage3, SmPrdImage3
SNC-EP550	SmAlmAud, SmAlmVmf, SmEmgPowerDetect, SmEmgVideoDetect, SmAlmImage3, SmPrdImage3
SNC-EP580	SmAlmAud, SmAlmVmf, SmEmgPowerDetect, SmEmgVideoDetect, SmAlmImage3, SmPrdImage3
SNC-ER520/ER521	SmAlmAud, SmAlmVmf, SmEmgPowerDetect, SmEmgVideoDetect, SmAlmImage3, SmPrdImage3
SNC-ER550	SmAlmAud, SmAlmVmf, SmEmgPowerDetect, SmEmgVideoDetect, SmAlmImage3, SmPrdImage3
SNC-ER580 /ER585/ER585H	SmAlmAud, SmAlmVmf, SmEmgPowerDetect, SmEmgVideoDetect, SmAlmImage3, SmPrdImage3
SNC-EB520	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-EM520/EM521	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-RH124/RH164	SmEmgPowerDetect, SmAlmImage3, SmPrdImage3
SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	SmEmgPowerDetect
SNC-ZB550	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgNotifyCyclic, SmEmgInterval, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3

SNC-ZM550	SmAlmAud, SmAlmSensor<AI>, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-ZM551	SmAlmAud, SmAlmVmf, SmEmgAdminAddr, SmEmgFanDetect, SmEmgFunc, SmEmgInterval, SmEmgNotifyCyclic, SmEmgPowerDetect, SmEmgRcptAddr, SmEmgVideoDetect, SmEmgMediaErrorDetect, SmAlmImage3, SmPrdImage3
SNC-ZP550/ZR550	SmAlmAud, SmAlmVmf, SmEmgPowerDetect, SmEmgVideoDetect, SmAlmImage3, SmPrdImage3
SNT-EP104	SmAlmAud, SmAlmSensor<AI>, SmAlmTampering, SmAlmVmf, SmEmgFanDetect, SmEmgPowerDetect, SmAlmImage3, SmPrdImage3
SNT-EP154	SmAlmAud, SmAlmSensor<AI>, SmAlmTampering, SmAlmVmf, SmAlmImage3, SmPrdImage3
SNT-EX101/EX101E	SmEmgFanDetect, SmEmgPowerDetect, SmAlmImage3, SmPrdImage3
SNT-EX104	SmEmgFanDetect, SmEmgPowerDetect, SmAlmImage3, SmPrdImage3
SNT-EX154	SmAlmImage3, SmPrdImage3

11.24 Image memory

Parameter	Value	InqParm	SetCGI	Ver	Note
ImageMemoryFunc	"on"/"off"	imagememory	imagememory.cgi	1.00	Enable or disable
ImDrive	"a-slot"/"builtin"	imagememory	imagememory.cgi	1.00	a-slot: The slot of the memory which can be removed. builtin: A built-in memory "a-slot" is effective in the following model. SNC-CH135/CH140/CH180/CH240/CH280 /RH124/RH164/RS44N/RS44P/RS46N/RS46P /RS84N/RS84P/RS86N/RS86P, SNT-EX101/EX101E/EX104
ImOverWrite	"on"/"off"	imagememory	imagememory.cgi	1.00	Enable or disable
ImCapWarn	"on"/"off"	imagememory	imagememory.cgi	1.00	Enable or disable

SmServerName	"<server name>"	smtp	smtp.cgi	1.00	Identical as the SMTP
SmAuthenMode	"none"/"smtp"/"pop"/"smtp-pop"	smtp	smtp.cgi	1.00	Identical as the SMTP
SmAthPopServerName	"<server name>"	smtp	smtp.cgi	1.00	Identical as the SMTP
SmAthUserName	"<text>"	smtp	smtp.cgi	1.00	Identical as the SMTP
SmAthPassword	"<text>"	smtp	smtp.cgi	1.00	Identical as the SMTP
ImCapWarnRcptAddr	"<e-mail addr>"	imagememory	imagememory.cgi	1.00	
ImCapWarnFromAddr	"<e-mail addr>"	imagememory	imagememory.cgi	1.00	
ImAlarmFunc	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImAlmAssignedName	"<text>"	imagememory	imagememory.cgi	1.00	
ImAlmSuffix	"date"/"seq"	imagememory	imagememory.cgi	1.00	
ImAlmDetection	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImAlmVmf	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImAlmTampering	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImAlmSensor<AI>	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImAlmAud	"on"/"off"	imagememory	imagememory.cgi	1.10	
ImAlmPeriod	"always"/"schedule"	imagememory	imagememory.cgi	1.00	
ImAlmSchedule	"<schedule>"	imagememory	imagememory.cgi	1.00	
ImAlmBuffer	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImAlmImage1	“on”/”off”	imagememory	imagememory.cgi	1.20	
ImAlmImage2	“on”/”off”	imagememory	imagememory.cgi	1.20	
ImAlmImage3	“on”/”off”	imagememory	imagememory.cgi	1.20	
ImPeriodicalFunc	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImPrdAssignedName	"<text>"	imagememory	imagememory.cgi	1.00	
ImPrdSuffix	"none"/"date"/"seq"	imagememory	imagememory.cgi	1.00	
ImPrdMode	"period"/"synctour"	imagememory	imagememory.cgi	1.00	

ImPrdPeriod	"always"/"schedule"	imagememory	imagememory.cgi	1.00	
ImPrdSchedule	"<schedule>"	imagememory	imagememory.cgi	1.00	
ImPrdInterval	"<interval time>"	imagememory	imagememory.cgi	1.00	<interval time> is specified in form of HHMMSS (hours, minutes, seconds, two-digit each).
ImPrdImage1	“on”/”off”	imagememory	imagememory.cgi	1.20	
ImPrdImage2	“on”/”off”	imagememory	imagememory.cgi	1.20	
ImPrdImage3	“on”/”off”	imagememory	imagememory.cgi	1.20	
ImManualFunc	"on"/"off"	imagememory	imagememory.cgi	1.00	
ImManAssignedName	"<text>"	imagememory	imagememory.cgi	1.00	
ImManSuffix	"none"/"date"/"seq"	imagememory	imagememory.cgi	1.00	
SeqClear	"imagememory-alarm"/"imagememory-periodical"/"imagememory-manual"	-	etc.cgi	1.00	

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (Image memory)
SNC-CH110	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-CH115/CH120	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3

SNC-CH135/CH140	ImAlmImage3, ImPrdImage3
SNC-CH160	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-CH180	ImAlmImage3, ImPrdImage3
SNC-CH210	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-CH220	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-CH240	ImAlmImage3, ImPrdImage3
SNC-CH260	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-CH280	ImAlmImage3, ImPrdImage3
SNC-DH110/DH110T	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3

SNC-DH120	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-DH140/140T	ImAlmImage3, ImPrdImage3
SNC-DH120T	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-DH160	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-DH180	ImAlmImage3, ImPrdImage3
SNC-DH210/DH210T	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-DH220	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-DH220T	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3

SNC-DH240/DH240T	ImAlmImage3, ImPrdImage3
SNC-DH260	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-DH240/DH240T	ImAlmImage3, ImPrdImage3
SNC-EP520/EP521	ImAlmAud, ImAlmVmf, ImPrdImage2, ImPrdImage3
SNC-EP550	ImAlmAud, ImAlmVmf, ImPrdImage2, ImPrdImage3
SNC-EP580	ImAlmAud, ImAlmVmf, ImPrdImage2, ImPrdImage3
SNC-ER520/ER521	ImAlmAud, ImAlmVmf, ImPrdImage2, ImPrdImage3
SNC-ER550	ImAlmAud, ImAlmVmf, ImPrdImage2, ImPrdImage3
SNC-ER580 /ER585/ER585H	ImAlmAud, ImAlmVmf, ImPrdImage2, ImPrdImage3
SNC-EB520	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-EM520/EM521	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3
SNC-RH124/RH164	ImAlmImage3, ImPrdImage3
SNC-ZB550/ZM550 /ZM551	ImAlarmFunc, ImAlmAssignedName, ImAlmAud, ImAlmBuffer, ImAlmDetection, ImAlmPeriod, ImAlmSchedule, ImAlmSensor<AI>, ImAlmSuffix, ImAlmTampering, ImAlmVmf, ImCapWarn, ImCapWarnFromAddr, ImCapWarnRcptAddr, ImDrive, ImManAssignedName, ImManSuffix, ImManualFunc, ImOverWrite, ImPeriodicalFunc, ImPrdAssignedName, ImPrdInterval, ImPrdMode, ImPrdPeriod, ImPrdSchedule, ImPrdSuffix, ImageMemoryFunc, SeqClear, ImAlmImage1, ImAlmImage2, ImAlmImage3, ImPrdImage1, ImPrdImage2, ImPrdImage3

SNC-ZP550/ZR550	ImAlmAud, ImAlmVmf, ImAlmImage3, ImPrdImage3
SNT-EP104	ImAlmAud, ImAlmSensor<AI>, ImAlmTampering, ImAlmVmf, ImAlmImage3, ImPrdImage3
SNT-EP154	ImAlmAud, ImAlmSensor<AI>, ImAlmTampering, ImAlmVmf, ImAlmImage3, ImPrdImage3
SNT-EX101/EX101E	ImAlmImage3, ImPrdImage3
SNT-EX104	ImAlmImage3, ImPrdImage3
SNT-EX154	ImAlmImage3, ImPrdImage3

11.25 Edge storage

Parameter	Value	InqParm	SetCGI	Ver	Note
EdgeStorage	"on"/"off"	edgestorage	edgestorage.cgi	1.10	An EdgeStorage function is turned on and off.
EsOverWrite	"on"/"off"	edgestorage	edgestorage.cgi	1.10	Record data are overwritten.
EsRecChMax	"<ch>"	edgestorage	-	1.10	The max value of ch of EdgeRec<ch> is returned.
EsRec<ch>Func	"on"/"off"	edgestorage	edgestorage.cgi	1.10	On and off of every channel are specified.
EsRec<ch>	"<codec>,<audio>"	edgestorage	edgestorage.cgi	1.10	<codec> :"image1/image2/image3" <audio> :"on/off"
EsRec<ch>Mode	"always"/"alarm"	edgestorage	edgestorage.cgi	1.10	The always record mode and the alarm interlock record mode are chosen.
EsRec<ch>Period	"always"/"schedule"	edgestorage	edgestorage.cgi	1.10	A record schedule method is specified.
EsRec<ch>Schedule	"<schedule>"	edgestorage	edgestorage.cgi	1.10	The schedule when "schedule" is chosen in EsRec<ch>Period is specified.
EsRec<ch>Status	"0"/"1"	edgestorage	-	1.10	It is indicate whether it is during the record.
EsRec<ch>Start	"on"	-	edgestorage.cgi	1.10	A record is started.
EsRec<ch>Stop	"on"	-	edgestorage.cgi	1.10	A record is stoped.
EsAlmRec<ch>WatchAddress	"<ip addr>"	edgestorage	edgestorage.cgi	1.10	<ip addr> : An IP address or a host name is specified.

EsAlmRec<ch>Trigger	"<cond>"	edgestorage	edgestorage.cgi	1.10	The trigger condition of the alarm interlock record mode is established. A detection factor ("sensor<AI>", "disconnected", "vmf", "vmd", "tampering", "aud") or Cond<n> is specified in cond.
EsRTSPRec<ch>Timeout	"0" to "600"	edgestorage	edgestorage.cgi	1.10	
EsAlmRec<ch>Time	"<pre time>,<post time>"	edgestorage	edgestorage.cgi	1.10	It is time to record it.
EsAlmRecMaxTime<codec>	"<pre time>,<post time>"	edgestorage	-	1.10	The maximum time when it can be specified is show.
EsSupportedAlm	"sensor<AI>"/"disconnected"/"vmf"/"vmd"/"tampering"/"aud"	edgestorage	-	1.10	The kind of the alarm is acquired.
Delete	"all"	-	edgestorage.cgi	1.10	All the data recorded with EdgeStorage function are deleted.
DeletebyName	"<streamname>"	-	edgestorage.cgi	1.10	The data recorded with EdgeStorage are deleted with a <streamname>.
Cond<n>	"<cond type>,<cond1>,<cond2>,<duration>"	eventconfig	eventconfig.cgi	1.10	<n> is the integer of 1 - 2. The trigger of the alarm record is established. <cond type> : "and", "or" and "then" are specified in cond type. <cond1>,<cond2> : A detection factor ("sensor<AI>", "detection", "tampering", "vmf", "aud", "disconnected") or Cond<n> is specified. <duration> : It is the time until the next event is accepted after an event was detected. It is effective when "and" or "then" is specified in cond type. Maximum setup time is 7200 seconds.
search	-	-	-	1.10	It is the search of the record data. A form is as the following. http://ipaddress/command/search?Order=<order>&Start=<start>&End=<end>&MaxEntry=<max_entry>"

- The Edge Storage CGI commands cannot be used with the following models.
  - SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
  - SNC-DH110/DH110T/DH120/DH120T/DH140/DH140T/DH160/DH180/DH210/DH210T/DH220/DH220T/DH240/DH240T/DH260/DH280
  - SNC-EB520/EM520/EM521
  - SNC-ZB550/ZM550/ZM551
  - SNT-EP104/EP154
  - SNT-EX154

11.26 Alarm out

Parameter	Value	InqParm	SetCGI	Ver	Note
AlarmOut<AO>Func	"on"/"off"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>Mode	"alarm"/"timer"/"daynight"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>AlmDetection	"on"/"off"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>AlmVmf	"on"/"off"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>AlmTampering	"on"/"off"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>AlmSensor<AI>	"on"/"off"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>AlmAud	"on"/"off"	alarmout<AO>	alarmout.cgi	1.10	
Ao<AO>AlmPeriod	"always"/"schedule"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>AlmSchedule	"<schedule>"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>AlmDuration	"1"to"60"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>TimSchedule	"<schedule>"	alarmout<AO>	alarmout.cgi	1.00	
Ao<AO>ManualFunc	"on"/"off"	alarmout<AO>	alarmout.cgi	1.00	

- The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (Alarm out)
SNC-CH115/CH120	Ao<AO>AlmAud, Ao<AO>AlmVmf

SNC-CH160	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-CH220	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-CH260	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-DH120T	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-DH160	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-DH220T	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-DH260	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-EP520/EP521	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-EP550	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-EP580	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-ER520/ER521	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-ER550	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-ER580/ER585/ER585H	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-EB520	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-EM521	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC- ZB550	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC- ZM551	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-ZP550	Ao<AO>AlmAud, Ao<AO>AlmVmf
SNC-ZR550	Ao<AO>AlmAud, Ao<AO>AlmVmf

- The Alarm out CGI commands cannot be used with the following models.
  - SNC-CH110/CH210
  - SNC-DH110/DH110T/DH120/DH220/DH210/DH210T
  - SNC-EM520
  - SNC-ZM550
  - SNT-EP104/EP154

11.27 Voice alert

Parameter	Value	InqParm	SetCGI	Ver	Note
VoiceAlert<n>Func	"on"/"off"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3. Enable or disable the voice alert function.
Va<n>File	"Uploaded"/"Not uploaded"	voicealert	-	1.00	<n> is the integer of 1 to 3. Whether voice alert file exists or doesn't exist.
Va<n>Filename	"<file name>"/ ""	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>AlmDetection	"on"/"off"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>AlmVmf	"on"/"off"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>AlmTampering	"on"/"off"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>AlmSensor<AI>	"on"/"off"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>AlmAud	"on"/"off"	voicealert	voicealert.cgi	1.10	<n> is the integer of 1 to 3.
Va<n>AlmPeriod	"always"/"schedule"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>AlmSchedule	"<schedule>"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>AlmRepeat	"1"to"3"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>ManualFunc	"on"/"off"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.
Va<n>ManRepeat	"1"to"3"	voicealert	voicealert.cgi	1.00	<n> is the integer of 1 to 3.

- The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (Voice alert)
SNC-EP520/EP521	Va<n>AlmAud, Va<n>AlmVmf
SNC-EP550	Va<n>AlmAud, Va<n>AlmVmf
SNC-EP580	Va<n>AlmAud, Va<n>AlmVmf
SNC-ER520/ER521	Va<n>AlmAud, Va<n>AlmVmf
SNC-ER550	Va<n>AlmAud, Va<n>AlmVmf
SNC-ER580 /ER585/ER585H	Va<n>AlmAud, Va<n>AlmVmf

SNC-ZP550	Va<n>AlmAud, Va<n>AlmVmf
SNC-ZR550	Va<n>AlmAud, Va<n>AlmVmf

- The Voice alert CGI commands cannot be used with the following models.
  - ♦ SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
  - ♦ SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
  - ♦ SNC-EB520/EM520/EM521
  - ♦ SNC-ZB550/ZM550/ZM551
  - ♦ SNT-EP104/EP154
- When a sound is reproduced with CH1, it is output in Audio Out in SNT-EX154. It isn't output in Audio Out even if a sound is reproduced with CH2 - CH4.

11.28 Alarm buffer

Parameter	Value	InqParm	SetCGI	Ver	Note
AlmBufTime	"<pre time>,<post time>"	Alarmbuffer	alarmbuffer.cgi	1.00	Seconds
AlmBufMaxTime	"<pre time>,<post time>"	Alarmbuffer	-	1.00	Seconds
AlmBufMaxTime<codec>	"<pre time>,<post time>"	Alarmbuffer	-	1.00	Seconds
AlmBufCodec	"jpeg"/"mpeg4"/ "h264"	Alarmbuffer	alarmbuffer.cgi	1.00	A camera is rebooted when you change the setup of AlmBufCodec.
AlmBufInstance	"image1","image2","image3"	alarmbuffer	alarmbuffer.cgi	1.00	The number of ImageCodec to store in the alarm buffer is specified. It is ignored when the number which isn't being supported is specified. A still picture is store when the number of ImageCodec which isn't working is specified.

- The Alarm buffer CGI commands cannot be used with the following models.

- ♦ SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
- ♦ SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
- ♦ SNC-EB520/EM520/EM521
- ♦ SNC-ZB550/ZM550/ZM551

11.29 Object detection

Parameter	Value	InqParm	SetCGI	Ver	Note
SuspenderAlarm	"on"/"off"	objectdetection	objectdetection.cgi	1.00	In Moving Object Detection, alarm occurs also by pausing objects.
EModStayTime	"2"to"60"	objectdetection	objectdetection.cgi	1.00	In Moving Object Detection, hold time of pausing objects.
PositionMode	"current"/"preset"	objectdetection	objectdetection.cgi	1.00	Return the current position mode.
ODPre<XXX>Mode	"mod"	objectdetection	objectdetection.cgi	1.00	Moving Object Detection.
ODPre<XXX>Win<YY>	"on"/"off"	objectdetection	objectdetection.cgi	1.00	Enable or disable window.
ODPre<XXX>Win<YY>Mode	"det"/"mask"	objectdetection	objectdetection.cgi	1.00	Select detection area or mask area for each windows.
ODPre<XXX>Win<YY>Area	<number>,<x1>,<y1>,<x2>,<y2>,...	objectdetection	objectdetection.cgi	1.00	Axis of the window. <number> : "3" - "16" x and y : (Refer to an appendix.)
ODPre<XXX>ThresholdR	"0"to"99"	objectdetection	objectdetection.cgi	1.00	Threshold of R gain
ODPre<XXX>ThresholdG	"0"to"99"	objectdetection	objectdetection.cgi	1.00	Threshold of G gain
ODPre<XXX>ThresholdB	"0"to"99"	objectdetection	objectdetection.cgi	1.00	Threshold of B gain
ODPre<XXX>MinObjectSize	<x>,<y>	objectdetection	objectdetection.cgi	1.00	Minimum size of object to be detected. (Refer to an appendix.)
ODPre<XXX>MaxObjectSize	<x>,<y>	objectdetection	objectdetection.cgi	1.00	Maximum size of object to be detected (Refer to an appendix.).
ODPre<XXX>CandidateFrame	"3"to"7"	objectdetection	objectdetection.cgi	1.00	Rough time from an object appears in the scene to the object is detected. If you turn down this value, the object is detected more quickly, but false alarm increases.

ODPre<XXX>ShadowCut	"on"/"off"	objectdetection	objectdetection.cgi	1.00	
Od<MM>Mode	"mod"	objectdetection	objectdetection.cgi	1.00	Moving Object Detection.
Od<MM>Win<N>	"on"/"off"	objectdetection	objectdetection.cgi	1.00	Enable or disable window (1 to 4)
Od<MM>Win<N>Mode	"det"/"mask"	objectdetection	objectdetection.cgi	1.00	Select detection area or mask area for each windows (1 to 4)
Od<MM>Win<N>Area	"upper left X"/"upper left Y"/"lower right X"/"lower right Y"	objectdetection	objectdetection.cgi	1.00	Axis of the window (1 to 4)
Od<MM>ThresholdR	"0"to"99"	objectdetection	objectdetection.cgi	1.00	Threshold of R gain
Od<MM>ThresholdG	"0"to"99"	objectdetection	objectdetection.cgi	1.00	Threshold of G gain
Od<MM>ThresholdB	"0"to"99"	objectdetection	objectdetection.cgi	1.00	Threshold of B gain
Od<MM>MinObjectSize	"X"to"Y"	objectdetection	objectdetection.cgi	1.00	Minimum size of object to be detected (Refer to an appendix.).
Od<MM>MaxObjectSize	"X"to"Y"	objectdetection	objectdetection.cgi	1.00	Maximum size of object to be detected (Refer to an appendix.).
Od<MM>CandidateFrame	"3"to"7"	objectdetection	objectdetection.cgi	1.00	Rough time from an object appears in the scene to the object is detected. If you turn down this value, the object is detected more quickly, but false alarm increases.

- The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (Object detection)
SNC-CH110	ODPre<XXX>ShadowCut
SNC-CH115/CH120	ODPre<XXX>ShadowCut
SNC-CH160	ODPre<XXX>ShadowCut
SNC-CH210	ODPre<XXX>ShadowCut
SNC-CH220	ODPre<XXX>ShadowCut
SNC-CH260	ODPre<XXX>ShadowCut
SNC-DH120/DH120T	ODPre<XXX>ShadowCut
SNC-DH160	ODPre<XXX>ShadowCut

SNC-DH210/DH210T	ODPre<XXX>ShadowCut
SNC-DH220/DH220T	ODPre<XXX>ShadowCut
SNC-DH260	ODPre<XXX>ShadowCut
SNC-EB520	ODPre<XXX>ShadowCut
SNC-EM520/EM521	ODPre<XXX>ShadowCut
SNC-EP520/EP521 /EP550/EP580	ODPre<XXX>ShadowCut
SNC-ER520/ER521 /ER550/ER580 /ER585/ER585H	ODPre<XXX>ShadowCut
SNC-ZB550	ODPre<XXX>ShadowCut
SNC-ZM550/ZM551	ODPre<XXX>ShadowCut
SNC-ZP550	ODPre<XXX>ShadowCut
SNC-ZR550	ODPre<XXX>ShadowCut
SNT-EP104	All Object detection CGI commands.
SNT-EP154	All Object detection CGI commands.

- <XXX> of the Parameter relates to the Preset Position number (001 to 256) and Current Position (Def). It is replaced in "001" - "256" or "Def". <XXX> can specify only "Def" with SNC-135, SNC-CH140 and SNC-DH140. <YY> is the number of Window. The number of "01" - "10" is put in <YY>.
- <MM> is the number of "00" - "15" "99". <MM> can specify only "99" with SNC-135, SNC-CH140 and SNC-DH140. <N> is the number of Window. It is the number of "1"- "4".
- The CGI command which began with Od<MM> was being used with an old model. Use a CGI command to begin with ODPre<XXX> when you use an Objectdetection function for the new case.
- The following model doesn't correspond to the Objectdetection CGI command.
  - ♦ SNC-CH115/ CH135

11.30 VMF

Parameter	Value	InqParm	SetCGI	Ver	Note
VmfPassing<XXX><YY>Name	<name>	vmf	objectdetection.cgi	1.00	Set up the name of the passing detection filter.
VmfPassing<XXX><YY>Status	"deleted"/"disable"/"enable"/"notifiable"	vmf	objectdetection.cgi	1.00	Set up the status of the passing detection filter.
VmfPassing<XXX><YY>Direction	"right"/"left"/"both"	vmf	objectdetection.cgi	1.00	Set up the direction of the passing direction filter.
VmfPassing<XXX><YY>Area	<number>,<x1>,<y1>,<x2>,<y2>,...	vmf	objectdetection.cgi	1.00	<number>: Number of polyline <x>,<y>: Coordinate of polyline
VmfPassing<XXX><YY>MinSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Minimum size (Refer to an appendix.).
VmfPassing<XXX><YY>MaxSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Maximum size (Refer to an appendix.).
VmfPassing<XXX><YY>MinSpeed	<pixel>,<sec>	vmf	objectdetection.cgi	1.00	Minimum speed.
VmfPassing<XXX><YY>MaxSpeed	<pixel>,<sec>	vmf	objectdetection.cgi	1.00	Maximum speed.
VmfPassing<XXX><YY>JudgePosition	"left"/"top"/"right"/"bottom"/"center"	vmf	objectdetection.cgi	1.00	A position of a passage decision.
VmfEntering<XXX><YY>Name	<name>	vmf	objectdetection.cgi	1.00	Set up the name of the entering detection filter.
VmfEntering<XXX><YY>Status	"deleted"/"disable"/"enable"/"notifiable"	vmf	objectdetection.cgi	1.00	Set up the status of the entering detection filter.
VmfEntering<XXX><YY>Area	<number>,<x1>,<y1>,<x2>,<y2>,...	vmf	objectdetection.cgi	1.00	<number>: Number of area <x>,<y>: Coordinate of area
VmfEntering<XXX><YY>MinSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Minimum size (Refer to an appendix.).
VmfEntering<XXX><YY>MaxSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Maximum size (Refer to an appendix.).
VmfEntering<XXX><YY>MinSpeed	<pixel>,<sec>	vmf	objectdetection.cgi	1.00	Minimum speed.
VmfEntering<XXX><YY>MaxSpeed	<pixel>,<sec>	vmf	objectdetection.cgi	1.00	Maximum speed.
VmfExiting<XXX><YY>Name	<name>	vmf	objectdetection.cgi	1.00	Set up the name of the exiting detection filter.
VmfExiting<XXX><YY>Status	"deleted"/"disable"/"enable"/"notifiable"	vmf	objectdetection.cgi	1.00	Set up the status of the exiting detection filter.
VmfExiting<XXX><YY>Area	<number>,<x1>,<y1>,<x2>,<y2>,...	vmf	objectdetection.cgi	1.00	<number>: Number of area <x>,<y>: Coordinate of area
VmfExiting<XXX><YY>MinSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Minimum size (Refer to an appendix.).

VmfExiting<XXX><YY>MaxSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Maximum size (Refer to an appendix.).
VmfExiting<XXX><YY>MinSpeed	<pixel>,<sec>	vmf	objectdetection.cgi	1.00	Minimum speed.
VmfExiting<XXX><YY>MaxSpeed	<pixel>,<sec>	vmf	objectdetection.cgi	1.00	Maximum speed.
VmfLoitering<XXX><YY>Name	<name>	vmf	objectdetection.cgi	1.00	Set up the name of the loitering detection filter.
VmfLoitering<XXX><YY>Status	"deleted"/"disable"/"enable"/"notifiable"	vmf	objectdetection.cgi	1.00	Set up the status of the loitering detection filter.
VmfLoitering<XXX><YY>Area	<number>,<x1>,<y1>,<x2>,<y2>,...	vmf	objectdetection.cgi	1.00	<number>: Number of area <x>,<y>: Coordinate of area
VmfLoitering<XXX><YY>MinSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Minimum size (Refer to an appendix.).
VmfLoitering<XXX><YY>MaxSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Maximum size (Refer to an appendix.).
VmfLoitering<XXX><YY>StayTime	<time>	vmf	objectdetection.cgi	1.00	Set up a loitering detection time.
VmfCounting<XXX><YY>Name	<name>	vmf	objectdetection.cgi	1.00	Set up the name of the counting detection filter.
VmfCounting<XXX><YY>Status	"deleted"/"disable"/"enable"/"notifiable"	vmf	objectdetection.cgi	1.00	Set up the status of the counting detection filter.
VmfCounting<XXX><YY>Area	<number>,<x1>,<y1>,<x2>,<y2>,...	vmf	objectdetection.cgi	1.00	<number>: Number of area <x>,<y>: Coordinate of area
VmfCounting<XXX><YY>MinSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Minimum size (Refer to an appendix.).
VmfCounting<XXX><YY>MaxSize	<x>,<y>	vmf	objectdetection.cgi	1.00	Maximum size (Refer to an appendix.).
VmfCounting<XXX><YY>Count	<count>	vmf	objectdetection.cgi	1.00	Set up the number for the counting detection.
Combo<ZZZZ>Name	<name>	combo	objectdetection.cgi	1.00	Set up the name of the compound decision filter.
Combo<ZZZZ>Status	"deleted"/"disable"/"enable"/"notifiable"	combo	objectdetection.cgi	1.00	Set up the status of the compound detection filter.
Combo<ZZZZ>SubFilters	<filter1>,<filter2>,...	combo	objectdetection.cgi	1.00	Set up the sub-filter of the compound detection filter.
Combo<ZZZZ>UseSubFilter	"on"/"off","on"/"off",...	combo	objectdetection.cgi	1.00	A sub-filter is used for the decision in case of On.
Combo<ZZZZ>Duration	<time>,<time>,...	combo	objectdetection.cgi	1.00	Set up the duration of the compound detection filter.

Combo<ZZZZ>Logic	"and"/"or"	combo	objectdetection.cgi	1.00	Set up the condition of the compound detection filter.

- The VMF CGI commands cannot be used with the following models.
  - SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
  - SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
  - SNC-EP520/EP521/EP550/EP580
  - SNC-ER520/ER521/ER550/ER580/ER585/ER585H
  - SNC-EB520/EM520/EM521
  - SNC-EB550/EM550/EM551
  - SNC-EP550/ER550
  - SNT-EP104/EP154
- <XXX> of the Parameter relates to the Preset Position number (001 to 256) and Current Position (Def). It is replaced in "001" - "256" or "Def". <YY> is the filter which relates to Preset Position. "01" - "10" are replacing for <YY>. Example) VmfPassing00101, VmfPassingDef10
- <ZZZZ> is four-digit number. It is the range of "0001" - "1024".

11.31 Tampering detection

Parameter	Value	InqParm	SetCGI	Ver	Note
TamperingFunc	"on"/"off"	system	system.cgi	1.00	Enable or disable the tampering detection.
TamperingLevel	"low"/"middle"/"high"	system	system.cgi	1.00	Set up the level of the tampering detection.
TamperingStatus	"0"/"1"	system	-	1.10	It is the condition of the tampering detection alarm.
TamperingStatusClear	"on"	-	system.cgi	1.10	A disturbance tampering detection is cleared.

- The Tampering detection CGI commands cannot be used with the following models.
  - SNT-EP104/EP154

11.32 Lite object detection

Parameter	Value	InqParm	SetCGI	Ver	Note
LODMinObjectSize	"small"/"middle"/"large"	lod	lod.cgi	1.00	Set up the minimum size of the object.
LODSensitivity	"0" to "100"	lod	lod.cgi	1.00	Set up the sensitivity.

●The Lite object detection CGI commands cannot be used with the following models.

- ♦ SNC-CH110/CH115/CH120/CH135/CH140/CH160/CH180/CH210/CH220/CH240/CH260/CH280
- ♦ SNC-DH110/DH110T/DH120/DH120T/DH140/DH140T/DH160/DH180/DH210/DH210T/DH220/DH220T/DH240/DH240T/DH260/DH280
- ♦ SNC-EP520/EP521/EP550/EP580
- ♦ SNC-ER520/ER521/ER550/ER580/ER585/ER585H
- ♦ SNC-EB520/EM520/EM521
- ♦ SNC-EB550/EM550/EM551
- ♦ SNC-RH124/RH164
- ♦ SNC-RS44N/RS44P/RS46N/RS46P/RS84N/RS84P/RS86N/RS86P
- ♦ SNC-ZP550/ZR550
- ♦ SNT-EX101/EX101E/EX104/EX154

11.33 Audio detection

Parameter	Value	InqParm	SetCGI	Ver	Note
ADFunc	"on"/"off"	audiodetection	audiodetection.cgi	1.10	
ADSensitivity	"low"/"high"/"manual"	audiodetection	audiodetection.cgi	1.10	
ADManualSensitivity	"1"to"100"	audiodetection	audiodetection.cgi	1.10	

●The Audio detection CGI commands cannot be used with the following models.

- ♦ SNC-CH110/CH115/CH120/CH160/CH210/CH220/CH260
- ♦ SNC-DH110/DH110T/DH120/DH120T/DH160/DH210/DH210T/DH220/DH220T/DH260
- ♦ SNC-EP520/EP521/EP550/EP580

- SNC-ER520/ER521/ER550/ER580/ER585/ER585H
- SNC-EB520/EM520/EM521
- SNC-EB550/EM550/EM551
- SNC-ZP550/ZR550
- SNT-EP104/EP154

11.34 All configuration

Parameter	Value	InqParm	SetCGI	Ver	Note
-	-	all-configuration	all-configuration.cgi	1.00	
-	-	-	all-configuration-preset.cgi	1.00	Preset data is included into restoring.

"all-configuration" is used to preserve the setting of camera. Or, the setting can be preserved by reading http://<ip>/home/l4/<modelname>.cfg（<modelname> is a small letter）.

When the setting is restored, all-configuration.cgi or all-configuration-preset.cgi is used.

11.35 Trigger

Parameter	Value	InqParm	SetCGI	Ver	Note
Trigger	"ftp"	-	main.cgi	1.00	
Trigger	"ftp-alarmbuffer"	-	main.cgi	1.00	Valid only when "FcAlmFunc", "FcAlmBuffer" and "FcManualFunc" are "on".
Trigger	"smtp"	-	main.cgi	1.00	
Trigger	"memory"	-	main.cgi	1.00	
Trigger	"memory-alarmbuffer"	-	main.cgi	1.00	Valid only when "ImAlmFunc", "ImAlmBuffer" and "ImManualFunc" are "on".
Trigger	"alarmout<AO>"	-	main.cgi	1.00	Toggle
Trigger	"alarmout<AO>on"	-	main.cgi	1.00	
Trigger	"alarmout<AO>off"	-	main.cgi	1.00	
Trigger	"daynight"	-	main.cgi	1.00	Toggle

Trigger	"daynighton"	-	main.cgi	1.00	
Trigger	"daynightoff"	-	main.cgi	1.00	
Trigger	"voicealert<n>"	-	main.cgi	1.00	<n> is the integer of 1 - 3.
Trigger	"voicealert<n>-test"	-	main.cgi	1.00	For test play (no repeat). <n> is the integer of 1 - 3.

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (Trigger)
SNC-CH110	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, daynight, daynightoff, daynighton, ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-CH115/CH120	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-CH160	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-CH210	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, daynight, daynightoff, daynighton, ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-CH220	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-CH260	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH110/DH110T	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, daynight, daynightoff, daynighton, ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH120	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH120T	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH160	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH210/DH210T	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, daynight, daynightoff, daynighton, ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH220	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH220T	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-DH260	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-EB520	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test

SNC-EM520/EM521	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-ZB550	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-ZM550	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNC-ZM551	ftp-alarmbuffer, memory, memory-alarmbuffer, voicealert<n>, voicealert<n>-test
SNT-EP104	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, voicealert<n>, voicealert<n>-test
SNT-EP154	alarmout<AO>, alarmout<AO>off, alarmout<AO>on, voicealert<n>, voicealert<n>-test

11.36 Other operation

Parameter	Value	InqParm	SetCGI	Ver	Note
System	"reboot"	-	main.cgi	1.00	Reboot a camera.
System	"initialize"	-	main.cgi	1.00	All setups are returned to a state of factory shipment. The setup of the network is initialized, too.
FactoryDefault	"soft"/"hard"	-	main.cgi	1.00	Setups are returned to a state of factory shipment. soft : The setup of the network isn't initialized. hard : All setups are made a state of factory shipment. (Same as System=initialize.)
Format	"builtin"	-	main.cgi	1.00	Builtin memory will be formatted.
Delete	"homepage"/"voicealert"	-	main.cgi	1.00	"voicealert" : All voicealert file will be deleted.
Delete	"panorama"/"round_panorama"	-	main.cgi	1.00	Each panorama image will be deleted.
Delete	"voicealert1"/"voicealert2"/"voicealert3"	-	main.cgi	1.00	Each voicealert file will be deleted
Delete	"nonvolatilizationlog"	-	main.cgi	1.00	Non volatilization log will be deleted.

11.37 Other inquiries

Parameter	Value	InqParm	SetCGI	Ver	Note
UserWeb	"Used space : <used>byte"	userweb	-	1.00	Return the file size of uploaded Custom Homepage.

ASlot	"Free space : <remain>kbyte"	a-slot	-	1.00	Return the free space of the memory which can be removed.
WriteProtectedA	"0"/"1"	a-slot	-	1.40	Return the status of the alarm out. "0": write enable "1":write protected
BuiltIn	"Free space : <remain>kbyte"	builtin	-	1.00	Return the free space of the build in memory.
Sensor<AI>	"0"/"1"	sensor	-	1.00	Return the status of the sensor. "0": low or open, "1": high or short
Ao<AO>Status	"0"/"1"	alarmoutstatus	-	1.00	Return the status of the alarm out. "0": low or open, "1": high or short

ConnectionList	<client1>,<client2>,….	Connectionlist	-	1.5	Return the network session information. Each <client[N]> consists of the following items. “<Datetime=[Connection start time]>” “<Destination Address=[Client’s IP address]>” “<Source Port=[Source port number]>” “<Destination Port=[Destination port number]>” “<Protocol=[Communication protocol]>” : One of the following items is selected. "HTTP": HTTP streaming requested by HTTP. "UDP" : UDP streaming requested by HTTP "RTP/UDP": RTP/UDP streaming requested by RTP "RTP/RTSP/TCP": RTP／RTSP／TCP streaming requested by RTSP "RTP/RTSP/HTTP/TCP": RTSP/HTTP streaming "Multicast": Multicast streaming “<Contents=[Media type]>” One of the following items is selected. "H.264","MPEG4","MJPEG","G.711","G.726","alarmdata", "metadata" When audio and video are interleaved, the notation such as “H.264,G.711” is used. “<VideoInstance=[Video instance number]>” (as video is streaming) “<AudioInstance=1>” (as audio is streaming) “<Bitrate=[Transmission rate]kbps>”

●The command which can't be used in each model is shown in the following table.

Model name	Unsupported commands (Other inquiries)
SNC-CH110	Ao<AO>Status, WriteProtectedA

SNC-CH115/CH120	WriteProtectedA
SNC-CH135/CH140	WriteProtectedA
SNC-CH160	WriteProtectedA
SNC-CH180	WriteProtectedA
SNC-CH210	Ao<AO>Status, WriteProtectedA
SNC-CH220	WriteProtectedA
SNC-CH240	WriteProtectedA
SNC-CH260	WriteProtectedA
SNC-CH280	WriteProtectedA
SNC-DH110/DH110T	Ao<AO>Status, WriteProtectedA
SNC-DH120	Ao<AO>Status, Sensor<AI>, WriteProtectedA
SNC-DH120T	WriteProtectedA
SNC-DH140/DH140T	WriteProtectedA
SNC-DH160	WriteProtectedA
SNC-DH180	WriteProtectedA
SNC-DH210/DH210T	Ao<AO>Status, WriteProtectedA
SNC-DH220	Ao<AO>Status, Sensor<AI>, WriteProtectedA
SNC-DH220T	WriteProtectedA
SNC-DH240/DH240T	WriteProtectedA
SNC-DH260	WriteProtectedA
SNC-DH280	WriteProtectedA
SNC-EB520	WriteProtectedA
SNC-EM520/EM521	WriteProtectedA
SNC-RH124/RH164	WriteProtectedA

SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	WriteProtectedA
SNC-ZB550	WriteProtectedA
SNC-ZM550	Ao<AO>Status, Sensor<AI>, WriteProtectedA
SNC-ZM551	WriteProtectedA
SNT-EP104	Ao<AO>Status, Sensor<AI>, WriteProtectedA
SNT-EP154	Ao<AO>Status, Sensor<AI>, WriteProtectedA
SNT-EX101/EX101E	WriteProtectedA
SNT-EX104	WriteProtectedA
SNT-EX154	WriteProtectedA

11.38 Alarmdata

Parameter	Value	InqParm	SetCGI	Ver	Note
Interval	"<value>"	-	alarmdata.cgi	1.00	A state of sensor input terminal and the result of the object detection can be acquired as a HTTP stream. Set up the AlarmData parameter of system.cgi in "on" in advance to use this function. The ranges of Value are 1 - 3600.

12 Appendix

12.1 Image Size

The image size which can be chosen is shown in the table of the bottom. There may be a limitation in the image size which can be chosen by the image 1 and the image 2. Furthermore, it may depend on setting of maximum image size. Refer to a users' guide for the details.

- The image size which can be set up with one Network Camera or Video Network Station at the same time is two. SNC-RS44N/RS44P/RS46N/RS46P/RS84N/RS84P/RS86N/RS86P can set up three ImageCodec's. It gives priority to the setup of ImageSize1 and ImageSize2 in that case. The image size of ImageCodec3 is sometimes changed to the value ImageCodec1 ImageCodec2 automatically.
- Set up one of the image size in less than VGA (640x480). It gives priority to the setup of ImageSize1. ImageSIze2 is sometimes changed to the VGA size automatically.

*1: It can use after the firmware Ver.1.10.
*2: It can be used in SNC-CH140 and SNC-DH140/180SNC-DH140/DH180 since firmware Ver.1.10.
*3: It is the setting of the Maximum image size or the Aspect ratio.
*4: It can use after the firmware Ver.1.30.
*5: It is possible that SolidPTZ is turned on at the time of the aspect ratio 4.3. As for the image size which can be chosen at that time, ImageSize1 is less than 768 x 576 and ImageSize2 is less than 640 x 480.
*6: When SolidPTZ is on, ImageSize1 is less than 768 x 576 and ImageSize2 is less than 640 x 480.
*7: It can be used in SNC-RH124/RH164 since firmware Ver.1.22.

Image Size (width x height)	SNC-CH210 /DH210/DH210T		SNC-CH220/CH260 /DH220/DH220T/DH260		SNC-CH240/CH280 /DH240/DH240T/DH280	
*3	16:9	4:3	1920x1080	1920x1440	1920x1080	1920x1440
2048 x 1536		✓				
1920 x 1440				✓		✓
1920 x 1080	✓		✓		✓	✓
1680 x 1056	✓		✓		✓	✓
1600 x 1200		✓		✓		✓
1440 x 912	✓		✓		✓	✓
1376 x 768	✓		✓		✓	✓
1280 x 1024		✓		✓	✓	✓
1280 x 960		✓		✓	✓	✓
1280 x 800	✓		✓		✓	✓
1280 x 720	✓		✓		✓	✓
1024 x 768		✓		✓	✓	✓
1024 x 576	✓		✓		✓	✓
800 x 600				✓ *4	✓ *4	✓ *4
800 x 480	✓		✓		✓	✓
768 x 576		✓ *5		✓ *6	✓	✓
720 x 576		✓ *5		✓ *6	✓	✓
720 x 480		✓ *5		✓ *6	✓	✓
704 x 576		✓ *5		✓ *6	✓	✓
640 x 480		✓ *5		✓ *6	✓	✓
640 x 368	✓		✓ *6		✓	✓
384 x 288		✓ *5		✓ *6	✓	✓
352 x 288		✓ *5				
320 x 240		✓ *5		✓ *6	✓	✓
320 x 192	✓		✓ *6		✓	✓
176 x 144		✓ *5				

Image Size (width x height)	SNC-EP580 /ER580 /ER585 /ER585H	SNC-CH115/CH120/CH135 /CH140/CH160/CH180 /DH120/DH120T /DH140/DH140T /DH160/DH180 /ZB550/ZM550/ZM551		SNC-CH110 /DH110/DH110T		SNC-EB520 /EM520 /EM521
*3	-	1280x720	1280x1024	16:9	4:3	
2048 x 1536						
1920 x 1440						
1920 x 1080	✓					
1680 x 1056	✓					
1600 x 1200						
1440 x 912	✓					
1376 x 768	✓					
1280 x 1024	✓		✓			
1280 x 960	✓		✓		✓	
1280 x 800	✓		✓			
1280 x 720	✓	✓	✓	✓		
1024 x 768	✓		✓		✓	
1024 x 576	✓	✓	✓	✓		
800 x 600	✓	✓ *4	✓ *4			✓
800 x 480	✓	✓	✓	✓		
768 x 576	✓	✓ *6	✓ *6		✓ *5	
720 x 576	✓	✓ *2 *6	✓ *2 *6		✓ *5	✓*6
720 x 480	✓	✓ *2 *6	✓ *2 *6		✓ *5	✓*6
704 x 576	✓	✓ *2 *6	✓ *2 *6		✓ *5	✓*6
640 x 480	✓	✓ *6	✓ *6		✓ *5	✓*6
640 x 368	✓	✓ *6	✓ *6	✓		
384 x 288	✓	✓ *6	✓ *6		✓ *5	
352 x 288					✓ *5	✓*6
320 x 240	✓	✓ *6	✓ *6		✓ *5	✓*6
320 x 192	✓	✓ *6	✓ *6	✓		
176 x 144					✓ *5	

Image Size (width x height)	**SNC-RH124/RH164 /EP550/ER550 /ZP550/ZR550**		**SNC-RS44N/RS46N /RS84N/RS86N /EP520/ER520**	**SNC-RS44P/RS46P /RS84P/RS86P /EP521/ER521**	**SNT-EP104/EP154 /EX101/EX101E /EX104/EX154**	
*3	**NTSC (30fps)**	**PAL (25fps)**	**-**	**-**	**NTSC**	**PAL**
2048 x 1536						
1920 x 1440						
1920 x 1080						
1680 x 1056						
1600 x 1200						
1440 x 912						
1376 x 768						
1280 x 1024						
1280 x 960						
1280 x 800						
1280 x 720	✓	✓				
1024 x 768						
1024 x 576	✓	✓				
800 x 600	✓ *4	✓ *4				
800 x 480	✓	✓				
768 x 576	✓	✓				
720 x 576	✓ *7	✓ *1		✓		✓
720 x 480	✓ *1	✓ *7	✓		✓	
704 x 576	✓ *1	✓ *1	✓ *1	✓ *1	✓ *1	✓ *1
640 x 480	✓	✓	✓	✓	✓	✓
640 x 368	✓	✓				
384 x 288	✓	✓	✓	✓	✓	✓
352 x 288						
320 x 240	✓	✓	✓	✓	✓	✓
320 x 192	✓	✓				
176 x 144						

12.2 AreaSet

Model	Settings	Maximum Size (width x height)	Range of AreaSet
SNC-CH110/DH110/110T	Aspect Ratio : 4:3	1280 x 960	1, 1, 1280, 960
	Aspect Ratio : 16:9	1280 x 720	1, 1, 1280, 720
SNC-CH115/CH120/CH135/CH140 /CH160/CH180/DH120/DH120T /DH140/DH140T/DH160/DH180 /ZB550/ZM550/ZM551	Maximum image size : 1280x1024	1280 x 1024	1,1,1280,1024
	Maximum image size : 1280x720	1280 x 720	1,1,1280,720
SNC-CH210/DH210/DH210T	Aspect Ratio : 4:3	1280 x 720	1, 1, 2480, 1536
	Aspect Ratio : 16:9	1280 x 720	1, 1, 1920, 1080
SNC-CH220/CH240/CH260/CH280 /DH220/DH220T/DH240/DH240T /DH260/DH280	Maximum image size : 1920x1440	1280 x 1024	1,1,1920,1440
	Maximum image size : 1920x1080	1280 x 1024	1,1,1920,1080
SNC-EP550/ER550/RH124/RH164 /ZP550/ZR550	-	1280 x 720	1,1,1280,720
SNC-EP580/ER580/ER585/ER585H	-	1280 x 720	1, 1, 1920, 1080

Minimum size is 256 x 96 (width x height).

12.3 FrameRate

Model	FrameRate
SNC-CH110/CH115/CH120/CH160/CH210 /DH110/DH110T/DH120/DH120T/DH160 /DH210/DH210T/EB520/EM520/EM521 /ZB550/ZM550/ZM551	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 25, 30
SNC-CH135/CH140/CH180/CH220/CH240/CH260 /CH280/DH140/DH140T/DH180/DH220 /DH220T/DH240/DH240T/DH260/DH280	1, 2, 3, 4, 5, 6, 8, 10, 12(*), 15, 16(*), 20, 25, 30 (*) It can use after the firmware Ver.1.26.
SNC-EP520/ER520	1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30
SNC-EP521/ER521	1, 2, 3, 4, 5, 6, 8, 12, 16, 20, 25
SNC-EP550/EP580/ER550/ER580/ER585/ER585H /ZP550/ZR550	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 25, 30 (30fps) 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 25, (25fps)
SNC-RH124/RH164	VideoOutMode ip : 1, 2, 3, 4, 5, 6, 8, 10, 12(*),15, 16(*),20, 25, 30 VideoOutMode NTSC : 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30 VideoOutMode PAL : 1, 2, 3, 4, 5, 6, 8, 12, 16, 20, 25 (*) It can use after the firmware Ver.1.30.
SNC-RS44N/RS46N/RS84N/RS86N	1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30
SNC-RS44P/RS46P/RS84P/RS86P	1, 2, 3, 4, 5, 6, 8, 12, 16, 20, 25

SNT-EP104/EP154/EX101/EX101E /EX104/EX154	NTSC signal : 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30 PAL signal : 1, 2, 3, 4, 5, 6, 8, 12, 16, 20, 25

12.4 ImageMaxSize

Model	Settings	ImageMaxSize
SNC-CH110/DH110/DH110T	Aspect Ratio : 4:3	1280x960
	Aspect Ratio : 16:9	1280x720
SNC-CH115/CH120/CH135/CH140 /CH160/CH180/DH120/DH120T /DH140/DH140T/DH160/DH180 /ZB550/ZM550/ZM551	Maximum image size : 1280x1024	1280x1024
	Maximum image size : 1280x720	1280x720
SNC-CH210/DH210/DH210T	Aspect Ratio : 4:3	2048x1536
	Aspect Ratio : 16:9	1920x1080
SNC-CH220/CH240/CH260/CH280 /DH220/DH220T/DH240/DH240T /DH260/DH280	Maximum image size : 1920x1440	1920x1440
	Maximum image size : 1920x1080	1920x1080
SNC-EP520/ER520	-	704x576
SNC-EP521/ER521	-	720x576
SNC-EP550/ER550/ZP550/ZR550	-	1280x720
SNC-EP580/ER580/ER585/ER585H	-	1920x1080
SNC-EB520/EM520/EM521	-	800x600
SNC-RH124/RH164	-	1280x720
SNC-RS44N/RS46N/RS84N/RS86N	-	720x480
SNC-RS44P/RS46P/RS84P/RS86P	-	720x576
SNT-EX101/EX101E/EX104/EX154	NTSC	720x480
	PAL	720x576

12.5 VidCapSize

Model	Settings	VidCapSize
SNC-CH110/DH110/DH110T	Aspect Ratio : 4:3	1280,960
	Aspect Ratio : 16:9	1280,720
SNC-CH115/CH120/CH135/CH140 /CH160/CH180/DH120/DH120T /DH140/DH140T/DH160/DH180 /ZB550/ZM550/ZM551	Maximum image size : 1280x1024	1280,1024
	Maximum image size : 1280x720	1280,720
SNC-CH210/DH210/DH210T	Aspect Ratio : 4:3	2048,1536
	Aspect Ratio : 16:9	1920,1080
SNC-CH220/CH240/CH260/CH280	Maximum image size : 1920x1440	1920,1440

/DH220/DH220T/DH240/DH240T /DH260/DH280	Maximum image size : 1920x1080	1920,1080

12.6 AutoSlowShutterMinSpeed

Model	AutoSlowShutterMinSpeed							Note
	1 s	1/2 s	1/4 s	1/8 s	1/15 s	1/30 s	1/60 s	
SNC-CH110/CH115/CH120/CH135 /CH140/CH160/CH180 /CH210/CH220/CH240 /CH260/CH280/DH110 /DH110T/DH120/DH120T /DH140/DH140T/DH160 /DH180/DH210/DH210T /DH220/DH220T/DH240 /DH240T/DH260/DH280 /EB520/EM520/EM521 /ZB550/ZM550/ZM551	0	1	2	3	4	5	-	1/30 sec, upper limit.
SNC-RH124/RH164	-	1	2	3	4	5	6	1/2 sec, lower limit.
SNC-EP521/EP520/EP550/EP580 /ER521/ER520/ER550/ER580 /ER585/ER585H /RS44N/RS44P/RS46N /RS46P/RS84N/RS84P /RS86N/RS86P /ZP550/ZR550	0	1	2	3	4	5	6	Only inquiry.

12.7 AgcMaxGain

Model	AgcMaxGain
SNC-CH110/DH110/DH110T	"0" to "4" (6, 12, 18, 24, 30dB)
SNC-CH115/CH120/CH160/CH210/ /DH120/DH120T/DH160 /EB520/EM520/EM521 /ZB550/ZM550/ZM551	"0" to "6" (6, 12, 18, 24, 30, 36, 42dB)
SNC-CH135/CH140/CH180/CH220 /CH240/CH260/CH280/DH140 /DH140T/DH180/DH220/DH220T /DH240/DH240T/DH260/DH280	"0" to "2"
SNC-CH210/DH210/DH210T	"0" to "5" (6, 12, 18, 24, 30, 38dB)

SNC-RH124/RH164	"7" (18dB)
SNC-EP521/EP520/EP550/EP580 /ER521/ER520/ER550/ER580 /ER585/ER585H /RS44N/RS44P/RS46N/RS46P /RS84N/RS84P/RS86N/RS86P /ZP550/ZR550	"15" (28dB)

12.8 Privacy Mask

Model	Number of privacy mask
SNC-CH110/CH210/DH110/DH110T/DH210/DH210T	0
SNC-CH115/CH120/CH135/CH140/CH160/CH180 /CH240/CH280/DH140/DH140T/ DH180 /DH240/DH240T/DH280/ZB550	8
SNC- EP520/EP521/EP550/EP580 /ER520/ER521/ER550/ER580/ER585/ER585H /ZP550/ZR550	8 （Ver. 1.53 or lower） 12（Ver. 1.70 or higher）
SNC-CH220/CH260/DH220/DH220T/DH260 /DH120/DH120T/DH160/ //EB520/EM520/EM521 /ZM550/ZM551	4
SNC-RH124/RH164	32
SNC-RS44N/RS44P/RS46N/RS46P /RS84N/RS84P/RS86N/RS86P	32
SNT-EP104/EP154	0
SNT-EX101/EX101E/EX104/EX154	8

Note) The SNC-CH115/CH120/160 and SNC-DH120/120T/160 came to be able to use privacy mask from firmware Ver. 1.30.

12.9 WBMode

Value	SNC-CH110/CH115/CH120 /CH135/CH140/CH160 /CH180/CH210/CH220 /CH240/CH260/CH280 /DH110/DH110T/DH120 /DH120T/DH140/DH140T /DH160/DH180/DH210 /DH210T/DH220/DH220T /DH240/DH240T /DH260/DH280 /EB520/EM520/EM521 /ZB550/ZM550/ZM551	SNC-EP520/EP521 /EP550/EP580 /ER520/ER521 /ER550/ER580 /ER585/ER585H /ZP550/ZR550	SNC-RH124 /RH164	SNC-RS44N/RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P
auto		✓	✓	✓
atw	✓	✓		✓
atwpro	✓			
indoor		✓	✓	✓
outdoor:		✓	✓	✓
fluorescent:	✓			
mercurylamp	✓			
sodiumlamp	✓	✓		
metalhalide	✓			
whiteled	✓			
onepushwb	✓	✓	✓	✓
manual	✓	✓	✓	✓

✓ : Available

12.10 Alarm In / Alarm Out

<AI> in the CGI command list is the number of Alarm In. <AO> is the number of Alarm Out. It is specified with an integer of the range that it is shown in the following table.

Model	<AI>	<AO>
SNC-RH124/RH164/RS44N/RS44P/RS46N/RS46P /RS84N/RS84P/RS86N/RS86P	1 - 4	1 - 2
SNC-CH135/CH140/CH180/CH240/CH280 /DH140/DH140T/DH180/DH240/DH240T/DH280	1	1 - 2
SNC-CH115/CH120/CH160/CH220/CH260/DH120T/DH160 /DH220T/DH260/EB520/EM521/ZB550/ZM551	1	1
SNC-CH110/CH210/DH110/DH110T/DH210/DH210T	1	-
SNC-DH120/DH220/EM520/ZM550	-	-

SNC-EP520/EP521/EP550/EP580 /ER520/ER521/ER550/ER580/ER585/ER585H /ZP550/ZR550	2	1
SNT-EX101/EX101E	1 - 2	1 - 2
SNT-EX104/EX154	1 - 4	1 - 4

12.11 View mode<mode>

bit	viewermode					function	description
	Full	PanTilt	Preset	Light	View		
0	1	1	1	1	1	-	Reserved.
1	1	1	1	1	1	Time	Display time.
2	1	1	1	1	1	Volume	Display volume.
3	1	1	1	1	0	View Size	Display viewer size button.
4	1	1	1	1	0	Capture	Display capture icon.
5	1	1	1	1	0	-	Reserved.
6	1	0	0	0	0	Frame rate	Display frame rate list box.
7	1	0	0	0	0	Trigger	Display trigger icon.
8	1	0	0	0	0	TCP/UDP	Display TCP/UDP select button.
9	1	1	0	0	0	Pan Tilt control	Display PanTiltControl icon.
10	1	1	1	0	0	Preset position	Display PresetPosition list box.
11	1	1	1	1	0	Codec select	Display codec select button.
12-29	-	-	-	-	-	-	Reserved.
30	0/1	0/1	0/1	0/1	0/1	Audio upload	Enable upload of an audio file.
31	0/1	0/1	0/1	0/1	0/1	FTP server	Enable FTP server.

12.12 The range of axis and the decision size of Object detection and VMF

Model	Settings	Range of axis	Decision size
SNC-CH110/DH110/DH110T	Aspect Ratio : 4:3	(0, 0) – (1279, 959)	20x30 - 1280x960
	Aspect Ratio : 16:9	(0, 0) – (1279, 719)	20x23 - 1280x720
SNC-CH115/CH120/CH135/CH140	Maximum image size : 1280x1024	(0, 0) - (1279, 1023)	16x16 - 1280x1024
/CH160/CH180/DH120/DH120T /DH140/DH140T/DH160/DH180 /ZB550/ZM550/ZM551	Maximum image size : 1280x720	(0, 0) - (1279, 719)	16x16 - 1280x720
SNC-CH210/DH210/DH210T	Aspect Ratio : 4:3	(0, 0) - (2047, 1535)	32x48 - 2048x1536
	Aspect Ratio : 16:9	(0, 0) - (1919, 1079)	30x34 - 1920x1080
SNC-CH220/CH240/CH260/CH280	Maximum image size : 1920x1440	(0, 0) - (1919, 1439)	24x24 -1920x1440
/DH220/DH220T/DH240/DH240T /DH260/DH280	Maximum image size : 1920x1080	(0, 0) - (1919, 1079)	24x24 - 1920x1080
SNC-EP520/ER520	-	(0, 0) - (719, 479)	15x15 - 720x480

SNC-EP521/ER521	-	(0, 0) - (719, 575)	12x18 - 720x576
SNC-EP550/ER550/ZP550/ZR550	-	(0, 0) - (1279, 719)	20x23 - 1280x720
SNC-EP580/ER580/ER585/ER585H	-	(0, 0) - (1919, 1079)	30x34 - 1920x1080
SNC-EB520/EM520/EM521	-	(0, 0) - (799, 599)	16x16 - 800x600
SNC-RH124/RH164	-	(0, 0) - (1279, 719)	16x16 - 1280x720
SNC-RS44N/RS46N/RS84N/RS86N		(0, 0) - (719, 479)	8x8 - 720x480
SNC-RS44P/RS46P/RS84P/RS86P		(0, 0) - (719, 575)	8x8 - 720x576
SNT-EX101/EX101E/EX104/EX154	NTSC	(0, 0) - (719, 479)	8x8 - 720x480
	PAL	(0, 0) - (719, 575)	8x8 - 720x576

12.13 Shutter Speed, Iris, Gain, ExpComp

SNC-RH124/RH164

Shutter Speed			Iris		Gain		ExpComp	
Value	NTSC(sec)	PAL(Sec)	Value	(F)	Value	(dB)	Value	(EV)
1	1/2	1/2	0	Close	0	-3.0	0	-1.75
2	1/4	1/3	1	26	1	0.0	1	-1.5
3	1/8	1/6	2	22	2	3.0	2	-1.25
4	1/15	1/12	3	19	3	6.0	3	-1
5	1/30	1/25	4	16	4	9.0	4	-0.75
6	1/60	1/50	5	14	5	12.0	5	-0.5
7	1/90	1/75	6	11	6	15.0	6	-0.25
8	1/100	1/100	7	9.6	7	18.0	7	0
9	1/125	1/125	8	8.0			8	+0.25
10	1/180	1/150	9	6.8			9	+0.5
11	1/250	1/215	10	5.6			10	+0.75
12	1/350	1/300	11	4.8			11	+1
13	1/500	1/425	12	4.0			12	+1.25
14	1/725	1/600	13	3.4			13	+1.5
15	1/1000	1/1000	14	2.8			14	+1.75
16	1/1500	1/1250	15	2.4				
17	1/2000	1/1750	16	2.0				
18	1/3000	1/2500	17	1.8				
19	1/4000	1/3500						
20	1/6000	1/6000						
21	1/10000	1/10000						

SNC-RS44N/RS44P/RS84N/RS84P

Shutter Speed			Iris		Gain		ExpComp	
Value	NTSC(sec)	PAL(Sec)	Value	(F)	Value	(dB)	Value	(EV)
0	1	1	0	Close	0	-3.0	0	-1.75
1	1/2	1/2	1	22	1	0.0	1	-1.5
2	1/4	1/3	2	19	2	2.0	2	-1.25
3	1/8	1/6	3	16	3	4.0	3	-1
4	1/15	1/12	4	14	4	6.0	4	-0.75
5	1/30	1/25	5	11	5	8.0	5	-0.5
6	1/60	1/50	6	9.6	6	10.0	6	-0.25
7	1/90	1/75	7	8.0	7	12.0	7	0
8	1/100	1/100	8	6.8	8	14.0	8	+0.25
9	1/125	1/125	9	5.6	9	16.0	9	+0.5
10	1/180	1/150	10	4.8	10	18.0	10	+0.75
11	1/250	1/215	11	4.0	11	20.0	11	+1
12	1/350	1/300	12	3.4	12	22.0	12	+1.25
13	1/500	1/425	13	2.8	13	24.0	13	+1.5
14	1/725	1/600	14	2.4	14	26.0	14	+1.75
15	1/1000	1/1000	15	2.0	15	28.0		
16	1/1500	1/1250	16	1.6				
17	1/2000	1/1750	17	1.4				
18	1/3000	1/2500						
19	1/4000	1/3500						
20	1/6000	1/6000						
21	1/10000	1/10000						

SNC-RS46N/RS46P/RS86N/RS86P

Shutter Speed			Iris		Gain		ExpComp	
Value	NTSC(sec)	PAL(Sec)	Value	(F)	Value	(dB)	Value	(EV)
0	1	1	0	Close	0	-3.0	0	-1.75
1	1/2	1/2	1	28	1	0.0	1	-1.5
2	1/4	1/3	2	22	2	2.0	2	-1.25
3	1/8	1/6	3	19	3	4.0	3	-1
4	1/15	1/12	4	16	4	6.0	4	-0.75
5	1/30	1/25	5	14	5	8.0	5	-0.5
6	1/60	1/50	6	11	6	10.0	6	-0.25
7	1/90	1/75	7	9.6	7	12.0	7	0
8	1/100	1/100	8	8.0	8	14.0	8	+0.25
9	1/125	1/125	9	6.8	9	16.0	9	+0.5
10	1/180	1/150	10	5.6	10	18.0	10	+0.75
11	1/250	1/215	11	4.8	11	20.0	11	+1
12	1/350	1/300	12	4.0	12	22.0	12	+1.25
13	1/500	1/425	13	3.4	13	24.0	13	+1.5
14	1/725	1/600	14	2.8	14	26.0	14	+1.75
15	1/1000	1/1000	15	2.4	15	28.0		
16	1/1500	1/1250	16	2.0				
17	1/2000	1/1750	17	1.6				
18	1/3000	1/2500						
19	1/4000	1/3500						
20	1/6000	1/6000						
21	1/10000	1/10000						

SNC-CH135/CH140/CH180/CH240/CH280/DH140/DH140T/DH180/DH240/DH240T/DH280

Shutter Speed		ExpComp	
Value	(sec)	Value	(EV)
0	1	0	-2.0
1	1/2	1	-1.6
2	1/4	2	-1.3
3	1/8	3	-1.0
4	1/15	4	-0.6
5	1/30	5	-0.3
6	1/50	6	0
7	1/60	7	+0.3
8	1/100	8	+0.6
9	1/250	9	+1.0
10	1/500	10	+1.3
11	1/1000	11	+1.6
12	1/2000	12	+2.0
13	1/4000		
14	1/10000		

SNC-CH115/CH120/CH160/CH210/CH220/CH260/DH120/DH120T/DH160/DH210/DH210T /DH220/DH220T/DH260/EB520/EM520/EM521/ZB550/ZM550/ZM551

Shutter Speed	
Value	(sec)
0	1
1	1/2
2	1/4
3	1/8
4	1/15
5	1/30
6	1/50
7	1/60
8	1/100
9	1/250
10	1/500
11	1/1000
12	1/2000
13	1/4000
14	1/10000

SNC-CH110/DH110/DH110T

Shutter Speed	
Value	**(sec)**
1	1/2
2	1/4
3	1/8
4	1/15
5	1/30
6	1/50
7	1/60
8	1/100
9	1/250
10	1/500
11	1/1000
12	1/2000
13	1/4000
14	1/10000

SNC-EP520/EP521/ER520/ER521

Shutter Speed			Iris		Gain	
Value	**NTSC(sec)**	**PAL(Sec)**	**Value**	**(F 値)**	**Value**	**(dB)**
0	1	1	0	Close	0	-3.0
1	1/2	1/2	1	28	1	0.0
2	1/4	1/3	2	22	2	2.0
3	1/8	1/6	3	19	3	4.0
4	1/15	1/12	4	16	4	6.0
5	1/30	1/25	5	14	5	8.0
6	1/60	1/50	6	11	6	10.0
7	1/90	1/75	7	9.6	7	12.0
8	1/100	1/100	8	8.0	8	14.0
9	1/125	1/120	9	6.8	9	16.0
10	1/180	1/150	10	5.6	10	18.0
11	1/250	1/215	11	4.8	11	20.0
12	1/350	1/300	12	4.0	12	22.0
13	1/500	1/425	13	3.4	13	24.0
14	1/725	1/600	14	2.8	14	26.0
15	1/1000	1/1000	15	2.4	15	28.0
16	1/1500	1/1250	16	2.0		

17	1/2000	1/1750	17	1.6		
18	1/3000	1/2500				
19	1/4000	1/3500				
20	1/6000	1/6000				
21	1/10000	1/10000				

SNC-EP550/ER550/ZP550/ZR550

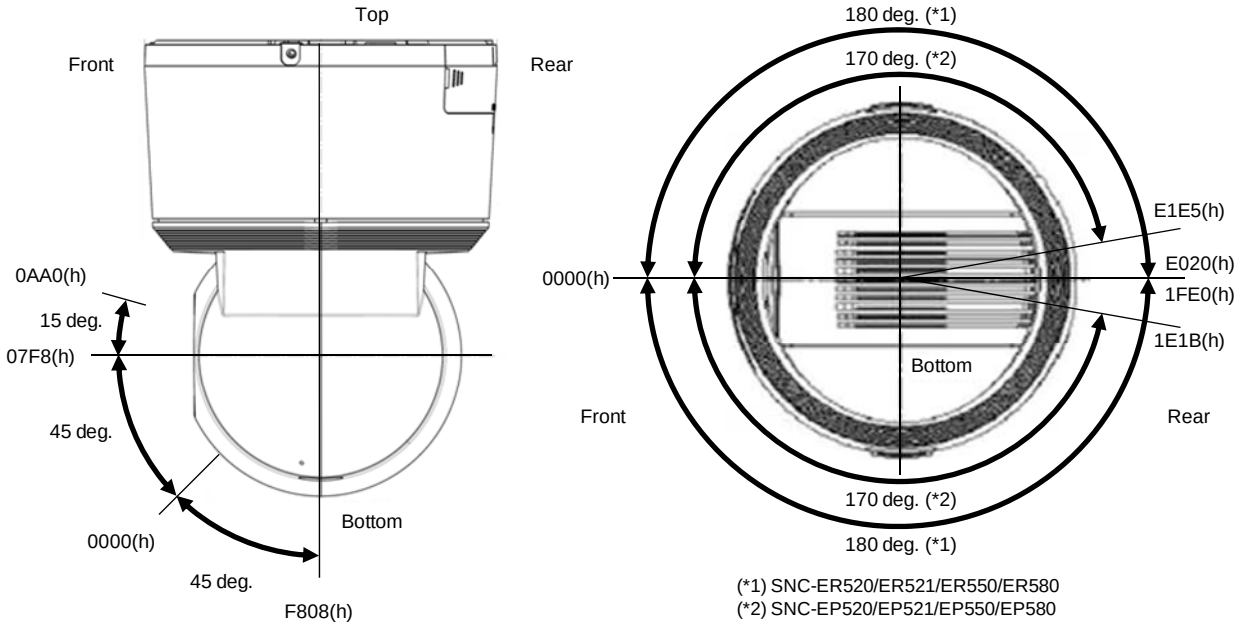
Shutter Speed			Iris		Gain	
Value	**30fps**	**25fps**	**Value**	**(F 値)**	**Value**	**(dB)**
0	1	1	0	Close	0	-3.0
1	1/2	1/2	1	-	1	0.0
2	1/4	1/3	2	-	2	2.0
3	1/8	1/6	3	16	3	4.0
4	1/15	1/12	4	14	4	6.0
5	1/30	1/25	5	11	5	8.0
6	1/60	1/50	6	9.6	6	10.0
7	1/90	1/75	7	8.0	7	12.0
8	1/100	1/100	8	6.8	8	14.0
9	1/125	1/125	9	5.6	9	16.0
10	1/180	1/150	10	4.8	10	18.0
11	1/250	1/215	11	4.0	11	20.0
12	1/350	1/300	12	3.4	12	22.0
13	1/500	1/425	13	2.8	13	24.0
14	1/725	1/600	14	2.4	14	26.0
15	1/1000	1/1000	15	2.0	15	28.0
16	1/1500	1/1250	16	1.6		
17	1/2000	1/1750	17	1.4		
18	1/3000	1/2500				
19	1/4000	1/3500				
20	1/6000	1/6000				
21	1/10000	1/10000				

Shutter Speed			Iris		Gain	
Value	30fps	25fps	Value	(F 值)	Value	(dB)
0	1	1	0	Close	0	-3.0
1	1/2	1/2	1	-	1	0.0
2	1/4	1/3	2	-	2	2.0
3	1/8	1/6	3	-	3	4.0
4	1/15	1/12	4	-	4	6.0
5	1/30	1/25	5	14	5	8.0
6	1/60	1/50	6	11	6	10.0
7	1/90	1/75	7	9.6	7	12.0
8	1/100	1/100	8	8.0	8	14.0
9	1/125	1/125	9	6.8	9	16.0
10	1/180	1/150	10	5.6	10	18.0
11	1/250	1/215	11	4.8	11	20.0
12	1/350	1/300	12	4.0	12	22.0
13	1/500	1/425	13	3.4	13	24.0
14	1/725	1/600	14	2.8	14	26.0
15	1/1000	1/1000	15	2.4	15	28.0
16	1/1500	1/1250	16	2.0		
17	1/2000	1/1750	17	1.6		
18	1/3000	1/2500				
19	1/4000	1/3500				
20	1/6000	1/6000				
21	1/10000	1/10000				

12.14 PanTilter

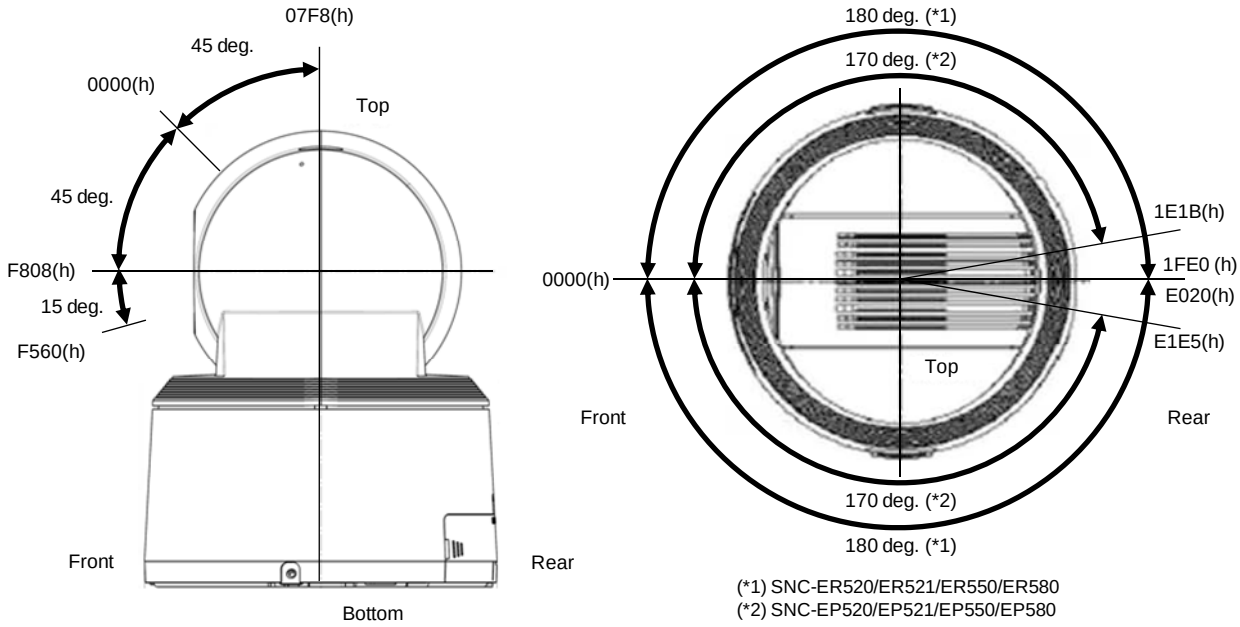
SNC-EP520/EP521/EP550/EP580/ER520/ER521/ER550/ER580/ER585/ER585H/ZP550/ZR550

Eflip off

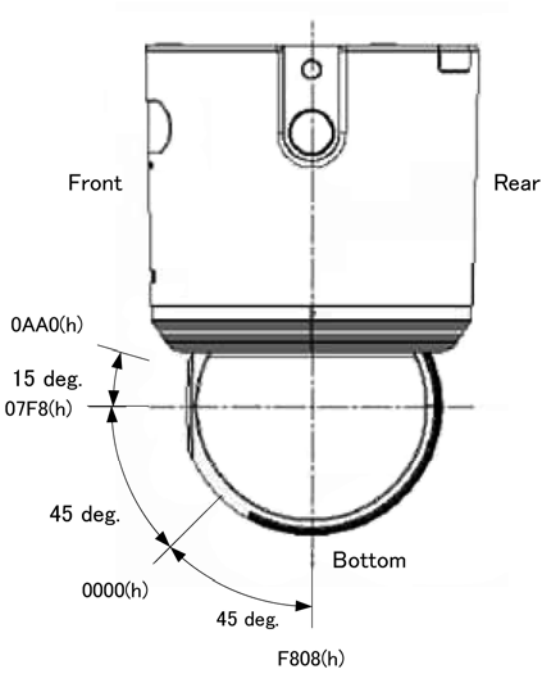


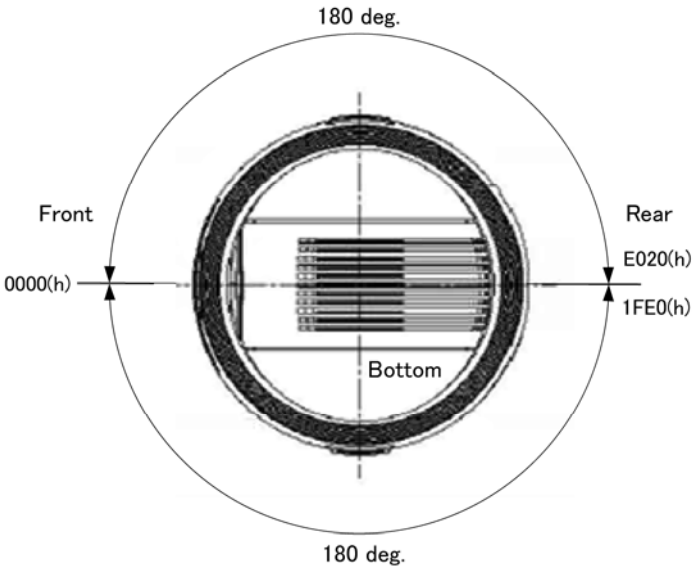
(*1) SNC-ER520/ER521/ER550/ER580
(*2) SNC-EP520/EP521/EP550/EP580

Eflip on



(*1) SNC-ER520/ER521/ER550/ER580
(*2) SNC-EP520/EP521/EP550/EP580


Front
Rear
0AA0(h)
15 deg.
07F8(h)
45 deg.
Bottom
0000(h)
45 deg.
F808(h)


180 deg.
Front
Rear
0000(h)
E020(h)
1FE0(h)
Bottom
180 deg.

12.15 PanMovementRange / TiltMovementRange / ZoomMovementRange

Model	Settings	Pan Movement Range	Tilt Movement Range	Zoom Movement Range
SNC-CH110/DH110 /DH110T	-	“FE55” to ”01AB”	“FEC0” to “0140”	“0064”,”012C”,”012C”
SNC-CH115/CH120 /CH160/DH120 /DH120T/DH160 /ZB550 /ZM550/ZM551	Max. image size :1280x1024	"FE55" to "01AB"	"FEAB" to "0155"	"0064","012C","012C"
	Max. image size :1280x720		"FF10" to "00F0"	
SNC-CH220/CH260 /DH220/DH220T /DH260	Max. image size :1920x1440	“FD80” to “0280”	“FE20” to “01E0”	"0064","012C","012C"
	Max. image size :1920x1080		“FE98” to “0168”	
SNC-CH210 /DH210/DH210T V1.1	Aspect Ratio : 4:3	"FD90" to "0270"	"FE2C" to "01D4"	"0064","0100","0100"
SNC-CH210 /DH210/DH210T V1.2	Aspect Ratio : 4:3	“FD55”to “02AB”	“FE00” to “0200”	"0064","012C","012C"
SNC-CH135/CH140 /CH180 /DH140/DH140T	Max. image size :1280x1024	"FE20" to "01E0"	"FE80" to "0180"	"0064","0190","0190"
	Max. image size :1280x720		"FEF2" to "010E"	
SNC-CH240/CH280 /DH240/DH240T /DH280	Max. image size :1920x1440	"FD30" to "02D0"	"FDE4" to "021C"	"0064","0190","0190"
	Max. image size :1920x1080		"FE6B" to "0195"	
SNC-EP520/EP521	-	E1E5～1E1B	"F808" to "0AA0" （eflip off） "F560" to "07F8" (eflip on)	optical tele end : "4000" digital tele end : "7AC0"
SNC-EP550/ZP550	-	E1E5～1E1B	"F808" to "0AA0" （eflip off） "F560" to "07F8" (eflip on)	optical tele end : "4000" digital tele end : "7AC0"
SNC-EP580	-	E1E5～1E1B	"F808" to "0AA0" （eflip off） "F560" to "07F8" (eflip on)	optical tele end : "4000" digital tele end : "7AC0"

SNC-ER520/ER521	-	E020 ～ 1FE0	"E570" to "0AA0" （eflip off） "F560" to "1A90" (eflip on)	optical tele end : "4000" digital tele end : "7AC0"
SNC-ER550/ZR550	-	E020 ～ 1FE0	"E570" to "0AA0" (eflip off) "F560" to "1A90" (eflip on)	optical tele end : "4000" digital tele end : "7AC0"
SNC-ER580 /ER585/ER585H	-	E020 ～ 1FE0	"E570" to "0AA0" (eflip off) "F560" to "1A90" (eflip on)	optical tele end : "4000" digital tele end : "7AC0"
SNC-EB520/EM520 /EM521	-	"FE55" to "01AB"	"FEAB" to "0155"	"0064","012C","012C"
SNC-RH124/RH164	-	"E020" to "1FE0"	"E570" to "0AA0"	optical tele end : "4000" digital tele end : "8C40"
SNC-RS44N /RS44P /RS46N/RS46P /RS84N/RS84P /RS86N/RS86P	-	"E020" to "1FE0"	"E570" to "0AA0"	optical tele end : "4000" digital tele end : "7AC0"

12.16 Schedule

<Syntax>

xxSchedule=[Sun],[StartTime],[EndTime],[Mon],[StartTime],[EndTime],[Tue],[StartTime],[EndTime],[Wed],[StartTime],[End Time],[Thu],[StartTime],[EndTime], [Fri],[StartTime],[EndTime],[Sat],[StartTime],[EndTime]

<Example>

Set “on” 9:00-17:30 from Monday to Friday

xxSchedule=0,0900,1730,1,0900,1730,1,0900,1730,1,0900,1730,1,0900,1730,1,0900,1730,0,0900,1730

12.17 Zoom ratio and Zoom position（expected value）

SNC-EP520/EP521/ER520/ER521

Value (Optical Zoom Position Data)	Zoom Ratio	Value (Digital Zoom Position Data)	Digital Zoom Ratio
0000	x1	4000	x1
166F	x2	6000	x2
1FF0	x3	6A80	x3
257D	x4	7000	x4
2940	x5	7300	x5
2C02	x6	7540	x6
2E2B	x7	76C0	x7
2FEE	x8	7800	x8
316A	x9	78C0	x9
32B2	x10	7980	x10
33D4	x11	7A00	x11
34D9	x12	7AC0	x12
35C8	x13		
36A4	x14		
3773	x15		
3836	x16		
38F0	x17		
39A0	x18		
3A49	x19		
3AE8	x20		
3B7F	x21		
3C0C	x22		
3C8E	x23		
3D06	x24		
3D73	x25		
3DD4	x26		
3E2C	x27		
3E7C	x28		
3EC2	x29		
3F00	x30		
3F38	x31		
3F68	x32		
3F94	x33		
3FBD	x34		

3FDF	x35		
4000	x36		

SNC-EP550/ER550/ZP550/ZR550

Value (Optical Zoom Position Data)	Zoom Ratio	Value (Digital Zoom Position Data)	Digital Zoom Ratio
0000	x1.00	4000	x1
15C0	x2.00	6000	x2
1F80	x3.01	6A80	x3
2540	x4.02	7000	x4
2940	x5.04	7300	x5
2C40	x6.05	7540	x6
2E80	x6.99	76C0	x7
3080	x7.98	7800	x8
3240	x8.99	78C0	x9
33C0	x9.88	7980	x10
3540	x11.07	7A00	x11
3680	x12.07	7AC0	x12
3780	x12.93		
38C0	x14.09		
39C0	x15.11		
3A80	x15.94		
3B80	x17.16		
3C00	x17.83		
3CC0	x18.96		
3D40	x19.80		
3E00	x21.29		
3E40	x21.85		
3EC0	x23.15		
3F00	x23.89		
3F40	x24.72		
3F80	x25.66		

3FC0	x26.74		
4000	x28		

SNC-EP580/ER580

Value (Optical Zoom Position Data)	Zoom Ratio	Value (Digital Zoom Position Data)	Digital Zoom Ratio
0000	x1	4000	x1
1851	x2	6000	x2
22BE	x3	6A80	x3
28F6	x4	7000	x4
2D45	x5	7300	x5
3086	x6	7540	x6
3320	x7	76C0	x7
3549	x8	7800	x8
371E	x9	78C0	x9
38B3	x10	7980	x10
3A12	x11	7A00	x11
3B42	x12	7AC0	x12
3C47	x13		
3D25	x14		
3DDF	x15		
3E7B	x16		
3EFB	x17		
3F64	x18		
3FBA	x19		
4000	X20		

SNC-ER585/ER585H

Value (Optical Zoom Position Data)	Zoom Ratio	Value (Digital Zoom Position Data)	Digital Zoom Ratio

0000	x1	4000	x1
16A1	x2	6000	x2
2063	x3	6A80	x3
2628	x4	7000	x4
2A1D	x5	7300	x5
2D13	x6	7540	x6
2F6D	x7	76C0	x7
3161	x8	7800	x8
330D	x9	78C0	x9
3486	x10	7980	x10
35D7	x11	7A00	x11
3709	x12	7AC0	x12
3820	x13		
3920	x14		
3A0A	x15		
3ADD	x16		
3B9C	x17		
3C46	x18		
3CDC	x19		
3D60	x20		
3DD4	x21		
3E39	x22		
3E90	x23		
3EDC	x24		
3F1E	x25		
3F57	x16		
3F8A	x27		
3FB6	x28		
3FDC	x29		
4000	x20		

SNC-RH124/RH164

Value (Optical Zoom Position Data)	Zoom Ratio	Value (Digital Zoom Position Data)	Digital Zoom Ratio
0000	x 1	4000	x 1
0800	x 1.2	5bc0	x 1.5
1000	x 1.5	69c0	x 2
1800	x 1.9	7e80	x 4
2000	x 2.5	8900	x 8
2800	x 3.4	8c40	x 12
3000	x 4.8		
3800	x 6.8		
4000	x 10.1		

SNC-RS44N/RS44P/RS84N/RS84P

Value (Optical Zoom Position Data)	Zoom Ratio	Value (Digital Zoom Position Data)	Digital Zoom Ratio
0000	x 1	4000	x 1
1606	x 2	6000	x 2
2151	x 3	6A80	x 3
2860	x 4	7000	x 4
2CB5	x 5	7340	x 5
3060	x 6	7540	x 6
32D3	x 7	76C0	x 7
3545	x 8	7800	x 8
3727	x 9	7900	x 9
38A9	x 10	7980	x 10
3A42	x 11	7A40	x 11
3B4B	x 12	7AC0	x 12
3C85	x 13		
3D75	x 14		
3E4E	x 15		
3EF7	x 16		
3FA0	x 17		
4000	x 18		

Value (Optical Zoom Position Data)	Zoom Ratio	Value (Digital Zoom Position Data)	Digital Zoom Ratio
0000	x 1	4000	x 1
166F	x 2	6000	x 2
1FF0	x 3	6A80	x 3
257D	x 4	7000	x 4
2940	x 5	7300	x 5
2C02	x 6	7540	x 6
2E2B	x 7	76C0	x 7
2FEE	x 8	7800	x 8
316A	x 9	78C0	x 9
32B2	x 10	7980	x 10
33D4	x 11	7A00	x 11
34D9	x 12	7AC0	x 12
35C8	x 13		
36A4	x 14		
3773	x 15		
3836	x 16		
38F0	x 17		
39A0	x 18		
3A49	x 19		
3AE8	x 20		
3B7F	x 21		
3C0C	x 22		
3C8E	x 23		
3D06	x 24		
3D73	x 25		
3DD4	x 26		
3E2C	x 27		
3E7C	x 28		
3E2C	x 29		
3F00	x 30		
3F38	x 31		
3F68	x 32		
3F94	x 33		
3FBD	x 34		
3FDF	x 35		
4000	x 36		

12.18 Focus（expected value）

SNC-EP520/EP521/ER520/ER521

Focus Position	1000 ～ C000 Far end Near end	
Focus Near Limit	1000：Over Inf 2000：20m 3000：10m 4000：5m 5000：3m 6000：2m 7000：1.5m 8000：32cm 9000：9.5cm A000：4.5cm B000：2cm C000：1cm	Left listed value may be shifted by thermal conditions. Lower 1 digits is fixed with “00”.

SNC-EP550/ER550/ZP550/ZR550

Focus Position	1000 ～ C000 Far end Near end	
Focus Near Limit	1000：Over Inf 2000：12 m 3000：5.6 m 4000：4 m 5000：2.7 m 6000：2 m 7000：1.5 m 8000：80 cm 9000：30 cm A000：19 cm B000：9 cm C000：1 cm	Left listed value may be shifted by thermal conditions. Lower 1 digits is fixed with “00”.

SNC-EP580/ER580

Focus Position	1000 ～ C000 Far end Near end	
Focus Near Limit	1000 : Over Inf 2000 : 25 m 3000 : 11 m 4000 : 7 m 5000 : 4.9 m 6000 : 3.7 m 7000 : 2.9 m 8000 : 2.3 m 9000 : 1.85 m A000 : 1.5 m B000 : 1.23 m C000 : 1 m D000 : 30 cm E000 : 8 cm F000 : 1 cm	Left listed value may be shifted by thermal conditions. Lower 1 digits is fixed with “00”.

SNC-ER585/ER585H

Focus Position	1000 ～ C000 Far end Near end	
Focus Near Limit	1000 : Over Inf 2000 : 20 m 3000 : 10 m 4000 : 6 m 5000 : 4.2 m 6000 : 3.1 m 7000 : 2.5 m 8000 : 2 m 9000 : 1.65 m A000 : 1.4 m B000 : 1.2 m C000 : 80 cm D000 : 30 cm E000 : 11 cm F000 : 1 cm	Left listed value may be shifted by thermal conditions. Lower 1 digits is fixed with “00”.

Focus Position	1000 ～ C000 Far end Near end	
Focus Near Limit	1000 : Over Inf 2000 : 4.5m 3000 : 2.0m 4000 : 1.2m 5000 : 80cm 6000 : 45cm 7000 : 38cm 8000 : 15cm 9000 : 7.0cm A000 : 3.8cm B000 : 2.1cm C000 : 1.0cm	Left listed value may be shifted by thermal conditions. Lower 1 digits is fixed with “00”.

SNC-RS44N/RS44P/RS84N/RS84P

Focus Position	1000 ～ C000 Far end Near end	
Focus Near Limit	1000 : Over Inf 2000 : 8.0m 3000 : 3.5m 4000 : 2.0m 5000 : 1.4cm 6000 : 1m 7000 : 80cm 8000 : 29cm 9000 : 10cm A000 : 4.7cm B000 : 2.3cm C000 : 1.0cm	Left listed value may be shifted by thermal conditions. Lower 1 digits is fixed with “00”.

SNC-RS46N/RS46P/RS86N/RS86P

Focus Position	1000 ～ C000 Far end Near end	
Focus Near Limit	1000 : Over Inf 2000 : 20m 3000 : 10m 4000 : 5m 5000 : 3cm 6000 : 2m 7000 : 1.5m 8000 : 32cm 9000 : 9.5cm A000 : 4.5cm B000 : 2cm C000 : 1cm	Left listed value may be shifted by thermal conditions. Lower 1 digits is fixed with “00”.

12.19 Max zoom speed（expected value）

SNC-EP550/ER550/ZP550/ZR550

Speed	00 ～ FF	
MaxZoomSpeed	00：2.6sec 44：4.0sec 37：4.7sec 34.5：5.0sec 20.7：7.0sec	Left listed value may be shifted by thermal conditions.

Revision history

Version	Date	Comment
0.9	Jun.17,2009	Provisional edition
0.91	Jul.17,2009	Provisional edition
0.92	Aug.21,2009	Provisional edition
1.00	Sep.17,2009	Added command of motion video request commands Some parameter addition and the change of the value.
1.10	Nov.17,2009	The CGI command of SNC-CH140/DH140 is added.
1.11	Nov.20,2009	The example of "10. Information request command" is modified.
1.12	Jan.8,2010	The CGI command of SNC-CH180/DH180 is added. Description was added to Appendix.
1.2	Feb.26,2010	The CGI command of SNC-CH240/DH240 is added.
1.21	Apr.09,2010	The CGI command of EdgeStorage is added.
1.22	Apr.20,2010	The CGI command EdgeStorageFunc of the EdgeStorage category is changed to EdgeStorage.
1.3	May.31,2010	The CGI command of SNC-CH120/CH210/DH120/DH120T is added.
1.31	Jun.15,2010	The CGI command DynamicRangeCompressor is added.
1.4	Jul. 28,2010	SNC-CH160/DH160 is added.
1.5	Aug.26,2010	SNC-CH220/DH220/DH220T are added. The note of ODPre<XXX>Win<YY>Area is modified.
1.6	Sep. 10, 2010	SNC-CH260/CH280/DH260/DH280 is added.
1.7	Oct. 15, 2010	SNC-CH110/DH210/DH210T is added.
1.8	Nov. 15, 2010	SNC-DH110/DH110T is added. It corresponded to firmware version 1.3.
1.9	May. 16, 2011	It corresponded to firmware version 1.33.
2.00	Jul. 26, 2011	SNC-EP520/EP521/EP550/EP580/ER520/ER521/ER550/ER580 is added.
2.01	Aug. 9, 2011	The table of image size collected.
2.02	Nov.10.2011	・ConnectionList (inquiry) is added. ・SNC-EB520/EM520/EM521 is added.
2.03	Jan 20, 2012	・The notes on unicast, multicast and RTSP port number setting commands are updated. ・The RTPMJPEGOffset command is added.

2.04	Jul.12,2012	・SNC-ZB550/ZM550/ZM551/ZP550/ZR550 is added. ・Some typos are corrected. ・The following CGI commands are added: IPoCFunc, McAddress<codec>, McAudioAddress,HighSensitivity, VidCapFps, PelcoDZoomSpeed, AccessControlOriginHeader, NetworkType
2.05	Oct.5,2012	・The following CGI commands for SNC-EP550/ER550/ZP550/ZR550 are added: FocusNearLimit, MaxZoomSpeed ・Some values regarding focus and zoom are corrected. ・Some descriptions are revised because SNC-CH115 and SNC-135 have come to support the functions such as motion detection.
2.06	Jan.18, 2013	SNC-ER585/ER585H are added.