

SONY®

SNC-RX550
CGI command manual

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About this manual

This document describes CGI command usage of SONY Network Camera SNC-RX550N/P. The SNC-RX550N/P has the following kinds of CGI commands which are listed below.

- 1) Motion video request commands
These are to be used to get motion video (Motion JPEG or MPEG4 video or H.264) or some are to be used for a session initiation for acquiring MPEG4 or H.264 data.
- 2) Audio data request commands
These are to be used to get audio data from the SNC-RX550N/P or some are to be used for a session initiation for acquiring audio data.
- 3) Audio output request command
This is to be used to upload audio encoded data to the SNC-RX550N/P 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 SNC-RX550N/P.
- 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 (5).
- 7) Visca command via CGI
These are to be used for issuing a visca command via CGI.
- 8) Control commands for Panning, Tilting, Zooming and Focusing
These are to be used for Pan, Tilt, Zoom and Focus.
- 9) Configuration command for motion detection or unattended detection
These are to be used for configuring motion detection or unattended detection.

In this document, the usage of CGI commands such as "method", "syntax", and several examples are explained below.

1. Motion video request commands

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

/image --- In accordance with video mode setting in the SNC-RX550N/P, MPEG4 bitstream, H.264 or Motion JPEG bitstream will be acquired.

/mpeg4 -- Indicates that the client application specifies to acquire MPEG4 bitstream. 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 bitstream. 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 bistream. When the video mode is set to mpeg4 or h264, the command response will be "400 error".

Acquiring MPEG4 or H.264 bitstream

In terms of MPEG4 or H.264 bitstream, the SNC-RX550N/P can send them in the form of "HTTP bistream", "RTP(UDP) bitstream (unicast)" or "RTP(UDP) bitstream (multicast)". The followings are some explanation how the acquiring sequence will be.

[HTTP bistream]

The following data shows the way to acquire the HTTP. When simply putting "GET /image...", "GET /mpeg4..." or "GET /h264...", the SNC-RX550N/P will send the MPEG4 or H.264 raw data as its response.

GET /image HTTP/1.0\r\n	}	MPEG4 video request from a client application
User-Agent: xxxx\r\n		
Host: 192.168.0.200\r\n		
Accept: */*\r\n		
Connection: Keep-Alive\r\n\r\n		
HTTP/1.0 200 OK\r\n	}	The response of SNC-RX550N/P which includes MPEG4 bitstream
Content-Type: video/mpeg\r\n		
Cache-Control: no-cache\r\n		
Pragma: no-cache\r\n\r\n		
<MPEG4 data>		
.		
.		
.		

Content-Type

"Content-Type :" header will be set to "video/mpeg" when the video mode of the camera is MPEG4 mode.

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

<MPEG4 data>

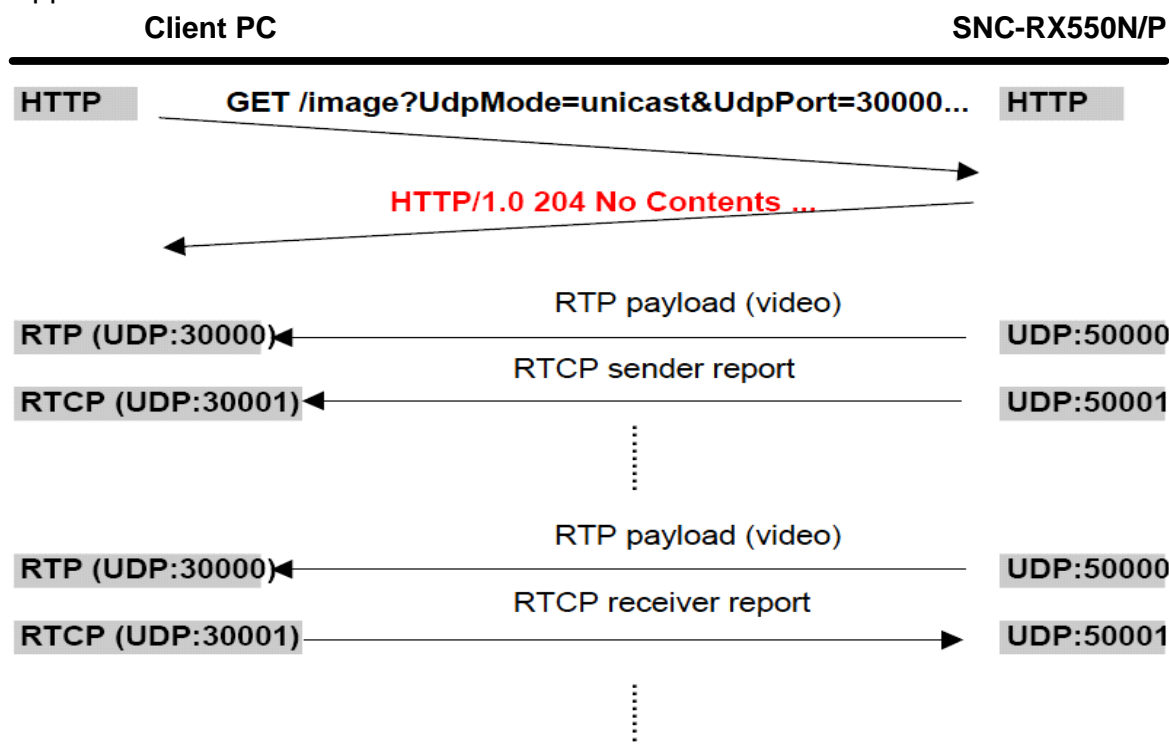
<MPEG4 data> is based on the standard of MPEG4 and is in the form of raw data. And the <MPEG4 data> includes so-called "user data" in each picture frame so that SNC-RX550N/P viewer can utilize it.

[RTP(UDP) bitstream (unicast)]

You can get MPEG4 (or H.264) bitstream 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 bitstream (unicast) will be acquired by a client application.



In terms of acquiring RTP bitstream (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 MPEG4 RTP bitstream, 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 bitstream if it fails to receive RTCP receiver report from the client side for consecutive 60 seconds.

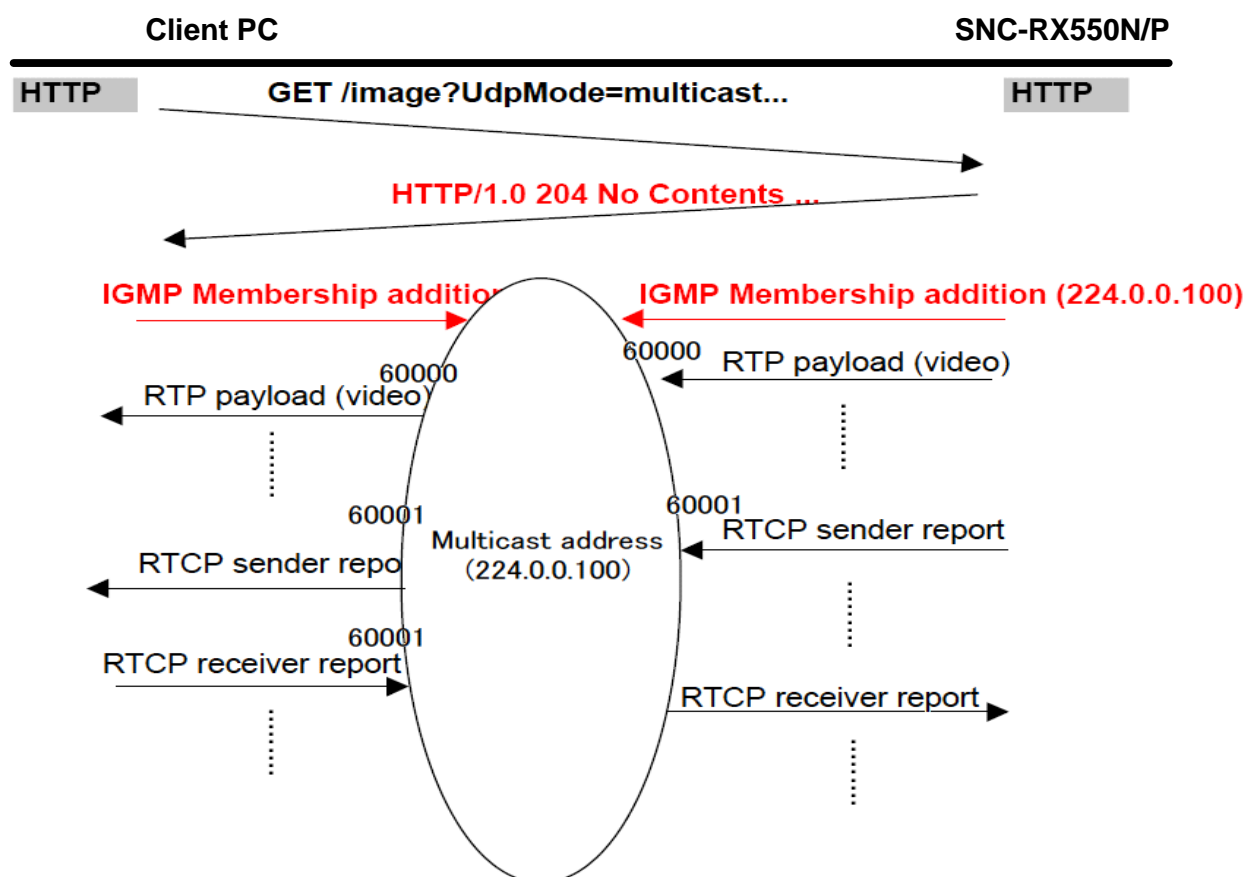
[RTP(UDP) bitstream (multicast)]

In terms of multicast RTP bitstream, acquiring sequence is different from the unicast one. In order to activate multicast bitstream, getting information of the multicast settings in the

camera is needed prior to starting the sequence. You can get such kind of information by using "/command/inquiry.cgi?inq=camera" inquiry.

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

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



Acquiring JPEG bitstream

In terms of motion JPEG bitstream, only the HTTP bitstream form is supported. The motion JPEG bitstream can be acquired by sending "/image" or "/mjpeg" command, only when the video mode of the camera is set to JPEG. The motion JPEG bitstream 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 bitstream.

[Motion JPEG bitstream]

<Method>

GET

<Syntax>

```
http://ip_addr/image[?speed=<value>]
http://ip_addr/image[?interval=<value>]
http://ip_addr/mjpeg[?speed=<value>]
http://ip_addr/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" and "interval" parameters. Setting both "speed" and "interval" parameters is not allowed.

interval=<value>

The range of setting parameter is "SNC-RX550N : from 33 to 3600000, SNC-RX550P : from 40 to 3600000" and 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: NTSC(SNC-RX550N)

effective	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

The effective value of speed parameter:PAL(SNC-RX550P)

effective	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
12	12 frame/sec
16	16 frame/sec
20	20 frame/sec
25	25 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
```

<Example>

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 bitstream.

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

```

[Motion JPEG bitstream + Audio bitstream request]

When the video mode of the camera is set to JPEG, the client application can get audio data as well with the motion JPEG bitstream. In this case both motion JPEG and audio bitstream will be multiplexed in one TCP session.

<Method>
GET
<Syntax>

```

http://ip\_addr/image?audioin=on\[&speed=<value>\]
http://ip\_addr/image?audioin=on\[&interval=<value>\]
http://ip\_addr/mjpeg?audioin=on\[&speed=<value>\]
http://ip\_addr/mjpeg?audioin=on\[&interval=<value>\]

```

Response data

The output format of the motion JPEG bitstream and audio bitstream is the "Server-push". The bitstream 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 video chunk.

Content-Type: audio/PCMU	} Indicates that is the audio chunk	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)

CamTim header

Stands for the date and time the JPEG 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 bitstream and audio bitstream

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

2. Audio data request command

In terms of audio bitstream, the SNC-RX550N/P can also send it in the form of "HTTP bitstream", "RTP(UDP) bitstream (unicast)" or "RTP(UDP) bitstream (multicast)" like MPEG4 bitstream. You can refer to the "Acquiring MPEG4 bitstream" for the details of its sequence.

[HTTPbitstream]

The following example of response data shows how the HTTP bitstream 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 bitstream (unicast)]

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

[RTP bitstream (multicast)]

In terms of acquiring audio RTP bitstream (multicast), putting UdpMode=multicast parameter is required when it is requested via HTTP. In order to activate audio multicast bitstream, 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 bitstream.
McAudioPort	---	Shows multicast audio port which is used for multicast bitstream.

3. Audio output request command

This request is 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 show that a client application send 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>  
.  
.  
.
```

4. Still image request

/oneshotimage.jpg

Acquire 1 data segment of JPEG file as a still image. This command returns a latest JPEG file on the camera. Image size, image quality, color reproduction setting and exposure setting become the same as the motion image. H.264 streaming is paused during the camera creating a JPEG file.

<Method>
GET

<Syntax>

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

<Example>

A still image request

```
GET /oneshotimage.jpg HTTP/1.1\r\nHost: 192.168.1.1
```

Response data

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

JPEG request

Acquire 1 still image whatever the setting about motion JPEG is. This command can create another video size from that of motion JPEG. Image quality, color reproduction setting and exposure setting become the same as the motion image. H.264 streaming is paused during the camera creating a JPEG file. This request consists of the following commands.

<Method>
GET

<Syntax>

```
http://ip_adr/jpeg/imagesize.jpg  
http://ip_adr/jpeg/vga.jpg  
http://ip_adr/jpeg/qvga.jpg  
http://ip_adr/jpeg/qqvga.jpg  
http://ip_adr/jpeg/qvga-mobile.jpg  
http://ip_adr/jpeg/qqvga-mobile.jpg
```

/jpeg/imagesize.jpg	---	Image size of the acquired image is the current setting.
/jpeg/vga.jpg	---	Image size is "VGA" size.

/jpeg/qvga.jpg	---	Image size is "QVGA" size.
/jpeg/qqvga.jpg	---	Image size is "QQVGA" size.
/jpeg/qvga-mobile.jpg	---	Image size will be "QVGA" size and its quality is worse than that of "/jpeg/qvga.jpg" request.
/jpeg/qqvga-mobile.jp	---	Image size will be "QQVGA" size and its quality is worse than that of "/jpeg/qvga.jpg" request.

5. Setting commands of camera parameters

Set various settings for the SNC-RX550N/P. 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 (***.cgi). 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 "SNC-RX550N/P command list"

6. Inquiry commands of camera parameters

These are to be used to inquire current status for the SNC-RX550N/P. The item which has an "inq" attribute in the "SNC-RX550N/P command 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>&inq=<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 "SNC-RX550N/P command list" with the item which has an "inq" attribute.

7. Visca comnad via CGI

SNC-RX550N/P has a pan-tilt controller and a camera module internally. These internal modules can be controlled by visca commands via CGI directly. Refer to “**Camera paramter setting command list for SNC-RX550**” and following the syntax explained below.

<Method>

GET / POST

<Syntax>

```
http://ip_adr/command/visca-gen.cgi?visca=<viscacommand>
```

<Parametes>

Refer to “**Camera parameter setting command list for SNC-RX550**”

<Example>

Set “White Balance Mode” as "Auto"

```
POST /command/visca-gen.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: 18\r\n
\r\n
```

VISCA=8101043500FF

The response of the visca command via CGI.

HTTP/1.1 204 No Content\r\n
Content-Length: 0\r\n
Server: NetEVI/X.XX
\r\n

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 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.

<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, Zoom and Focus by using the relative parameter. The difference between this parameter and “visca” parameter of relative position assignment is the presense 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 down 01	Lower 02	Lower right 03

Figure 8.1-1 relative parameter “aa”

Zoom position WIDE -> 10 TELE -> 11

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 degree of Pan and Zoom displacement is shown in Table 2.

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% of the current video size.

```
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: NetEVI/X.XX
\r\n
```

8.2. AreaZoom parameter (syntax : AreaZoom=x,y,w,h)

It is possible to make the Pan and Tilt displacement of the SNC-RX550N/P 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". The SNC-RX550N/P will shot the dashed line area after the command set.

- *1) 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.
- *2) When current zoom position is optical tele area, the zooming action is limited

to optical zoom maximum. If the “AreaZoom” operation is made on condition that the zoom position is set to optical maximum, the digital zoom action will be made according to the Zoom mode.

- *3) When $w=0$ and $h=0$ are set in the AreaZoom parameter, no zoom operation is made but the Pan and Tilt operation.

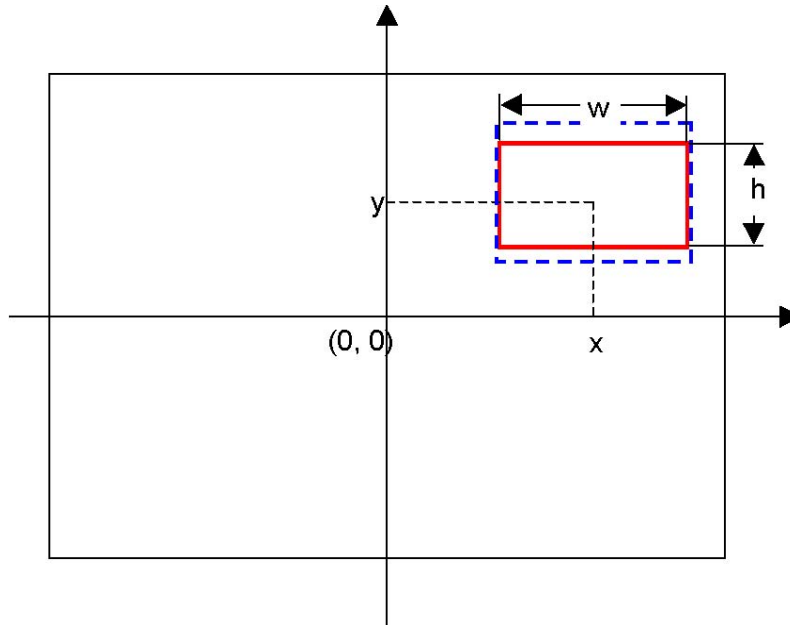


figure 8.2-1 AreaZoom

9. Configuration command for motion detection or unattended detection

These are to be used for configuring motion detection or unattended detection. You can select either motion detection or unattended detection at each preset position. Common configuration terms shared among all preset positions are described in 9.1. Configuration terms for each preset position are described in 9.2. Information of detection is described in 9.3. Getting video using for the detection is described in 9.4. Inquiring the configuration is described in 9.5.

9.1. Configuration terms shared among all preset position

This section describes configuration terms shared among all preset position. “Detection time”, “Alarm interval” and “PTZ position” are configured in this section. 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 "SNC-RX550N/P command 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
AlarmInterval=013000
```

<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: Boa/0.94.14rc21\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. Configuration terms for each preset position

These terms, "Detection", "Window", "Threshold" and etc, are set for each preset position. These terms effect only in a preset position. These terms need prefix "Od**" so that the camera can associate them to a preset position.

<Method>

GET / POST

<Syntax>

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

<Parameters>

Refer to "SNC-RX550N/P command list"

<Example>

Set "Detection" for preset position 4 with "Motion Detection".

```
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: 12\r\n
```

```
\r\n
```

<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: Boa/0.94.14rc21\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
```

9.3. Information of detection

There are commands which retrieve information of detected objects when detection is running.

Motion detection: mddata.cgi

Unattended detection: uddata.cgi

<Method>

GET

<Syntax>

```
http://ip\_adr/command/mddata.cgi
```

<Example>

```
GET /command/mddata.cgi HTTP/1.1\r\n
Host: 192.168.1.1
```

Response data

The output format of information of detected objects is the "Server-push". The boundary string is inserted between each data. The following example shows the response data to get information of motion detection.

```
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
ImageTime: 0000002574155\r\n
\r\n
Window1=<Data>\r\n
Window2=000000\r\n
Window3=000000\r\n
```

```
Window4=000061\r\n
\r\n
--myboundary\r\n
Content-Type: text/plain\r\n
ImageTime: 0000002574158\r\n
\r\n
Window1=000065\r\n
Window2=000000\r\n
Window3=000059\r\n
Window4=000000\r\n
\r\n
--myboundary\r\n
.
```

<Data> output of detection (000000~000100)

<Method>
GET

<Syntax>

http://ip_adr/command/uddata.cgi

<Example>

```
GET /command/uddata.cgi HTTP/1.1\r\n
Host: 192.168.1.1
```

Response

The output format of information of detected objects is the "Server-push". The boundary string is inserted between each data. The following example shows the response data to get information of unattended detection.

```
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
ImageTime: 0000002587915\r\n
\r\n
Window1=<Status>,<Data>\r\n
Window2=000,000\r\n
Window3=002,046\r\n
Window4=002,062\r\n
\r\n
--myboundary\r\n
Content-Type: text/plain\r\n
ImageTime: 0000002587919\r\n
```

```
\r\n
Window1=000,000\r\n
Window2=000,000\r\n
Window3=000,000\r\n
Window4=002,062\r\n
\r\n
--myboundary\r\n
.
.
```

<Status> 000:detect no object, 001:acquiring the background image, 002: detect object
<Data> output of detection (000000~000100)

9.4. Getting video using for the detection

There are commands that retrieve video using in the configuration window that can display the result of the detection.

Motion detection: mdimage

Unattended detection: udimage

<Syntax>

http://ip_adr/mdimage

Refer to 1.Motion video request commands

<Motion object in the video streaming>

Unattended object is colored.

mdimage: No modification to the video

udimage: When a prospective unattended object is detected on the monitor display, it will be colored. The object's color will be changed from blue to green, yellow and red in sequence, as the possibility of it being an unattended object increases. When the camera finally regards the object as an unattended object, a red frame is displayed.

<Note>

These commands are prepared for the configuration and when these commands are running following limitations exist.

- You can view another image during the setting of the object detection function only when MPEG4 is selected for Dual codec in the Video codec setting.
- Motion JPEG can't be available during the setting of the object detection function.
- "mdimage" and "udimage" can't be executed concurrently.
- The session of "mddata.cgi" and "uddata.cgi" is disconnected during running this command.
- No alert caused by the motion detection or the unattended detection reports during running this command.
- H.264 isn't available during running this command.
- Video size of this command is QQVGA (160×120) and frame rate up 15.

9.5. Inquiring the configuration

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

<Syntax>

http://ip_addr/command/inquiry.cgi?inq=objectdetection

SNC-RX550 CGI command list

System

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
ModelName	"SNC-RX550N" / "SNC-RX550P"	system	-	inq	-		1.00
Serial	"<serial no.>"	system	-	inq	System		1.00
PanTiltFunc	"1"	system	-	inq	-		1.00
ZoomFunc	"1"	system	-	inq	-		1.00
SoftVersion	"<version>"	system	-	inq	System		1.00
TitleBar	"<Text>"	system	system.cgi	inq/set	System	up to 32 letters	1.00
WelcomeText	"<Text>"	system	system.cgi	inq/set	System	up to 1024 letters	1.00
DefUrlMode	"default"/"userset"	system	system.cgi	inq/set	System		1.00
UserUrlPath	"/user/<text>" / "/a-slot/<text>" / "/b-slot/<text>"	system	system.cgi	inq/set	System	up to 64 letters except for "/user/", "a-slot", "b-slot" (*4)	1.00
PowerLed	"on"/"off"	system	system.cgi	inq/set	System		1.00
NetworkLed	"on"/"off"	system	system.cgi	inq/set	-	To turn on or off the Network LED.	1.00
CgiAuthen	"on"/"off"	system	system.cgi	inq/set	-	To set the CGI authentication to on or off.	1.00
PanoramaRotation	"on"/"off"	system	system.cgi	inq/set	-	whether to rotate Panorama picture	1.00
PanoramaPicture	"0" / "1"	system	system.cgi	inq	-	Panorama picture exists or dosen't exist.	1.00
PanRotation	"1"	system	system.cgi	inq	-	Boundless rotation is supported or not supported.	1.00
AlarmData	"on" / "off"	system	system.cgi	inq/set	-	Enalbe or disable monitoring alarm factor.	1.00

Exclusive camera control

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
CamCtrlRight	"on"/"off"	system	system.cgi	inq/set	System		1.00
CamCtrlTime	"10" to "600"	system	system.cgi	inq/set	System	Unit is "second"	1.00
CamMaxWaitNo	"0" to "10"	system	system.cgi	inq/set	System	Maximum wait number	1.00

Date and time

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
Time	"<time>"	system	etc.cgi	inq/set	Date time	Setting of local time	1.00
GmTime	"<time>"	system	etc.cgi	inq/set	Date time	Setting of GM time	1.00
TimeZone	"<time zone>"	system	system.cgi	inq/set	Date time	Time zone setting	1.00
DstMode	"on"/"off"	system	system.cgi	inq/set	Date time	Summer time (daylight saving time)	1.00
DateFormat	"ymd"/"mdy"/"dmy"	system	system.cgi	inq/set	Date time	yyyy-mm-dd / mm-dd-yyyy / dd-mm-yyy	1.00
NtpService	"on"/"off"	system	system.cgi	inq/set	Date time	Synchronization with NTP server	1.00
NtpServer	"<server>"	system	system.cgi	inq/set	Date time	Up to 64 charactors	1.00
NtpInterval	"100" to "86400"	system	system.cgi	inq/set	Date time	Minimum unit is 1 second	1.00

Pan Tilt

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
Move	"<direction>,<speed>"	-	ptzf.cgi	set	-	direction, left, right, up, down, up-left, up-right, down-left, down-right, speed:"1" to "24"	1.00
Move	"<zoom>,<speed>"	-	ptzf.cgi	Set	-	zoom :tele, wide speed : "1" to "8"	1.00
Move	"<focus>,<speed>"	-	ptzf.cgi	set	-	focus : near, far, onepushaf *) "onepushaf" is available when manual mode. Don't care speed parameter. speed: "1" to "8"	1.00
Move	<"stop", "motor/zoom/focus">	-	ptzf.cgi	set	-		1.00
AreaZoom	"<center X>,<center Y>,<width>,<height>,<codec>"	-	ptzf.cgi	set	-	width,height=0 at DirectPT and PT Camera center X: X distance from center (Pixel) center Y: Y distance from center (Pixel) width,height : rectabgke size for zoom raito codec: "mpeg4" / "h264" / "jpeg"	1.00
Relative	<AABB>,<codec>		ptzf.cgi	set		AABB: See section 8.1 codec: "mpeg4" / "h264" / "jpeg"	1.00
RelativePanTilt	"<pan position>,<tilt position>,<speed>"	-	ptzf.cgi	set	-	pan position: "C040" to "3FC0" tilt position: "F010" to "0FF0" speed: "1" to "24"	1.00
AbsolutePanTilt	"<pan position>,<tilt position>,<speed>"	ptzf	ptzf.cgi	inq/set	-	pan position: "E020" to "1FE0" (*8) tilt position: "F808" to "07F8" (*8) speed: "1" to "24"	1.00
AbsoluteZoom	"<zoom position>"		ptzf.cgi	set	-	zoom position: (Optical) "0000" to "4000" (*9) (Degital) "4000" to "7AC0" (*9)	1.00
RelativeZoom	"<zoom position>"	-	ptzf.cgi	set	-	zoom position: "8540" to "7AC0"	1.00
AbsoluteFocus	"<focus position>"		ptzf.cgi	set	-	focus position: "1000" to "C000" (*10)	1.00
LimitPanTilt	"<vmin pan position>,<min tilt position>,<max pan position>,<max tilt position>"		ptzf.cgi	set	-	min pan position: "E020" to "FFFF" min tilt position: "F808" to "FFFF" max pan position: "0001" to "1FE0" max tilt position: "0001" to "07F8" limit clear: all position "7FFF"	1.00
Cancel	"on"	-	ptzf.cgi	set	-		1.00
AbsolutePTZF	"<pan pos>,<tilt pos>,<zoom pos>,<focus pos>"	ptzf	ptzg.cgi	inq/set	-	*) see above address range for position parameter *) It is possible to set address only to move ex.: AbsolutePTZF=,0100,4000(only Tilting & Zooming move)	1.00
PanTiltMaxVelocity	"24"	ptzf		inq	-		1.00
ZoomMaxVelocity	"8"	ptzf		inq	-		1.00
PanMovementRange	"<min pos>,<max pos>"	ptzf		inq	-		1.00
TiltMovementRange	"<min pos>,<max pos>"	ptzf		inq	-		1.00
ZoomMovementRange	"<wide end>,<optical tele end >,<digital tele end>"	ptzf		inq	-		1.00
PanPanoramaRange	"<min pos>,<max pos>"	ptzf	ptzg.cgi	lnq/set	-		1.00
TiltPanoramaRange	"<min pos>,<max pos>"	ptzf	ptzg.cgi	lnq/set	-		1.00

Preset position

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
PresetCall	"<no.>,<speed>"	-	presetposition.cgi	set	Preset position	no. : "1" to "16" speed: "1" to "24"	1.00
PresetSet	"<no.>,<name>"	-	presetposition.cgi	set	Preset position	no. : "1" to "16"	1.00
PresetClear	"<no.>,<no.>,..."	-	presetposition.cgi	set	Preset position	no. : "1" to "16"	1.00
PresetName	"<no.>,<name>,<no.>,<name>, ..."	presetposition	-	inq	Preset position	default: "name" ->'none'	1.00
PresetSensor1	"<no>"/"none"	presetposition	presetposition.cgi	inq/set	Presetposition	default: "none"	1.00
PresetSensor2	"<no>"/"none"	presetposition	presetposition.cgi	inq/set	Presetposition	default: "none"	1.00
PresetDetection	"<no>"/"none"	presetposition	presetposition.cgi	inq/set	Presetposition	default: "none"	1.00
HomePos	"set"/"reset" / "recall" / "ptz-recall"		presetposition.cgi	set	Presetposition	Setting of PTZ positon after poweron	1.00
HomePosProperty	"<pan pos>,<tilt pos>,<zoom pos>"	presetposition		inq	-	Property of home position	1.00

Tour

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
Tour	"on" / "off"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourA	"on" / "off"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourASequence	"<no.>,<no.>,..."	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourAStaytime	"1" to "3600"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourAPeriod	"always"/"schedule"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourASchedule	<schedule>	presetposition	presetposition.cgi	inq/set	Tour	(*3)	1.00
TourASpeed	"<speed>"	presetposition	presetposition.cgi	inq/set	Tour	speed: "1" to "24" default: 24(= Fastest)	1.00
TourB	"on" / "off"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourBSequence	"<no.>,<no.>,..."	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourBStaytime	"1" to "3600"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourBPeriod	"always"/"schedule"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourBSchedule	<schedule>	presetposition	presetposition.cgi	inq/set	Tour	(*3)	1.00
TourBSpeed	"<speed>"	presetposition	presetposition.cgi	inq/set	Tour	speed: "1" to "24" default: 24(= Fastest)	1.00
TourC	"on" / "off"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourCSequence	"<no.>,<no.>,..."	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourCStaytime	"1" to "3600"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourCPeriod	"always"/"schedule"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourCSchedule	<schedule>	presetposition	presetposition.cgi	inq/set	Tour	(*3)	1.00
TourCSpeed	"<speed>"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourD	"on" / "off"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourDSequence	"<no.>,<no.>,..."	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourDStaytime	"1" to "3600"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourDPeriod	"always"/"schedule"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourDSchedule	<schedule>	presetposition	presetposition.cgi	inq/set	Tour	(*3)	1.00
TourDSpeed	"<speed>"	presetposition	presetposition.cgi	inq/set	Tour	speed: "1" to "24" default: 24(= Fastest)	1.00
TourE	"on" / "off"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourESequence	"<no.>,<no.>,..."	presetposition	presetposition.cgi	inq/set	Tour		1.00

TourEStaytime	"1" to "3600"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourEPeriod	"always"/"schedule"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourESchedule	<schedule>	presetposition	presetposition.cgi	inq/set	Tour	(*3)	1.00
TourESpeed	<speed>	presetposition	presetposition.cgi	inq/set	Tour	speed: "1" to "24" default: 24(= Fastest)	1.00
TourResume	"on" / "off"	presetposition	presetposition.cgi	inq/set	Tour		1.00
TourRsmTime	"5" to "600"	presetposition	presetposition.cgi	inq/set	Tour		1.00

Camera

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
AudioIn	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
AudioInVolume	"-10" to "10"	camera	camera.cgi	inq/set	Camera		1.00
AudioOut	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
AudioOutVolume	"-10" to "10"	camera	camera.cgi	inq/set	Camera		1.00
AudInCodec	"g711_64" / "g726_40" / "g726_32" / "g726_24" / "g726_16"	camera	camera.cgi	inq/set	Camera		1.00
ImageCodec	"jpeg" / "mpeg4" / "h264" / "mpeg4-jpeg" / "jpeg-mpeg4" / "h264-jpeg" / "jpeg-h264"	camera	camera.cgi	inq/set	Camera	Select video codec. First codec is priority codec at dual setting.	1.00
AlmBufCodec	"jpeg" / "mpeg4"	camera	camera.cgi	inq	Camera	Return "AlmBufCodec" parameter in "AlarmBuffer.cgi". "/mjpeg&AudioIn=on" is available only when this parameter is set to "jpeg".	1.00
M4ImageSize	"<horizontal pixel>,<mode>"	camera	camera.cgi	inq/set	Camera	Image size of mpeg4(*1)	1.00
H264ImageSize	"<horizontal pixel>,<mode>"	camera	camera.cgi	inq/set	Camera	Image size of H.264(*1)	1.00
JpImageSize	"<horizontal pixel>,<mode>"	camera	camera.cgi	inq/set	Camera	Image size of Motion JPEG(*1)	1.00
AreaSet	"<upper left X>,<upper left Y>,<lower right X>,<lower right Y>"	camera	camera.cgi	inq/set	Camera		1.00
M4AreaSelect	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
H264AreaSelect	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
JpAreaSelect	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
Multicast	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
McAddress	"<ip addr>"	camera	camera.cgi	inq/set	Camera		1.00
McVideoPort	"1024" to "65534"	camera	camera.cgi	inq/set	Camera		1.00
McAudioPort	"1024" to "65534"	camera	camera.cgi	inq/set	Camera		1.00
McTtl	"1" to "255"	camera	camera.cgi	inq/set	Camera		1.00
UcVideoPort	"1024" to "65534"	camera	camera.cgi	inq/set	Camera		1.00
UcAudioPort	"1024" to "65534"	camera	camera.cgi	inq/set	Camera		1.00
M4FrameRate	NTSC "1" / "2" / "3" / "4" / "5" / "6" / "8" / "10" / "15" / "20" / "25" / "30" PAL "1" / "2" / "3" / "4" / "5" / "6" / "8" / "12" / "16" / "20" / "25"	camera	camera.cgi	inq/set	Camera		1.00
M4BitRate	"64" / "128" / "256" / "384" / "512" / "768" / "1024" / "1536" / "2048"	camera	camera.cgi	inq/set	Camera		1.00
M4IFrameInterval	"1" to "5"	camera	camera.cgi	inq/set	Camera		1.00

H264FrameRate	NTSC "1" / "2" / "3" / "4" / "5" / "6" / "8" / "10" / "15" / "20" / "25" / "30" PAL "1" / "2" / "3" / "4" / "5" / "6" / "8" / "12" / "16" / "20" / "25"	camera	camera.cgi	inq/set	Camera		1.00
H264BitRate	"32" / "64" / "128" / "256" / "384" / "512" / "768" / "1024" / "1536"	camera	camera.cgi	inq/set	Camera		1.00
H264IFrameInterval	"1" to "5"	camera	camera.cgi	inq/set	Camera		1.00
JpFrameRate	NTSC "1" / "2" / "3" / "4" / "5" / "6" / "8" / "10" / "15" / "20" / "25" / "30" PAL "1" / "2" / "3" / "4" / "5" / "6" / "8" / "12" / "16" / "20" / "25"	camera	camera.cgi	inq/set	Camera		1.00
JpQuality	"1" to "10"	camera	camera.cgi	inq/set	Camera		1.00
JpBandwidth	"0.0" / "0.5" to "4.0"	camera	camera.cgi	inq/set	Camera		1.00
VideoStd	"ntsc" / "pal"	camera	camera.cgi	inq	Camera		1.00
Color	"color" / "black"	camera	camera.cgi	inq/set	Camera		1.00
WBMode	"auto" / "indoor" / "outdoor" / "onpushwb" / "manual"	camera	camera.cgi	inq/set	Camera		1.00
RGain	"00" to "ff"	camera	camera.cgi	inq/set	Camera		1.00
BGain	"00" to "ff"	camera	camera.cgi	inq/set	Camera		1.00
OnePushTrg	"trgon"	-	camera.cgi	set	Camera		1.00
ExpMode	"full" / "shutter" / "manual"	camera	camera.cgi	inq/set	Camera		1.00
AutoSlowShutter	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
BLComp	"on" / "off"	camera	camera.cgi	inq/set	Camera		1.00
Iris	"0" to "17"	camera	camera.cgi	inq/set	Camera	(*6)	1.00
Gain	"0" to "15"	camera	camera.cgi	inq/set	Camera	(*6)	1.00
Shutter	"0" to "21"	camera	camera.cgi	inq/set	Camera	(*6)	1.00
Brightness	"0" to "10"	camera	camera.cgi	inq/set	Camera		1.00
Saturation	"0" to "6"	camera	camera.cgi	inq/set	Camera		1.00
Sharpness	"0" to "6"	camera	camera.cgi	inq/set	Camera		1.00
Contrast	"0" to "6"	camera	camera.cgi	inq/set	Camera		1.00
ExpCompMode	"on" / "off"	camera	camera.cgi	inq/set	-		1.00
ExpComp	"0" to "14"	camera	camera.cgi	inq/set	-	(*6)	1.00
ZoomMode	"optical" / "full"	camera	camera.cgi	inq/set	-		1.00
FocusMode	"auto" / "manual"	camera	camera.cgi	inq/set	-		1.00
Stabilizer	"on" / "off"	camera	camera.cgi	inq/set	-		1.00
Camera	"initialize" / "preset" / "call"	-	camera.cgi	set	Camera	"initialize": revert the setting to factory default "preset": save current camera setting "call" : load the saved setting	1.00
PrivacyDisplay	"<no.>,<no.>,..."	-	camera.cgi	set	-	Set zone,"no", to be displayed. Each of 24 Privacy zones can be switched on and off individually by a single command. If you do not want to display a Privacy zone, you set no "no" in the list. no: "1" to "24"	1.00
PrivacySetMask	"<no.>,<width>,<height>"	-	camera.cgi	set	-	Before this setting the camera direction is moved so that the subject resides center of the display.	1.00

						(It is recommended to set more than twice width and height to that of the subject) no: "1" to "24" width: "0" to "80" height: "0" to "60"	
TitleDisplay	"on" / "off" / "clear"	-	camera.cgi	set	-		1.00
TitleAttrib	"<Vposition>,<Hposition>,<Color>,<Blink>"	-	camera.cgi	set	-	Vposition: "0" to "10" Hposition: "0" to "23" Color: "white"/ "yellow"/ "violet"/ "red"/ "cyan"/ "green"/ "blue" Blink: "noblink"/ "blink"	1.00
TitleChar	"<char>,<char>,..."	-	camera.cgi	set	-	char: character code (*11) (up to 20 letters)	1.00

Day/Night

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
DayNightMode	"disable"/"auto"/"manual"/"timer"/"sensor"	camera	camera.cgi	inq/set	Day/Night		1.00
DnSchedule	"<schedule>"	camera	camera.cgi	inq/set	Day/Night	(*3)	1.00
DnSensor1	"on"/"off"	camera	camera.cgi	inq/set	Day/Night		1.00
DnSensor2	"on"/"off"	camera	camera.cgi	inq/set	Day/Night		1.00
DayNight	"on"/"off"	camera	camera.cgi	inq/set	Day/Night		1.00
DnManualFunc	"on"/"off"	camera	camera.cgi	inq/set	Day/Night		1.00

Network

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
Dhcp	"on" / "off"	network	network.cgi	inq/set	Network		1.00
DnsAuto	"on" / "off"	network	network.cgi	inq/set	Network		1.00
Ip	"<ip addr>"	network	network.cgi	inq/set	Network		1.00
Subnetmask	"<ip addr>"	network	network.cgi	inq/set	Network		1.00
Gateway	"<ip addr>"	network	network.cgi	inq/set	Network		1.00
MacAddress	"<mac addr>"	network	-	inq	Network		1.00
PrimaryDns	"<ip addr>"	network	network.cgi	inq/set	Network		1.00
SecondaryDns	"<ip addr>"	network	network.cgi	inq/set	Network		1.00
HttpPort	"80" / "1024" to "65535"	network	network.cgi	inq/set	Network		1.00

Wireless LAN

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
WirelessFunc	"on" / "off"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsDhcp	"on" / "off"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsDnsAuto	"on" / "off"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsIp	"<ip addr>"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsSubnetmask	"<ip addr>"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsGateway	"<ip addr>"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsMacAddress	"<mac addr>"	wireless	wireless.cgi	inq	Wireless		1.00
WlsPrimaryDns	"<ip addr>"	wireless	wireless.cgi	inq/set	Wireless		1.00

WlsSecondaryDns	"<ip addr>"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsSsid	"<text>"	wireless	wireless.cgi	inq/set	Wireless	up to 32 letters	1.00
WlsNetworkType	"adhoc" / "infrastructure"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsChannel	"1" to "14"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsEnableCh	"<channel>"	wireless	wireless.cgi	inq	Wireless	Available channel of the inserted wireless LAN card	1.00
WlsCardModel	"sonymodel" / "othermodel"	wireless	wireless.cgi	inq	Wireless		1.00
WlsAntenna	"internal" / "external" / "diversity"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsWepTransKey	"1" to "4"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsWep	"on" / "off"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsWepKey1	"<wep key>"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsWepKey2	"<wep key>"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsWepKey3	"<wep key>"	wireless	wireless.cgi	inq/set	Wireless		1.00
WlsWepKey4	"<wep key>"	wireless	wireless.cgi	inq/set	Wireless		1.00

Dynamic IP address notification

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
SmtplpNtfyService	"on" / "off"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
SmServerName	"<server name>"	smtp	smtp.cgi	inq/set	Dynamic IP	Identical as SmServerName in the e-Mail setting	1.00
SmAuthenMode	"none" / "smtp" / "pop" / "smtp-pop"	smtp	smtp.cgi	inq/set	Dynamic IP	Identical as SmAuthenmode in the e-Mail setting	1.00
SmAthPopServerName	"<server name>"	smtp	smtp.cgi	inq/set	Dynamic IP	Identical as SmAthPopServerName in the e-Mail setting	1.00
SmAthUserName	"<text>"	smtp	smtp.cgi	inq/set	Dynamic IP	Identical as SmAthUserName in the e-Mail setting	1.00
SmAthPassword	"<text>"	smtp	smtp.cgi	inq/set	Dynamic IP	Identical as SmAthPassword in the e-Mail setting	1.00
SmtplpNtfyRcptAddr	"<e-mail addr>"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
SmtplpNtfyFromAddr	"<e-mail addr>"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
SmtplpNtfySubject	"<text>"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
SmtplpNtfyMessage	"<text>"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
HttpIpNtfyService	"on" / "off"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
HttpIpNtfyUrl	"<text>"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
HttpIpNtfyProxy	"<server name>"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
HttpIpNtfyProxyPort	"1024" to "65535"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
HttpIpNtfyMethod	"GET" / "POST"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00
HttpIpNtfyOptionField	"<text>"	ipnotify	ipnotify.cgi	inq/set	Dynamic IP		1.00

User

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
Administrator	"<encoded name&pass>"	user	user.cgi	inq/set	User		1.00
User1	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User	See (*7)ViewMode	1.00
User2	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00
User3	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00
User4	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00
User5	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00
User6	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00
User7	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00

User8	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00
User9	"<encoded name&pass>,<mode>"	user	user.cgi	inq/set	User		1.00
ViewerAuthen	"on" / "off"	user	user.cgi	inq/set	User		1.00
ViewerModeDefaul	"<mode>"	user	user.cgi	inq/set	User		1.00

Security

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
IpLimitFunc	"on" / "off"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimitPolicy	"allow" / "deny"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit1	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit2	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit3	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit4	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit5	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit6	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit7	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit8	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit9	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00
IpLimit10	"<ip addr>,<mask bits>,<policy>"	iplimit	iplimit.cgi	inq/set	Security		1.00

FTP client

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
FtpClientFunc	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcServerName	"<server name>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcUserName	"<text>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcPassword	"<text>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcPassive	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcStoreMode	"overwrite" / "rename"	ftpclient	ftpclient.cgi	inq/set	-		1.00
FcAlmFunc	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmRemotePath	"<text>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmAssignedName	"<text>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmSuffix	"date" / "seq"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmDetection	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmSensor1	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmSensor2	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmBuffer	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmPeriod	"always" / "schedule"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcAlmSchedule	"<schedule>"	ftpclient	ftpclient.cgi	inq/set	FTP client	(*3)	1.00
SeqClear	"ftp-alarm"	-	etc.cgi	set	FTP client		1.00
FcPeriodicalFunc	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcPrdRemotePath	"<text>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcPrdAssignedName	"<text>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcPrdSuffix	"none" / "date" / "seq"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcPrdMode	"period" / "synctour"	ftpclient	ftpclient.cgi	inq/set	FTP client	"reriod" and "synctour" is working exclusively	1.00
FcPrdPeriod	"always" / "schedule"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
FcPrdSchedule	"<schedule>"	ftpclient	ftpclient.cgi	inq/set	FTP client	(*3)	1.00

FcPrdInterval	"<interval time>"	ftpclient	ftpclient.cgi	inq/set	FTP client		1.00
SeqClear	"ftp-periodical"	-	etc.cgi	set	FTP client		1.00
FcManualFunc	"on" / "off"	ftpclient	ftpclient.cgi	inq/set	Trigger		1.00
FcManRemotePath	"<text>"	ftpclient	ftpclient.cgi	inq/set	Trigger		1.00
FcManAssignedName	"<text>"	ftpclient	ftpclient.cgi	inq/set	Trigger		1.00
FcManSuffix	"none" / "date" / "seq"	ftpclient	ftpclient.cgi	inq/set	Trigger		1.00
SeqClear	"ftp-manual"	-	etc.cgi	set	Trigger		1.00

FTP server

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
FtpServerFunc	"on" / "off"	ftpserver	ftpserver.cgi	inq/set	FTP server		1.00
FsRootDir	"a-slot" / "b-slot"	ftpserver	-	inq	-	(*4)	1.00

SMTP

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
SmtpFunc	"on" / "off"	smtp	smtp.cgi	inq/set	Mail		1.00
SmServerName	"<server name>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAuthenMode	"none" / "smtp" / "pop" / "smtp-pop"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAthPopServerName	"<server name>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAthUserName	"<text>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAthPassword	"<text>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmRcptToAddr1	"<e-mail addr>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmRcptToAddr2	"<e-mail addr>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmRcptToAddr3	"<e-mail addr>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAdminAddr	"<e-mail addr>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmSubject	"<text>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmMessage	"<text>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmFunc	"on" / "off"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmFileAttach	"on" / "off"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmAssignedName	"<text>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmSuffix	"none" / "date" / "seq"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmDetection	"on" / "off"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmSensor1	"on" / "off"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmSensor2	"on" / "off"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmPeriod	"always" / "schedule"	smtp	smtp.cgi	inq/set	Mail		1.00
SmAlmSchedule	"<schedule>"	smtp	smtp.cgi	inq/set	Mail	(*3)	1.00
SeqClear	"smtp-alarm"	-	etc.cgi	set	Mail		1.00
SmPeriodicalFunc	"on" / "off"	smtp	smtp.cgi	inq/set	Mail		1.00
SmPrdAssignedName	"<text>"	smtp	smtp.cgi	inq/set	Mail		1.00
SmPrdSuffix	"none" / "date" / "seq"	smtp	smtp.cgi	inq/set	Mail		1.00
SmPrdPeriod	"always" / "schedule"	smtp	smtp.cgi	inq/set	Mail		1.00
SmPrdSchedule	"<schedule>"	smtp	smtp.cgi	inq/set	Mail	(*3)	1.00
SmPrdInterval	"<interval time>"	smtp	smtp.cgi	inq/set	Mail		1.00
SeqClear	"smtp-periodical"	-	etc.cgi	set	Mail		1.00
SmManualFunc	"on" / "off"	smtp	smtp.cgi	inq/set	Trigger		1.00
SmManAssignedName	"<text>"	smtp	smtp.cgi	inq/set	Trigger		1.00

SmManSuffix	"none" / "date" / "seq"	smtp	smtp.cgi	inq/set	Trigger		1.00
SeqClear	"smtp-manual"	-	etc.cgi	set	Trigger		1.00

Image memory

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
ImageMemoryFunc	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImDrive	"a-slot" / "b-slot"	imagememory	imagememory.cgi	inq	Image memory	(*4)	1.00
ImOverWrite	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImCapWarn	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
SmServerName	"<server name>"	smtp	smtp.cgi	inq/set	Image memory	Identical in the e-Mail setting	1.00
SmAuthenMode	"none" / "smtp" / "pop" / "smtp-pop"	smtp	smtp.cgi	inq/set	Image memory	Identical in the e-Mail setting	1.00
SmAthPopServerName	"<server name>"	smtp	smtp.cgi	inq/set	Image memory	Identical in the e-Mail setting	1.00
SmAthUserName	"<text>"	smtp	smtp.cgi	inq/set	Image memory	Identical in the e-Mail setting	1.00
SmAthPassword	"<text>"	smtp	smtp.cgi	inq/set	Image memory	Identical in the e-Mail setting	1.00
ImCapWarnRcptAddr	"<e-mail addr>"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImCapWarnFromAddr	"<e-mail addr>"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlarmFunc	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlmAssignedName	"<text>"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlmSuffix	"date" / "seq"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlmDetection	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlmSensor1	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlmSensor2	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlmPeriod	"always" / "schedule"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImAlmSchedule	"<schedule>"	imagememory	imagememory.cgi	inq/set	Image memory	(*3)	1.00
ImAlmBuffer	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
SeqClear	"imagememory-alarm"	-	etc.cgi	set	Image memory		1.00
ImPeriodicalFunc	"on" / "off"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImPrdAssignedName	"<text>"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImPrdSuffix	"none" / "date" / "seq"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImPrdMode	"period" / "synctour"	imagememory	imagememory.cgi	inq/set	Image memory	"period" and "synctour" is working exclusively.	1.00
ImPrdPeriod	"always" / "schedule"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
ImPrdSchedule	"<schedule>"	imagememory	imagememory.cgi	inq/set	Image memory	(*3)	1.00
ImPrdInterval	"<interval time>"	imagememory	imagememory.cgi	inq/set	Image memory		1.00
SeqClear	"imagememory-periodical"	-	etc.cgi	set	Image memory		1.00
ImManualFunc	"on" / "off"	imagememory	imagememory.cgi	inq/set	Trigger		1.00
ImManAssignedName	"<text>"	imagememory	imagememory.cgi	inq/set	Trigger		1.00
ImManSuffix	"none" / "date" / "seq"	imagememory	imagememory.cgi	inq/set	Trigger		1.00
SeqClear	"imagememory-manual"	-	etc.cgi	set	Trigger		1.00

Alarm out

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
AlarmOut1Func	"on" / "off"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00
Ao1Mode	"alarm" / "timer" / "daynight"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00
Ao1AlmDetection	"on" / "off"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00
Ao1AlmSensor1	"on" / "off"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00

Ao1AlmSensor2	"on" / "off"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00
Ao1AlmPeriod	"always" / "schedule"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00
Ao1AlmSchedule	"<schedule>"	alarmout1	alarmout.cgi	inq/set	Alarm out1	(*3)	1.00
Ao1AlmDuration	"1" to "60"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00
Ao1TimSchedule	"<schedule>"	alarmout1	alarmout.cgi	inq/set	Alarm out1	(*3)	1.00
Ao1ManualFunc	"on" / "off"	alarmout1	alarmout.cgi	inq/set	Alarm out1		1.00
AlarmOut2Func	"on" / "off"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00
Ao2Mode	"alarm" / "timer"/"daynight"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00
Ao2AlmDetection	"on" / "off"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00
Ao2AlmSensor1	"on" / "off"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00
Ao2AlmSensor2	"on" / "off"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00
Ao2AlmPeriod	"always" / "schedule"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00
Ao2AlmSchedule	"<schedule>"	alarmout2	alarmout.cgi	inq/set	Alarm out2	(*3)	1.00
Ao2AlmDuration	"1" to "60"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00
Ao2TimSchedule	"<schedule>"	alarmout2	alarmout.cgi	inq/set	Alarm out2	(*3)	1.00
Ao2ManualFunc	"on" / "off"	alarmout2	alarmout.cgi	inq/set	Alarm out2		1.00

Voice alert

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
VoiceAlertFunc	"on" / "off"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00
VaFile	"Uploaded" / "Not uploaded"	voicealert	voicealert.cgi	inq/set	Voice alert	Voice alrt file exists or doesn't exist.	1.00
VaAlmDetection	"on" / "off"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00
VaAlmSensor1	"on" / "off"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00
VaAlmSensor2	"on" / "off"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00
VaAlmPeriod	"always" / "schedule"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00
VaAlmSchedule	"<schedule>"	voicealert	voicealert.cgi	inq/set	Voice alert	(*3)	1.00
VaAlmRepeat	"1" to "3"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00
VaManualFunc	"on" / "off"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00
VaManRepeat	"1" to "3"	voicealert	voicealert.cgi	inq/set	Voice alert		1.00

Alarm buffer (Alarm buffer is only motion-jpeg)

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
AlmBufTime	"<pre time>,<post time>"	alarmbuffer	alarmbuffer.cgi	inq/set	Alarm buffer	sec	1.00
AlmBufMaxTime	"<pre time>,<post time>"	alarmbuffer	-	inq	Alarm buffer	sec	1.00
AlmBufCodec	"jpeg" / "mpeg4"	alarmbuffer	alarmbuffer.cg	inq/set	Alarm buffer	Choose the codec from "ImageCodec" setting. This parameter may be changed when "lamgeCodec" is changed.	1.00

Object detection

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
Common setting terms							
DetectionTime	<hhmmss>	objectdetection	objectdetection.cgi	inq/set	Detection	Period of time when an object is regarded as	1.00

						an unattended object :40 seconds to 12 hours	
AlarmInterval	<hhmmss>	objectdetection	objectdetection.cgi	inq/set	Detection	Repeat alarm out in this interval. :1hour to 6 hour	1.00
ReleaseTime	<hhmmss>	objectdetection	objectdetection.cgi	inq/set	Detection	An alarm will no longer be output if the specified period has elapsed. :1 hour to 12 hours	1.00
OutputEffect	"normal"/ "black"/ "vignetted" / "mosaic"/ "off"	objectdetection	objectdetection.cgi	inq/set	Detection	Select image type when motion objects are detected.	1.00
PositionMode	"current"/"preset"	objectdetection	objectdetection.cgi	inq/set	Detection	Setting is assigned to the preset position or not	1.00
ResetBackGround	"on"/ "off"	-	objectdetection.cgi	set	Detection	Clear all retested unattended object	1.00
Setting terms for each preset position : each term has a prefix that consist of ID of preset position.(Od00-Od15, Od99 : current)							
Od00Mode	"mod"/ "uod"	objectdetection	objectdetection.cgi	inq/set	Detection	unattended detection/motion detection	1.00
Od00Win1	"on"/ "off"	objectdetection	objectdetection.cgi	inq/set	Detection	Enable/disable window (1-4)	1.00
Od00Win1Mode	"det"/ "mask"	objectdetection	objectdetection.cgi	inq/set	Detection	Select detection area or mask area for each windos(1-4)	1.00
Od00Win1Area	<upper left X>,<upper left Y>,<lower right X>,<lower right Y>	objectdetection	objectdetection.cgi	inq/set	Detection	Axis of the window(1-4) X=1to 640, Y=1 to 480	1.00
Od00ThresholdR	"0" to "99"	objectdetection	objectdetection.cgi	inq/set	Detection	Threshold of R gain	1.00
Od00ThresholdG	"0" to "99"	objectdetection	objectdetection.cgi	inq/set	Detection	Threshold of G gain	1.00
Od00ThresholdB	"0" to "99"	objectdetection	objectdetection.cgi	inq/set	Detection	Threshold of B gain	1.00
Od00MinObjectSize	<x>,<y>	objectdetection	objectdetection.cgi	inq/set	Detection	Minimum size of object to be detected :x=8 to 640, y=8 to480	1.00
Od00MiaxObjectSize	<x>,<y>	objectdetection	objectdetection.cgi	inq/set	Detection	Maximum size of object to be detected. :x=8 to 640, y=8 to480	1.00

Serial

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
SerType	"tcpip" / "visca"	serial	serial.cgi	inq/set	Serial		1.00
SerTcpPort	"1024" to "65535"	serial	serial.cgi	inq/set	Serial		1.00
SerBaudRate	"2" to "7"	serial	serial.cgi	inq/set	Serial	(*2)	1.00
SerCharLen	"7" / "8"	serial	serial.cgi	inq/set	Serial		1.00
SerParityBit	"none" / "odd" / "even"	serial	serial.cgi	inq/set	Serial		1.00
SerStopBit	"1" / "2"	serial	serial.cgi	inq/set	Serial		1.00

All configuration

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
-	-	all-configuration	all-configuration.cg	inq/set	Initialization	"/system/snc-rx550.cfg" is backup URL	1.00

Other inquiries

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
UserWeb	"Used space : <used>byte"	userweb	-	inq	-		1.00
ASlot	"Free space:<remain>byte"	a-slot	-	inq	FTP server	(*4)	1.00
BSlot	"Free space:<remain>byte"	b-slot	-	inq	FTP server	(*4)	1.00
-	-	camerapreset	-	inq	Camera		1.00
Sensor1	"0" / "1"	sensor	-	inq	-	"0" : low or open , "1" : high or short	1.00
Sensor2	"0" / "1"	sensor	-	inq	-	"0" : low or open , "1" : high or short	1.00
Ao1Status	"0" / "1"	alarmoutstatus	-	inq	-	"0" : low or open , "1" : high or short	1.00
Ao2Status	"0" / "1"	alarmoutstatus	-	inq	-	"0" : low or open , "1" : high or short	1.00

Trigger function

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
Trigger	"ftp"	-	main.cgi	set	Trigger		1.00
Trigger	"ftp-alarmbuffer"	-	main.cgi	set	Trigger	Valid only when "FcAlmFunc" and "FcAlmBuffer" are "on" and trigger of ftp is enabled.	1.00
Trigger	"smtp"	-	main.cgi	set	Trigger		1.00
Trigger	"memory"	-	main.cgi	set	Trigger		1.00
Trigger	"memory-alarmbuffer"	-	main.cgi	set	Trigger	Valid only when "ImAlmFunc" and "ImAlmBuffer" are "on" and trigger of memory is enabled.	1.00
Trigger	"alarmout1"	-	main.cgi	set	Trigger	Toggle	1.00
Trigger	"alarmout2"	-	main.cgi	set	Trigger	Toggle	1.00
Trigger	"daynight"	-	main.cgi	set	Trigger	Toggle	1.00
Trigger	"daynighton"	-	main.cgi	set	-		1.00
Trigger	"daynightoff"	-	main.cgi	set	-		1.00
Trigger	"voicealert"	-	main.cgi	set	Trigger		1.00
Trigger	"voicealert-test"	-	main.cgi	set	Voice alert		

Other operation

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
System	"reboot"	-	main.cgi	set	Initialization		1.00
System	"initialize"	-	main.cgi	set	Initialization		1.00
System	"versionup"	-	main.cgi	set	Initialization		1.00
Format	"a-slot" / "b-slot"	-	main.cgi	set	-	(*4), (*5)	1.00
Delete	"panorama" / "homepage" / "voicealert"	-	main.cgi	set	Initialization		1.00

Camera control mode

Parameter	Value	Inquiry Paramter	Setting CGI	Attribute	Setting page	Note	Available version
PtzfMode	"normal" / "step"	camera	camera.cgi	inq/set	Camera control mode		1.00
RelPanTilt	"1" to "10"	camera	camera.cgi	inq/set	Camera control mode		1.00
RelZoom	"1" to "10"	camera	camera.cgi	inq/set	Camera control mode		1.00

Note:

The supplementary about "**SNC-RX550N/P** command list" is described below

***1 ImageSize**

<horizontal pixel> :

Horizontal pixe	Vertical pixe
640	480
320	240
160	120

<mode> : 0 (Auto), 1 (Frame), 2 (Field)

***2 SerBaudRate**

2	3	4	5	6	7
1200	2400	4800	9600	19200	38400

***3 Schedule**

<Syntax>

xxSchedule=[Sun],[StartTime],[EndTime],[Mon],[StartTime],[EndTime],[Tue],[StartTime],[EndTime],[Wed],[StartTime],[EndTime],[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
--

***4 About name of slot**

a-slot: ATA memory card, b-slot: "Memory stick"

***5 Format memory stick**

Support only memory stick PRO

*6 Details of camera parameters

Shutter speed (sec) NTSC

0 : 1	11 : 1/250
1 : 1/2	12 : 1/350
2 : 1/4	13 : 1/500
3 : 1/8	14 : 1/725
4 : 1/15	15 : 1/1000
5 : 1/30	16 : 1/1500
6 : 1/60	17 : 1/2000
7 : 1/90	18 : 1/3000
8 : 1/100	19 : 1/4000
9 : 1/125	20 : 1/6000
10 : 1/180	21 : 1/10000

Iris(F)

17 : 1.6	8 : 8
16 : 2	7 : 9.6
15 : 2.4	6 : 11
14 : 2.8	5 : 14
13 : 3.4	4 : 16
12 : 4	3 : 19
11 : 4.8	2 : 22
10 : 5.6	1 : 28
9 : 6.8	0 : Close

Gain(dB)

0 : -3	8 : +14
1 : 0	9 : +16
2 : +2	10 : +18
3 : +4	11 : +20
4 : +6	12 : +22
5 : +8	13 : +24
6 : +10	14 : +26
7 : +12	15 : +28

ExpComp(dB)

0 : -10.5	8 : +1.5
1 : -9	9 : +3
2 : -7.5	10 : +4.5
3 : -6	11 : +6
4 : -4.5	12 : +7.5
5 : -3	13 : +9
6 : -1.5	14 : +10.5
7 : 0	

Shutter speed (sec) PAL

0 : 1	11 : 1/215
1 : 1/2	12 : 1/300
2 : 1/3	13 : 1/425
3 : 1/6	14 : 1/600
4 : 1/12	15 : 1/1000
5 : 1/25	16 : 1/1250
6 : 1/50	17 : 1/1750
7 : 1/75	18 : 1/2500
8 : 1/100	19 : 1/3500
9 : 1/120	20 : 1/6000
10 : 1/150	21 : 1/10000

*7 View mode

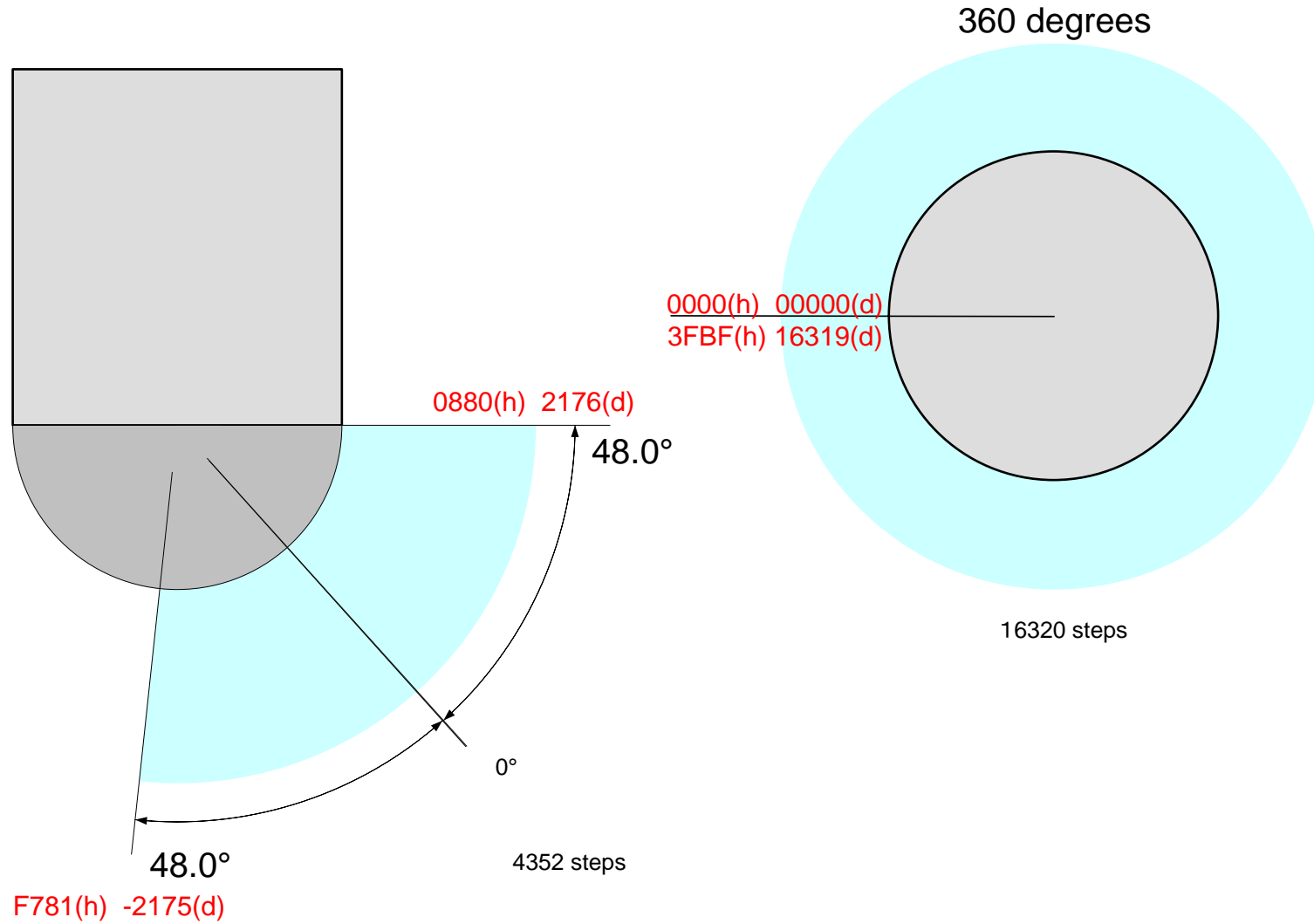
Bit	Full	Preset	Preset	Light	View	function	description
0	1	1	1	1	1	frame	Display image only when this bit is set to 0.
1	1	1	1	1	1	Display time	Display time
2	1	1	1	1	1	Volume	Display Volume
3	1	1	1	1	0	View size	Display View size list box
4	1	1	1	1	0	Capture	Display Capture icon (ActiveX only)
5	1	1	1	1	0	Digital zoom	Display DigitalZoom icon
6	1	0	0	0	0	Frame rate	Display FrameRate list box
7	1	0	0	0	0	Trigger	Display Trigger icon
8	1	0	0	0	0	TCP/UDP	Display TCP/UDP (Transmission) icon
9	1	1	0	0	0	PanTilt control	Display PanTiltControl icon
10	1	1	1	0	0	Preset position list	Display PresetPosition list box
11	-	-	-	-	-	-	reserved
12	-	-	-	-	-	-	reserved
13	-	-	-	-	-	-	reserved
14	-	-	-	-	-	-	reserved
15	-	-	-	-	-	-	reserved
16 - 31	-	-	-	-	-	-	reserved

Full	000007ff	※bit9-31 are ignored
PanTilt	0000063f	
Preset	0000043f	
Light	0000003f	
View	00000007	

Inquiry	http://ip_addr/command/inquiry.cgi?ing=viewermode
Response	ViewerMode=xxxxxxx

*8 PanTilter

PAN TILT



*9 Zoom ratio and Zoom position (expected value)

Zoom Ratio	Optical Zoom Position Data
x1	0000
x2	1760
x3	214C
x4	2722
x5	2B22
x6	2E20
x7	3080
x8	3278
x9	3426
x10	359E
x11	36EE
x12	381C
x13	392E
x14	3A26
x15	3B08
x16	3BD4
x17	3C8C
x18	3D2E
x19	3DBC
x20	3E58
x21	3EA2
x22	3F00
x23	3F4E
x24	3F92
x25	3FCC
x26	4000

Digital Zoom Ratio	Digital Zoom Position Data
x1	4000
x2	6000
x3	6A80
x4	7000
x5	7300
x6	7540
x7	76C0
x8	7800
x9	78C0
x10	7980
x11	7A00
x12	7AC0

*10 focus (expected value)

Focus position	1000 Far end	- C000 Near end
Focus Near Limit	1000: Over Inf 2000: 7.2m 3000: 3.3m 4000: 2.0m 5000: 1.3m 6000: 1m 7000: 80cm 8000: 40cm 9000: 20cm A000: 11cm B000: 6cm C000: 3.5cm	Left listed value may be shifted by thermal conditions. *)lower 1 digits is fiixed with "00"

*11 Character code

00	01	02	03	04	05	06	07
A	B	C	D	E	F	G	H
08	09	0a	0b	0c	0d	0e	0f
I	J	K	L	M	N	O	P
10	11	12	13	14	15	16	17
Q	R	S	T	U	V	W	X
18	19	1a	1b	1c	1d	1e	1f
Y	Z	&		?	!	1	2
20	21	22	23	24	25	26	27
3	4	5	6	7	8	9	0
28	29	2a	2b	2c	2d	2e	2f
À	È	Ì	Ò	Ù	Á	É	Í
30	31	32	33	34	35	36	37
Ó	Ú	Â	Ê	Ô	Æ	OE	Ã
38	39	3a	3b	3c	3d	3e	3f
Õ	Ñ	Ç	ß	Ä	Ï	Ö	Ü
40	41	42	43	44	45	46	47
Å	\$	F	¥	DM	£	ı	ı
48	49	4a	4b	4c	4d	4e	4f
ø	“	:	‘	.	,	/	-

Revision history

Version	Date	Commnet
1.0	2005.11.10	First release