

## **External Interface Specifications**

### **Network Camera**

**WV-NP1000/NP244/NS202/NF284  
/NW484/NS202A/NS954/NW964  
WJ-NT304/NT314/NF302/NP304**

VER. 1.11

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## Revise Record

VER.	Date	Item no.	Comment	Revise trigger
1.00 beta	10 Nov. 2006	-	Original Created based on the WV-NP1004/244 CGI document version 1.20 & WV-NS202 CGI document version 1.10	-
1.00	20 Nov.2006	3.1.6	Add a “mode” parameter about audio transmission CGI (/cgi-bin/audio) :NS202 only	
1.01	29 Nov.2006	8	Add access user limit and frame rate information	
1.02	18 Dec.2006	-  3.1.1  4.9  9	Add WV-NF284 CGI information* Add version up contents of the WV-NP244 Add explanation by models to “aEnable” and “uni_manual” in “sDelivery” Add models(WV-NS202, NF284, NP244) and “uni_manual” in “sDelivery” Add Compatible CGI commands list of Axis camera	
1.03 beta	18 Jun.2007	2  3.2.1  3.2.2  3.3.7  3.3.8	Clerical error correction about WV-NF284 WV-NF284 is deleted from the Correspondence model WV-NF284 is deleted from the Correspondence model Add cgi command about “Alarm ON/OFF” setup. Add cgi command about “VMD area setup”.	
1.03 beta2	26 Jun.2007	3.3.7  2, 3.2.2, 3.2.3  3.3.8  3.3.9	The mistake of URL about “Alarm ON/OFF” setup is corrected. The mistake of correspondence model of Zoom command is corrected. NS202 information was added to the area coordinates parameter value about VMD area setup command. Command examples were added to VMD area setup. URL concerning “To delete VMD area” command was changed.	
1.03 beta3	02 Feb.2007	3.3.10 3.3.11	Add cgi command JPEG setup ( Quality ). Add cgi command mpeg-4 setup.	
1.04 beta	08 Feb 2007	3	CGI information on NT304 was added.	

1.04	12 Mar 2007	3.1.1	In the explanation concerning the response of "/cgi-bin/getuid", WV-NF282 is added to the explanation of (*2).	
		3.1.2	It's added the information that WJ-NT304 is not support "resolution" parameter in the command of "Request JPEG video transmission"  In the [Note], the description of "WV-NP1004: Maximum frame rate becomes 30fps" is corrected to "15fps" at the full scan mode.	
		3.1.6	In WJ-NT304, because the CH parameter of audio transmission CGI was unnecessary, the CH parameter was deleted.	
		4.10	About MPEG-4 RTP data format information was added.	
		7.1	About information that can be notified when the alarm is generated was added.	
		8.3	About User ID(UID) information was added.	
		3.3.11	About information that can be changed MPEG4 unicast port number on camera	
		3.3.12	About information that can be changed scan mode setup for WV-NP1000 was added.	
		3.3.1 7.1(3)	The mistake of the command example "MHttpUrl" in Alarm notification setup was corrected.	
		6.1 6.2 6.3	The description of the parameter unnecessary "UID" was deleted from the sequence of "/cgi-bin/directctrl".	
1.05	2007/04/11	All	CGI information on NW484 was added.	
1.06beta	2007/04/27	3.3.13	Information on the initialization command was added.	
		3.3.14	Information on the Daylight saving (Summertime) setup command was added.	
		3.3.15	Information on the audio setup command was added.	
		3.3.16	Information on the SNMP setup command was added.	
		3.3.17	Information on the image setup command was added.	
		3.3.18	Information on the ABF command was added.	

1.06be -ta2	2007/05/07	4.10.2	Information about MPEG-4 header specification of Panasonic network camera was added.	
1.06	2007/05/16	3.3.6	Information about HTTP port number setup CGI was added. Information about DNS setup CGI was added.	
		3.3.11	Information about multicast setup CGI for mpeg-4 was added.	
		3.3.13	Information about analog camera restart command (only NT304) was added.	
		3.3.19	Information about total bit rate setup CGI was added.	
		3.3.20 3.3.21 3.3.22	Information about Panasonic alarm notification setup CGI was added.	
		3.3.23 3.3.24 3.3.25 3.3.26	Information about JPEG/MPEG-4 setup CGI for WJ-NT304 was added.	
		ALL	Information about CGI method was added.	
1.07	2007/09/06	ALL	CGI information on NS202A was added.	
		3.2.4	The mistake of the parameter value of the focus command was corrected (The sign was opposite).	
		3.2.14	The mistake of the parameter value of the zoom command was corrected (The sign was opposite).	
		3.2.20	Note about B/W switch for NS202A was added.	
		3.2.21 6.4	Information about pan/tilt speed setup (256 step) CGI for WV-NS202A was added.	
		3.3.17	The mistake of the comments "shutter" in Image setup command was correct.	
		3.3.18	The information of the manual back focus setup was added.	
		3.3.23	The mistake of the command example "chkuse" in CH selection command (NT304) was corrected.	
		3.3.26	The command example was changed	
		3.3.27 10	Information about getting setup data list CGI and response format was added.	

1.08	2007/09/27	3.3.8 10	The new parameter value of the "detection sensitivity" for NS202A was added.	
		7.4	The example of the acquiring image data in SD memory card by using Windows command prompt was changed.	
		10	The mistake of the explanation about "ORGALM1 to ORGALM8" and "ORGNOTICE1 to ORGNOTICE8" was corrected.	
		10	The sequence of the getting setup data list was added.	
	2007/10/12	ALL	CGI information on NS954/NW964 was added.	
		10	Information about compatible model number of getting setup data list CGI was added.	
		10	Information about the response of getting setup data ("PATROLNO" and "PATROLSET") was added.	
		4.11	Basic sequence of audio output was added.	
1.10	2008/01/31	9	Chapter 9 was deleted. And Chapter 10 became to Chapter 9.	
		ALL	CGI information on NT314 was added.	
		3.3.28 3.3.29 3.3.30 3.3.31 3.3.32 3.3.33 3.3.34 3.3.35	CGI information about the AVMD setup was added.	
		ALL	CGI information on NF302/NP304 was added.	
		3.3.36	Information about the setting of the privacy zone was added.	
		3.3.37	Information about setting relating the priority stream was added.	
1.11	2008/02/28	4.10.3 4.10.4	Information about MPEG-4 RTP format on NF302/NP302 was added.	

## Index

1. Introduction .....	9
2. Compatible chart by models .....	10
3. Interface commands (CGI) .....	15
3.1. CGI commands list for video transmission .....	15
3.1.1. User management of video transmission .....	15
3.1.2. Request JPEG video transmission.....	21
3.1.3. MPEG-4 video transmission.....	24
3.1.4. Change I-frame insertion interval.....	26
3.1.5. I-frame insertion .....	27
3.1.6. Audio transmission .....	28
3.1.7. Keep Alive .....	30
3.1.8. Request JPEG image as a one shot .....	31
3.1.9. Alarm image acquisition.....	33
3.1.10. Get product information .....	34
3.1.11. Note .....	34
3.2. CGI commands list for camera control .....	35
3.2.1. Pan/Tilt .....	35
3.2.2. Zoom (recommendation) .....	36
3.2.3. Zoom.....	36
3.2.4. Focus .....	37
3.2.5. Auto Focus .....	38
3.2.6. Brightness (recommendation).....	39
3.2.7. Brightness.....	40
3.2.8. Auto Mode (recommendation) .....	41
3.2.9. Auto Pan .....	42
3.2.10. Preset.....	43
3.2.11. Acquire absolute angle.....	44
3.2.12. Set up absolute angle .....	45
3.2.13. Speed setup (pan/tilt) .....	47
3.2.14. Speed setup (zoom).....	48
3.2.15. Speed setup (focus).....	49
3.2.16. Alarm Reset .....	50
3.2.17. AUX terminal control.....	50
3.2.18. Position setup .....	52
3.2.19. Set dwell time .....	54
3.2.20. B/W Switch.....	55

3.2.21.	Pan/Tilt speed setup (256 step) .....	56
3.3.	CGI commands list for setup change .....	57
3.3.1.	Alarm notification setup.....	57
3.3.2.	Time & date setup.....	59
3.3.3.	NTP setup .....	61
3.3.4.	Camera title.....	65
3.3.5.	Camera title on the screen .....	67
3.3.6.	Network setup .....	68
3.3.7.	Alarm ON/OFF (VMD ON/OFF) .....	71
3.3.8.	VMD area setup .....	71
3.3.9.	To delete VMD area.....	81
3.3.10.	JPEG setup .....	83
3.3.11.	MPEG-4 setup.....	85
3.3.12.	Scan mode setup (WV-NP1000) .....	89
3.3.13.	Initialization .....	90
3.3.14.	Daylight saving (Summertime) setup.....	91
3.3.15.	Audio setup .....	92
3.3.16.	SNMP setup .....	95
3.3.17.	Image Setup .....	96
3.3.18.	Auto back focus.....	103
3.3.19.	Total bit rate setup .....	104
3.3.20.	Panasonic alarm (TCP) notification setup.....	105
3.3.21.	Destination IP address setup for Panasonic alarm (TCP) notification .....	106
3.3.22.	Delete destination IP address (Panasonic alarm notification).....	109
3.3.23.	CH selection .....	110
3.3.24.	Common JPEG setup .....	112
3.3.25.	Common MPEG-4 setup.....	114
3.3.26.	CH individual MPEG-4 setup.....	116
3.3.27.	Get setup data list .....	119
3.3.28.	Detection program setup (AVMD setup).....	120
3.3.29.	Delete the detection program (AVMD setup) .....	128
3.3.30.	Set the detection depth (AVMD setup) .....	129
3.3.31.	Delete the setting of detection depth (AVMD setup) .....	131
3.3.32.	Get result of the manual detection depth calculation (AVMD setup).....	132
3.3.33.	Get result of the auto detection depth calculation (AVMD setup).....	133
3.3.34.	Stop the auto detection depth calculation (AVMD setup) .....	134
3.3.35.	Set the AVMD schedule (AVMD setup).....	135
3.3.36.	Set privacy zone.....	143

3.3.37.	Set relating the priority stream .....	147
4.	Basic sequence .....	149
4.1.	Video stream (JPEG) transmission.....	149
4.2.	Video stream (JPEG) and audio transmission .....	151
4.3.	Data format of JPEG stream transmission.....	152
4.4.	Video stream (MPEG-4 unicast) transmission.....	153
4.5.	Video stream (MPEG-4 unicast) and audio transmission .....	155
4.6.	Video stream (MPEG-4 multicast) transmission .....	156
4.7.	Video stream (MPEG-4 multicast) and audio transmission.....	157
4.8.	One shot (JPEG) request .....	158
4.9.	Getting product information.....	159
4.10.	MPEG-4 RTP data format.....	164
4.10.1.	MPEG-4 RTP header.....	164
4.10.2.	Header specification of Panasonic network camera .....	164
4.10.3.	MPEG-4 RTP header (NF302, NP304) .....	165
4.10.4.	Header extension (NF302, NP304) .....	166
4.11.	Audio output .....	168
4.11.1.	Note .....	168
4.11.2.	Audio output with JPEG transmission.....	169
4.11.3.	Audio output with MPEG-4 unicast transmission.....	170
5.	Basic sequence (absolute angle acquisition/setup, get preset position).....	171
5.1.	Absolute angle acquisition.....	171
5.2.	Absolute angle setup .....	172
5.3.	Restriction matters about absolute angle acquisition/setup.....	172
6.	Basic sequence (Speed setup) .....	174
6.1.	Pan/Tilt.....	174
6.2.	Zoom .....	175
6.3.	Focus.....	175
6.4.	Pan/Tilt(256 step) .....	176
7.	Alarm function .....	177
7.1.	Alarm notification .....	177
7.2.	Alarm image acquisition.....	178
7.3.	Alarm image notification format.....	179
7.4.	Function to store alarm images in SD memory card.....	180
8.	Access user limit and frame rate information.....	182
8.1.	Access user limit information (JPEG/MPEG4) .....	182
8.2.	Frame rate table in case of multi access.....	182
8.2.1.	JPEG frame rate in case of multiple access.....	182



- 8.2.2. MPEG-4 frame rate in case of multiple access ..... 183
- 8.3. About User ID (UID) ..... 184
  - 8.3.1. About User ID (UID)..... 184
  - 8.3.2. The response of UID acquisition ( succeed or fail ) ..... 185
- 9. The command response of “get setup data list”..... 187

## **1. Introduction**

This document describes the interface specification to control network camera from Ethernet. It consists of interface commands list, basic sequence and alarm function.

## 2. Compatible chart by models

Compatible chart by models

	CGI commands	URL	Model Number & Correspondence version									
			WV-NP1004	WV-NP244	WV-NS202	WV-NF284	WJ-NT304	WV-NW484	WV-NS202A	WV-NS954 WV-NW964	WJ-NT314	WV-NF302 WV-NP304
			V1.21	V1.23	V1.11	V1.01	V1.03.01	V1.01	V2.01			
<a href="#">3.1.1</a>	User management of video transmission	/cgi-bin/getuid	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.1.2</a>	Request JPEG video transmission	/cgi-bin/jpeg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.1.3</a>	Request MPEG-4 video transmission	/cgi-bin/mpeg4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.1.4</a>	Change I-frame insertion Interval	/cgi-bin/mpeg4_l_interval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.1.5</a>	I-Frame insertion	/cgi-bin/mpeg4_l_insert	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.1.6</a>	Audio transmission	/cgi-bin/audio	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes
<a href="#">3.1.7</a>	Keep Alive	/cgi-bin/keep_alive	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.1.8</a>	Request JPEG image as a one shot	/cgi-bin/camera	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.1.9</a>	Alarm image acquisition	/cgi-bin/replayrecord	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.1.10</a>	Get product Information	/cgi-bin/getinfo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.2.1</a>	Pan/Tilt	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

<a href="#">3.2.2</a>	Zoom(recommendation)	/cgi-bin/camctrl	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	N/A
<a href="#">3.2.3</a>	Zoom	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A
<a href="#">3.2.4</a>	Focus	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A
<a href="#">3.2.5</a>	Auto Focus	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	N/A
<a href="#">3.2.6</a>	Brightness(recommendation)	/cgi-bin/camctrl	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.2.7</a>	Brightness	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.2.8</a>	Auto Mode (recommendation)	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	N/A
<a href="#">3.2.9</a>	Auto Pan URL:	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	N/A
<a href="#">3.2.10</a>	Preset	/cgi-bin/camctrl	N/A	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	N/A
<a href="#">3.2.11</a>	Acquire absolute angle	/cgi-bin/absget	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes	N/A	N/A
<a href="#">3.2.12</a>	Set up absolute Angle	/cgi-bin/absctrl	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes	N/A	N/A
<a href="#">3.2.13</a>	Speed setup (pan/tilt)	/cgi-bin/directctrl	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A
<a href="#">3.2.14</a>	Speed setup (zoom)	/cgi-bin/directctrl	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A
<a href="#">3.2.15</a>	Speed setup(focus)	/cgi-bin/directctrl	N/A	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	N/A
<a href="#">3.2.16</a>	Alarm Reset	/cgi-bin/alarm_reset	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.2.17</a>	AUX terminal Control	/cgi-bin/pioctrl	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.2.18</a>	Position setup	/cgi-bin/camposist	N/A	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	N/A
<a href="#">3.2.19</a>	Set dwell time	/cgi-bin/set_preposition	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes	N/A	N/A
<a href="#">3.2.20</a>	B/W Switch	/cgi-bin/camctrl	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.2.21</a>	Pan/Tilt speed setup (256 step )	/cgi-bin/directctrl	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

<a href="#">3.3.1</a>	Alarm notification setup	/cgi-bin/set	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.2</a>	Time & date setup	/cgi-bin/set_basic	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.3</a>	NTP setup	/cgi-bin/time	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.4</a>	Camera title	/cgi-bin/set_basic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.5</a>	Camera title on the screen	/cgi-bin/set_camfunc	N/A	N/A	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.6</a>	Network setup	/cgi-bin/network	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.7</a>	Alarm ON/OFF	/cgi-bin/almsetup	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.8</a>	VMD area setup	/cgi-bin/set_vmdarea	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.9</a>	To delete VMD area	/cgi-bin/del_vmdarea	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.10</a>	JPEG setup	/cgi-bin/set_jpeg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.11</a>	MPEG-4 setup	/cgi-bin/set_mpeg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.12</a>	Scan mode setup	/cgi-bin/set_image mode	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<a href="#">3.3.13</a>	Initialization	/cgi-bin/initial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.14</a>	Daylight saving (Summertime)	/cgi-bin/set_basic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.15</a>	Audio setup	/cgi-bin/set_audio	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes
<a href="#">3.3.16</a>	SNMP setup	/cgi-bin/set_snmp	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.17</a>	Image setup URL:	/cgi-bin/image_adjust	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes
<a href="#">3.3.18</a>	ABF	/cgi-bin/back_focuss	N/A	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A
<a href="#">3.3.19</a>	Total bit rate setup	/cgi-bin/set_bandwidth	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.20</a>	Panasonic alarm (TCP) notification setup.	/cgi-bin/pana_alm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

<a href="#">3.3.21</a>	Destination IP address setup for Panasonic alarm protocol	/cgi-bin/reg_addr	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.22</a>	Delete destination IP address	/cgi-bin/del_addr	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">3.3.23</a>	CH selection	/cgi-bin/set_jpegm peg	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A
<a href="#">2.2.24</a>	Common JPEG setup	/cgi-bin/set_jpegm peg	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.25</a>	Common MPEG-4 setup	/cgi-bin/set_jpegm peg	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.26</a>	CH individual MPEG-4 setup	/cgi-bin/set_jpegm peg	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.27</a>	Get setup data list	/cgi-bin/setdata	N/A	YES V1.25	N/A	N/A	N/A	YES	YES	YES	N/A	Yes
<a href="#">3.3.28</a>	Detection program setup	/cgi-bin/set_avm d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.29</a>	Delete the detection program	/cgi-bin/del_avm d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.30</a>	Set the detection depth	/cgi-bin/set_avm d_3d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.31</a>	Delete the setting of detection depth	/cgi-bin/del_avm d_3d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.32</a>	Get result of the manual detection depth calculation	/cgi-bin/cal_avm d_3d_manu	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.33</a>	Get result of the auto detection depth calculation	/cgi-bin/cal_avm d_3d_auto	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

<a href="#">3.3.34</a>	Stop the auto detection depth calculation	/cgi-bin/cal_avm d_3d_stop	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.35</a>	Set the AVMD schedule	/cgi-bin/set_avm d_schedule	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
<a href="#">3.3.36</a>	Set privacy zone	/cgi-bin/privacy mode	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
<a href="#">3.3.37</a>	Set relating the priority stream	/cgi-bin/set_prio rity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes

### 3. Interface commands (CGI)

CGI commands while operating the Network camera from Internet Explorer are shown below. The Camera can be controlled several functions by HTTP protocol from PC browser (Internet Explorer).

This list describes about CGI commands list for video transmission, camera control and setting change.

#### 3.1. CGI commands list for video transmission

##### 3.1.1. User management of video transmission

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for User management of video transmission

CGI command	URL	Parameter name	Parameter value	Comments
User management of video transmission	/cgi-bin/getuid (access level 3)	FILE	2 (fixed)	2 (fixed)
		vcodec	mpeg-4 jpeg	mpeg-4 : in case of transmitting MPEG-4 jpeg : in case of transmitting JPEG
		page	Random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest user ID and camera information, random numerical value is given to prevent to use cash by browser.
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] for NT304, NT314. Channel 1 works when this parameter is omitted.

Ex1) Acquire user ID (In case of JPEG transmission, random page parameter is 20040830203157)



- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302, WV-NP304

<http://192.168.0.10/cgi-bin/getuid?FILE=2&vcodec=jpeg&page=20040830203157>

- For WJ-NT304, WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/getuid?FILE=2&vcodec=jpeg&page=20040830203157&ch=2>

Ex2) As for response of acquiring user ID.

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302, WV-NP304

<http://192.168.0.10/cgi-bin/getuid?FILE=2>

- For WJ-NT304, WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/getuid?FILE=2&ch=2>

Response data is shown below.

-----  
UID=%uid%[CR][LF]  
ImageFormat=%vcodec%[CR][LF]  
sDelivery=%mum%[CR][LF]  
iMultiAdd1=%muc1%[CR][LF]  
iMultiAdd2=%muc2%[CR][LF]  
iMultiAdd3=%muc3%[CR][LF]  
iMultiAdd4=%muc4%[CR][LF]  
iMultiPort=%mcpm%[CR][LF]  
iHttpPort=%hp%[CR][LF]  
aBitrate=%br%[CR][LF]  
aInterval=%ai%[CR][LF]  
aEnable=%audio\_mode%[CR][LF]  
aEnable=%audio\_env%[CR][LF]  
iUniPort=%uctmvp%[CR][LF]  
aInPort=%uctmap%[CR][LF]  
aOutInterval=%aoi%[CR][LF]  
aOutPort=%sport%[CR][LF]  
aOutStatus=%ovs%[CR][LF]  
ePort=%event\_port%[CR][LF]  
sAlarm=%alarm%[CR][LF]  
SDrec=%sdrec%[CR][LF]  
sAUX=%aux%[CR][LF]  
aOutUID=%ovuid%[CR][LF]

iMultiAdd=%muc%[CR][LF]

-----

Comments

	Response value	Comment
UID	Numerical value	User ID
ImageFormat	mpeg-4 jpeg	Video format to transmit
sDelivery	uni, multi, uni_manual	MPEG-4 Setup uni : Unicast (Auto) multi : Multicast uni_manual : Unicast (Manual) *not use for JPEG
iMultiAdd1	224 to 239	1 <sup>st</sup> octet of multicast address *not use for JPEG and MPEG-4 unicast
iMultiAdd2	0 to 255	2 <sup>nd</sup> octet of multicast address *not use for JPEG and MPEG-4 unicast
iMultiAdd3	0 to 255	3 <sup>rd</sup> octet of multicast address *not use for JPEG and MPEG-4 unicast
iMultiAdd4	0 to 255	4 <sup>th</sup> octet of multicast address *not use for JPEG and MPEG-4 unicast
iMultiPort	numerical value	Multicast port no. *not use for JPEG and MPEG-4 unicast
iHttpPort	numerical value	HTTP port no.
aBitrate	32, 16	Audio bit rate setup 32 : 32kbps 16 : 16kbps
aInterval	20, 40, 80, 160	Setup of audio input interval (from camera to PC) 20 : 20 msec 40 : 40 msec 80 : 80 msec 160 : 160 msec

aEnable	<p>off, in, out, inout, (for NS202, NT304, NT314, NS202A, NS954, NW964, NF302 and NP304)</p> <p>inout_full (for NS950, NW960, NF302 and NP304 )</p> <p>0, 1 (for NP1004, NP244 and NF284)</p>	<p>Audio setup</p> <p>off : OFF</p> <p>in : audio input</p> <p>out : audio output</p> <p>inout : interactive</p> <p>[Note] This values are supported by NS202, NT304, NT314, NS202A, NS954, NW964, NF302 and NP304</p> <p>inout_full: Interactive (full duplex)</p> <p>[Note] This values are supported by NS954, NW964, NF302 and NP304</p> <p>0 : OFF</p> <p>1 : audio input</p> <p>[Note] This values are supported by NP1004, NP244 and NF284</p>
iUniPort	1024 to 50000	<p>Setup of the unicast port number (used to transmit images from camera).</p> <p>*not use for MPEG-4 unicast port(AUTO) or multicast</p> <p>[Note] This parameter is supported by NS202, NF284, NT304, NT314, NW484, NS202A, NS954, NW964, NF302 and NP304</p>
aInPort	1024 to 50000	<p>Setup of the unicast port number (used to transmit audio from camera).</p> <p>*not use for MPEG-4 unicast port(AUTO) or multicast</p> <p>[Note] This parameter is supported by NS202, NF284, NT304, NT314, NS202A, NS954, NW964, NF302 and NP304</p>

aOutInterval	160, 320, 640, 1280	<p>Setup of audio output interval (from PC to camera)</p> <p>160 : 160ms 320 : 320ms 640 : 640ms 1280 : 1280ms</p> <p>*not use when audio mode is OFF or for audio input</p> <p>[Note] This parameter is supported by NS202, NT304, NT314, NS202A, NS954, NW964, NF302 and NP304</p>
aOutPort	1024 to 50000	<p>Setup of audio output port (from PC to camera)</p> <p>*not use for audio mode is OFF or audio input</p> <p>*not use for MPEG-4 unicast port(AUTO) or multicast</p> <p>[Note] This parameter is supported by NS202, NT304, NT314, NS202A, NS954, NW964, NF302 and NP304</p>
aOutStatus	on, off	<p>Status of audio output</p> <p>on : busy off : not busy</p> <p>*not use when audio mode is OFF or for audio input</p> <p>[Note] This parameter is supported by NS202, NT304, NT314, NS202A, NS954, NW964, NF302 and NP304</p>
ePort	1 to 65535	<p>Setup of alarm status port</p> <p>*not use when alarm status update mode is polling (30 sec)</p> <p>[Note] This parameter is supported by NS202, NT304, NT314, NW484, NS202A, NS954, NW964, NF302 and NP304</p>

sAlarm	ON, OFF	Alarm status (CH1) ON: Alarm occurred OFF: Alarm does not occurred  [Note] NS202A, NS954, NW964, NT304, NT314, NF302 and NP304
SDrec	on, off, disable	SD recording status on: Now recording off: Now not recording disable: cannot use SD recording  [Note] NS202A, NS954, NW964, NF302 and NP304
sAUX	open, close, off	AUX status open: OPEN close: CLOSE off: cannot use AUX  [Note] NS202A, NS954, NW964, NF302 and NP304
aOutUID	numerical value	UID that is transmitting "audio output"  [Note] NS202A, NS954, NW964, NF302 and NP304
iMultiAdd	(IP address)	MPEG-4 multicast address  [Note] NF302 and NP304

### 3.1.2. Request JPEG video transmission

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for Request JPEG video transmission

CGI commands	URL	Parameter name	Parameter value	Comments
Request JPEG video transmission	/cgi-bin/jpeg (access level 3)	connect	start  stop	Transmit JPEG video stream start : start transmitting stop : stop transmitting(use for user ID which is already transmitting)
		framerate	0.1 0.2 0.33 0.5 1 2 3 5 6 10 15 30	Frame rate of stream specified from 0.1 to 30 fps  [Note] NP1004 : Maximum frame rate becomes 15 frame per second in case that scan mode setting is full scan

		resolution	640 320 960 (*1) 1280 (*2)  (*1):NP100 4 only (*2):NP100 4, NF302, NP304	Resolution to be set 640 : VGA 320 : QVGA 960 : 960 x 720 *1 1280 : 1280 x 960 *2  [Note] *1:This value is supported by NP1004. In case that scan mode setting is partial scan *2: This value is supported by NP1004, NF302, NP304 (NP1004: in case that scan mode setting is full scan)  (NT304 and NT314 do not support this parameter)
		UID	numerical value	User ID(acquired UID)
		page	Random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest user ID and camera information, random numerical value is given to prevent to use cash by browser.
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304 and NT314. Channel 1 works when this parameter is omitted.

Ex) Start to transmit JPEG video stream (in case of 15fps, VGA, user ID is 263, random page parameter is 20040830203157)

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964, WV-NF302, WV-NP304

<http://192.168.0.10/cgi-bin/jpeg?connect=start&framerate=15&resolution=640&UID=263&page=20040830203157>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/jpeg?connect=start&framerate=15&UID=263&page=20040830203157&ch=2>



### 3.1.3. MPEG-4 video transmission

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for Request MPEG-4 video transmission

CGI commands	URL	Parameter name	Parameter value	Comments
Request MPEG-4 video transmission	/cgi-bin/mpeg4 (access level 3)	my_port	numerical value	Receive port no. of mpeg-4 (Even number only)
		connect	start	Transmit video stream transmission (MPEG-4)
			stop	start : start video stream transmission stop : stop video stream transmission (for user ID which has already started stream transmission)  *The value "stop" is effective only unicast setting.
		protocol	rtp	rtp (fixed)
		UID	numerical value	User ID(acquired UID)
		page	Random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest user ID and camera information, random numerical value is given to prevent to use cash by browser.

		ch	1, 2, 3, 4	<p>1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4</p> <p>[Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.</p>
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Ex) Start to transmit MPEG-4 video stream (in case that port no. 37004 and user ID is 263, random page parameter is 20040830203157)

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964, WV-NF302, WV-NP304

[http://192.168.0.10/cgi-bin/mpeg4?my\\_port=37004&connect=start&protocol=rtp&UID=263&page=20040830203157](http://192.168.0.10/cgi-bin/mpeg4?my_port=37004&connect=start&protocol=rtp&UID=263&page=20040830203157)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/mpeg4?my\\_port=37004&connect=start&protocol=rtp&UID=263&page=20040830203157&ch=2](http://192.168.0.10/cgi-bin/mpeg4?my_port=37004&connect=start&protocol=rtp&UID=263&page=20040830203157&ch=2)

### 3.1.4. Change I-frame insertion interval

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for Change I-frame insertion interval

CGI commands	URL	Parameter name	Parameter value	Comments
Change I-frame insertion interval	/cgi-bin/mpeg4_I_interval (access level 3)	interval	1~5	I-frame insertion interval number of the seconds (1~5) *Change I-frame interval for all users to transmit MPEG-4
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Set I-frame interval as 5 seconds

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964, WV-NF302, WV-NP304

[http://192.168.0.10/cgi-bin/mpeg4\\_I\\_interval?interval=5](http://192.168.0.10/cgi-bin/mpeg4_I_interval?interval=5)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/mpeg4\\_I\\_interval?interval=5&ch=2](http://192.168.0.10/cgi-bin/mpeg4_I_interval?interval=5&ch=2)

### 3.1.5. I-frame insertion

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for I-frame insertion

CGI commands	URL	Parameter name	Parameter value	Comments
I-frame insertion	/cgi-bin/mpeg4_I_insert (access level 3)	ch	1, 2, 3, 4	<p>Insert I-frame</p> <p>*Insert I-frame for all users to transmit MPEG-4</p> <p>1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4</p> <p>[Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.</p>

Ex) I-frame insertion

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964, WV-NF302, WV-NP304

[http://192.168.0.10/cgi-bin/mpeg4\\_I\\_insert](http://192.168.0.10/cgi-bin/mpeg4_I_insert)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/mpeg4\\_I\\_insert?ch=2](http://192.168.0.10/cgi-bin/mpeg4_I_insert?ch=2)

### 3.1.6. Audio transmission

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for Audio transmission

CGI commands	URL	Parameter name	Parameter value	Comments
Audio transmission	/cgi-bin/audio (access level 3)	connect	start	Transmit audio start : start audio transmission
			stop	stop : stop audio transmission (for user ID which has already started stream transmission)
		protocol	rtp	rtp : audio transmission in case of MPEG-4
			http	http : audio transmission in case of JPEG
		my_port	numerical value	Receive port no. of audio It is possible to omit in case of MPEG-4 multicast and JPEG transmission (Even number only)
		mode	in	in: audio input
			out	out: audio output  [Note] This parameter is supported by NS202, NS202A, NS954, NW964, NT304, NT314, NF302 and NP304  If another product receives this parameter, it's applied to an audio input.
		UID	numerical value	User ID(acquired UID)

		page	Random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest user ID and camera information, random numerical value is given to prevent to use cash by browser.
--	--	------	------------------------	---

Ex) Audio transmission start (in case of MPEG-4, port no. 38004 and user ID is 263, random page parameter is 20040830203157)

- For WV-NP1000, WV-NP244 and WV-NF284

[http://192.168.0.10/cgi-bin/audio?my\\_port=38004&connect=start&protocol=rtp&UID=263&page=20040830203157](http://192.168.0.10/cgi-bin/audio?my_port=38004&connect=start&protocol=rtp&UID=263&page=20040830203157)

- For WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

[http://192.168.0.10/cgi-bin/audio?my\\_port=38004&connect=start&protocol=rtp&UID=263&mode=in&page=20040830203157](http://192.168.0.10/cgi-bin/audio?my_port=38004&connect=start&protocol=rtp&UID=263&mode=in&page=20040830203157)

### 3.1.7. Keep Alive

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for Keep Alive

CGI commands	URL	Parameter name	Parameter value	Comments
"Keep Alive"	/cgi-bin/keep_alive (No authentication)	mode	mpeg4 jpeg audio	mpeg4 : "Keep Alive" of MPEG-4 jpeg : "Keep Alive" of JPEG audio : "Keep Alive" of audio
		protocol	rtp http	Transmission method rtp : RTP transmission (MPEG-4, audio) http : HTTP transmission (JPEG, audio)
		UID	0~65535	User ID(acquired UID)
		page	Random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest user ID and camera information, random numerical value is given to prevent to use cash by browser.

Ex) "Keep Alive" of JPEG transmission (in case of user ID is "263", random page parameter is 20040830203157)

[http://192.168.0.10/cgi-bin/keep\\_alive?mode=jpeg&protocol=http&UID=263&page=20040830203157](http://192.168.0.10/cgi-bin/keep_alive?mode=jpeg&protocol=http&UID=263&page=20040830203157)

### 3.1.8. Request JPEG image as a one shot

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for Request JPEG image as a one shot

CGI commands	URL	Parameter name	Parameter value	Comments
Request JPEG image as a one shot	/cgi-bin/camera (access level 3)	resolution	640 320 960 (*) 1280 (*)  (*):WV-NP1004 only	Resolution to be set 640 : VGA 320 : QVGA 960 : 960 x 720 *1 1280 : 1280 x 960 *2  [Note] *1:This value is supported by NP1004. In case that scan mode setting is partial scan *2: This value is supported by NP1004, NF302, NP304 (NP1004: in case that scan mode setting is full scan)  (NT304 and NT314 do not support this parameter)
		page	random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest user ID and camera information, random numerical value is given to prevent to use cash by browser.



		ch	1, 2, 3, 4	<p>1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4</p> <p>[Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.</p>
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Ex) Request JPEG image as a one shot (In case of resolution 640 x 480, random page parameter is 20040830203157)

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964, WV-NF302, WV-NP304

<http://192.168.0.10/cgi-bin/camera?resolution=640&page=20040830203157>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camera?page=20040830203157&ch=2>

### 3.1.9. Alarm image acquisition

Correspondence model: WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A, WV-NS954,  
WV-NW964, WV-NF302, WV-NP304, WV-NF302, WV-NP304

Method: GET/POST

Table: CGI command for Alarm image acquisition

CGI commands	URL	Parameter name	Parameter value	Comments
Alarm image acquisition	/cgi-bin/replayrecord (access level 3)	ALMNO	numerical value	Alarm number converted by “%G” or “%ano”
		INTERVAL	50 or 100 or 500 or 1000	Transmission interval of alarm image 50: approx. 50msec 100: approx. 100msec 500: approx. 500msec 1000: approx. 1sec  [Note] It operates by 50msec, when this parameter is omitted.

Ex) Alarm image acquisition (in case of alarm no. 123)

<http://192.168.0.10/cgi-bin/replayrecord?ALMNO=123&INTERVAL=50>

### 3.1.10. Get product information

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for Get product information

CGI commands	URL	Parameter name	Parameter value	Comments
Get product information (MAC address, version, model number)	/cgi-bin/getinfo (access level 3)	FILE	1	1(fixed)
		page	random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest information, random numerical value is given to prevent to use cash by browser.

Ex) Get product information (random page parameter is 20040830203157)

<http://192.168.0.10/cgi-bin/getinfo?FILE=1&page=20040830203157>

### 3.1.11. Note

\* Regarding video stream transmission, a frame rate can be set, however the video transmission speed may become slower than frame rate setting by network environment, numbers of camera access users, resolution or setting of image quality.

## 3.2. CGI commands list for camera control

### 3.2.1. Pan/Tilt

Correspondence model: WV-NS202, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Method: GET

Table: CGI command for Pan/Tilt control

CGI command	URL	Parameter name	Parameter value	Comments
Pan/Tilt	/cgi-bin/camctrl (access level 2)	pan	-5,-4,-3,-2,-1,0,1,2,3,4,5	Negative : Left Positive : Right Specify travel distance for horizontal direction *Use with tilt parameter(See example)
		tilt	-4,-3,-2,-1,0,1,2,3,4	Negative : Up Positive : Down Specify travel distance for vertical direction *Use with pan parameter(See example)
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

\*) WV-NW484: "PAN/TILT" are available for an image enlarged by the EL-zoom function.

Ex) Camera control PAN=1, TILT=4 (1 step to right and 4 step to downward)

- For WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?pan=1&tilt=4>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?pan=1&tilt=4&ch=2>

### 3.2.2. Zoom (recommendation)

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964

Method: GET

Table: CGI command for zoom control

CGI command	URL	Parameter name	Parameter value	Comments
Zoom(recommendation)	/cgi-bin/camctrl (access level 2)	times	up down	up : TELE down : WIDE

Ex) Zoom (recommendation: move to TELE direction)

<http://192.168.0.10/cgi-bin/camctrl?times=up>Yes

### 3.2.3. Zoom

Correspondence model: WV-NS202, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964,  
WJ-NT314

Method: GET

Table: CGI command for zoom control

CGI command	URL	Parameter name	Parameter value	Comments
Zoom	/cgi-bin/camctrl (access level 2)	zoom	-3 3	-3 : WIDE 3 : TELE
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) ZOOM (move to TELE direction)

- For WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?zoom=3>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?zoom=3&ch=2>

### 3.2.4. Focus

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Method: GET

Table: CGI command for focus

CGI command	URL	Parameter name	Parameter value	Comments
Focus	/cgi-bin/camctrl (access level 2)	focus	-3 3	-3 : NEAR 3 : FAR
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Focus (move to NEAR direction)

- For WV-NS202,WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?focus=3>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?focus=3&ch=2>

### 3.2.5. Auto Focus

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Method: GET

Table: CGI commands for auto focus

CGI command	URL	Parameter name	Parameter value	Comments
Auto Focus	/cgi-bin/camctrl (access level 2)	af	on	auto focus
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Auto focus (Auto focus start-up)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?af=on>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?af=on&ch=2>

### 3.2.6. Brightness (recommendation)

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for camera control

CGI command	URL	Parameter name	Parameter value	Comments
Brightness(recommendation)	/cgi-bin/camctrl (access level 2)	bright	1(RESET), up/down	1 : return to default up : make bright down : make dark
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Brightness (making 1 step bright)

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302 and WV-NP304

<http://192.168.0.10/cgi-bin/camctrl?bright=up>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?bright=up&ch=2>



### 3.2.7. Brightness

Correspondence model: WV-NS202, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964,  
WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Brightness	/cgi-bin/camctrl (access level 2)	iris	-2 0 2	-2 : make dark 0 : return to default 2 : make bright
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Brightness (make dark)

- For WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?iris=-2>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?iris=-2&ch=2>

### 3.2.8. Auto Mode (recommendation)

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Auto Mode (recommendation)	/cgi-bin/camctrl (access level 2)	atmode	off atpan seq attrack sort patrol	Off : stop auto mode atpan : start auto pan seq : start preset sequence attrack : start auto tracking*1 sort:: start sort function *2 patrol: start patrol function *2  [Note] *1 :This value is supported by NS202, NS202A, NS954, NW964 *2 :This values are supported by NT304, NT314
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Auto mode (Auto pan start-up)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?atmode=atpan>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?atmode=atpan&ch=2>

Ex) Auto mode (Preset sequence start-up)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?atmode=seq>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?atmode=seq&ch=2>

### 3.2.9. Auto Pan

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Auto Pan	/cgi-bin/camctrl (access level 2)	atpan	on off	on : start auto pan off : stop auto pan
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Auto Pan

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?atpan=on>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?atpan=on&ch=2>

### 3.2.10. Preset

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Method: GET

Table: CGI command list for camera control

CGI command	URL	Parameter name	Parameter value	Comments
Preset	/cgi-bin/camctrl (access level 2)	preset	0 to 256	0 : call home position NS202 and NS202A -> 1 to 64 : call preset position NT304 and NT314 -> 1 to 256 : call preset position
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Preset (Call home position)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camctrl?preset=0>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camctrl?preset=0&ch=2>

### 3.2.11. Acquire absolute angle

Correspondence model: WV-NS202, WV-NS202A, WV-NS954, WV-NW964

Method: GET

Table: CGI command list for camera control

CGI command	URL	Parameter name	Parameter value	Comments
Acquire absolute angle	/cgi-bin/absget (access level 2)	page	random numerical value	Dummy to make cash invalid(it is possible to omit) *To acquire latest absolute angle, random numerical value is given to prevent to use cash by browser.

Ex) Acquire absolute angle (In case of random page parameter is 20040830203157)

<http://192.168.0.10/cgi-bin/absget?page=20040830203157>

### 3.2.12. Set up absolute angle

Correspondence model: WV-NS202, WV-NS202A, WV-NS954, WV-NW964

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Set up absolute angle	/cgi-bin/absctrl (access level 2)	pan	0 ~ 3500 (*1)  0 ~ 3599 (*2)  (*1)NS202, NS202A (*2)NS954, NW964	Set up pan parameter Setup range : NS202,NS202A->0 deg ~350.0 deg NS954,NW964->0 deg ~359.9 deg  0 : 0 deg 3500 : 350.0 deg 3599 : 359.9 deg  *Use with tilt, zoom, focus parameters(See example)
		tilt	-300~900 (*1)  -50~900 (*2)  (*1)NS202, NS202A (*2)NS954, NW964	Set up tilt parameter Setup range : NS202,NS202A->-30.0deg~90.0deg NS954,NW964->-5.0deg~90.0deg  -300 : -30.0 deg (upward) -50 : -50.0 deg(upward) 0 : 0 deg (horizontal) 900 : 90.0 deg (straight downward)  *Use with tilt, zoom, focus parameters(See example)

CGI command	URL	Parameter name	Parameter value	Comments
		zoom	10~220(*1)  10~300(*2)          (*1)NS202, NS202A (*2)NS954, NW964	Set up zoom parameter Setup range : NS202,NS202A->x1.0 ~ x22.0 NS954,NW964 ->x1.0 ~ x30.3  10 : x1.0 220 : x22.0 300 : x30.0  *Use with tilt, zoom, focus parameters(See example)
		focus	14~9999	Set up focus parameter Setup range : 1.4m ~ 999.9m 14 : 1.4m 9999 : 999.9m  *Use with tilt, zoom, focus parameters(See example)

Ex) Absolute angle setup (PAN160 deg, TILT85 deg, zoom x5.2, focus 100m)

<http://192.168.0.10/cgi-bin/absctrl?pan=1600&tilt=850&zoom=52&focus=1000>

### 3.2.13. Speed setup (pan/tilt)

Correspondence model: WV-NS202, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964,  
WJ-NT314

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Speed setup (pan/tilt)	/cgi-bin/directctrl (access level 2)	pan	-16 to 16	Set up pan speed(16 step ) -16(fast) ~ -1(slow):left 1(slow) ~ 16(fast):right 0 : stop pan motion
		tilt	-16 to 16	Set up tilt speed( 16 step ) -16(fast) ~ -1(slow):upward 1(slow) ~ 16(fast):downward 0 : stop tilt motion
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex1) Speed setup (speed 15 for right direction and speed 10 for downward) in 16 step command.

- For WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/directctrl?pan=15&tilt=10>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/directctrl?pan=15&tilt=10&ch=2>

Ex2) Speed setup (PAN, TILT stop)

- For WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/directctrl?pan=0&tilt=0>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/directctrl?pan=0&tilt=0&ch=2>



### 3.2.14. Speed setup (zoom)

Correspondence model: WV-NS202, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964,  
WJ-NT314

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Speed setup (zoom)	/cgi-bin/directctrl (access level 2)	zoom	-4~4	Set up zoom speed -4(fast) ~ -1(slow):wide 1(slow) ~ 4(fast):tele 0 : stop zoom motion
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Speed setup (Zoom speed 3)

- For WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/directctrl?zoom=3>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/directctrl?zoom=3&ch=2>

### 3.2.15. Speed setup (focus)

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Speed setup (focus)	/cgi-bin/directctrl (access level 2)	focus	-4~4	Set up focus speed -4(fast) ~ -1(slow):near 1(slow) ~ 4(fast):far 0 : stop focus motion
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.

Ex) Speed setup (focus speed 3)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/directctrl?focus=3>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/directctrl?focus=3&ch=2>

### 3.2.16. Alarm Reset

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Alarm Reset	/cgi-bin/alarm_reset (access level 2)	display	suspend	suspend fixed

Ex) Alarm Reset

[http://192.168.0.10/cgi-bin/alarm\\_reset?display=suspend](http://192.168.0.10/cgi-bin/alarm_reset?display=suspend)

### 3.2.17. AUX terminal control

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
AUX terminal control	/cgi-bin/pioctrl (access level 2)	almtrm	no/nc	no : AUX output open nc : close  [Note]Terminal alarm 3 is needed to set as AUX output for NS202, NS202A, NS954, NW964

CGI command	URL	Parameter name	Parameter value	Comments
		almtrmno	1, 2, 3	1: Camera's AUX Terminal No.1 2: Camera's AUX Terminal No.2 3: NT304/NT314's AUX Terminal  [Note] This parameter is supported by NT304, NT314.
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304, NT314. Channel 1 works when this parameter is omitted.  In the case of almtrm=3, this parameter is unnecessary.

Ex) AUX terminal OPEN

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302 and WV-NP304

<http://192.168.0.10/cgi-bin/pioctrl?almtrm=no>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/pioctrl?almtrm=no&almtrmno=1&ch=2>

### 3.2.18. Position setup

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314

Note: Response is replied by html.

Method: GET/POST

Table: CGI commands list for camera controls

CGI command	URL	Parameter name	Parameter value	Comments
Position setup  Note : response is replied by html	/cgi-bin/camposiset (access level 1)	presetset	1 to 256	Preset position registration  1 to 64: NS202,NS202A 1 to 256: NT304, NT314, NS954, NW964
		presetdel	1 to 256	Preset position delete (1 to 256)  [Note] This parameter is supported by NS202, NS202A, NS954 and NW964
		apanstart	on	Registration of auto pan start position  [Note] This parameter is supported by NS202, NS202A, NS954 and NW964
		apanend	on	Registration of auto pan end position  [Note] This parameter is supported by NS202, NS202A, NS954 and NW964

CGI command	URL	Parameter name	Parameter value	Comments
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304 and NT314. Channel 1 works when this parameter is omitted.

Ex1) Position setup (Registration of preset position 1)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964

<http://192.168.0.10/cgi-bin/camposiset?presetset=1>

- For WJ-NT304 and WJ-NT314( channel 2 )

<http://192.168.0.10/cgi-bin/camposiset?presetset=256&ch=2>

Ex2) Position setup (Registration of Auto pan start position)

<http://192.168.0.10/cgi-bin/camposiset?apanstart=on>

Ex3) Position setup (Delete of preset position 64)

<http://192.168.0.10/cgi-bin/camposiset?presetdel=64>

### 3.2.19. Set dwell time

Correspondence model: WV-NS202, WV-NS202A, WV-NS954, WV-NW964

Method: GET/POST

[Note]: Use this when auto mode is OFF

Table: CGI command to set dwell time

CGI command	URL	Parameter name	Parameter value	Comments
Set dwell time	/cgi-bin/set_preposi (access level 1)	preno	1 to 256	Preset No.  1 to 64: NS202,NS202A 1 to 256: NS954, NW964
		preposiid_ display	0, 1	Display the preset ID 0: OFF 1: ON
		preposiid	(1-16 characters)	Preset ID Transmit "+" in case of setting a blank column
		stoptime	5,10,20,30	dwell time 5 sec / 10 sec / 20 sec / 30sec

Ex1) Display preset ID of "preset 30" as "POS130"

[http://192.168.0.10/cgi-bin/set\\_preposi?preno=30&preposiid\\_display=1&preposiid=POS130&stoptime=10](http://192.168.0.10/cgi-bin/set_preposi?preno=30&preposiid_display=1&preposiid=POS130&stoptime=10)

Ex2) Set the dwell time to "5 sec"

[http://192.168.0.10/cgi-bin/set\\_preposi?preno=1&stoptime=5](http://192.168.0.10/cgi-bin/set_preposi?preno=1&stoptime=5)

### 3.2.20. B/W Switch

Correspondence model: WV-NP1000, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954,  
WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET

Table: CGI command for B/W Switch

CGI command	URL	Parameter name	Parameter value	Comments
B/W Switch	/cgi-bin/camctrl (access level 2)	black_white	off (*1), on (*2), auto1, auto2  (*1) NT304, NT314, NS202A do not supported  (*2) NP1004, NW484, NF302, NP304	off : B/W switch OFF on : B/W switch ON auto1 : B/W switch AUTO1 auto2 : B/W switch AUTO2  [Note] The behavior of the camera in “auto1” and “auto2” is the same for NS202A, NS954, NW964, NF302 and NP304.
		ch	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304 and NT314.Channel 1 works when this parameter is omitted.

Ex) B/W switch AUTO1

- For WV-NP1000, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302 and WV-NP304  
[http://192.168.0.10/cgi-bin/camctrl?black\\_white=auto1](http://192.168.0.10/cgi-bin/camctrl?black_white=auto1)
- For WJ-NT304 and WJ-NT314( channel 2 )  
[http://192.168.0.10/cgi-bin/camctrl?black\\_white=on&ch=2](http://192.168.0.10/cgi-bin/camctrl?black_white=on&ch=2)



### 3.2.21. Pan/Tilt speed setup (256 step)

Correspondence model: WV-NS202A, WV-NS954, WV-NW964

Method: GET

Table: CGI commands list for pan/tilt speed setup(256 step)

CGI command	URL	Parameter name	Parameter value	Comments
Pan/Tilt speed setup (256 step )	/cgi-bin/directctrl (access level 2)	dpan	-256 to 256	Set up pan speed(256 step) -256(fast) ~ -1(slow):left 1(slow) ~ 256(fast):right 0 : stop pan motion
		dtilt	-256 to 256	Set up tilt speed(256 step) -256(fast) ~ -1(slow):upward 1(slow) ~ 256(fast):downward 0 : stop tilt motion
		zoom	-4~4	Set up zoom speed -4(fast) ~ -1(slow):wide 1(slow) ~ 4(fast):tele 0 : stop zoom motion

Ex1) Speed setup (speed 250 for right direction and speed 200 for downward) .

<http://192.168.0.10/cgi-bin/directctrl?dpan=250&dtilt=200&zoom=0>

Ex2) Speed setup (speed 100 for left direction and speed 150 for downward, speed 4 for tele(zoom)) .

<http://192.168.0.10/cgi-bin/directctrl?dpan=-100&dtilt=150&zoom=4>

### 3.3. CGI commands list for setup change

#### 3.3.1. Alarm notification setup

Correspondence model: WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302, WV-NP304

Method: GET

Table: CGI commands list for setup change

CGI command	URL	Parameter name	Parameter value	Comments
Alarm notification setup	/cgi-bin/set (access level 1)	Func	ImageTransfer	Parameter is fixed as "ImageTransfer"
		Mmode	128 , other numerical value	Alarm notification setup 128 : use (ON) other numerical value : not use (OFF) Default : OFF (0-8byte)
		MhttpUrl	character string	URL setup of alarm notification (0-255byte) (*Supplement 1)
		MID	character string	Login name to server (1-63byte)
		Mpassword	character string	Login password to server (0-63byte)

Ex) Alarm notification setup (in case of notifying "/cgi-bin/alarm?Task=1&alarmno=123" to "192.168.0.200(server)" at the time of alarm occurrence)

<http://192.168.0.10/cgi-bin/set?Func=ImageTransfer&MMode=128&MHttpUrl=http://192.168.0.200/cgi-bin/alarm%3fTask%3d1%26alarmno%3d%25ano&MID=user&MPassword=pass>

(\*Supplement 1)

- To acquire "alarm no." as the argument of MHttpUrl, set "%G(%25G)" or "%ano(%25ano)".  
Alarm no. is numerical value from 1 to 65535(decimal number).
- To acquire "frame rate setup of post alarm" as the argument of MHttpUrl, set "%pofj(%25pofj)".
- To acquire "Alarm occurrence time" in the argument of MHttpUrl, set "%atime(%25atime)".  
Alarm occurrence time can be acquired as following format.

year(2digit)+month(2 digit)+day(2 digit)+hour(2 digit)+minute(2 digit)+second(2 digit)

Ex) Occurred at 09:32:19 Dec 4 2005 → "051204093219"

It displays by 24-hours regardless of setting 12-hours or 24-hours

- Response of Alarm notification setup (<http://192.168.0.10/cgi-bin/set>)

Response is shown below.

-----

HTTP/1.1 200 OK[CR][LF]

Content-type: text/plain[CR][LF][CR][LF]

Return: 0[CR][LF]

-----

[About return value]

- 0: Setup registration success
- 1: No Func parameter
- 4: Func parameter value is other than "ImageTransfer"
- 6: Setup registration failure
- 7: Other parameter value error

### 3.3.2. Time & date setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for setup change

CGI command	URL	Parameter name	Parameter value	Comments
Time & date setup	/cgi-bin/set_basic (access level 1)	set_year	2006 - 2035	Year (Manual setup)
		set_month	1 - 12	Month (Manual setup)
		set_day	1 - 31	Date (Manual setup)
		set_hour	0 - 23	Hour (Manual setup)
		set_min	0 - 59	Minute (Manual setup)
		set_sec	0 - 59	Second (Manual setup)
		set_ampm	am, pm	AM or PM (Manual setup)
		time_display	12, 24,  off (*)  (*) for NS202, NS202A, NW484	Time display format 12: 12-hours 24: 24-hours off: to hide time and date(*)
		set_time	1	Parameter is fixed as 1

CGI command	URL	Parameter name	Parameter value	Comments
		display_place	ul, bl, ur, br,  off(*)   (*) only NP1004	OSD Position ul: Upper left bl: Lower left ur: Upper right br: Lower right  off: to hide time and date(*)  [Note] This parameter is supported by NS202, NP1004, NW484, NS202A, NS954 and NW964
		display_size	large, middle, small	Character size large : Large middle : Middle small : Small  [Note] This parameter is supported by NF302, NP304

Ex1) Change the date and time to 10/4/2007 17:20:20 (24-hours)

- For WV-NP244 and WV-NF284

[http://192.168.0.10/cgi-bin/set\\_basic?set\\_year=2007&set\\_month=10&set\\_day=4&set\\_hour=17&set\\_min=20&set\\_sec=20&time\\_display=24&set\\_time=1](http://192.168.0.10/cgi-bin/set_basic?set_year=2007&set_month=10&set_day=4&set_hour=17&set_min=20&set_sec=20&time_display=24&set_time=1)

- For WV-NP1000, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

[http://192.168.0.10/cgi-bin/set\\_basic?set\\_year=2007&set\\_month=10&set\\_day=4&set\\_hour=17&set\\_min=20&set\\_sec=20&time\\_display=24&display\\_place=ul&set\\_time=1](http://192.168.0.10/cgi-bin/set_basic?set_year=2007&set_month=10&set_day=4&set_hour=17&set_min=20&set_sec=20&time_display=24&display_place=ul&set_time=1)

Ex2) Change the date and time to 10/4/2006 5:20:20PM (12-hours)

- For WV-NP244 and WV-NF284

[http://192.168.0.10/cgi-bin/set\\_basic?set\\_year=2006&set\\_month=10&set\\_day=4&set\\_hour=5&set\\_min=20&set\\_sec=20&set\\_ampm=pm&time\\_display=12&set\\_time=1](http://192.168.0.10/cgi-bin/set_basic?set_year=2006&set_month=10&set_day=4&set_hour=5&set_min=20&set_sec=20&set_ampm=pm&time_display=12&set_time=1)

- For WV-NP1000, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964  
[http://192.168.0.10/cgi-bin/set\\_basic?set\\_year=2006&set\\_month=10&set\\_day=4&set\\_hour=5&set\\_min=20&set\\_sec=20&set\\_ampm=pm&time\\_display=12&display\\_place=ul&set\\_time=1](http://192.168.0.10/cgi-bin/set_basic?set_year=2006&set_month=10&set_day=4&set_hour=5&set_min=20&set_sec=20&set_ampm=pm&time_display=12&display_place=ul&set_time=1)

Ex3) Change the time display format to 24-hours

[http://192.168.0.10/cgi-bin/set\\_basic?set\\_year=2006&set\\_month=10&set\\_day=4&set\\_hour=17&set\\_min=20&set\\_sec=20&time\\_display=24&set\\_time=1&display\\_place=ul](http://192.168.0.10/cgi-bin/set_basic?set_year=2006&set_month=10&set_day=4&set_hour=17&set_min=20&set_sec=20&time_display=24&set_time=1&display_place=ul)

### 3.3.3. NTP setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for setup change

CGI command	URL	Parameter name	Parameter value	Comments
NTP setup	/cgi-bin/time (access level 1)	time_adjust	0, 1	Time adjustment method 0: Manual setup 1: Synchronization with NTP server
		ntp_addr	(1-128 characters)	NTP server address
		timezone	1 – 74	Time zone (*)

Ex1) Change the time adjustment method to NTP.

[http://192.168.0.10/cgi-bin/time?time\\_adjust=1](http://192.168.0.10/cgi-bin/time?time_adjust=1)

Ex2) Change the NTP server address to "192.168.0.20".

[http://192.168.0.10/cgi-bin/time?ntp\\_addr=192.168.0.20](http://192.168.0.10/cgi-bin/time?ntp_addr=192.168.0.20)

Ex3) Change the time zone to "(GMT-04:00) Atlantic time(Canada)".

<http://192.168.0.10/cgi-bin/time?timezone=17>

Ex4) Change the time adjustment method and NTP server address and time zone, time adjustment

method: NTP, NTP server address: ntp.camera.com, time zone: (GMT-04:00) Atlantic Time (Canada).

[http://192.168.0.10/cgi-bin/time?time\\_adjust=1&ntp\\_addr=ntp.camera.com&timezone=17](http://192.168.0.10/cgi-bin/time?time_adjust=1&ntp_addr=ntp.camera.com&timezone=17)

(\*) About the time zone parameter value

<option value="1">(GMT-12:00) Eniwetok, Kwajalein</option>  
<option value="2">(GMT-11:00) Midway Island, Samoa</option>  
<option value="3">(GMT-10:00) Hawaii</option>  
<option value="4">(GMT-09:00) Alaska</option>  
<option value="5">(GMT-08:00) Pacific Time (US & Canada); Tijuana</option>  
<option value="6">(GMT-07:00) Arizona</option>  
<option value="7">(GMT-07:00) Mountain Time (US & Canada)</option>  
<option value="8">(GMT-06:00) Saskatchewan</option>  
<option value="9">(GMT-06:00) Mexico City</option>  
<option value="10">(GMT-06:00) Central America</option>  
<option value="11">(GMT-06:00) Central Time (US & Canada)</option>  
<option value="12">(GMT-05:00) Indiana (East)</option>  
<option value="13">(GMT-05:00) Bogota, Lima, Quito</option>  
<option value="14">(GMT-05:00) Eastern Time (US & Canada)</option>  
<option value="15">(GMT-04:00) Caracas, La Paz</option>  
<option value="16">(GMT-04:00) Santiago</option>  
<option value="17">(GMT-04:00) Atlantic Time (Canada)</option>  
<option value="18">(GMT-03:30) Newfoundland</option>  
<option value="19">(GMT-03:00) Greenland</option>  
<option value="20">(GMT-03:00) Buenos Aires, Georgetown</option>  
<option value="21">(GMT-03:00) Brasilia</option>  
<option value="22">(GMT-02:00) Mid-Atlantic</option>  
<option value="23">(GMT-01:00) Azores</option>  
<option value="24">(GMT-01:00) Cape Verde Is.</option>  
<option value="25">(GMT) Casablanca, Monrovia</option>  
<option value="26">(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London</option>  
<option value="27">(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna</option>  
<option value="28">(GMT+01:00) Sarajevo, Skopje, Sofija, Vilnius, Warsaw, Zagreb</option>  
<option value="29">(GMT+01:00) Brussels, Copenhagen, Madrid, Paris</option>  
<option value="30">(GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague</option>  
<option value="31">(GMT+01:00) West Central Africa</option>  
<option value="32">(GMT+02:00) Athens, Istanbul, Minsk</option>  
<option value="33">(GMT+02:00) Jerusalem</option>  
<option value="34">(GMT+02:00) Cairo</option>

<option value="35">(GMT+02:00) Harare, Pretoria</option>  
<option value="36">(GMT+02:00) Bucharest</option>  
<option value="37">(GMT+02:00) Helsinki, Riga, Tallinn</option>  
<option value="38">(GMT+03:00) Kuwait, Riyadh</option>  
<option value="39">(GMT+03:00) Nairobi</option>  
<option value="40">(GMT+03:00) Baghdad</option>  
<option value="41">(GMT+03:00) Moscow, St. Petersburg, Volgograd</option>  
<option value="42">(GMT+03:30) Tehran</option>  
<option value="43">(GMT+04:00) Abu Dhabi, Muscat</option>  
<option value="44">(GMT+04:00) Baku, Tbilisi, Yerevan</option>  
<option value="45">(GMT+04:30) Kabul</option>  
<option value="46">(GMT+05:00) Islamabad, Karachi, Tashkent</option>  
<option value="47">(GMT+05:00) Ekaterinburg</option>  
<option value="48">(GMT+05:30) Calcutta, Chennai, Mumbai, New Delhi</option>  
<option value="49">(GMT+05:45) Kathmandu</option>  
<option value="50">(GMT+06:00) Astana, Dhaka</option>  
<option value="51">(GMT+06:00) Almaty, Novosibirsk</option>  
<option value="52">(GMT+06:00) Sri Jayawardenepura</option>  
<option value="53">(GMT+06:30) Rangoon</option>  
<option value="54">(GMT+07:00) Krasnoyarsk</option>  
<option value="55">(GMT+07:00) Bangkok, Hanoi, Jakarta</option>  
<option value="56">(GMT+08:00) Irkutsk, Ulaan Bataar</option>  
<option value="57">(GMT+08:00) Kuala Lumpur, Singapore</option>  
<option value="58">(GMT+08:00) Perth</option>  
<option value="59">(GMT+08:00) Taipei</option>  
<option value="60">(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi</option>  
<option value="61">(GMT+09:00) Seoul</option>  
<option value="62">(GMT+09:00) Yakutsk</option>  
<option value="63">(GMT+09:00) Osaka, Sapporo, Tokyo</option>  
<option value="64">(GMT+09:30) Adelaide</option>  
<option value="65">(GMT+09:30) Darwin</option>  
<option value="66">(GMT+10:00) Vladivostok</option>  
<option value="67">(GMT+10:00) Canberra, Melbourne, Sydney</option>  
<option value="68">(GMT+10:00) Guam, Port Moresby</option>  
<option value="69">(GMT+10:00) Brisbane</option>  
<option value="70">(GMT+10:00) Hobart</option>  
<option value="71">(GMT+11:00) Magadan, Solomon Is., New Caledonia</option>  
<option value="72">(GMT+12:00) Auckland, Wellington</option>



<option value="73">(GMT+12:00) Fiji, Kamchatka, Marshall Is.</option>

<option value="74">(GMT+13:00) Nukualofa</option>

### 3.3.4. Camera title

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for setup change

CGI command	URL	Parameter name	Parameter value	Comments
Camera title	/cgi-bin/set_basic (access level 1)	cam_title	(0-20 characters)	Camera title in the status display area  [Note] In case of NT304 and NT314, it is a camera title of channel 1.
		encoder_title	(0-20 characters)	Encoder Unit title in the status display  [Note] This parameter is supported by NT304 and NT314.
		cam_title2	(0-20 characters)	Camera title of channel 2  [Note] This parameter is supported by NT304 and NT314.
		cam_title3	(0-20 characters)	Camera title of channel 3  [Note] This parameter is supported by NT304 and NT314.
		cam_title4	(0-20 characters)	Camera title of channel 4  [Note] This parameter is supported by NT304 and NT314.

Ex) Change camera title in the status display area to “THE FRONT DOOR”

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

[http://192.168.0.10/cgi-bin/set\\_basic?cam\\_title=THE FRONT DOOR](http://192.168.0.10/cgi-bin/set_basic?cam_title=THE FRONT DOOR)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/set\\_basic?encoder\\_title=WJ-NT304&cam\\_title=CH1&cam\\_title2=CH2&cam\\_title3=CH3&cam\\_title4=CH4](http://192.168.0.10/cgi-bin/set_basic?encoder_title=WJ-NT304&cam_title=CH1&cam_title2=CH2&cam_title3=CH3&cam_title4=CH4)

### 3.3.5. Camera title on the screen

Correspondence model: WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964,  
WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for setup change

CGI command	URL	Parameter name	Parameter value	Comments
Camera title on the screen	/cgi-bin/set_camfunc (access level 1)	camid_display	0, 1	Display the camera title on the image 0: OFF 1: ON
		camid	(1-16 characters)	Camera title on the image Transmit "+" in case of setting a blank column

Ex) Change camera title on the screen to "THE FRONT DOOR", and display the title.

[http://192.168.0.10/cgi-bin/set\\_camfunc?camid\\_display=1&camid=THE FRONT DOOR](http://192.168.0.10/cgi-bin/set_camfunc?camid_display=1&camid=THE FRONT DOOR)

### 3.3.6. Network setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A  
WV-NS954, WV-NW964, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for setup change

CGI command	URL	Parameter name	Parameter value	Comments
Network setup	/cgi-bin/network (access level 1)	dhcp	0, 1	DHCP 0: OFF (not use DHCP) 1: ON (use DHCP)
		IP_addr1	0-255	IP address 1st octet
		IP_addr2	0-255	IP address 2nd octet
		IP_addr3	0-255	IP address 3rd octet
		IP_addr4	0-255	IP address 4th octet
		netmask1	0-255	Net mask 1st octet
		netmask2	0-255	Net mask 2nd octet
		netmask3	0-255	Net mask 3rd octet
		netmask4	0-255	Net mask 4th octet
		gateway1	0-255	Default gateway 1st octet
		gateway2	0-255	Default gateway 2nd octet
		gateway3	0-255	Default gateway 3rd octet
		gateway4	0-255	Default gateway 4th octet
		port	1-65535	HTTP port number
		speed	1, 2, 3, 4,5	Line speed 1: Auto 2: 100Mbps full-duplex 3: 100Mbps half-duplex 4: 10Mbps full-duplex 5: 10Mbps half-duplex
		dns	manual, auto	DNS server address manually or automatically. manual: Manual auto: Auto

CGI command	URL	Parameter name	Parameter value	Comments
		pri_server1	0-255	Primary DNS address 1st octet
		pri_server2	0-255	Primary DNS address 2nd octet
		pri_server3	0-255	Primary DNS address 3rd octet
		pri_server4	0-255	Primary DNS address 4th octet
		sec_server1	0-255	Secondary DNS address 1st octet
		sec_server2	0-255	Secondary DNS address 2nd octet
		sec_server3	0-255	Secondary DNS address 3rd octet
		sec_server4	0-255	Secondary DNS address 4th octet
		ip6_auto	0, 1	Manual (IPv6) 0: ON (Manual) 1: OFF (Auto)  [Note] This parameter is supported by NF302 and NP304
		ip6_addr	(IPv6 address)	IP address (IPv6)  [Note] This parameter is supported by NF302 and NP304
		sub_prefix	0 to 128	Sub prefix  [Note] This parameter is supported by NF302 and NP304
		ip6_geteway	(IPv6 address)	Default gateway (IPv6)  [Note] This parameter is supported by NF302 and NP304

CGI command	URL	Parameter name	Parameter value	Comments
		pri_server	(IPv4 address) or (IPv6 address)	Primary DNS address  [Note] This parameter is supported by NF302 and NP304
		sec_server	(IPv4 address) or (IPv6 address)	Secondary DNS address  [Note] This parameter is supported by NF302 and NP304

Ex1) Change DHCP to ON

<http://192.168.0.10/cgi-bin/network?dhcp=1>

Ex2) Change IP address and Net mask and Default gateway, IP address:192.168.0.30, Net mask:255.255.255.128, Default gateway: 192.168.0.50

[http://192.168.0.10/cgi-bin/network?IP\\_addr1=192&IP\\_addr2=168&IP\\_addr3=0&IP\\_addr4=30&netmask1=255&netmask2=255&netmask3=255&netmask4=128&gateway1=192&gateway2=168&gateway3=0&gateway4=50](http://192.168.0.10/cgi-bin/network?IP_addr1=192&IP_addr2=168&IP_addr3=0&IP_addr4=30&netmask1=255&netmask2=255&netmask3=255&netmask4=128&gateway1=192&gateway2=168&gateway3=0&gateway4=50)

[Note]: IP address, subnet mask and default gateway should be set at the same time.

Ex3) Change HTTP port number to 8080.

<http://192.168.0.10/cgi-bin/network?port=8080>

### 3.3.7. Alarm ON/OFF (VMD ON/OFF)

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A  
WV-NS954, WV-NW964

Method: POST

Table: CGI commands list for alarm ON/OFF

CGI command	URL	Parameter name	Parameter value	Comments
Alarm ON/OFF	/cgi-bin/jpeg_alarm (access level 1)	vmd_alarm	0, 1	VMD alarm ON/OFF 0: OFF (not use VMD alarm) 1: ON (use VMD alarm)

Ex) VMD Alarm ON

[http://192.168.0.10/cgi-bin/jpeg\\_alarm?vmd\\_alarm=1](http://192.168.0.10/cgi-bin/jpeg_alarm?vmd_alarm=1)

### 3.3.8. VMD area setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A  
WV-NS954, WV-NW964, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for VMD area setup

CGI command	URL	Parameter name	Parameter value	Comments
VMD area setup	/cgi-bin/set_vmdarea (access level 1)	area1_ulx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Upper left X coordinates of VMD area 1



CGI command	URL	Parameter name	Parameter value	Comments
		area1_uly	0-239  48-438( for NS202, NW484, NS202A, NS954 and, NW964)  0 to 479( for NF302 and NP304)	Upper left Y coordinates of VMD area 1
		area1_brx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Lower right X coordinates of VMD area 1
		area1_bry	0-239  48-438( for NS202, NW484, NS202A, NS954 and NW964)  0 to 479( for NF302 and NP304)	Lower right Y coordinates of VMD area 1

CGI command	URL	Parameter name	Parameter value	Comments
		area2_ulx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Upper left X coordinates of VMD area 2
		area2_uly	0-239  48-438( for NS202, NW484, NS202A, NS954 and NW964)  0 to 479( for NF302 and NP304)	Upper left Y coordinates of VMD area 2
		area2_brx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Lower right X coordinates of VMD area 2

CGI command	URL	Parameter name	Parameter value	Comments
		area2_bry	0-239  48-438( for NS202, NW484, NS202A, NS954 and NW964)  0 to 479( for NF302 and NP304)	Lower right Y coordinates of VMD area 2
		area3_ulx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Upper left X coordinates of VMD area 3
		area3_uly	0-239  48-438( for NS202, NW484, NS202A, NS954 and NW964)  0 to 479( for NF302 and NP304)	Upper left Y coordinates of VMD area 3

CGI command	URL	Parameter name	Parameter value	Comments
		area3_brx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Lower right X coordinates of VMD area 3
		area3_bry	0-239  48-438( for NS202, NW484, NS202A, NS954 and NW964)  0 to 479( for NF302 and NP304)	Lower right Y coordinates of VMD area 3
		area4_ulx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Upper left X coordinates of VMD area 4

CGI command	URL	Parameter name	Parameter value	Comments
		area4_uly	0-239  48-438( for NS202, NW484, NS202A, NS954 and NW964)  0 to 479( for NF302 and NP304)	Upper left Y coordinates of VMD area 4
		area4_brx	0-319  0-639( for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)	Lower right X coordinates of VMD area 4
		area4_bry	0-239  48-438( for NS202, NW484, NS202A, NS954 and NW964)  0 to 479( for NF302 and NP304)	Lower right Y coordinates of VMD area 4

CGI command	URL	Parameter name	Parameter value	Comments
		area1_state	enable , disable	Status of VMD area 1
		area2_state	enable , disable	Status of VMD area 2
		area3_state	enable , disable	Status of VMD area 3
		area4_state	enable , disable	Status of VMD area 4
		area_sens	high, mid , low, high1, high2, high3  1 to 15	Detection sensitivity high : 4(High) mid : 5(Middle) low : 6(Low) high1 : 1(Super high) (*1) high2 : 2 (*1) high3 : 3 (*1) 1 to 15: 1 to 15 (*2)  (*1)This values are supported by NS202A, NS954, NW964 (*2)This values are supported by NF302, NP304 [Note]This parameter do not supported by NP1004
		area1_sens	high, middle , low	Detection sensitivity of VMD area 1  [Note] This parameter is supported by NP1004.
		area2_sens	high, middle , low	Detection sensitivity of VMD area 2  [Note] This parameter is supported by NP1004.

CGI command	URL	Parameter name	Parameter value	Comments
		area3_sens	high, middle , low	Detection sensitivity of VMD area 3  [Note] This parameter is supported by NP1004.
		area4_sens	high, middle , low	Detection sensitivity of VMD area 4  [Note] This parameter is supported by NP1004.
		area1_type	detect , mask	Type of VMD area 1  [Note] This parameter is supported by NP1004.
		area2_type	detect , mask	Type of VMD area 2  [Note] This parameter is supported by NP1004.
		area3_type	detect , mask	Type of VMD area 3  [Note] This parameter is supported by NP1004.
		area4_type	detect , mask	Type of VMD area 4  [Note] This parameter is supported by NP1004.
		preno	0 , 1-256	Preset position number 0: Without the preset positions 1-256: Preset positions  [Note] This parameter is supported by NS202, NS202A, NS954 and NW964

CGI command	URL	Parameter name	Parameter value	Comments
		area1_th	1 to 15	Detection threshold of area1
		area2_th	1 to 15	Detection threshold of area2
		area3_th	1 to 15	Detection threshold of area3
		area4_th	1 to 15	Detection threshold of area4
		mode	set	set (fixed value)
		uid	numerical value	User ID(acquired UID)

Ex1) VMD area 1 setup ( Upper left coordinates:(0,50), Lower right coordinates(319,239) )

- For WV-NP1000, WV-NP244, WV-NF284 and WV-NW484

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=0&area1\\_uly=50&area1\\_brx=319&area1\\_bry=239](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=0&area1_uly=50&area1_brx=319&area1_bry=239)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964 (setup to preset position 3)

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=0&area1\\_uly=50&area1\\_brx=319&area1\\_bry=239&preno=3](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=0&area1_uly=50&area1_brx=319&area1_bry=239&preno=3)

Ex2) VMD area 1 setup and status to enable ( Upper left coordinates:(10,50), Lower right coordinates(200,212) )

- For WV-NP1000, WV-NP244, WV-NF284 and WV-NW484

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=10&area1\\_uly=50&area1\\_brx=200&area1\\_bry=212&area1\\_state=enable](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=10&area1_uly=50&area1_brx=200&area1_bry=212&area1_state=enable)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964 (setup to preset position 3)

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=10&area1\\_uly=50&area1\\_brx=200&area1\\_bry=212&area1\\_state=enable&preno=3](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=10&area1_uly=50&area1_brx=200&area1_bry=212&area1_state=enable&preno=3)

Ex3) VMD area 1 setup and Status: enable, Detection sensitivity: low ( Upper left coordinates:(10,50), Lower right coordinates(200,212) )

- For WV-NP244, WV-NF284 and WV-NW484



[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=10&area1\\_uly=50&area1\\_brx=200&area1\\_bry=212&area1\\_state=enable&area\\_sens=low](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=10&area1_uly=50&area1_brx=200&area1_bry=212&area1_state=enable&area_sens=low)

- For WV-NP1000( Detection sensitivity of VMD area 1: low)

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=10&area1\\_uly=50&area1\\_brx=200&area1\\_bry=212&area1\\_state=enable&area1\\_sens=low](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=10&area1_uly=50&area1_brx=200&area1_bry=212&area1_state=enable&area1_sens=low)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964 (setup to preset position 3)

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=10&area1\\_uly=50&area1\\_brx=200&area1\\_bry=212&area1\\_state=enable&area\\_sens=low&preno=3](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=10&area1_uly=50&area1_brx=200&area1_bry=212&area1_state=enable&area_sens=low&preno=3)

Ex4) VMD area 1 setup and Status: enable, Type: mask( Upper left coordinates:(10,50), Lower right coordinates(200,212) ) (Only WV-NP1000)

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area1\\_ulx=10&area1\\_uly=50&area1\\_brx=200&area1\\_bry=212&area1\\_state=enable&area1\\_type=mask](http://192.168.0.10/cgi-bin/set_vmdarea?area1_ulx=10&area1_uly=50&area1_brx=200&area1_bry=212&area1_state=enable&area1_type=mask)

Ex5) VMD area setup(Only WV-NF302, WV-NP304)

- VMD area1 Upper left coordinates: (103, 79), Lower right coordinates: (479, 428), detection threshold:10 ,and Status: enable
- VMD area2, area3, area4: delete, detection threshold: 1, Status: disable
- Detection sensitivity: 8, User ID: 33416

[http://192.168.0.120/cgi-bin/set\\_vmdarea?area1\\_ulx=103&area1\\_uly=79&area1\\_brx=479&area1\\_bry=428&area2\\_ulx=0&area2\\_uly=0&area2\\_brx=0&area2\\_bry=0&area3\\_ulx=0&area3\\_uly=0&area3\\_brx=0&area3\\_bry=0&area4\\_ulx=0&area4\\_uly=0&area4\\_brx=0&area4\\_bry=0&area1\\_th=10&area2\\_th=1&area3\\_th=1&area4\\_th=1&area1\\_state=enable&area2\\_state=disable&area3\\_state=disable&area4\\_state=disable&area\\_sens=8&mode=set&uid=33416](http://192.168.0.120/cgi-bin/set_vmdarea?area1_ulx=103&area1_uly=79&area1_brx=479&area1_bry=428&area2_ulx=0&area2_uly=0&area2_brx=0&area2_bry=0&area3_ulx=0&area3_uly=0&area3_brx=0&area3_bry=0&area4_ulx=0&area4_uly=0&area4_brx=0&area4_bry=0&area1_th=10&area2_th=1&area3_th=1&area4_th=1&area1_state=enable&area2_state=disable&area3_state=disable&area4_state=disable&area_sens=8&mode=set&uid=33416)

### 3.3.9. To delete VMD area

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list to delete VMD area

CGI command	URL	Parameter name	Parameter value	Comments
To delete VMD area	/cgi-bin/set_vmd area (access level 1)	area1_ulx	0	Upper left X coordinates of VMD area 1
		area1_uly	0	Upper left Y coordinates of VMD area 1
		area1_brx	0	Lower right X coordinates of VMD area 1
		area1_bry	0	Lower right Y coordinates of VMD area 1
		area2_ulx	0	Upper left X coordinates of VMD area 2
		area2_uly	0	Upper left Y coordinates of VMD area 2
		area2_brx	0	Lower right X coordinates of VMD area 2
		area2_bry	0	Lower right Y coordinates of VMD area 2
		area3_ulx	0	Upper left X coordinates of VMD area 3
		area3_uly	0	Upper left Y coordinates of VMD area 3
		area3_brx	0	Lower right X coordinates of VMD area 3
		area3_bry	0	Lower right Y coordinates of VMD area 3
		area4_ulx	0	Upper left X coordinates of VMD area 4

CGI command	URL	Parameter name	Parameter value	Comments
		area4_uly	0	Upper left Y coordinates of VMD area 4
		area4_brx	0	Lower right X coordinates of VMD area 4
		area4_bry	0	Lower right Y coordinates of VMD area 4

Ex) To delete VMD area 1

- For WV-NP1000, WV-NP244, WV-NF284, WV-NW484, WV-NF302 and WV-NP304

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area=1&area1\\_ulx=0&area1\\_uly=0&area1\\_brx=0&area1\\_bry=0](http://192.168.0.10/cgi-bin/set_vmdarea?area=1&area1_ulx=0&area1_uly=0&area1_brx=0&area1_bry=0)

- For WV-NS202, WV-NS202A, WV-NS954 and WV-NW964 (delete to preset position 3)

[http://192.168.0.10/cgi-bin/set\\_vmdarea?area=1&area1\\_ulx=0&area1\\_uly=0&area1\\_brx=0&area1\\_bry=0&preno=3](http://192.168.0.10/cgi-bin/set_vmdarea?area=1&area1_ulx=0&area1_uly=0&area1_brx=0&area1_bry=0&preno=3)

### 3.3.10. JPEG setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for JPEG setup

CGI command	URL	Parameter name	Parameter value	Comments
JPEG setup	/cgi-bin/set_jpeg (access level 1)	jpeg_quality	0, 1, 2, 3, 4, 5, 6, 7, 8, 9,	JPEG Quality 0 :means superfine, 1 :means fine, 2, 3, 4, 5 :means normal, 6, 7, 8, 9 :means low
		ch_jpeg	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304 and NT314. Channel 1 works when this parameter is omitted.
		enc_320	0, 1	Encode to 320x240 0: OFF (Not encode to 320x240) 1: ON (Encode to 320x240)  [Note] This parameter is supported by NP1000.

CGI command	URL	Parameter name	Parameter value	Comments
		enc_640	0, 1	Encode to 640x480 0: OFF (Not encode to 640x480) 1: ON (Encode to 640x480)  [Note] This parameter is supported by NP1000.
		enc_max	0, 1	Encode to 1280x960(Full scan) or 960x720(Partial scan) 0: OFF (Not encode to 1280x960 or 960x720) 1: ON (Encode to 1280x960 or 960x720)  [Note] This parameter is supported by NP1000.

Ex1) Change the JPEG Quality to normal

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954 and WV-NW964

[http://192.168.0.10/cgi-bin/set\\_jpeg?jpeg\\_quality=5](http://192.168.0.10/cgi-bin/set_jpeg?jpeg_quality=5)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/set\\_jpeg?jpeg\\_quality=5&ch\\_jpeg=2](http://192.168.0.10/cgi-bin/set_jpeg?jpeg_quality=5&ch_jpeg=2)

Ex2) Encode 320x240 and 640x480 and 1280x960 at the same time (full scan mode).

WV-NP1000 only

[http://192.168.0.10/cgi-bin/set\\_jpeg?enc\\_320=1&enc\\_640=1&enc\\_max=1](http://192.168.0.10/cgi-bin/set_jpeg?enc_320=1&enc_640=1&enc_max=1)

### 3.3.11. MPEG-4 setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for MPEG-4 setup

CGI command	URL	Parameter name	Parameter value	Comments
MPEG-4 setup	/cgi-bin/set_mpeg (access level 1)	mpeg_transmit	0/1	MPEG-4 transmission ON/OFF 0: OFF 1: ON
		mpeg_bandwidth	64, 128, 256, 512, 1024, 1536, 2048, 3072, 4096, F_4096 (*), F_unlimited (*), (* only NS954, NW964	MPEG-4 bandwidth 64: 64kbps, 128: 128 kbps, 256: 256 kbps, 512: 512 kbps, 1024: 1024 kbps, 1536: 1536 kbps, 2048: 2048 kbps, 3072: 3072 kbps, 4096: 4096 kbps, F_4096: (frame rate priority) 4096 kbps, F_unlimited: unlimited
		mpeg_resolution	640, 320	MPEG-4 resolution 640: 640x480 320: 320x240
		mpeg_quality	fine, normal, low	MPEG-4 quality fine: Fine normal: Normal low: Low

CGI command	URL	Parameter name	Parameter value	Comments
		mpeg_ivop	0.2 (*), 0.33 (*), 0.5 (*), 1, 2, 3, 4, 5  (*) for NS954, NW964, NF302 and NP304	Ivop insertion interval 0.2: 0.2 sec 0.33: 0.33 sec 0.5: 0.5 sec 1: 1 sec 2: 2 sec 3: 3 sec 4: 4 sec 5: 5 sec
		unicast_port	1024 to 50000 (Only even numbers are available)	MPEG-4 unicast port number (used to transmit images from the camera)  [Note] This parameter is supported by NS202, NF284, NW484, NS202A, NS954, NW964, NF302, NP304
		unicast_audio_port	1024 to 50000 (Only even numbers are available)	Audio unicast port number (used to transmit audio from the camera)  [Note] This parameter is supported by NS202, NF284, NS202A, NS954, NW964, NF302 and NP304

CGI command	URL	Parameter name	Parameter value	Comments
		ch_mpeg	1, 2, 3, 4	1: Channel 1 2: Channel 2 3: Channel 3 4: Channel 4  [Note] This parameter is supported by NT304 and NT314. Channel 1 works when this parameter is omitted.
		mpeg_unimulti	uni, multi,  uni_manual(*),  (*) NP1000 and NP244 do not support this value	Transmission type uni: unicast(auto) multi: multicast uni_manual: unicast(manual)  [Note] NT304 and NT314 do not support this parameter.
		multicast_addr1	224 to 239	MPEG-4 multicast address 1st octet  [Note] NT304, NT314, NF302, and NP304 do not support this parameter.
		multicast_addr2	0 to 255	MPEG-4 multicast address 2nd octet  [Note] NT304, NT314, NF302, and NP304 do not support this parameter.



CGI command	URL	Parameter name	Parameter value	Comments
		multicast_addr3	0 to 255	MPEG-4 multicast address 3rd octet  [Note] NT304, NT314, NF302, and NP304 do not support this parameter.
		multicast_addr4	0 to 255	MPEG-4 multicast address 4th octet  [Note] NT304, NT314, NF302, and NP304 do not support this parameter.
		multicast_port	1024 to 50000	MPEG-4 multicast port number  [Note] NT304 and NT314 do not support this parameter.
		multicast_ttl	1024 to 50000	MPEG-4 multicast TTL  [Note] NT304 and NT314 do not support this parameter.
		multicast_addr	(IPv4 address) or (IPv6 address)	MPEG-4 multicast address  [Note] This parameter supported by NF302, and NP304

Ex1) Change the MPEG-4 resolution to 640x480.

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954  
WV-NW964, WV-NF302 and WV-NP304

[http://192.168.0.10/cgi-bin/set\\_mpeg?mpeg\\_resolution=640](http://192.168.0.10/cgi-bin/set_mpeg?mpeg_resolution=640)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/set\\_mpeg?mpeg\\_resolution=640&ch\\_mpeg=2](http://192.168.0.10/cgi-bin/set_mpeg?mpeg_resolution=640&ch_mpeg=2)

Ex2) Change the MPEG-4 mpeg\_quality to low

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954,  
WV-NW964, WV-NF302 and WV-NP304

[http://192.168.0.10/cgi-bin/set\\_mpeg?mpeg\\_quality=low](http://192.168.0.10/cgi-bin/set_mpeg?mpeg_quality=low)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/set\\_mpeg?mpeg\\_quality=low&ch\\_mpeg=2](http://192.168.0.10/cgi-bin/set_mpeg?mpeg_quality=low&ch_mpeg=2)

Ex3) Change the MPEG-4 quality to normal, bandwidth to 1024kbps

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302 and WV-NP304

[http://192.168.0.10/cgi-bin/set\\_mpeg?mpeg\\_quality=normal&mpeg\\_bandwidth=1024](http://192.168.0.10/cgi-bin/set_mpeg?mpeg_quality=normal&mpeg_bandwidth=1024)

- For WJ-NT304 and WJ-NT314( channel 2 )

[http://192.168.0.10/cgi-bin/set\\_mpeg?mpeg\\_quality=normal&mpeg\\_bandwidth=1024&ch\\_mpeg=2](http://192.168.0.10/cgi-bin/set_mpeg?mpeg_quality=normal&mpeg_bandwidth=1024&ch_mpeg=2)

Ex4) Change the MPEG-4 unicast port number to 3072

- For WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302 and WV-NP304

\*In the case of NT304/NT314, use another CGI described in Chapter 3.

[http://192.168.0.10/cgi-bin/set\\_mpeg?unicast\\_port=3072](http://192.168.0.10/cgi-bin/set_mpeg?unicast_port=3072)

Ex5) Set MPEG-4 multicast address to 224.0.50.102 and port number: 32002

- For WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WV-NF302 and WV-NP304

[http://192.168.0.10/cgi-bin/set\\_mpeg?multicast\\_addr1=224&multicast\\_addr2=0&multicast\\_addr3=50&multicast\\_addr4=102&multicast\\_port=32002](http://192.168.0.10/cgi-bin/set_mpeg?multicast_addr1=224&multicast_addr2=0&multicast_addr3=50&multicast_addr4=102&multicast_port=32002)

### 3.3.12. Scan mode setup (WV-NP1000)

Correspondence model: WV-NP1000

Method: POST

Table: CGI commands list for Scan mode setup

CGI command	URL	Parameter name	Parameter value	Comments
Scan mode setup	/cgi-bin/set_imagemode (access level 1)	scanmode	full, partial	full :Full scan partial :Partial scan

Ex) Change scan mode to full scan mode

[http://192.168.0.10/cgi-bin/set\\_imagemode?scanmode=full](http://192.168.0.10/cgi-bin/set_imagemode?scanmode=full)

### 3.3.13. Initialization

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET/POST

Table: CGI commands list for Initialization

CGI command	URL	Parameter name	Parameter value	Comments
Initialization	/cgi-bin/initial (access level 1)	cmd	data, html, all, reset,  restart (for NS202, NS202A, NS954, NW964 )   camreset (for NT304, NT314)	data :Initialize camera setup data(Except network and preset setup data (for NS202, NS202A, NS954, NW964))  html :Initialize HTML data all :Initialize setup data and HTML data reset :Restart the camera restart :Position refresh(for NS202, NS202A, NS954, NW964 )  camreset :Restart all the analog camera

Ex) Initialize setup data and HTML data

<http://192.168.0.10/cgi-bin/initial?cmd=all>

Ex) Restart

<http://192.168.0.10/cgi-bin/initial?cmd=reset>

### 3.3.14. Daylight saving (Summertime) setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for daylight saving ( Summertime ) setup

CGI command	URL	Parameter name	Parameter value	Comments
Daylight saving (Summertime) setup	/cgi-bin/set_basic (access level 1)	summer_time	0, 1	1: Applies summer time 0: OFF

Ex) Applies summer time

[http://192.168.0.10/cgi-bin/set\\_basic?summer\\_time=1](http://192.168.0.10/cgi-bin/set_basic?summer_time=1)

## 3.3.15. Audio setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for Audio setup

CGI command	URL	Parameter name	Parameter value	Comments
Audio setup	/cgi-bin/set_audio (access level 1)	audio	off, in, out, inout (for NS202, NT304, NT314, NS202A, NS954 and NW964)  inout_full (for NS950, NW960, NF302 and NP304)  0, 1 ( for NP1000, NP244 and NF284)	Audio mode setup  off :OFF in :Mic input out :Audio output inout :Interactive (half duplex)  inout_full: Interactive (full duplex)  0: ON (Mic input) 1: OFF
		audio_sens	low, middle, high	Mic input volume (Camera to PC) low :low middle :middle high :high  [Note] NT304 and NT314 do not support this parameter.

CGI command	URL	Parameter name	Parameter value	Comments
		out_sens	low, middle, high	Audio output volume (PC to Camera) low :Low middle :Middle high :High  [Note] This parameter is supported by NS202, NS202A, NS954, NW964, NF302 and NP304
		audio_bitrate	16, 32	Audio bit rate 16 :16 kbps 32 :32 kbps
		audio_interval	20, 40, 80, 160	Mic input interval (Camera to PC) 20 :20msec 40 :40 msec 80 :80msec 160 :160 msec
		out_port	1024 to 50000	Audio output port (PC to Camera)  [Note] This parameter is supported by NS202, NS202A, NS954, NW964, NT304, NT314, NF302 and NP304

CGI command	URL	Parameter name	Parameter value	Comments
		out_interval	160, 320, 640, 1280	Audio output interval (PC to Camera) 160 :160 msec 320 :320 msec 640 :640 msec 1280 :1 280 msec  [Note] This parameter is supported by NS202, NS202A, NS954, NW964, NT304, NT314, NF302 and NP304
		audio_level	all, level1, level2	Authentication all :All users level1 :Level 1 only level2 :Level 2 only

Ex) Change Audio Settings to Mic input

- For WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302 and WV-NP304

[http://192.168.0.10/cgi-bin/set\\_audio?audio=in](http://192.168.0.10/cgi-bin/set_audio?audio=in)

- For WV-NF284, WV-NP244 and WV-NP1000

[http://192.168.0.10/cgi-bin/set\\_audio?audio=1](http://192.168.0.10/cgi-bin/set_audio?audio=1)

### 3.3.16. SNMP setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI command for SNMP setup

CGI command	URL	Parameter name	Parameter value	Comments
SNMP setup	/cgi-bin/set_snmp (access level 1)	community	characters	Community name
		sysname	characters	Camera title
		syslocation	characters	Camera location
		syscontact	characters	Contact

Ex) Change SNMP community name to “abcde”

[http://192.168.0.10/cgi-bin/set\\_snmp?community=abcde](http://192.168.0.10/cgi-bin/set_snmp?community=abcde)



### 3.3.17. Image Setup

Correspondence model: WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A, WV-NS954,  
WV-NW964, WV-NF302, WV-NP304

Method: POST

Table: CGI commands list for Image setup

CGI command	URL	Parameter name	Parameter value	Comments
Image setup	/cgi-bin/image_adjust (access level 1)	brightness	-8 to 8	Brightness
		whitebalance	awc, atw1, atw2 (for NS202, NW484, NS202A, NS954, NW964, NF302 and NP304)  auto, hold (for NF284, NP244)	White balance awc :Auto white balance control mode atw1 :Auto tracking white balance mode atw2 :Auto tracking white balance under a sodium lamp mode  auto :AUTO hold :HOLD

CGI command	URL	Parameter name	Parameter value	Comments
		sharpness	0 to 63, reset (for NS202, NW484, NS202A, NS954 and NW964)  0 to 31, reset (for NF302, NP304)  -4 to 4 (for NF284 and NP244)	Sharpness( Aperture level)  0 to 63 :The level reset :Reset the setting to the default  0 to 31: The level  -4 to 4 :The level
		flicker	0, 1	Flicker-less mode  0: OFF 1: ON

CGI command	URL	Parameter name	Parameter value	Comments
		slowshutter	off, 2, 4, 6, 10, 16, 32 (for NS202, NW484, NS202A, NS954 and NW964)  off, 2, 4, 8, 16 (for NF284 and NP244)  off, 1_30, 1_15, 1_7.5, 1_5, 1_3, 0.5333 (for NF302, NP304)	Sensitivity up ( Auto slow shutter) off :OFF 2 :AUTOx2 4 :AUTOx4 6 :AUTOx6 8 :AUTOx8 10 :AUTOx10 16 :AUTOx16 32 :AUTOx32 1_15 : Max. 2/30s 1_7.5 : Max. 4/30s 1_5 : Max. 6/30s 1_3 : Max. 10/30s 0.5333: Max. 16/30s
		bic	0, 1	Backlight compensation 0 :OFF 1 :ON
		alc_elc	alc_video, alc_dc, elc  shutter/flickeress/elc	Light control alc_video: ALC(VIDEO) alc_dc: ALC(DC) elc:ELC  shutter : Outdoor scene flickeress: Indoor scene elc : ELC
		sd	0, 1	Super Dynamic 3 0 :OFF 1 :ON

CGI command	URL	Parameter name	Parameter value	Comments
		mask	reset, start, end, set	Mask area reset : Reset the mask area settings start :Start the mask area settings end :End the mask area settings set :Set the mask area settings
		shutter	off, auto, flickerless	Select the speed of electronic shutter off :OFF(Fixed at 1/60 seconds) auto :AUTO flickerless :1/100 (Fixed at 1/100 seconds)
		agc	off, low, mid, high	AGC off: OFF low: ON(LOW) mid: ON(MID) high: ON(HIGH)
		rvol	0 to 255, reset	Red gain 0 to 255 :volume reset :Reset the color to the default
		bvol	0 to 255, reset	Blue gain 0 to 255 :volume reset :Reset the color to the default
		dnr	low, high	Digital Noise Reduction low: Low DNR, reduces afterimage high: High DNR, afterimage remains
		chroma	0 to 255, reset	Chroma gain level 0 to 255 :The level reset :Reset the setting to the default

CGI command	URL	Parameter name	Parameter value	Comments
		pedestal	0 to 255, reset	Pedestal level 0 to 255 :The level reset :Reset the setting to the default
		black_white	off, on, auto1, auto2,  auto	Black & white mode on :The black & white mode(*1) off :The color mode auto1 :In accordance with picture brightness(*3) auto2 :Using a near infra-red light source at night(*1)  auto : Auto (*2)  [Note] (*1) only NW484, (*2) for NS202A, NS954 and NW964 (*3) for NW484, NF302 and NP304
		black_white_level	high, low	The level of light high :5lx or lower lighting low :1lx or lower lighting
		black_white_time	10, 30, 60, 300	The interval before switching between the color mode and black & white mode from the following 10 : 10sec 30 : 30sec 60 : 1min 300 : 5min
		awc_set	on	AWC setup
		dark_revise	0, 1	Adaptive black stretch 0: OFF 1: ON

Ex) Change the gain of Image

[http://192.168.0.10/cgi-bin/image\\_adjust?agc=off](http://192.168.0.10/cgi-bin/image_adjust?agc=off)

Ex) Change the Super Dynamic 3 mode of Image

[http://192.168.0.10/cgi-bin/image\\_adjust?sd=0](http://192.168.0.10/cgi-bin/image_adjust?sd=0)

Note: Correspondence model for image setup parameters

	Function	Model						
		WV-NP244	WV-NS202	WV-NF284	WV-NW484	WV-NS202A	WV-NS954 WV-NW964	WV-NF302 WV-NP304
1	Brightness	Yes	N/A	Yes	N/A	N/A	N/A	N/A
2	White balance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Sharpness (Aperture level)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	Flicker-less mode	Yes	N/A	Yes	N/A	N/A	N/A	N/A
5	Sensitivity up (Auto slow shutter)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	Backlight compensation	Yes	N/A	Yes	N/A	N/A	N/A	Yes
7	Light control	Yes	N/A	N/A	N/A	N/A	N/A	Yes
8	Super Dynamic 3	N/A	Yes	N/A	Yes	Yes	Yes	N/A
9	Mask area	N/A	Yes	N/A	Yes	Yes	Yes	Yes
10	Shutter	N/A	Yes	N/A	Yes	Yes	Yes	N/A
11	AGC	N/A	Yes	N/A	Yes	Yes	Yes	Yes
12	Red Gain	N/A	Yes	N/A	Yes	Yes	Yes	Yes
13	Blue Gain	N/A	Yes	N/A	Yes	Yes	Yes	Yes
14	Digital Noise Reduction	N/A	Yes	N/A	Yes	Yes	Yes	Yes
15	Chroma gain level	N/A	Yes	N/A	Yes	Yes	Yes	Yes
16	Pedestal level	N/A	Yes	N/A	Yes	Yes	Yes	Yes
17	Black & white mode	N/A	N/A	N/A	Yes	Yes	Yes	Yes
18	Level of light	N/A	N/A	N/A	Yes	N/A	Yes	N/A

External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

19	Wait time	N/A	N/A	N/A	Yes	N/A	Yes	N/A
20	AWC setup	N/A	Yes	N/A	Yes	Yes	Yes	Yes
21	Adaptive black stretch	N/A	N/A	N/A	N/A	N/A	N/A	Yes

### 3.3.18. Auto back focus

Correspondence model: WV-NW484

Method: POST

Table: CGI command for Auto back focus

CGI command	URL	Parameter name	Parameter value	Comments
ABF	/cgi-bin/back_focus (access level 1)	auto	on	ABF
		manual	far, near, reset	Manual back focus setup far: FAR near: NEAR reset: RESET

Ex) ABF setup

[http://192.168.0.10/cgi-bin/back\\_focus?auto=on](http://192.168.0.10/cgi-bin/back_focus?auto=on)



### 3.3.19. Total bit rate setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI command for total bit rate setup

CGI command	URL	Parameter name	Parameter value	Comments
Total bit rate setup	/cgi-bin/set_bandwidth (access level 1)	bandwidth	0, 64, 128, 256, 512, 1024, 2048, 4096, 10000(*)  (*) only NP1000	Total bit rate  0: Unlimited, 64: 64 kbps, 128: 128kbps, 256: 256kbps, 512: 512kbps, 1024: 1024kbps, 2048: 2048kbps, 4096: 4096kbps, 10000: 10Mbps

Ex) Change total bit rate setup to 2048kbps

[http://192.168.0.10/cgi-bin/set\\_bandwidth?bandwidth=2048](http://192.168.0.10/cgi-bin/set_bandwidth?bandwidth=2048)

### 3.3.20. Panasonic alarm (TCP) notification setup

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI command for Panasonic alarm notification setup

CGI command	URL	Parameter name	Parameter value	Comments
Panasonic alarm notification setup	/cgi-bin/pana_alarm (access level 1)	pana_alm	0, 1	Alarm Whether or not be send notification. 0: OFF 1: ON
		pana_port	1 to 65535	Destination port number
		pana_retry	1 to 30	Retry times

Ex) Change Panasonic alarm setup, alarm notification: ON, destination port: 10080, retry times: 2.

[http://192.168.0.10/cgi-bin/pana\\_alarm?pana\\_alm=1&pana\\_port=10080&pana\\_retry=2](http://192.168.0.10/cgi-bin/pana_alarm?pana_alm=1&pana_port=10080&pana_retry=2)

### 3.3.21. Destination IP address setup for Panasonic alarm (TCP) notification

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: POST

Table: CGI command for destination IP address setup

CGI command	URL	Parameter name	Parameter value	Comments
Destination IP address setup	/cgi-bin/reg_addr (access level 1)	notice1_addr	(IP address)	Destination IP address 1
		notice2_addr	(IP address)	Destination IP address 2
		notice3_addr	(IP address)	Destination IP address 3
		notice4_addr	(IP address)	Destination IP address 4
		notice5_addr	(IP address)	Destination IP address 5
		notice6_addr	(IP address)	Destination IP address 6
		notice7_addr	(IP address)	Destination IP address 7
		notice8_addr	(IP address)	Destination IP address 8
		notice1_onoff	0, 1	To perform notification to “destination IP address 1” when an alarm is detected. 0: OFF 1: ON
		notice2_onoff	0, 1	To perform notification to “destination IP address 2” when an alarm is detected. 0: OFF 1: ON
		notice3_onoff	0, 1	To perform notification to “destination IP address 3” when an alarm is detected. 0: OFF 1: ON

CGI command	URL	Parameter name	Parameter value	Comments
		notice4_onoff	0, 1	To perform notification to "destination IP address 4" when an alarm is detected. 0: OFF 1: ON
		notice5_onoff	0, 1	To perform notification to "destination IP address 5" when an alarm is detected. 0: OFF 1: ON
		notice6_onoff	0, 1	To perform notification to "destination IP address 6" when an alarm is detected. 0: OFF 1: ON
		notice7_onoff	0, 1	To perform notification to "destination IP address 7" when an alarm is detected. 0: OFF 1: ON
		notice8_onoff	0, 1	To perform notification to "destination IP address 8" when an alarm is detected. 0: OFF 1: ON
		notice1_self_onoff	0, 1	To perform the notification about information on the card to "destination IP address 1". 0: OFF 1: ON
		notice2_self_onoff	0, 1	To perform the notification about information on the card to "destination IP address 2". 0: OFF 1: ON

CGI command	URL	Parameter name	Parameter value	Comments
		notice3_self_on off	0, 1	To perform the notification about information on the card to "destination IP address 3". 0: OFF 1: ON
		notice4_self_on off	0, 1	To perform the notification about information on the card to "destination IP address 4". 0: OFF 1: ON
		notice5_self_on off	0, 1	To perform the notification about information on the card to "destination IP address 5". 0: OFF 1: ON
		notice6_self_on off	0, 1	To perform the notification about information on the card to "destination IP address 6". 0: OFF 1: ON
		notice7_self_on off	0, 1	To perform the notification about information on the card to "destination IP address 7". 0: OFF 1: ON
		notice8_self_on off	0, 1	To perform the notification about information on the card to "destination IP address 8". 0: OFF 1: ON

Ex) Set destination IP address to 192.168.0.20 and alarm notification is ON.

[http://192.168.0.10/cgi-bin/reg\\_addr?notice1\\_addr=192.168.0.20&notice1\\_onoff=1](http://192.168.0.10/cgi-bin/reg_addr?notice1_addr=192.168.0.20&notice1_onoff=1)

### 3.3.22. Delete destination IP address (Panasonic alarm notification)

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Method: GET/POST

Table: CGI command for Panasonic alarm notification setup

CGI command	URL	Parameter name	Parameter value	Comments
Delete destination IP address	/cgi-bin/del_addr (access level 1)	del	1, 2, 3, 4, 5, 6, 7, 8	Delete IP address 1: destination IP address1 2: destination IP address2 3: destination IP address3 4: destination IP address4 5: destination IP address5 6: destination IP address6 7: destination IP address7 8: destination IP address8

Ex) Delete destination IP address 1

[http://192.168.0.10/cgi-bin/del\\_addr?del=1](http://192.168.0.10/cgi-bin/del_addr?del=1)

### 3.3.23. CH selection

Correspondence model: WJ-NT304, WJ-NT314

Method: POST

Table: CH selection

CGI command	URL	Parameter name	Parameter value	Comments
CH selection	/cgi-bin/set_jpeg mpeg (access level 1)	ch1	0, 1	CH1 ON/OFF 1: ON 0: OFF  [Note]This parameter cannot be omitted.
		ch2	0, 1	CH2 ON/OFF 1: ON 0: OFF  [Note]This parameter cannot be omitted.
		ch3	0, 1	CH3 ON/OFF 1: ON 0: OFF  [Note]This parameter cannot be omitted.
		ch4	0, 1	CH4 ON/OFF 1: ON 0: OFF  [Note]This parameter cannot be omitted.

CGI command	URL	Parameter name	Parameter value	Comments
		chkuse_ch	1, 2, 3, 4	Use channel 1: CH1 only 2: CH1-CH2 3: CH1-CH3 4: CH1-CH4  [Note]This parameter cannot be omitted.
		set_kind	0	This parameter is fixed as "0". This parameter cannot be omitted.

Ex1) Select to the channel number to only CH1

[http://192.168.0.10/cgi-bin/set\\_jpegmpeg?ch1=1&ch2=0&ch3=0&ch4=0&chkuse\\_ch=1&set\\_kind=0](http://192.168.0.10/cgi-bin/set_jpegmpeg?ch1=1&ch2=0&ch3=0&ch4=0&chkuse_ch=1&set_kind=0)

Ex2) Select to the channel number to CH1-CH2

[http://192.168.0.10/cgi-bin/set\\_jpegmpeg?ch1=1&ch2=1&ch3=0&ch4=0&chkuse\\_ch=2&set\\_kind=0](http://192.168.0.10/cgi-bin/set_jpegmpeg?ch1=1&ch2=1&ch3=0&ch4=0&chkuse_ch=2&set_kind=0)

Ex3) Select to the channel number to CH1-CH3

[http://192.168.0.10/cgi-bin/set\\_jpegmpeg?ch1=1&ch2=1&ch3=1&ch4=0&chkuse\\_ch=3&set\\_kind=0](http://192.168.0.10/cgi-bin/set_jpegmpeg?ch1=1&ch2=1&ch3=1&ch4=0&chkuse_ch=3&set_kind=0)

Ex4) Select to the all channel

[http://192.168.0.10/cgi-bin/set\\_jpegmpeg?ch1=1&ch2=1&ch3=1&ch4=1&chkuse\\_ch=4&set\\_kind=0](http://192.168.0.10/cgi-bin/set_jpegmpeg?ch1=1&ch2=1&ch3=1&ch4=1&chkuse_ch=4&set_kind=0)



### 3.3.24. Common JPEG setup

Correspondence model: WJ-NT304, WJ-NT314

Method: POST

Table: Common JPEG setup

CGI command	URL	Parameter name	Parameter value	Comments
Common JPEG setup	/cgi-bin/set_jpeg mpeg (access level 1)	jpeg_interval	0.1, 0.2 , 0.33, 0.5, 1, 2, 3, 5, 6, 10, 15, 30	Refresh interval 0.1 :0.1 fps 0.2 :0.2 fps 0.33 :0.33 fps 0.5 :0.5 fps 1: 1 fps 2: 2 fps 3: 3 fps 5: 5 fps 6: 6 fps 10:10 fps 15: 15 fps 30: 30 fps  [Note]This parameter cannot be omitted.
		jpeg_resolution	320, 640	Default JPEG resolution 320: 320x240 640: 640x480  [Note]This parameter cannot be omitted.

CGI command	URL	Parameter name	Parameter value	Comments
		jpeg_quality	0, 1, 2, 3, 4, 5, 6, 7, 8, 9,	JPEG Quality 0 :means superfine, 1 :means fine, 2, 3, 4, 5 :means normal, 6, 7, 8, 9 :means low  [Note]This parameter cannot be omitted.
		set_kind	1	This parameter is fixed as "1". This parameter cannot be omitted.

Ex) Change JPEG setup, Refresh interval: 10fps, Default JPEG resolution: 640x480, Quality: normal.

[http://192.168.0.10/cgi-bin/set\\_jpegmpeg?jpeg\\_interval=10&jpeg\\_resolution=640&jpeg\\_quality=5&set\\_kind=1](http://192.168.0.10/cgi-bin/set_jpegmpeg?jpeg_interval=10&jpeg_resolution=640&jpeg_quality=5&set_kind=1)

### 3.3.25. Common MPEG-4 setup

Correspondence model: WJ-NT304, WJ-NT314

Method: POST

Table: Common MPEG-4 setup

CGI command	URL	Parameter name	Parameter value	Comments
Common MPEG-4 setup	/cgi-bin/set_jpeg mpeg (access level 1)	mpeg_transmit	0, 1	MPEG-4 transmission ON/OFF 0: OFF 1: ON
		mpeg_bandwidth	64, 128, 256, 512, 1024, 1536, 2048, 3072, 4096,	MPEG-4 bandwidth 64: 64kbps, 128:128kbps, 256:256kbps, 512: 512kbps, 1024: 1024kbps, 1536: 1536kbps, 2048: 2048kbps, 3072: 3072kbps 4096: 4096kbps  [Note]This parameter cannot be omitted, when mpeg_transmit is set to 1.
		mpeg_resolution	640, 320	MPEG-4 resolution 640: 640x480 320: 320x240  [Note]This parameter cannot be omitted, when mpeg_transmit is set to 1.

CGI command	URL	Parameter name	Parameter value	Comments
		mpeg_quality	fine, normal, low	MPEG-4 quality fine: Fine normal: Normal low: Low  [Note]This parameter cannot be omitted, when mpeg_transmit is set to 1.
		mpeg_ivop	1 to 5	Ivop insertion interval 1: 1 sec 2: 2 sec 3: 3 sec 4: 4 sec 5: 5 sec  [Note]This parameter cannot be omitted, when mpeg_transmit is set to 1.
		set_kind	2	This parameter is fixed as "2". This parameter cannot be omitted.

Ex) Change MPEG-4 setup, MPEG-4 transmission: ON, MPEG-4 bandwidth: 1024kbps, MPEG-4 resolution: 640x480, MPEG-4 quality: Low, Ivop insertion: 1 sec

[http://192.168.0.10/cgi-bin/set\\_pegmpeg?mpeg\\_transmit=1&mpeg\\_bandwidth=1024&mpeg\\_resolution=640&mpeg\\_quality=low&mpeg\\_ivop=1&set\\_kind=2](http://192.168.0.10/cgi-bin/set_pegmpeg?mpeg_transmit=1&mpeg_bandwidth=1024&mpeg_resolution=640&mpeg_quality=low&mpeg_ivop=1&set_kind=2)

## 3.3.26. CH individual MPEG-4 setup

Correspondence model: WJ-NT304, WJ-NT314

Method: POST

Table: CH individual MPEG-4 setup

CGI command	URL	Parameter name	Parameter value	Comments
CH individual MPEG-4 setup	/cgi-bin/set_jpeg_mpeg (access level 1)	mpeg_unimulti	uni, multi, uni_manual	Transmission type uni: unicast(auto) multi: multicast uni_manual: unicast(manual)  [Note]This parameter cannot be omitted.
		multicast_ch1_addr1	224 to 239	MPEG-4 multicast address 1st octet(Channel 1)
		multicast_ch1_addr2	0 to 255	MPEG-4 multicast address 2n octet(Channel 1)
		multicast_ch1_addr3	0 to 255	MPEG-4 multicast address 3rd octet(Channel 1)
		multicast_ch1_addr4	0 to 255	MPEG-4 multicast address 4th octet(Channel 1)
		multicast_ch2_addr1	224 to 239	MPEG-4 multicast address 1st octet(Channel 2)
		multicast_ch2_addr2	0 to 255	MPEG-4 multicast address 2n octet(Channel 2)
		multicast_ch2_addr3	0 to 255	MPEG-4 multicast address 3rd octet(Channel 2)
		multicast_ch2_addr4	0 to 255	MPEG-4 multicast address 4th octet(Channel 2)
		multicast_ch3_addr1	224 to 239	MPEG-4 multicast address 1st octet(Channel 3)
		multicast_ch3_addr2	0 to 255	MPEG-4 multicast address 2n octet(Channel 3)
		multicast_ch3_addr3	0 to 255	MPEG-4 multicast address 3rd octet(Channel 3)

CGI command	URL	Parameter name	Parameter value	Comments
		multicast_ch3_addr4	0 to 255	MPEG-4 multicast address 4th octet(Channel 3)
		multicast_ch4_addr1	224 to 239	MPEG-4 multicast address 1st octet(Channel 4)
		multicast_ch4_addr2	0 to 255	MPEG-4 multicast address 2n octet(Channel 4)
		multicast_ch4_addr3	0 to 255	MPEG-4 multicast address 3rd octet(Channel 4)
		multicast_ch4_addr4	0 to 255	MPEG-4 multicast address 4th octet(Channel 4)
		multicast_ch1_port	1024 to 50000	MPEG-4 multicast port number(Channel 1)
		multicast_ch2_port	1024 to 50000	MPEG-4 multicast port number(Channel 2)
		multicast_ch3_port	1024 to 50000	MPEG-4 multicast port number(Channel 3)
		multicast_ch4_port	1024 to 50000	MPEG-4 multicast port number(Channel 4)
		multicast_ch1_ttl	1024 to 50000	MPEG-4 multicast TTL(Common)
		unicast_port1	1024 to 50000	Unicast port1(image) (Channel1)
		unicast_port2	1024 to 50000	Unicast port1(image) (Channel2)
		unicast_port3	1024 to 50000	Unicast port1(image) (Channel3)
		unicast_port4	1024 to 50000	Unicast port1(image) (Channel4)
		unicast_audio_port1	1024 to 50000	Unicast port2(audio) (Channel1)
		mpeg_maxclient	1 to 8	Max number of MPEG-4 client
		set_kind	3	This parameter is fixed as "3". This parameter cannot be omitted.

Ex1) MPEG-4 setup, Transmission type: unicast(auto), max number of mpeg-4: 1

[http://192.168.0.10/cgi-bin/set\\_pegmpeg?mpeg\\_unimulti=uni&mpeg\\_maxclient=1&set\\_kind=3](http://192.168.0.10/cgi-bin/set_pegmpeg?mpeg_unimulti=uni&mpeg_maxclient=1&set_kind=3)

Ex2) MPEG-4 setup, Transmission type: multicast, multicast address (channel 1): 224.0.0.1, multicast address (channel 2): 239.192.0.21, multicast address (channel 3): 239.192.0.22, multicast address (channel 4): 239.192.0.23, multicast port (channel 1): 37004, multicast port (channel 2): 37006, multicast port (channel 3): 37008, multicast port (channel 4): 37010, TTL:16

[http://192.168.0.10/cgi-bin/set\\_pegmpeg?mpeg\\_unimulti=multi&multicast\\_ch1\\_addr1=224&multicast\\_ch1\\_addr2=0&multicast\\_ch1\\_addr3=0&multicast\\_ch1\\_addr4=1&multicast\\_ch2\\_addr1=239&multicast\\_ch2\\_addr2=192&multicast\\_ch2\\_addr3=0&multicast\\_ch2\\_addr4=21&multicast\\_ch3\\_addr1=239&multicast\\_ch3\\_addr2=192&multicast\\_ch3\\_addr3=0&multicast\\_ch3\\_addr4=22&multicast\\_ch4\\_addr1=239&multicast\\_ch4\\_addr2=192&multicast\\_ch4\\_addr3=0&multicast\\_ch4\\_addr4=23&multicast\\_ch1\\_port=37004&multicast\\_ch2\\_port=37006&multicast\\_ch3\\_port=37008&multicast\\_ch4\\_port=37010&multicast\\_ch1\\_ttl=16&set\\_kind=3](http://192.168.0.10/cgi-bin/set_pegmpeg?mpeg_unimulti=multi&multicast_ch1_addr1=224&multicast_ch1_addr2=0&multicast_ch1_addr3=0&multicast_ch1_addr4=1&multicast_ch2_addr1=239&multicast_ch2_addr2=192&multicast_ch2_addr3=0&multicast_ch2_addr4=21&multicast_ch3_addr1=239&multicast_ch3_addr2=192&multicast_ch3_addr3=0&multicast_ch3_addr4=22&multicast_ch4_addr1=239&multicast_ch4_addr2=192&multicast_ch4_addr3=0&multicast_ch4_addr4=23&multicast_ch1_port=37004&multicast_ch2_port=37006&multicast_ch3_port=37008&multicast_ch4_port=37010&multicast_ch1_ttl=16&set_kind=3)

EX3)MPEG-4 setup, Transmission type: unicast (manual), max number of mpeg-4: 3, Unicast port 1:32046, Unicast port 2:32006, Unicast port 3:32008, Unicast port 4:32010, unicast port(audio): 33004

[http://192.168.0.10/cgi-bin/set\\_pegmpeg?mpeg\\_unimulti=uni\\_manual&mpeg\\_maxclient=3&unicast\\_port1=32046&unicast\\_port2=32006&unicast\\_port3=32008&unicast\\_port4=32010&unicast\\_audio\\_port1=33004&set\\_kind=3](http://192.168.0.10/cgi-bin/set_pegmpeg?mpeg_unimulti=uni_manual&mpeg_maxclient=3&unicast_port1=32046&unicast_port2=32006&unicast_port3=32008&unicast_port4=32010&unicast_audio_port1=33004&set_kind=3)

### 3.3.27. Get setup data list

Correspondence model: WV-NP244, WV-NS202A, WV-NW484, WV-NS954, WV-NW964, WV-NF302, WV-NP304

Method: GET

Table: CGI commands for getting setup data list

CGI command	URL	Parameter name	Parameter value	Comments
Get setup data list	/cgi-bin/setdata (access level 1)	-	-	No parameter

Ex) Get setup data

<http://192.168.0.10/cgi-bin/setdata>

The command response is described at chapter 9.



## 3.3.28. Detection program setup (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands for detection program setup

CGI command	URL	Parameter name	Parameter value	Comments
Detection program setup	/cgi-bin/set_avmd (access level 1)	sel_conditi on	1 to 8	Detection program
		title	character string	Detection program title
		sel_ch	1 to 4	Channel number
		sel_pre	(blank), 1 to 256	Preset position number  1 to 256: preset position (blank): no preset position or fixed camera
		area1	0, 1	Area 1 to detect an intruder 0: OFF 1: ON
		area2	0, 1	Area 2 to detect an intruder 0: OFF 1: ON
		area3	0, 1	Area 3 to detect an intruder 0: OFF 1: ON
		area7	0, 1	Area to detect the object abandonment or removal. 0: OFF 1: ON
		area8	0, 1	Area not to activate AVMD. 0: OFF 1: ON
		area1_fig1	Refer to (*1)	The first polygon of area 1: Number and coordinates in the apexes

CGI command	URL	Parameter name	Parameter value	Comments
		area1_fig2	Refer to (*1)	The second polygon of area 1: Number and coordinates in the apexes
		area1_fig3	Refer to (*1)	The third polygon of area 1: Number and coordinates in the apexes
		area1_fig4	Refer to (*1)	The fourth polygon of area 1: Number and coordinates in the apexes
		area1_fig5	Refer to (*1)	The fifth polygon of area 1: Number and coordinates in the apexes
		area1_fig6	Refer to (*1)	The sixth polygon of area 1: Number and coordinates in the apexes
		area1_fig7	Refer to (*1)	The seventh polygon of area 1: Number and coordinates in the apexes
		area1_fig8	Refer to (*1)	The eighth polygon of area 1: Number and coordinates in the apexes
		area2_fig1	Refer to (*1)	The first polygon of area 2: Number and coordinates in the apexes
		area2_fig2	Refer to (*1)	The second polygon of area 2: Number and coordinates in the apexes
		area2_fig3	Refer to (*1)	The third polygon of area 2: Number and coordinates in the apexes
		area2_fig4	Refer to (*1)	The fourth polygon of area 2: Number and coordinates in the apexes

CGI command	URL	Parameter name	Parameter value	Comments
		area2_fig5	Refer to (*1)	The fifth polygon of area 2: Number and coordinates in the apexes
		area2_fig6	Refer to (*1)	The sixth polygon of area 2: Number and coordinates in the apexes
		area2_fig7	Refer to (*1)	The seventh polygon of area 2: Number and coordinates in the apexes
		area2_fig8	Refer to (*1)	The eighth polygon of area 2: Number and coordinates in the apexes
		area3_fig1	Refer to (*1)	The first polygon of area 3: Number and coordinates in the apexes
		area3_fig2	Refer to (*1)	The second polygon of area 3: Number and coordinates in the apexes
		area3_fig3	Refer to (*1)	The third polygon of area 3: Number and coordinates in the apexes
		area3_fig4	Refer to (*1)	The fourth polygon of area 3: Number and coordinates in the apexes
		area3_fig5	Refer to (*1)	The fifth polygon of area 3: Number and coordinates in the apexes
		area3_fig6	Refer to (*1)	The sixth polygon of area 3: Number and coordinates in the apexes
		area3_fig7	Refer to (*1)	The seventh polygon of area 3: Number and coordinates in the apexes

CGI command	URL	Parameter name	Parameter value	Comments
		area3_fig8	Refer to (*1)	The eighth polygon of area 3: Number and coordinates in the apexes
		area7_fig1	Refer to (*1)	The first polygon of area to detect the object abandonment or removal: Number and coordinates in the apexes
		area7_fig2	Refer to (*1)	The second polygon of area to detect the object abandonment or removal:: Number and coordinates in the apexes
		area7_fig3	Refer to (*1)	The third polygon of area to detect the object abandonment or removal:: Number and coordinates in the apexes
		area7_fig4	Refer to (*1)	The fourth polygon of area to detect the object abandonment or removal:: Number and coordinates in the apexes
		area7_fig5	Refer to (*1)	The fifth polygon of area to detect the object abandonment or removal:: Number and coordinates in the apexes
		area7_fig6	Refer to (*1)	The sixth polygon of area to detect the object abandonment or removal:: Number and coordinates in the apexes
		area7_fig7	Refer to (*1)	The seventh polygon of area to detect the object abandonment or removal:: Number and coordinates in the apexes

CGI command	URL	Parameter name	Parameter value	Comments
		area7_fig8	Refer to (*1)	The eighth polygon of area to detect the object abandonment or removal:: Number and coordinates in the apexes
		area3_fig1	Refer to (*1)	The first polygon of area not to activate AVMD: Number and coordinates in the apexes
		area3_fig2	Refer to (*1)	The second polygon of area not to activate AVMD: Number and coordinates in the apexes
		area3_fig3	Refer to (*1)	The third polygon of area not to activate AVMD: Number and coordinates in the apexes
		area3_fig4	Refer to (*1)	The fourth polygon of area not to activate AVMD: Number and coordinates in the apexes
		area3_fig5	Refer to (*1)	The fifth polygon of area not to activate AVMD: Number and coordinates in the apexes
		area3_fig6	Refer to (*1)	The sixth polygon of area not to activate AVMD: Number and coordinates in the apexes
		area3_fig7	Refer to (*1)	The seventh polygon of area not to activate AVMD: Number and coordinates in the apexes
		area3_fig8	Refer to (*1)	The eighth polygon of area not to activate AVMD: Number and coordinates in the apexes

(\*1)

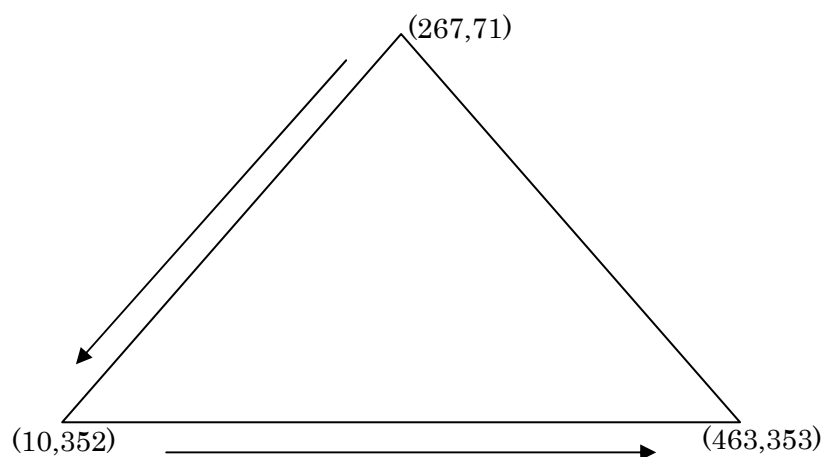
0 + ("1 to F") + ("0 to 479" + "0 to 359") x "number of the apex (up to 16)"

0: fixed value

1 to F: number of the apexes

("0 to 479" + "0 to 359") x "number of the apex (up to 16)": coordinates information of the apexes

EX1) When the following triangle area is set, the value becomes "02026700710010035204630353".



The meaning of "02026700710010035204630353" is the following.

0 : fixed value

2 : number of the apex - 1

0267 : X coordinates of the first apex (4 byte)

0071 : Y coordinates of the first apex (4 byte)

0010 : X coordinates of the second apex (4 byte)

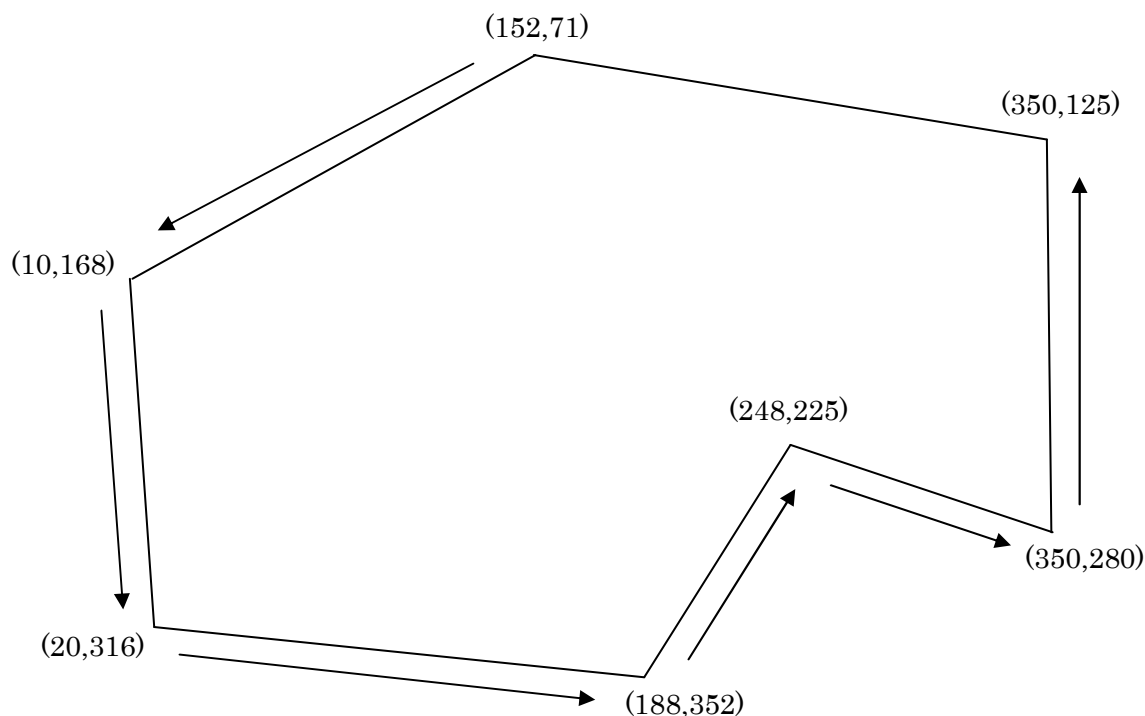
0352 : Y coordinates of the second apex (4 byte)

0463 : X coordinates of the third apex (4 byte)

0353 : Y coordinates of the third apex (4 byte)

EX2) When the following triangle area is set, the value becomes

"0601520071001001680020031601880352024802250350028003500125".

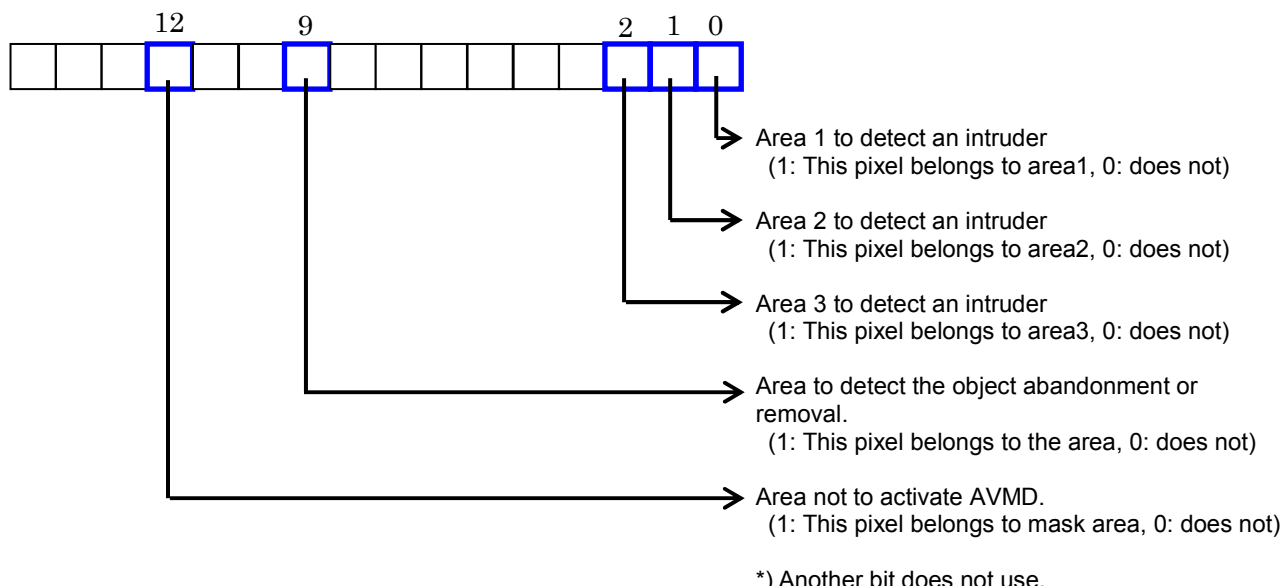


The meaning of "0601520071001001680020031601880352024802250350028003500125" is the following.

- 0 : fixed value
- 6 : number of the apex – 1
- 0152 : X coordinates of the first apex (4 byte)
- 0071 : Y coordinates of the first apex (4 byte)
- 0010 : X coordinates of the second apex (4 byte)
- 0168 : Y coordinates of the second apex (4 byte)
- 0020 : X coordinates of the third apex (4 byte)
- 0316 : Y coordinates of the third apex (4 byte)
- 0188 : X coordinates of the fourth apex (4 byte)
- 0352 : Y coordinates of the fourth apex (4 byte)
- 0248 : X coordinates of the fifth apex (4 byte)
- 0225 : Y coordinates of the fifth apex (4 byte)
- 0350 : X coordinates of the sixth apex (4 byte)
- 0280 : Y coordinates of the sixth apex (4 byte)
- 0350 : X coordinates of the seventh apex (4 byte)
- 0125 : Y coordinates of the seventh apex (4 byte)

(\*2) The bitmap data is composed of the 160 x 120 pixel.

Each pixel is composed of following 16bit data.



It is necessary that the parameter value is encoded by Base64 encoding.

Command example) Detection program setup (Detection program: 1, Detection program title: AREA1,  
Channel number: 1, Preset position number: 128, Area 1 to detect an intruder:ON,  
area1\_fig1: 1301130063031600630316015901130159

[http://192.168.0.10/cgi-bin/set\\_avmd?sel\\_condition=1&title=AREA1&sel\\_ch=1&sel\\_pre=128&area1=1&area2=0&area3=0&area7=0&area8=0&area1\\_fig1=1301130063031600630316015901130159](http://192.168.0.10/cgi-bin/set_avmd?sel_condition=1&title=AREA1&sel_ch=1&sel_pre=128&area1=1&area2=0&area3=0&area7=0&area8=0&area1_fig1=1301130063031600630316015901130159)



### 3.3.29. Delete the detection program (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands for detection program setup

CGI command	URL	Parameter name	Parameter value	Comments
Delete the detection program	/cgi-bin/del_avmd (access level 1)	sel_conditi on	1 to 8	Detection program

Ex) Delete the detection program 1

[http://192.168.0.10/cgi-bin/del\\_avmd?sel\\_condition=1](http://192.168.0.10/cgi-bin/del_avmd?sel_condition=1)

## 3.3.30. Set the detection depth (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands for detection program setup

CGI command	URL	Parameter name	Parameter value	Comments
Set the detection depth	/cgi-bin/set_avmd_3d (access level 1)	sel_conditi on	1 to 8	Detection program
		area1_ulx_ v	0 to 319	Upper left X coordinates of the detection depth area 1
		area1_uly_ v	0 to 239	Upper left Y coordinates of the detection depth area 1
		area1_brx_ _v	0 to 319	Width of the detection depth area 1
		area1_bry_ _v	0 to 239	Height of the detection depth area 1
		area2_ulx_ v	0 to 319	Upper left X coordinates of the detection depth area 2
		area2_uly_ v	0 to 239	Upper left Y coordinates of the detection depth area 2
		area2_brx_ _v	0 to 319	Width of the detection depth area 2
		area2_bry_ _v	0 to 239	Height of the detection depth area 2
		depth_mod e	auto, manu	Mode  auto: Auto setup manu: Manual setup
		depth_ulx	-10000 to 10000	Missing line of the detection depth ( X coordinates when Y coordinates is 0 )
		depth_uly	-10000 to 10000	Missing line of the detection depth ( Y coordinates when X coordinates is 320 )

CGI command	URL	Parameter name	Parameter value	Comments
		depth_point_ulx	0 to 319	Basic coordinates of the #D result ( X coordinate )
		depth_point_uly	0 to 239	Basic coordinates of the #D result ( Y coordinate )
		depth_size_width	0 to 319	Size that basic coordinates of the #D result ( Width )
		depth_size_height	0 to 239	Size that basic coordinates of the #D result ( Height )

Ex) Sets the detection depth (Detection program:1, Detection depth area1:"Upper left coordinates: (141,25), Width:17, Height: 52", Detection depth area2:"Upper left coordinates: (182,20), Width:72, Height: 21", Mode: Manual setup

[http://192.168.0.10/cgi-bin/set\\_avmd\\_3d/sel\\_condition=1&area1\\_ulx\\_v=141&area1\\_uly\\_v=25&area1\\_brx\\_v=17&area1\\_bry\\_v=52&area2\\_ulx\\_v=182&area2\\_uly\\_v=20&area2\\_brx\\_v=72&area2\\_bry\\_v=21&depth\\_mode=manu&depth\\_ulx=27&depth\\_uly=27&depth\\_point\\_ulx=183&depth\\_point\\_uly=157&depth\\_size\\_width=44&depth\\_size\\_height=135](http://192.168.0.10/cgi-bin/set_avmd_3d/sel_condition=1&area1_ulx_v=141&area1_uly_v=25&area1_brx_v=17&area1_bry_v=52&area2_ulx_v=182&area2_uly_v=20&area2_brx_v=72&area2_bry_v=21&depth_mode=manu&depth_ulx=27&depth_uly=27&depth_point_ulx=183&depth_point_uly=157&depth_size_width=44&depth_size_height=135)

### 3.3.31. Delete the setting of detection depth (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands to delete the setting of detection depth

CGI command	URL	Parameter name	Parameter value	Comments
Delete the setting of detection depth	/cgi-bin/del_avmd_3d (access level 1)	sel_conditi on	1 to 8	Detection program

Ex) Delete the setting of detection depth 1

[http://192.168.0.10/cgi-bin/del\\_avmd\\_3d?sel\\_condition=1](http://192.168.0.10/cgi-bin/del_avmd_3d?sel_condition=1)

## 3.3.32. Get result of the manual detection depth calculation (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands to get result of the manual detection depth calculation

CGI command	URL	Parameter name	Parameter value	Comments
Get result of the manual detection depth calculation	/cgi-bin/cal_avmd_3d_manu (access level 1)	sel_conditi on	1 to 8	Detection program
		id	0 to 65535	The ID for getting result of the calculation
		request	0, 1	request type 0: request to start calculation 1: request to get halfway result
		area1_ulx_ v	0, 319	Upper left X coordinates of area 1
		area1_uly_ v	0, 239	Upper left Y coordinates of area 1
		area1_brx_ _v	0, 319	Width of area1
		area1_bry_ _v	0, 239	Height of area 1
		area2_ulx_ v	0, 319	Upper left X coordinates of area 2
		area2_uly_ v	0, 239	Upper left Y coordinates of area 2
		area2_brx_ _v	0, 319	Width of area2
		area2_bry_ _v	0, 239	Height of area 2

Ex1) Request to start calculation ( id:3, detection program:1 )

[http://192.168.0.10/cgi-bin/cal\\_avmd\\_3d\\_manu?sel\\_condition=1&id=3&request=0&area1\\_ulx\\_v=70&area1\\_uly\\_v=155&area1\\_brx\\_v=28&area1\\_bry\\_v=84&area2\\_ulx\\_v=156&area2\\_uly\\_v=62&area2\\_brx\\_v=14&area2\\_bry\\_v=42](http://192.168.0.10/cgi-bin/cal_avmd_3d_manu?sel_condition=1&id=3&request=0&area1_ulx_v=70&area1_uly_v=155&area1_brx_v=28&area1_bry_v=84&area2_ulx_v=156&area2_uly_v=62&area2_brx_v=14&area2_bry_v=42)

Ex2) Request to get halfway result ( id:3, detection program:1 )

[http://192.168.0.10/cgi-bin/cal\\_avmd\\_3d\\_manu?sel\\_condition=1&id=3&request=1&](http://192.168.0.10/cgi-bin/cal_avmd_3d_manu?sel_condition=1&id=3&request=1&)

### 3.3.33. Get result of the auto detection depth calculation (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands to get result of the auto detection depth calculation

CGI command	URL	Parameter name	Parameter value	Comments
Get result of the auto detection depth calculation	/cgi-bin/cal_avmd_3d_auto (access level 1)	sel_conditi on	1 to 8	Detection program
		id	0 to 65535	The ID for getting result of the calculation
		request	0, 1	request type 0: request to start calculation 1: request to get halfway result

Ex1) Request to start calculation ( id:2, detection program:1 )

[http://192.168.0.10/cgi-bin/cal\\_avmd\\_3d\\_auto?sel\\_condition=1&id=2&request=0](http://192.168.0.10/cgi-bin/cal_avmd_3d_auto?sel_condition=1&id=2&request=0)

Ex2) Request to get halfway result ( id:2, detection program:1 )

[http://192.168.0.10/cgi-bin/cal\\_avmd\\_3d\\_auto?sel\\_condition=1&id=2&request=1](http://192.168.0.10/cgi-bin/cal_avmd_3d_auto?sel_condition=1&id=2&request=1)

### 3.3.34. Stop the auto detection depth calculation (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands for stop the auto detection depth calculation

CGI command	URL	Parameter name	Parameter value	Comments
Stop the auto detection depth calculation	/cgi-bin/cal_avmd_3d_stop (access level 1)	sel_conditi on	1 to 8	Detection program

Ex) Request to stop auto detection depth calculation ( detection program:1 )

[http://192.168.0.10/cgi-bin/cal\\_avmd\\_3d\\_stop?sel\\_condition=1](http://192.168.0.10/cgi-bin/cal_avmd_3d_stop?sel_condition=1)

## 3.3.35. Set the AVMD schedule (AVMD setup)

Correspondence model: WJ-NT314

Method: POST

Table: CGI commands to set the AVMD schedule

CGI command	URL	Parameter name	Parameter value	Comments
Set the AVMD schedule	/cgi-bin/set_avmd_schedule (access level 1)	condition1	1 to 8	Schedule 1: Detection program
		mon1	0, 1	Schedule 1: Monday 1: ON 0: OFF
		tue1	0, 1	Schedule 1: Tuesday 1: ON 0: OFF
		wed1	0, 1	Schedule 1: Wednesday 1: ON 0: OFF
		thu1	0, 1	Schedule 1: Tuesday 1: ON 0: OFF
		fri1	0, 1	Schedule 1: Friday 1: ON 0: OFF
		sat1	0, 1	Schedule 1: Saturday 1: ON 0: OFF
		sun1	0, 1	Schedule 1: Sunday 1: ON 0: OFF
		start_hour1	0 to 23	Schedule 1: Start time (Time)
		start_min1	0 to 59	Schedule 1: Start time (Minute)
		end_hour1	0 to 23	Schedule 1: End time (Time)
		end_min1	0 to 59	Schedule 1: End time (Minute)



CGI command	URL	Parameter name	Parameter value	Comments
		time_mode 1	1, 2	Schedule 1: 24hours setting 1: Designating time 2: Not designating time (24hours)
		condition2	1 to 8	Schedule 2: Detection program
		mon2	0, 1	Schedule 2: Monday 1: ON 0: OFF
		tue2	0, 1	Schedule 2: Tuesday 1: ON 0: OFF
		wed2	0, 1	Schedule 2: Wednesday 1: ON 0: OFF
		thu2	0, 1	Schedule 2: Tuesday 1: ON 0: OFF
		fri2	0, 1	Schedule 2: Friday 1: ON 0: OFF
		sat2	0, 1	Schedule 2: Saturday 1: ON 0: OFF
		sun2	0, 1	Schedule 2: Sunday 1: ON 0: OFF
		start_hour 2	0 to 23	Schedule 2: Start time (Time)
		start_min2	0 to 59	Schedule 2: Start time (Minute)
		end_hour2	0 to 23	Schedule 2: End time (Time)
		end_min2	0 to 59	Schedule 2: End time (Minute)
		time_mode 2	1, 2	Schedule 2: 24hours setting 1: Designating time 2: Not designating time (24hours)
		condition3	1 to 8	Schedule 3: Detection program

CGI command	URL	Parameter name	Parameter value	Comments
		mon3	0, 1	Schedule 3: Monday 1: ON 0: OFF
		tue3	0, 1	Schedule 3: Tuesday 1: ON 0: OFF
		wed3	0, 1	Schedule 3: Wednesday 1: ON 0: OFF
		thu3	0, 1	Schedule 3: Tuesday 1: ON 0: OFF
		fri3	0, 1	Schedule 3: Friday 1: ON 0: OFF
		sat3	0, 1	Schedule 3: Saturday 1: ON 0: OFF
		sun3	0, 1	Schedule 3: Sunday 1: ON 0: OFF
		start_hour3	0 to 23	Schedule 3: Start time (Time)
		start_min3	0 to 59	Schedule 3: Start time (Minute)
		end_hour3	0 to 23	Schedule 3: End time (Time)
		end_min3	0 to 59	Schedule 3: End time (Minute)
		time_mode3	1, 2	Schedule 3: 24hours setting 1: Designating time 2: Not designating time (24hours)
		condition4	1~8	Schedule 4: Detection program
		mon4	0, 1	Schedule 4: Monday 1: ON 0: OFF

CGI command	URL	Parameter name	Parameter value	Comments
		tue4	0, 1	Schedule 4: Tuesday 1: ON 0: OFF
		wed4	0, 1	Schedule 4: Wednesday 1: ON 0: OFF
		thu4	0, 1	Schedule 4: Thursday 1: ON 0: OFF
		fri4	0, 1	Schedule 4: Friday 1: ON 0: OFF
		sat4	0, 1	Schedule 4: Saturday 1: ON 0: OFF
		sun4	0, 1	Schedule 4: Sunday 1: ON 0: OFF
		start_hour4	0 to 23	Schedule 4: Start time (Time)
		start_min4	0 to 59	Schedule 4: Start time (Minute)
		end_hour4	0 to 23	Schedule 4: End time (Time)
		end_min4	0 to 59	Schedule 4: End time (Minute)
		time_mode4	1, 2	Schedule 4: 24hours setting 1: Designating time 2: Not designating time (24hours)
		condition5	1~8	Schedule 5: Detection program
		mon5	0, 1	Schedule 5: Monday 1: ON 0: OFF
		tue5	0, 1	Schedule 5: Tuesday 1: ON 0: OFF

CGI command	URL	Parameter name	Parameter value	Comments
		wed5	0, 1	Schedule 5: Wednesday 1: ON 0: OFF
		thu5	0, 1	Schedule 5: Tuesday 1: ON 0: OFF
		fri5	0, 1	Schedule 5: Friday 1: ON 0: OFF
		sat5	0, 1	Schedule 5: Saturday 1: ON 0: OFF
		sun5	0, 1	Schedule 5: Sunday 1: ON 0: OFF
		start_hour5	0 to 23	Schedule 5: Start time (Time)
		start_min5	0 to 59	Schedule 5: Start time (Minute)
		end_hour5	0 to 23	Schedule 5: End time (Time)
		end_min5	0 to 59	Schedule 5: End time (Minute)
		time_mode5	1, 2	Schedule 5: 24hours setting 1: Designating time 2: Not designating time (24hours)
		condition6	1~8	Schedule 6: Detection program
		mon6	0, 1	Schedule 6: Monday 1: ON 0: OFF
		tue6	0, 1	Schedule 6: Tuesday 1: ON 0: OFF
		wed6	0, 1	Schedule 6: Wednesday 1: ON 0: OFF

CGI command	URL	Parameter name	Parameter value	Comments
		thu6	0, 1	Schedule 6: Tuesday 1: ON 0: OFF
		fri6	0, 1	Schedule 6: Friday 1: ON 0: OFF
		sat6	0, 1	Schedule 6: Saturday 1: ON 0: OFF
		sun6	0, 1	Schedule 6: Sunday 1: ON 0: OFF
		start_hour6	0 to 23	Schedule 6: Start time (Time)
		start_min6	0 to 59	Schedule 6: Start time (Minute)
		end_hour6	0 to 23	Schedule 6: End time (Time)
		end_min6	0 to 59	Schedule 6: End time (Minute)
		time_mode6	1, 2	Schedule 6: 24hours setting 1: Designating time 2: Not designating time (24hours)
		condition7	1~8	Schedule 7: Detection program
		mon7	0, 1	Schedule 7: Monday 1: ON 0: OFF
		tue7	0, 1	Schedule 7: Tuesday 1: ON 0: OFF
		wed7	0, 1	Schedule 7: Wednesday 1: ON 0: OFF
		thu7	0, 1	Schedule 7: Tuesday 1: ON 0: OFF

CGI command	URL	Parameter name	Parameter value	Comments
		fri7	0, 1	Schedule 7: Friday 1: ON 0: OFF
		sat7	0, 1	Schedule 7: Saturday 1: ON 0: OFF
		sun7	0, 1	Schedule 7: Sunday 1: ON 0: OFF
		start_hour7	0 to 23	Schedule 7: Start time (Time)
		start_min7	0 to 59	Schedule 7: Start time (Minute)
		end_hour7	0 to 23	Schedule 7: End time (Time)
		end_min7	0 to 59	Schedule 7: End time (Minute)
		time_mode7	1, 2	Schedule 7: 24hours setting 1: Designating time 2: Not designating time (24hours)
		condition8	1~8	Schedule 8: Detection program
		mon8	0, 1	Schedule 8: Monday 1: ON 0: OFF
		tue8	0, 1	Schedule 8: Tuesday 1: ON 0: OFF
		wed8	0, 1	Schedule 8: Wednesday 1: ON 0: OFF
		thu8	0, 1	Schedule 8: Tuesday 1: ON 0: OFF
		fri8	0, 1	Schedule 8: Friday 1: ON 0: OFF

CGI command	URL	Parameter name	Parameter value	Comments
		sat8	0, 1	Schedule 8: Saturday 1: ON 0: OFF
		sun8	0, 1	Schedule 8: Sunday 1: ON 0: OFF
		start_hour8	0 to 23	Schedule 8: Start time (Time)
		start_min8	0 to 59	Schedule 8: Start time (Minute)
		end_hour8	0 to 23	Schedule 8: End time (Time)
		end_min8	0 to 59	Schedule 8: End time (Minute)
		time_mode8	1, 2	Schedule 8: 24hours setting 1: Designating time 2: Not designating time (24hours)

Ex) AVMD schedule setup

[http://192.168.0.10/cgi-bin/set\\_avmd\\_schedule?start\\_hour1=10&start\\_min1=0&end\\_hour1=5&end\\_min1=0&condition1=1&start\\_hour2=1&mon1=1&tue1=0&wed1=0&thu1=0&fri1=0&sat1=0&sun1=0&time\\_mode1=1](http://192.168.0.10/cgi-bin/set_avmd_schedule?start_hour1=10&start_min1=0&end_hour1=5&end_min1=0&condition1=1&start_hour2=1&mon1=1&tue1=0&wed1=0&thu1=0&fri1=0&sat1=0&sun1=0&time_mode1=1)

## 3.3.36. Set privacy zone

Correspondence model: WV-NF302, WV-NP304

Method: POST

Table: CGI commands to set provacy zone

CGI command	URL	Parameter name	Parameter value	Comments
Set privacy zone	/cgi-bin/privacymode (access level 1)	area1_ulx	0 to 639	Upper left X coordinates of privacy zone 1
		area1_uly	0 to 479	Upper left Y coordinates of privacy zone 1
		area1_brx	0 to 639	Lower right X coordinates of privacy zone 1
		area1_bry	0 to 479	Lower right Y coordinates of privacy zone 1
		area2_ulx	0 to 639	Upper left X coordinates of privacy zone 2
		area2_uly	0 to 479	Upper left Y coordinates of privacy zone 2
		area2_brx	0 to 639	Lower right X coordinates of privacy zone 2
		area2_bry	0 to 479	Lower right Y coordinates of privacy zone 2
		area3_ulx	0 to 639	Upper left X coordinates of privacy zone 3
		area3_uly	0 to 479	Upper left Y coordinates of privacy zone 3
		area3_brx	0 to 639	Lower right X coordinates of privacy zone 3
		area3_bry	0 to 479	Lower right Y coordinates of privacy zone 3
		area4_ulx	0 to 639	Upper left X coordinates of privacy zone 4
		area4_uly	0 to 479	Upper left Y coordinates of privacy zone 4



CGI command	URL	Parameter name	Parameter value	Comments
		area4_brx	0 to 639	Lower right X coordinates of privacy zone 4
		area4_bry	0 to 479	Lower right Y coordinates of privacy zone 4
		area5_ulx	0 to 639	Upper left X coordinates of privacy zone 5
		area5_uly	0 to 479	Upper left Y coordinates of privacy zone 5
		area5_brx	0 to 639	Lower right X coordinates of privacy zone 5
		area5_bry	0 to 479	Lower right Y coordinates of privacy zone 5
		area6_ulx	0 to 639	Upper left X coordinates of privacy zone 6
		area6_uly	0 to 479	Upper left Y coordinates of privacy zone 6
		area6_brx	0 to 639	Lower right X coordinates of privacy zone 6
		area6_bry	0 to 479	Lower right Y coordinates of privacy zone 6
		area7_ulx	0 to 639	Upper left X coordinates of privacy zone 7
		area7_uly	0 to 479	Upper left Y coordinates of privacy zone 7
		area7_brx	0 to 639	Lower right X coordinates of privacy zone 7
		area7_bry	0 to 479	Lower right Y coordinates of privacy zone 7
		area8_ulx	0 to 639	Upper left X coordinates of privacy zone 8
		area8_uly	0 to 479	Upper left Y coordinates of privacy zone 8
		area8_brx	0 to 639	Lower right X coordinates of privacy zone 8

CGI command	URL	Parameter name	Parameter value	Comments
		area8_bry	0 to 479	Lower right Y coordinates of privacy zone 8
		zone1_display	off, mask, mosaic	Display type of privacy zone 1 off: OFF mask: Gray mosaic: Mosaic
		zone2_display	off, mask, mosaic	Display type of privacy zone 2 off: OFF mask: Gray mosaic: Mosaic
		zone3_display	off, mask, mosaic	Display type of privacy zone 3 off: OFF mask: Gray mosaic: Mosaic
		zone4_display	off, mask, mosaic	Display type of privacy zone 4 off: OFF mask: Gray mosaic: Mosaic
		zone5_display	off, mask, mosaic	Display type of privacy zone 5 off: OFF mask: Gray mosaic: Mosaic
		zone6_display	off, mask, mosaic	Display type of privacy zone 6 off: OFF mask: Gray mosaic: Mosaic
		zone7_display	off, mask, mosaic	Display type of privacy zone 7 off: OFF mask: Gray mosaic: Mosaic
		zone8_display	off, mask, mosaic	Display type of privacy zone 8 off: OFF mask: Gray mosaic: Mosaic

Ex) Set privacy zone 1 (Upper left coordinates: (142,210), Lower right coordinates: (244,292),

Display type: Mosaic

[http://192.168.0.10/cgi-bin/privacymode?area1\\_ulx=142&area1\\_uly=210&area1\\_brx=244&area1\\_bry=292&zone1\\_display=mosaic](http://192.168.0.10/cgi-bin/privacymode?area1_ulx=142&area1_uly=210&area1_brx=244&area1_bry=292&zone1_display=mosaic)

### 3.3.37. Set relating the priority stream

Correspondence model: WV-NF302, WV-NP304

Method: POST

Table: CGI commands to set relating the priority stream

CGI command	URL	Parameter name	Parameter value	Comments
Set relating the priority stream	/cgi-bin/set_priority (access level 1)	priority	0, 1	Activation 0: Priority stream OFF 1: Priority stream ON
		ip_addr	(IPv6 address)	Destination IP address (IPv6)
		ip4_addr1	(number)	Destination IP address (IPv4) 1st octet
		ip4_addr2	(number)	Destination IP address (IPv4) 2nd octet
		ip4_addr3	(number)	Destination IP address (IPv4) 3rd octet
		ip4_addr4	(number)	Destination IP address (IPv4) 4th octet
		kind	jpeg,mpeg4	Stream type jpeg: JPEG mpeg4: MPEG-4
		jpeg_interval	0.1, 0.2, 0.30, 0.5, 1, 2, 3, 5, 6, 10, 15, 30	Refresh interval (JPEG) 0.1: 0.1(ips) 0.2: 0.2(ips) 0.30: 0.33(ips) 0.5: 0.5(ips) 1: 1(ips) 2: 2(ips) 3: 3(ips) 5: 5(ips) 6: 6(ips) 10: 10(ips) 15: 15(ips) 30: 30(ips)

CGI command	URL	Parameter name	Parameter value	Comments
		jpeg_resolution	320, 640, 1280	Image capture size 320: QVGA 640: VGA 1280: 1280x960

Ex) Set priority stream, Activation: ON, Destination IP address(IPv6): 2001:db8:0:0:0:0:0, IPv4 address: 192.168.0.1, Stream type: JPEG, interval:1, Image capture size: VGA

[http://192.168.0.10/cgi-bin/set\\_priority?priority=1&ip\\_addr=2001%3Adb8%3A0%3A0%3A0%3A0%3A77&kind=jpeg&jpeg\\_interval=1&jpeg\\_resolution=640&ip4\\_addr1=192&ip4\\_addr2=168&ip4\\_addr3=0&ip4\\_addr4=1](http://192.168.0.10/cgi-bin/set_priority?priority=1&ip_addr=2001%3Adb8%3A0%3A0%3A0%3A0%3A77&kind=jpeg&jpeg_interval=1&jpeg_resolution=640&ip4_addr1=192&ip4_addr2=168&ip4_addr3=0&ip4_addr4=1)

4. Basic sequence

The video transmission sequence of the network camera is shown below.

4.1. Video stream (JPEG) transmission

(1) In case of stopping transmission from PC

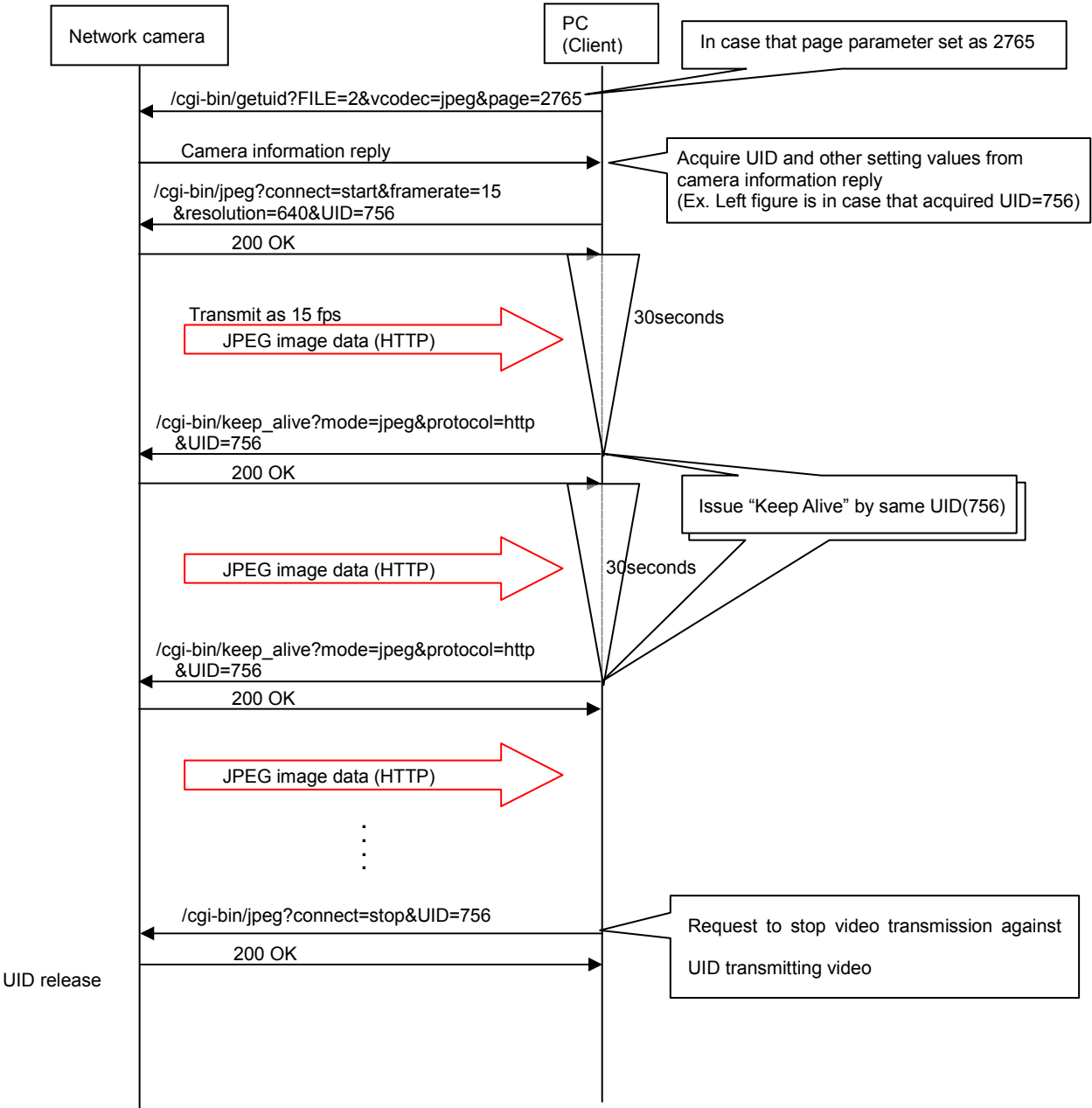


Figure 4.1.1: Video stream control

(2) In case of stopping transmission from camera

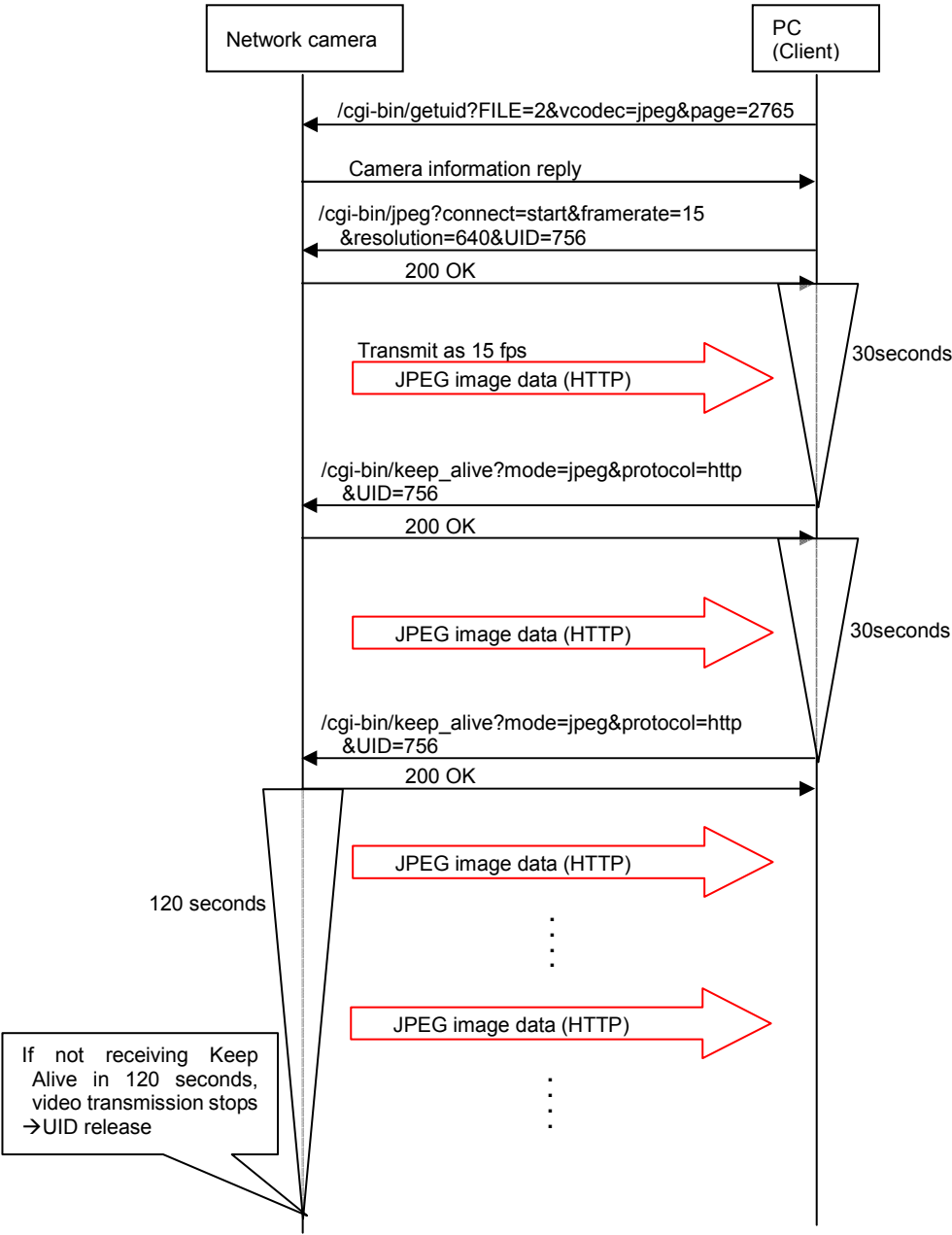


Figure 4.1.2: Video stream control

If not receiving “Keep Alive” command from PC, video transmission stops automatically.

4.2. Video stream (JPEG) and audio transmission

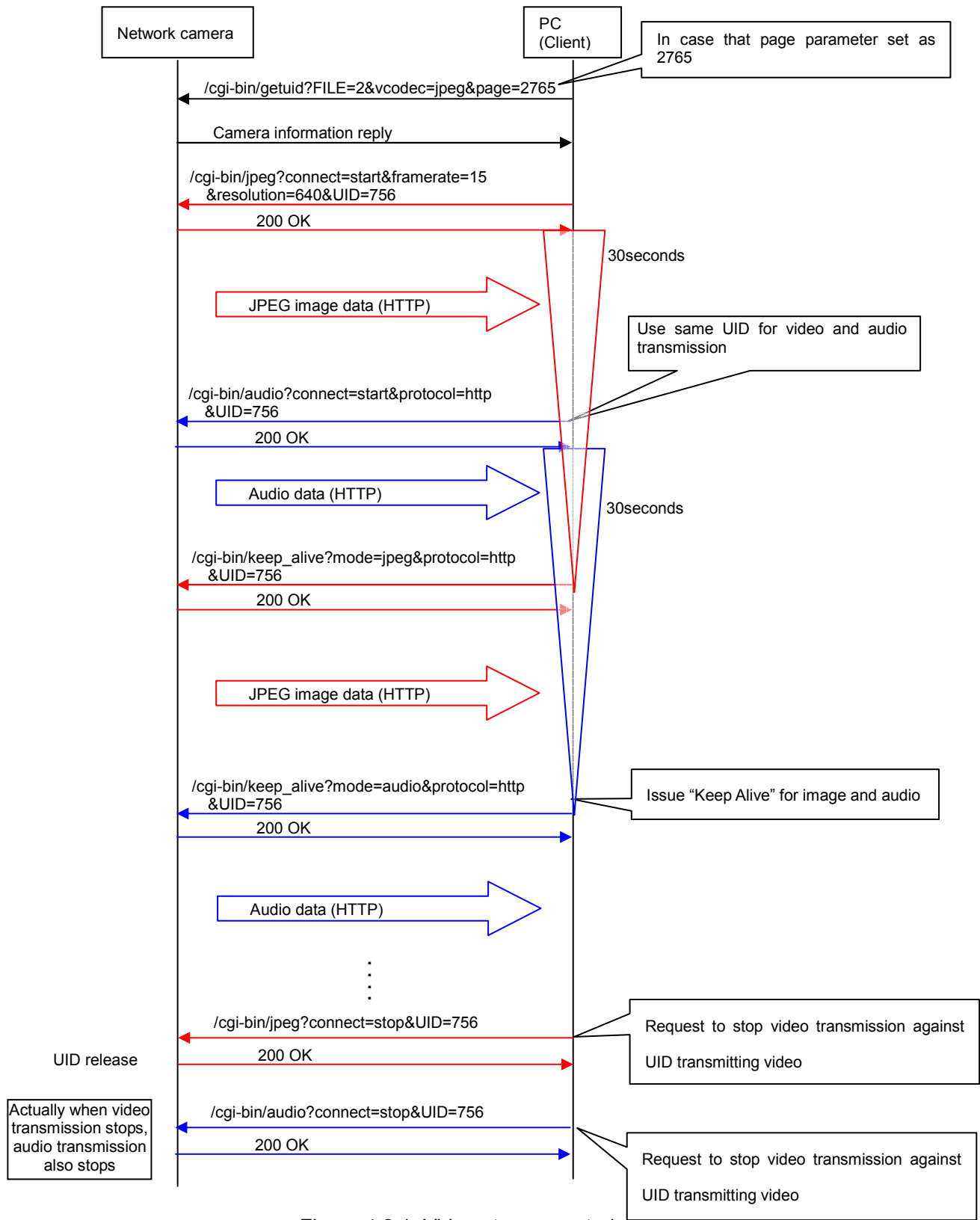


Figure 4.2.1: Video stream control

\*If a video transmission stops, an audio transmission of same UID also stops



### 4.3. Data format of JPEG stream transmission

The image format when transmitting video stream is shown below.

\*It is described [CR] as 0x0d and [LF] as 0x0a.

HTTP/1.1 200 OK[CR][LF]
Connection: close[CR][LF]
Content-type: multipart/x-mixed-replace;boundary=--myboundary[CR][LF]
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image 1([FFD8]~[FFD9])
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image 2([FFD8]~[FFD9])
[CR][LF]--myboundary[CR][LF]
...
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image N([FFD8]~[FFD9])
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image N+1([FFD8]~[FFD9])
...

Figure 4.3.1: Image format of JPEG stream transmission

In “Content-length:”, data length of JPEG image to be transmitted is set. (From FFD8 to FFD9)

4.4. Video stream (MPEG-4 unicast) transmission

(1) In case of stopping video transmission from PC

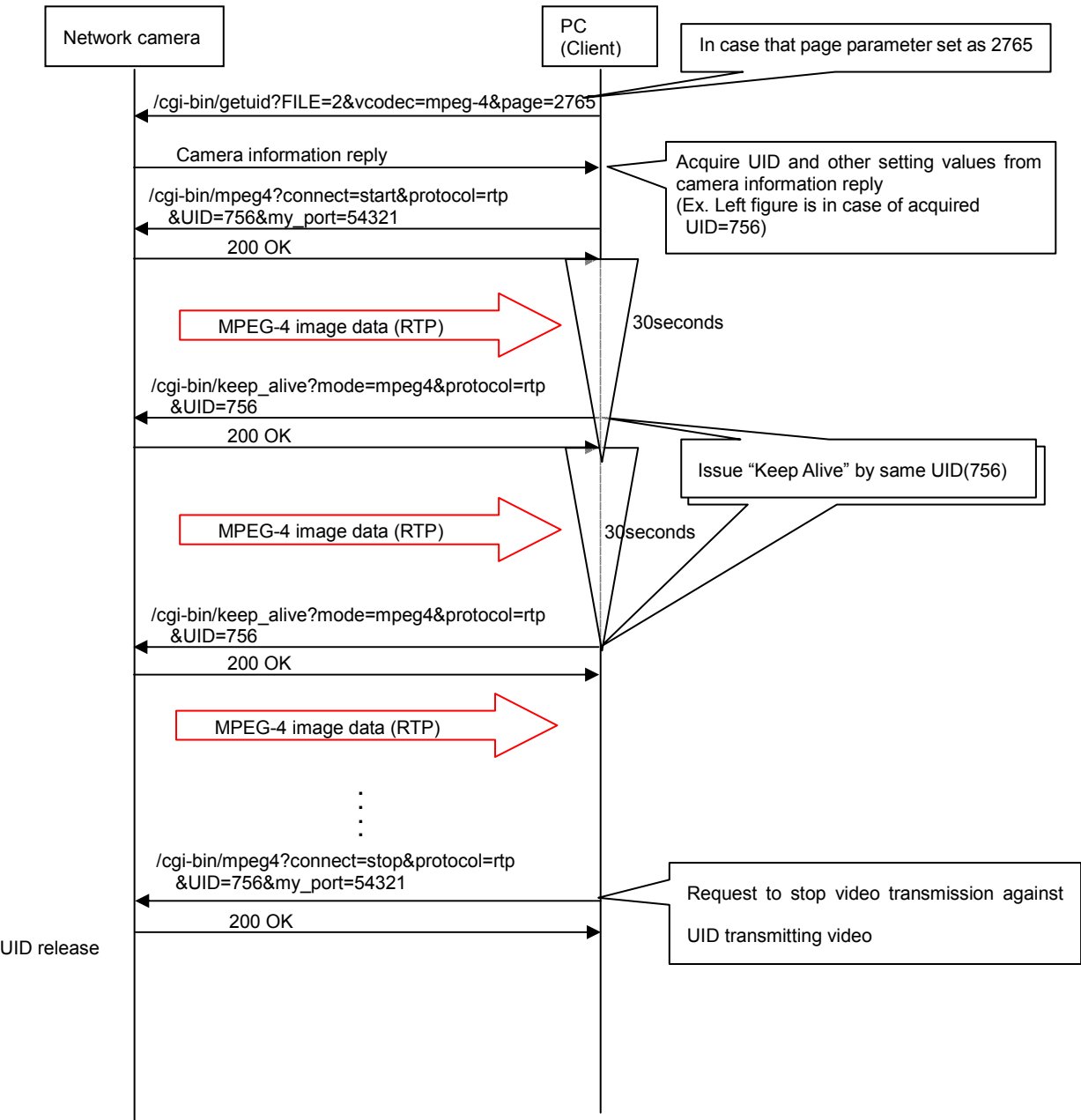


Figure 4.4.1: MPEG-4 image (unicast) transmission 1

(2) In case of stop transmission from camera

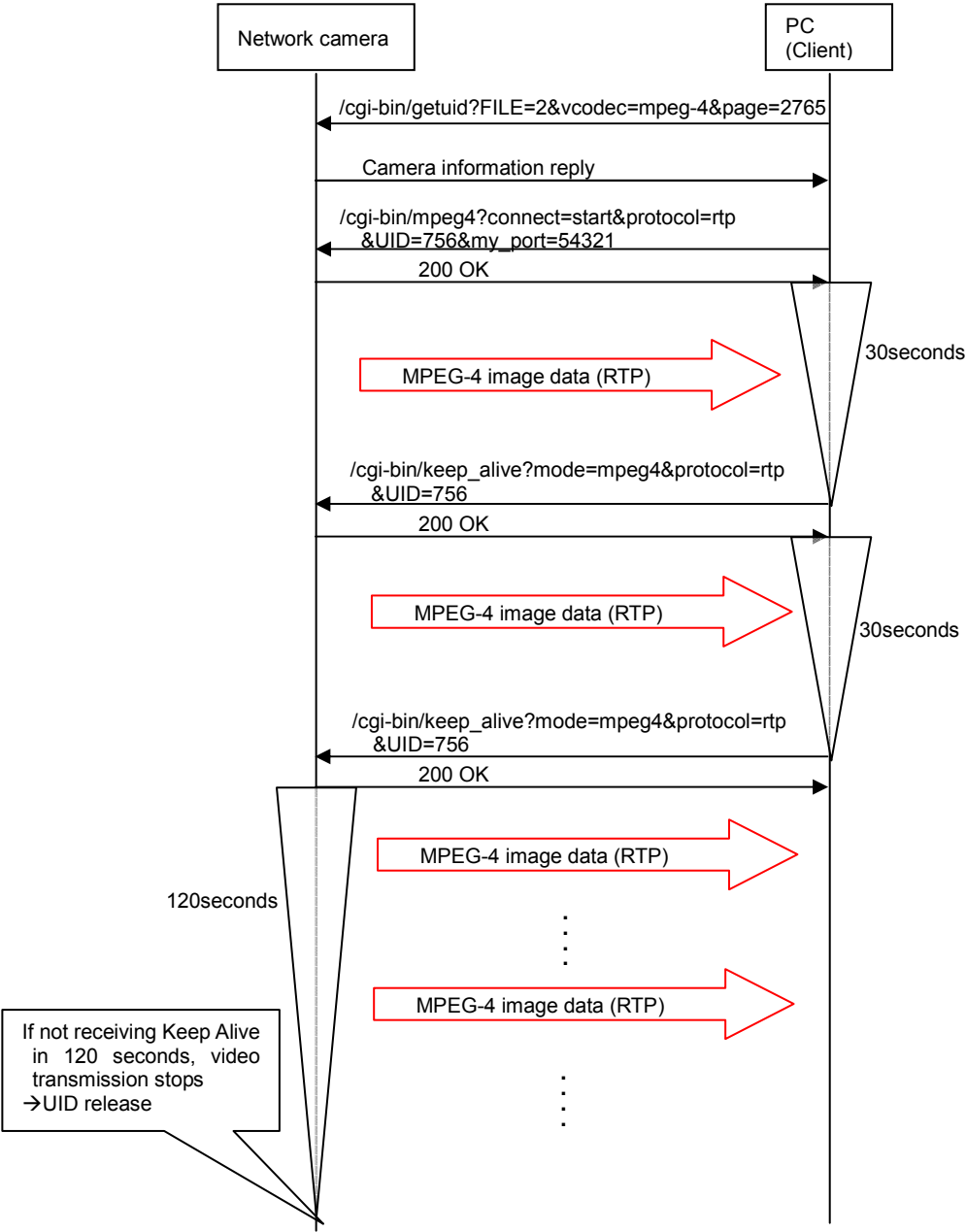


Figure 4.4.2: MPEG-4 image (unicast) transmission 2

If not receiving “Keep Alive” command from PC, a video transmission stops automatically.

#### 4.5. Video stream (MPEG-4 unicast) and audio transmission

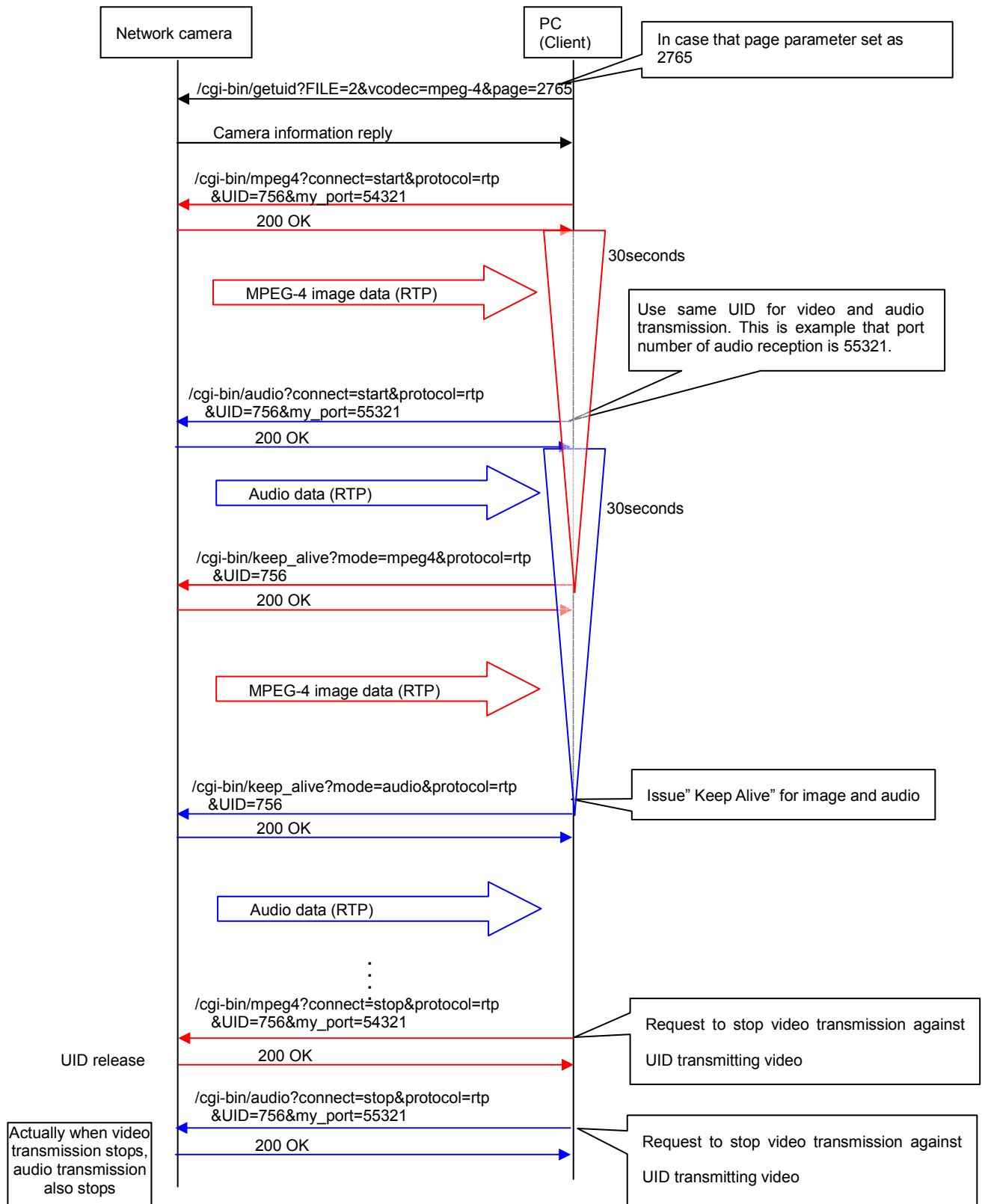


Figure 4.5.1: MPEG-4 image (unicast) and audio transmission

\*If a video transmission stops, an audio transmission of same UID also stops

#### 4.6. Video stream (MPEG-4 multicast) transmission

In case of multicast transmission, if received “Keep Alive” command from one client, a video transmission continues.

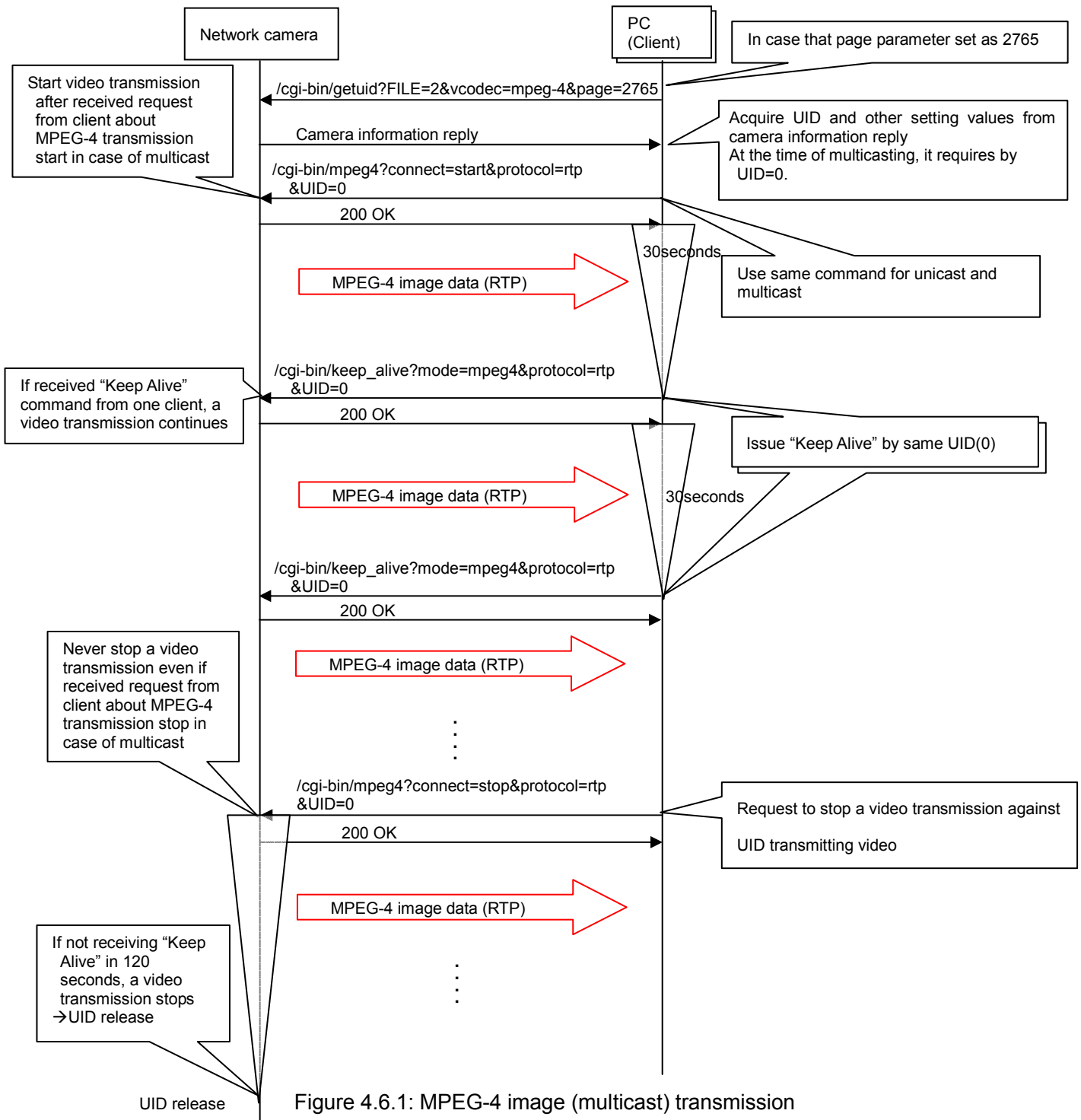
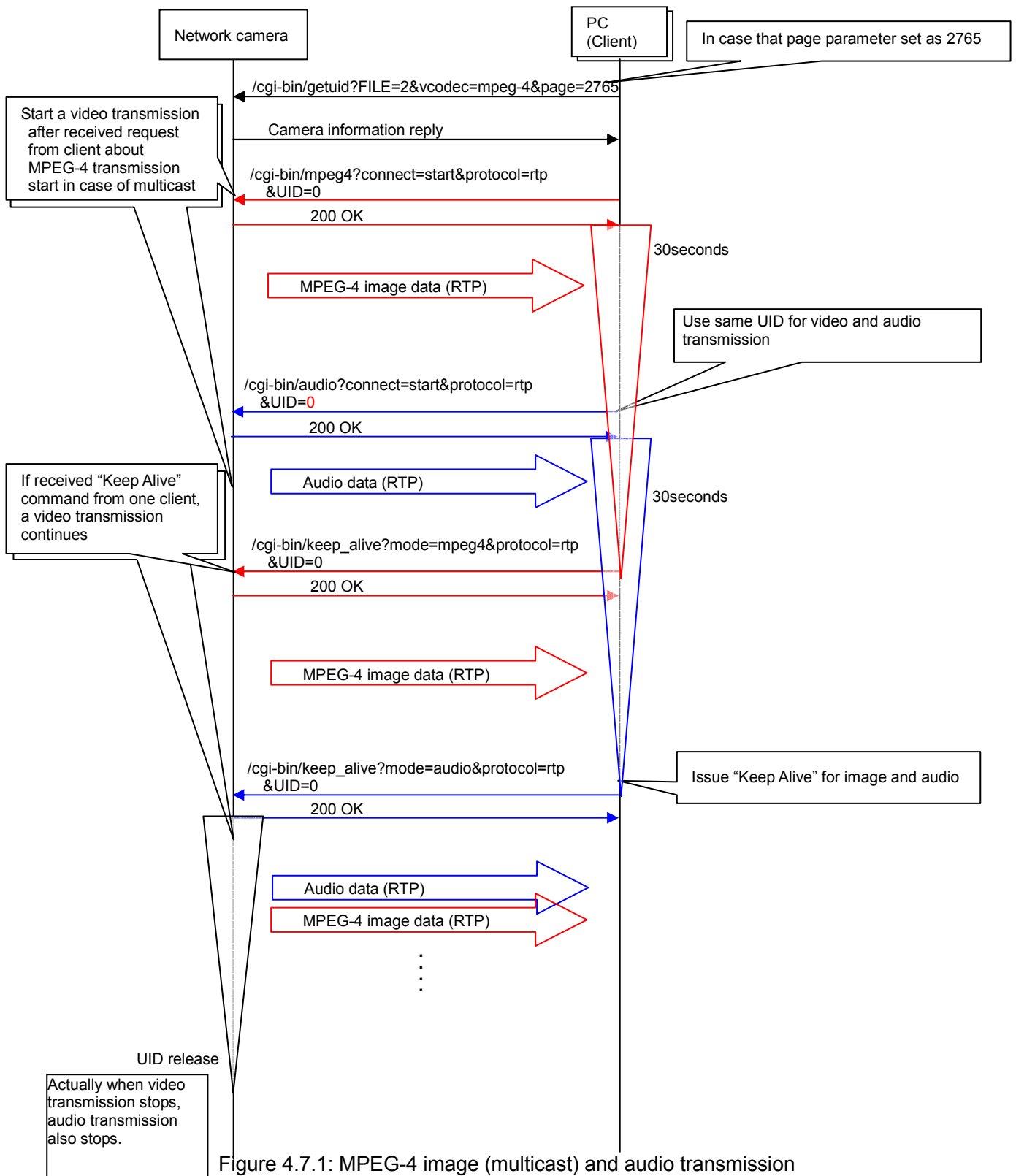


Figure 4.6.1: MPEG-4 image (multicast) transmission

If not receiving “Keep Alive” command from any PC (client), a video transmission stops automatically.

#### 4.7. Video stream (MPEG-4 multicast) and audio transmission



\*If a video transmission stops, an audio transmission also stops.

4.8. One shot (JPEG) request

Video images are transmitted by HTTP/1.1 unicast.  
The method of acquiring image is shown below. The network camera transmits a latest JPEG image to client after receiving a corresponding CGI command.

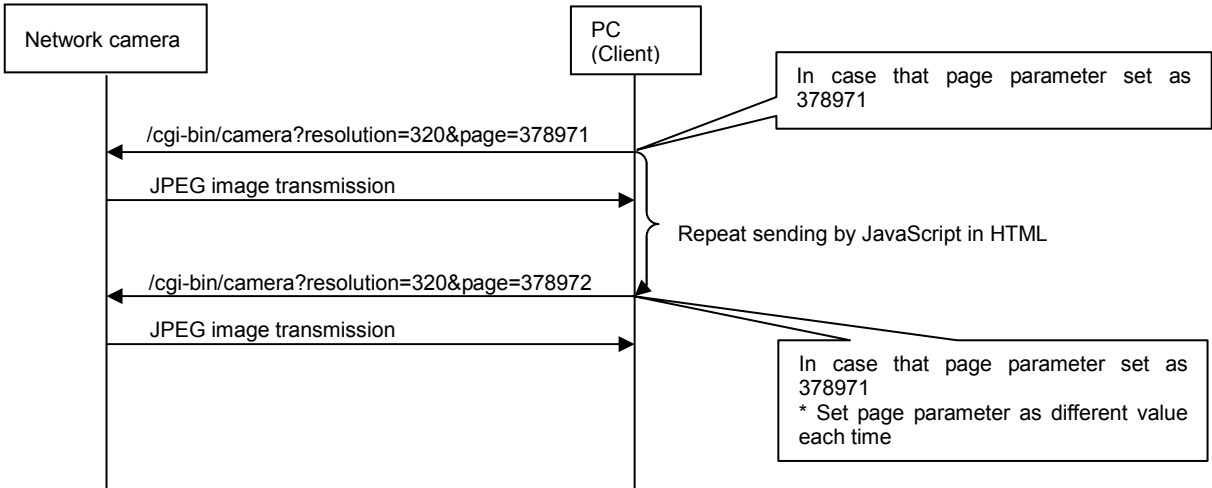


Figure 4.8.1: One shot (JPEG) request

#### 4.9. Getting product information

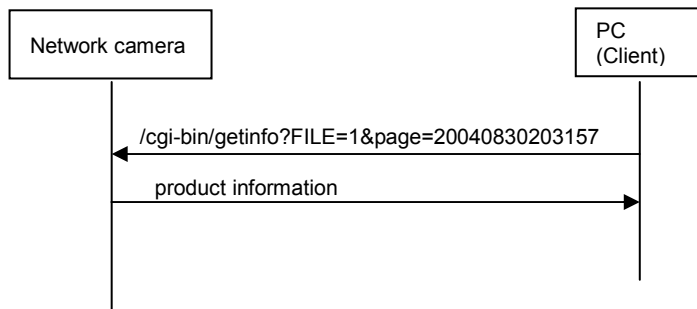


Figure 4.9.1: Getting product information

Response data is shown below.

```

-----
<HTML>
MAC=%mac_disp%[CR][LF]
VERSION=%ver%[CR][LF]
NAME=%name%[CR][LF]
aBitrate=%br%[CR][LF]
aInInterval=%ai%[CR][LF]
aInPort=%uctmap%[CR][LF]
aOutInterval=%aoi%[CR][LF]
aOutPort=%sport%[CR][LF]
aOutStatus=%ovs%[CR][LF]
sDelivery=%mum%[CR][LF]
ePort=%event_port%[CR][LF]
aEnable=%audio_env%[CR][LF]
sAlarm=%alarm%[CR][LF]
sAlarm2=%alarm2%[CR][LF]
sAlarm3=%alarm3%[CR][LF]
sAlarm4=%alarm4%[CR][LF]
SDrec=%sdrec%[CR][LF]
sAUX=%aux%[CR][LF]
aOutUID=%ovuid%[CR][LF]
</HTML>
-----

```

Comments



	Response value	Comment
MAC		Mac address
VERSION		Software Version
NAME		Product Name
aBitrate	32/16	Audio bit rate setup 32 : 32kbps 16 : 16kbps [Note] This parameter is supported by NS202, NF284, NP244, NT304, NS202A, NS954, NW964, NT314, NF302 and NP304
aInInterval	20/40/80/160	Setup of audio input interval (from camera to PC) 20 : 20 msec 40 : 40 msec 80 : 80 msec 160 : 160 msec [Note] This parameter is supported by NS202, NF284, NP244, NT304, NS202A, NS954, NW964, NT314, NF302 and NP304
aInPort	1024~50000	Setup of the unicast port number (used to transmit audio from camera). *not use for MPEG-4 unicast port(AUTO) or multicast [Note] This parameter is supported by NS202, NF284, NT304, NS202A, NS954, NW964, NT314, NF302 and NP304
aOutInterval	160/320/640/1280	Setup of audio output interval (from PC to camera) 160 : 160ms 320 : 320ms 640 : 640ms 1280 : 1280ms *not use when audio mode is OFF or for audio input [Note] This parameter is supported by NS202, NT304, NS202A, NS954, NW964, NT314, NF302 and NP304

aOutPort	1024~50000	<p>Setup of audio output port (from PC to camera)</p> <p>*not use for audio mode is OFF or audio input</p> <p>*not use for MPEG-4 unicast port(AUTO) or multicast</p> <p>[Note] This parameter is supported by NS202, NT304, NS202A, NS954, NW964, NT314, NF302 and NP304</p>
aOutStatus	on/off	<p>Status of audio output</p> <p>on : busy</p> <p>off : not busy</p> <p>*not use when audio mode is OFF or for audio input</p> <p>[Note] This parameter is supported by NS202, NT304, NS202A, NT314, NF302 and NP304</p>
sDelivery	uni multi uni_manual	<p>MPEG-4 Setup</p> <p>uni : Unicast (AUTO)</p> <p>multi : Multicast</p> <p>uni_manual : (MANUAL)</p> <p>*not use for JPEG</p> <p>[Note] This parameter is supported by NS202, NF284, NP244, NT304, NS202A, NS954, NW964, NT314, NF302 and NP304</p>
ePort	1 to 65535	<p>Setup of alarm status port</p> <p>*not use when alarm status update mode is polling (30 sec)</p> <p>[Note] This parameter is supported by NS202, NT304, NW484, NS202A, NS954, NW964, NT314, NF302 and NP304</p>

aEnable	<p>off, in, out, inout, (for NS202, NT304, NT314, NS202A, NS954, NW964, NF302 and NP304)</p> <p>inout_full (for NS950, NW960, NF302 and NP304 )</p> <p>0, 1 (for NP1004, NP244 and NF284)</p>	<p>Audio setup</p> <p>off : OFF</p> <p>in : audio input</p> <p>out : audio output</p> <p>inout : interactive</p> <p>[Note] This values are supported by NS202, NT304, NS202A, NS954, WV-NW964, WJ-NT314, NF302 and NP304</p> <p>inout_full: Interactive (full duplex)</p> <p>[Note] This values are supported by NS954, NW964, NF302 and NP304</p> <p>0 : OFF</p> <p>1 : audio input</p> <p>[Note] This values are supported by NP1004, NP244 and NF284</p>
sAlarm	ON, OFF	<p>Alarm status (CH1)</p> <p>ON: Alarm occurred</p> <p>OFF: Alarm does not occurred</p> <p>[Note] This parameter is supported by NS954, NW964, NT304,NT314, NF302 and NP304</p>
sAlarm2	ON, OFF	<p>Alarm status (CH2)</p> <p>ON: Alarm occurred</p> <p>OFF: Alarm does not occurred</p> <p>[Note] This parameter is supported by NT304 and NT314.</p>
sAlarm3	ON, OFF	<p>Alarm status (CH3)</p> <p>ON: Alarm occurred</p> <p>OFF: Alarm does not occurred</p> <p>[Note] This parameter is supported by NT304 and NT314.</p>

sAlarm4	ON, OFF	<p>Alarm status (CH4)</p> <p>ON: Alarm occurred</p> <p>OFF: Alarm does not occurred</p> <p>[Note] This parameter is supported by NT304 and NT314.</p>
SDrec	on, off, disable	<p>SD recording status</p> <p>on: Now recording</p> <p>off: Now not recording</p> <p>disable: cannot use SD recording</p> <p>[Note] This parameter is supported by NS954, NW964, NF302 and NP304</p>
sAUX	open, close, off	<p>AUX status</p> <p>open: OPEN</p> <p>close: CLOSE</p> <p>off: cannot use AUX</p> <p>[Note] This parameter is supported by NS954 and NW964.</p>
aOutUID	numerical value	<p>UID that is transmitting "audio output"</p> <p>[Note] This parameter is supported by NS954, NW964, NF302 and NP304</p>

## 4.10. MPEG-4 RTP data format

### 4.10.1. MPEG-4 RTP header

Correspondence model: WV-NP1000, WV-NP244, WV-NS202, WV-NF284, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954, WV-NW964, WJ-NT314, WV-NF302, WV-NP304

Bit \ Byte	0.				8.		16.	24.
	2	1	1	4	1	7	8	8
0	V	P	X	CC	M	PT	Sequence number	
4	Timestamp							
8	SSRC (Synchronization Source Identifier)							

### Parameter values

Parameter name	length(Bit)	Values and comments
V (Version)	2	2 (fixed)
P (Padding)	1	0 (fixed)
X (Extension)	1	0 (fixed)
CC (CSRC Count)	4	0 (fixed)
M (Marker)	1	In case of the last RTP packet of VOP, this value is set to 1
PT (Payload Type)	7	96 (fixed)
Sequence number	16	The value in which one increment is done in each RTP packet is set. An initial value is generated at random.
Timestamp	32	3000 count improvements are done in each 33msec.
SSRC	32	0x0000 0000 (fixed)
CSRC	0	Unused

### 4.10.2. Header specification of Panasonic network camera

1. These cameras don't use VOS(Visual Object Sequence), VO(Visual Object) and GOV(Group of VOP) header.
2. IVOP always starts from VOL(Visual Object Layer) header and VOP header next.
3. PVOP starts from VOP header.

## 4.10.3. MPEG-4 RTP header (NF302, NP304)

Correspondence model: WV-NF302, WV-NP304

## MPEG-4 RTP header

Bit Byte	0.				8.		16.	24.
	2	1	1	4	1	7	8	8
0	V	P	X	CC	M	PT	Sequence number	
4	Timestamp							
8	SSRC (Synchronization Source Identifier)							
12	Defined by profile						Extension length	
16	Additional Information (1)							
	.....							
	Additional Information (n)							

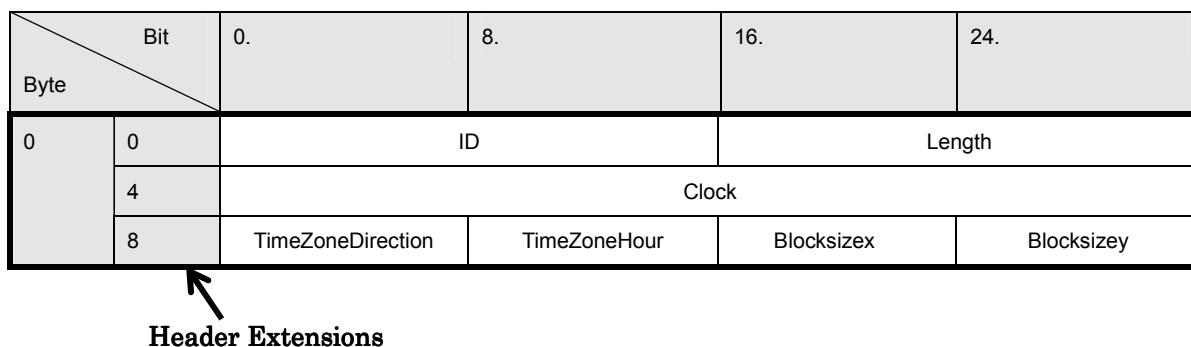

**Header Extensions**

Parameter name	length(Bit)	Values and comments
V (Version)	2	2 (fixed)
P (Padding)	1	0 (fixed)
X (Extension)	1	0: false , 1: true
CC (CSRC Count)	4	0 (fixed)
M (Marker)	1	In case of the last RTP packet of VOP, this value is set to 1
PT (Payload Type)	7	96 (fixed)
Sequence number	16	The value in which one increment is done in each RTP packet is set. An initial value is generated at random.
Timestamp	32	3000 count improvements are done in each 33msec.
SSRC	32	0x0000 0000 (fixed)
CSRC	0	Unused
Defined by profile(*)	16	0 (fixed)
Extension length(*)	16	Length of the Header Extension (Unit of 32bit word)
Additional Information(*)		Time information, Frame time information

(\*) It exists when Extension is true.

#### 4.10.4. Header extension (NF302, NP304)

##### (1) Time information (second)



Parameter name	length(Bit)	Values and comments
ID	16	0x0011 (fixed)
Length	16	Total Data length ( include ID and Length) (Unit of byte)
Clock	32	The career second from 1970
TimeZoneDirection	8	The direction of time zone 0x00 :negative vales 0x01 :positive value
TimeZoneHour	8	Time zone (hour) 0x00: 0hours, 0x01: 1hours, 0x02: 2hours, 0x03: 3hours 0x04: 4hours, 0x05: 5hours, 0x06: 6hours, 0x07: 7hours 0x08: 8hours, 0x09: 9hours, 0x0a: 10hours, 0x0b: 11hours 0x0c: 12hours, 0x0d: 13hours, 0x0e: 14hours, 0x0f: 15hours 0x10: 16hours, 0x11: 17hours, 0x12: 18hours, 0x13: 19hours 0x14: 20hours, 0x15: 21hours, 0x16: 22hours, 0x17: 23hours
TimeZoneMinute	8	Time zone (minute) 0x00: 0minutes, 0x01: 1minutes, 0x02: 2minutes, ....., 0x39: 57minutes, 0x3a: 58minutes, 0x3b: :59minutes
SummerTime	8	0x00 :Not daylight saving time 0x01 :Daylight saving time (Summer time)

(2) Frame time information (millisecond)

Bit		0.	8.	16.	24.
Byte					
0	0	ID		Length	
	4	FrameTime		Padding	

Header Extensions

Parameter name	length(Bit)	Values and comments
ID	16	0x0012 (fixed)
Length	16	Total Data length ( include ID and Length) (Unit of byte)
FrameTime	16	Millisecond (Unit of 10 milliseconds) 0x0000: 0 millisecond,      0x0001: 10 milliseconds, ..... 0x0062: 980 milliseconds, 0x0063: 990milliseconds
Padding	16	0x0000 (fixed)



## **4.11. Audio output**

### **4.11.1. Note**

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964,  
WJ-NT314

- The camera has to transmit video stream to carry out the "audio output" function.
- When the camera transmits the MPEG-4 data, the "audio output" is carries out with RTP data stream.
- When the camera transmits the JPEG data, the "audio output" is carried out with HTTP data stream.
- When "Multicast" is selected for "Transmission type" of "MPEG-4 setup" in the "MPEG-4 setup", it is impossible to carry out the "Audio output" function while transmitting MPEG-4 data.

#### 4.11.2. Audio output with JPEG transmission

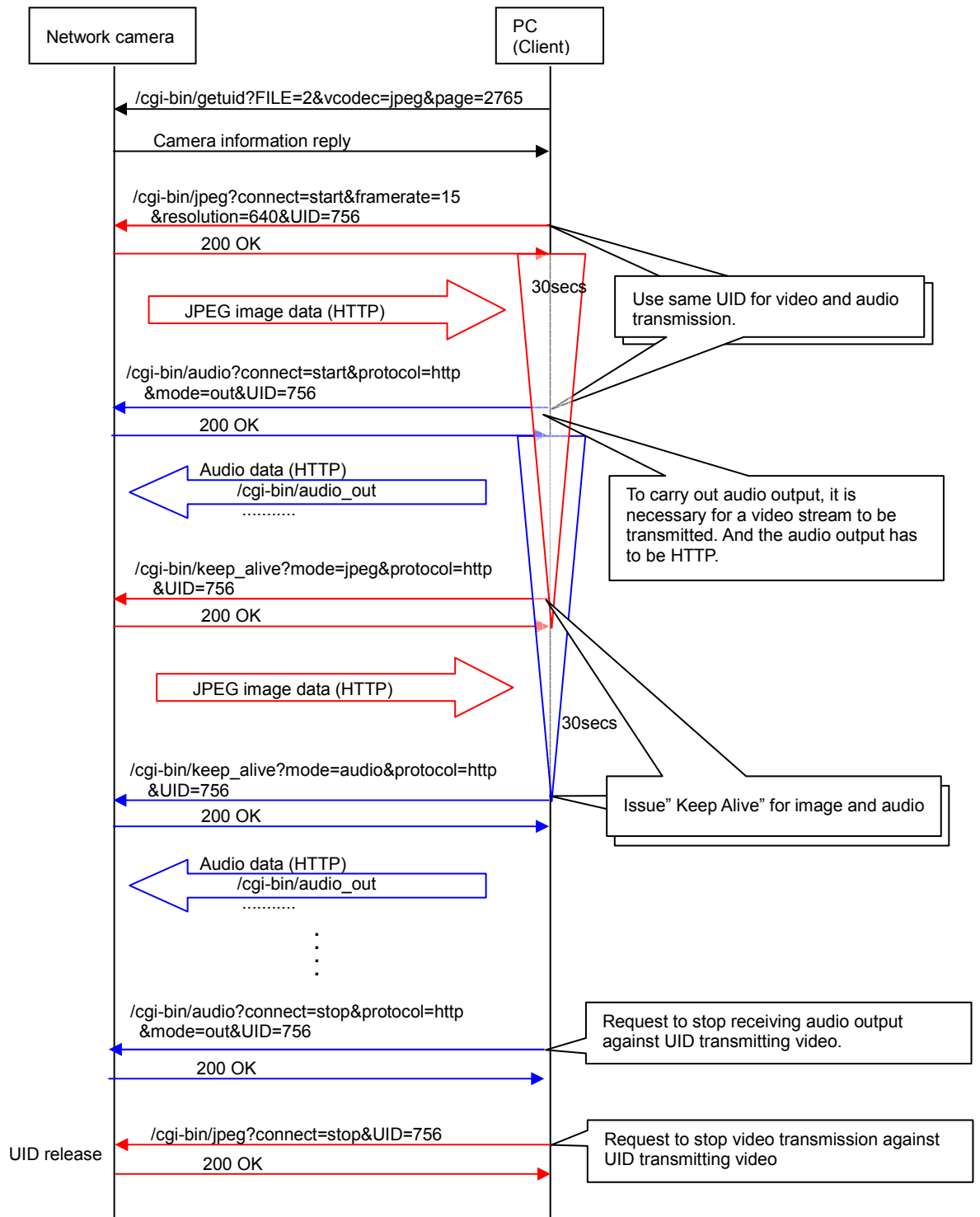


Figure 4.11.1: Audio output with JPEG transmission

### 4.11.3. Audio output with MPEG-4 unicast transmission

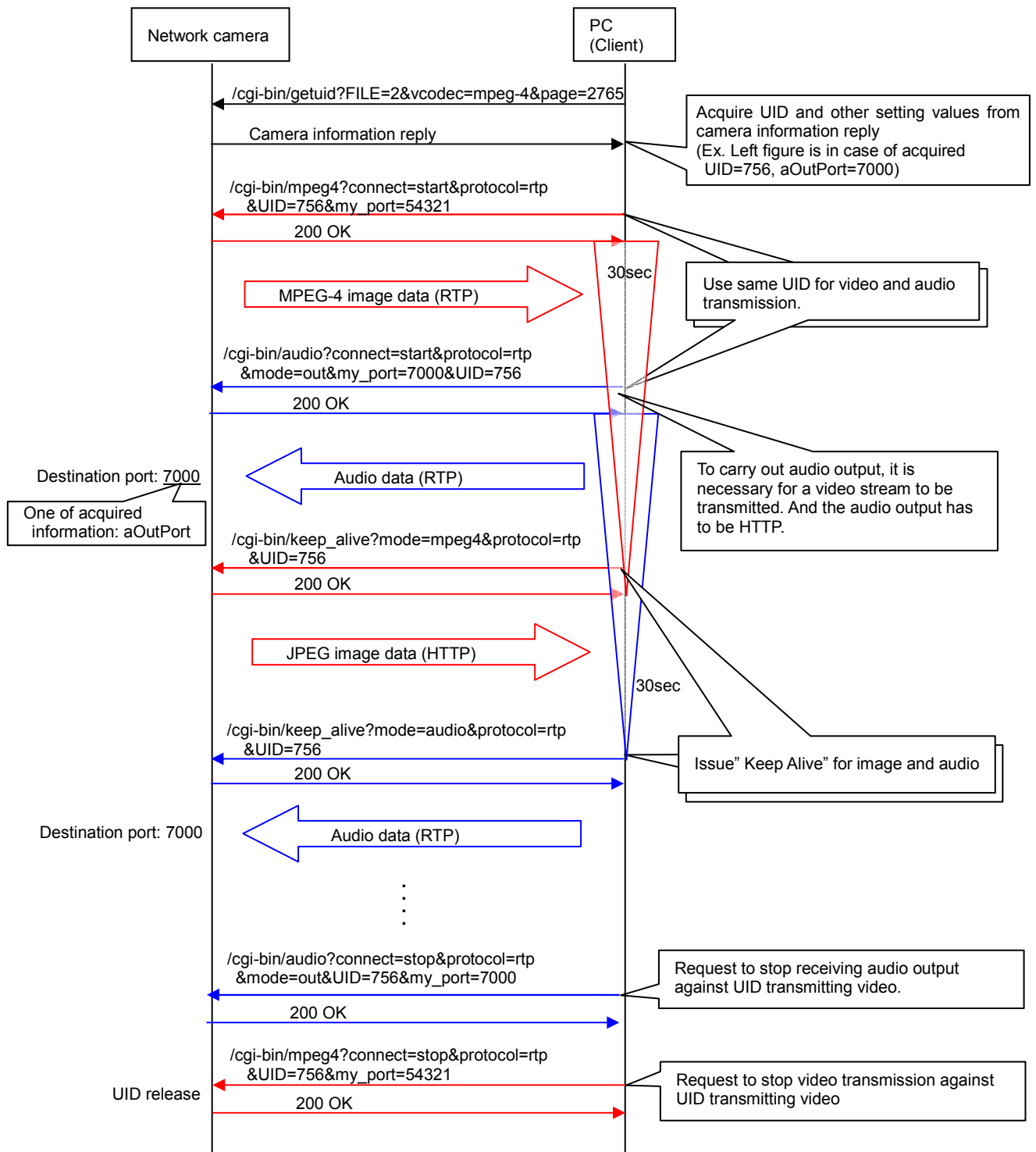


Figure 4.11.2: Audio output with MPEG-4 transmission

## 5. Basic sequence (absolute angle acquisition/setup, get preset position)

### 5.1. Absolute angle acquisition

Correspondence model: WV-NS202, WV-NS202A, WV-NS954, WV-NW964

The command sequence of absolute angle acquisition of the network camera is show below.

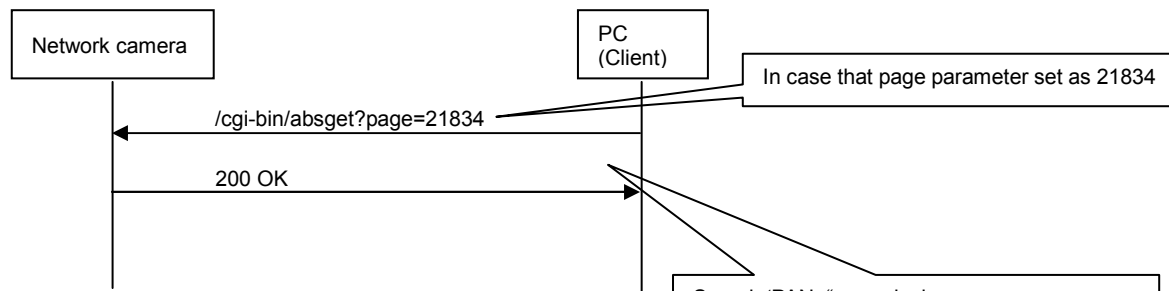


Figure 5.1.1: Absolute angle acquisition

Search 'PAN="numerical value"', 'TILT="numerical value"', 'ZOOM="numerical value"', 'FOCUS="numerical value"', 'STATUS="character"' from the response and acquire an absolute angle.

The response is shown below

```

<HTML>
PAN=%abpn%&nbsp;
TILT=%abtl%&nbsp;
ZOOM=%abzm%&nbsp;
FOCUS=%abfc%&nbsp;
STATUS=%abst%&nbsp;
</HTML>
    
```

%abpn%: (Absolute angle acquisition) value of PAN

%abtl%: (Absolute angle acquisition) value of TILT

%abzm%: (Absolute angle acquisition) value of ZOOM

%abfc%: (Absolute angle acquisition) value of FOCUS

%abst%: Display success/failure status of absolute angle acquisition

-In case of absolute angle acquisition success: STATUS=STOP

-In case of absolute angle acquisition failure: STATUS=MOVE

Acquire this character string as absolute angle since above each character string is substituted.

## 5.2. Absolute angle setup

The command sequence of absolute angle setup of the network camera

Correspondence model: WV-NS202, WV-NS202A, WV-NS954, WV-NW964

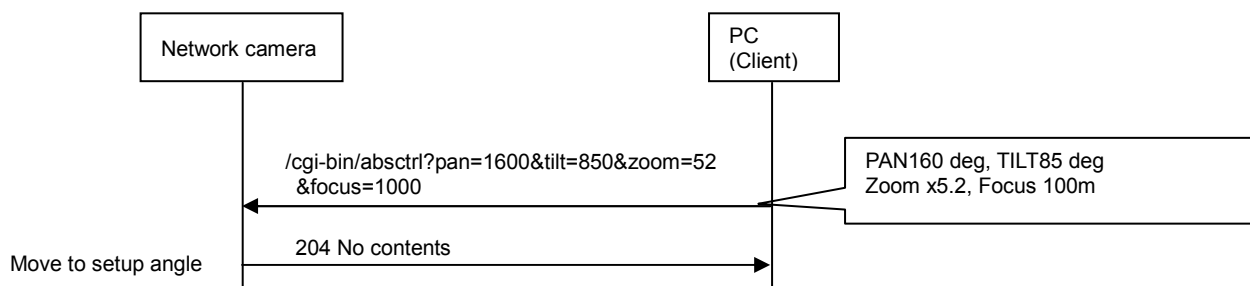


Figure 5.2.1: Absolute angle setup

## 5.3. Restriction matters about absolute angle acquisition/setup

### □ PAN

-Setup range:

NS202, NS202A -> between 0 and 350.0 deg

NS954, NW964 -> between 0 and 359.9 deg

-Setup and acquired angle after motion may be different since the resolution of PAN/TILT mechanism is 0.3 deg unit.

Ex.) Setup is 0.2 deg and acquired angle is 0.0 deg after motion.

### □ TILT

-Setup range:

NS202, NS202A -> between -30.0 and 90.0 deg.

NS954, NW964 -> between -5.0 and 90.0 deg

-Setup and acquired angle after motion may be different since the resolution of PAN/TILT mechanism is 0.3 deg unit.

### □ ZOOM

-Setup range:

NS202, NS202A -> between x1.0 and x22.0

NS954, NW964 -> between x1.0 and x30.0

-Setup and acquired magnification after motion may be different since the resolution of is low especially TELE side.

□ FOCUS

- Setup rang is between 1.4 and 999.9m
- Setup and acquired distance may be different since the focus range depends on the zoom coordinate, especially WIDE side has only a few steps.

6. Basic sequence (Speed setup)

6.1. Pan/Tilt

Correspondence model: WV-NS202, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954,  
WV-NW964, WJ-NT314

Speed setup command sequence of the network camera is shown below. Speed setup command (pan/tilt) automatically stops after approx. 2 seconds. Therefore, it needs to transmit command continuously for continuous operation.

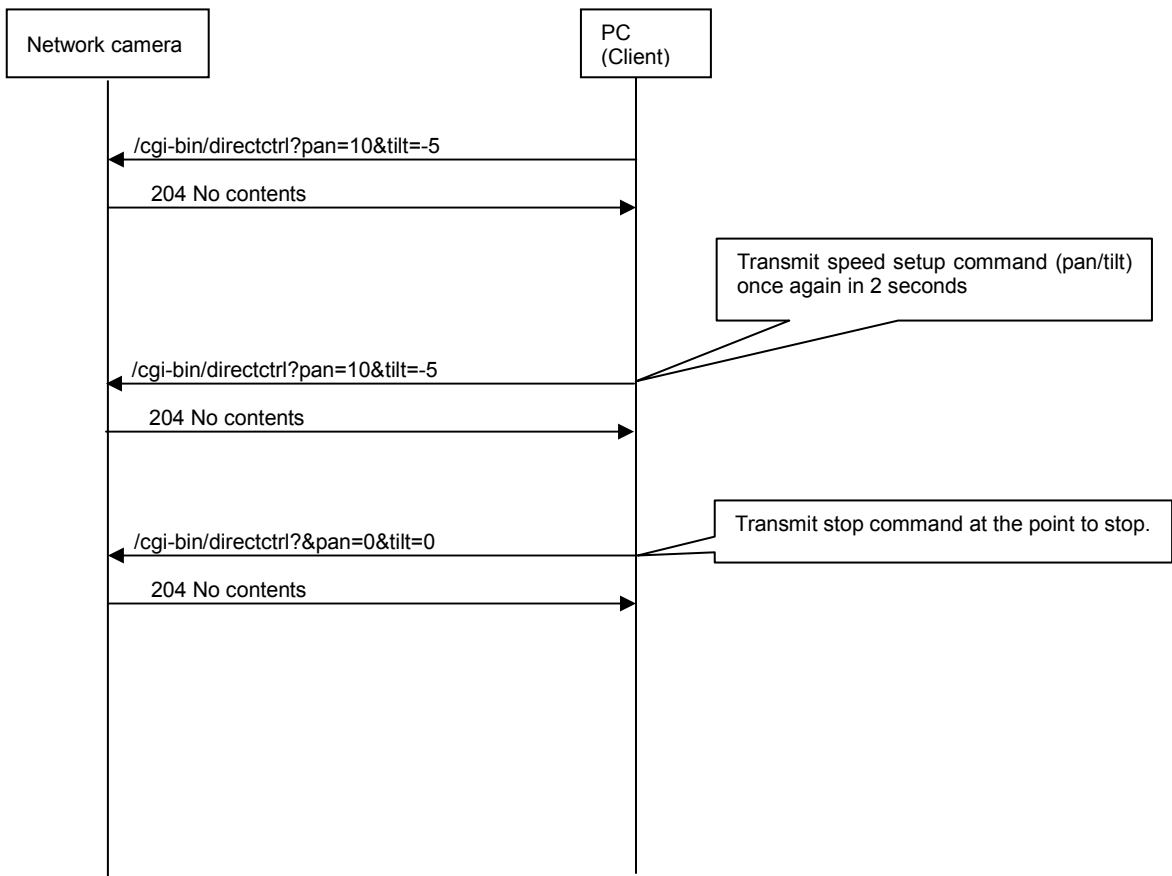


Figure 6.1.1: Pan/Tilt motion (speed setup) (Ex: WV-NS202)

[Note]

In case of WJ-NT304/NT314, the channel parameter "ch" is indispensable

## 6.2. Zoom

Correspondence model: WV-NS202, WJ-NT304, WV-NW484, WV-NS202A, WV-NS954,  
WV-NW964, WJ-NT314

Speed setup command (zoom) stops automatically after approx. 2 seconds. Therefore, it needs to transmit command continuously for continuous operation.

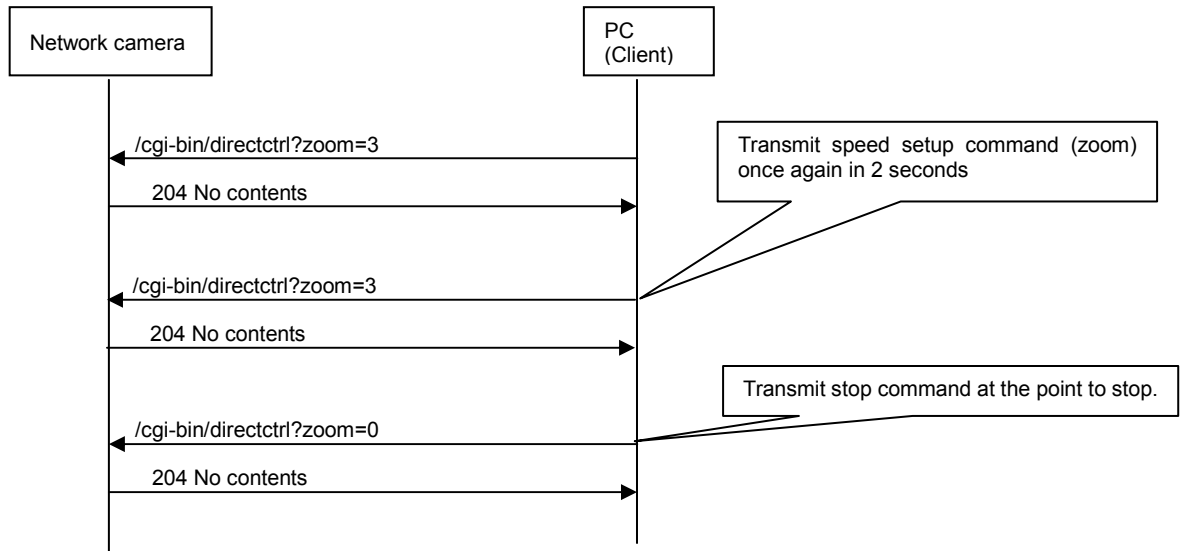


Figure 6.2.1: Zoom motion (Speed setup) (Ex: WV-NS202)

[Note] In case of WJ-NT304/NT314, the channel parameter "ch" is indispensable

## 6.3. Focus

Correspondence model: WV-NS202, WJ-NT304, WV-NS202A, WV-NS954, WV-NW964,  
WJ-NT314

Speed setup command (focus) stops automatically after approx. 2 seconds. Therefore, it needs to transmit command continuously for continuous operation.

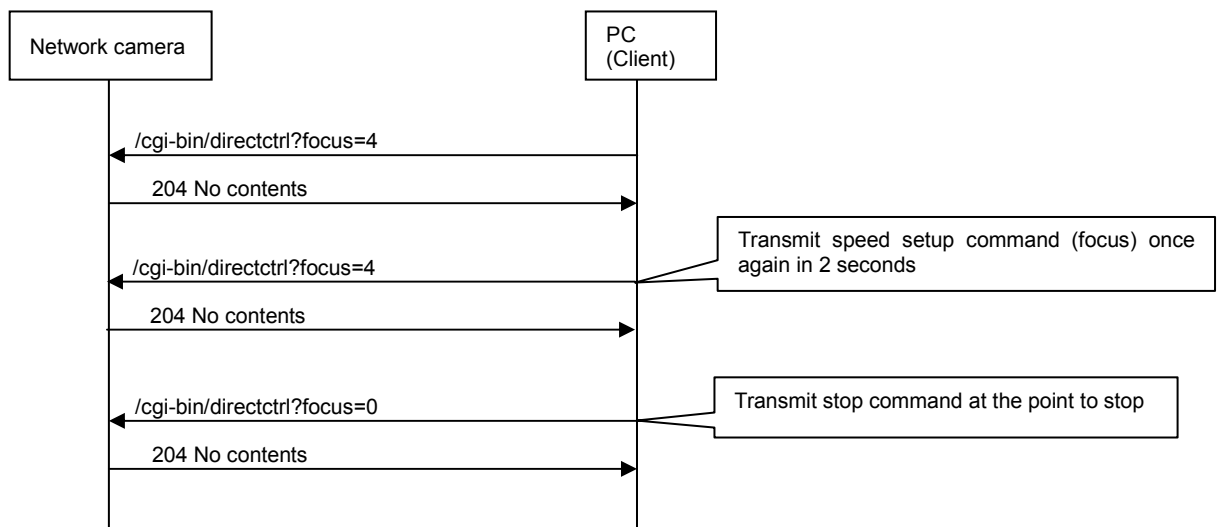


Figure 6.3.1: Focus motion (Speed setup) (Ex: WV-NS202)



[Note] In case of WJ-NT304/NT314, the channel parameter "ch" is indispensable

#### 6.4. Pan/Tilt(256 step)

Correspondence model: WV-NS202A, WV-NS954, WV-NW964

Speed setup(256 step) command sequence of the network camera is shown below. Speed setup(256 step) command (pan/tilt) automatically stops after approx. 2 seconds. Therefore, it needs to transmit command continuously for continuous operation.

To control the camera smoothly, adjust the interval of the commands to 80msec.

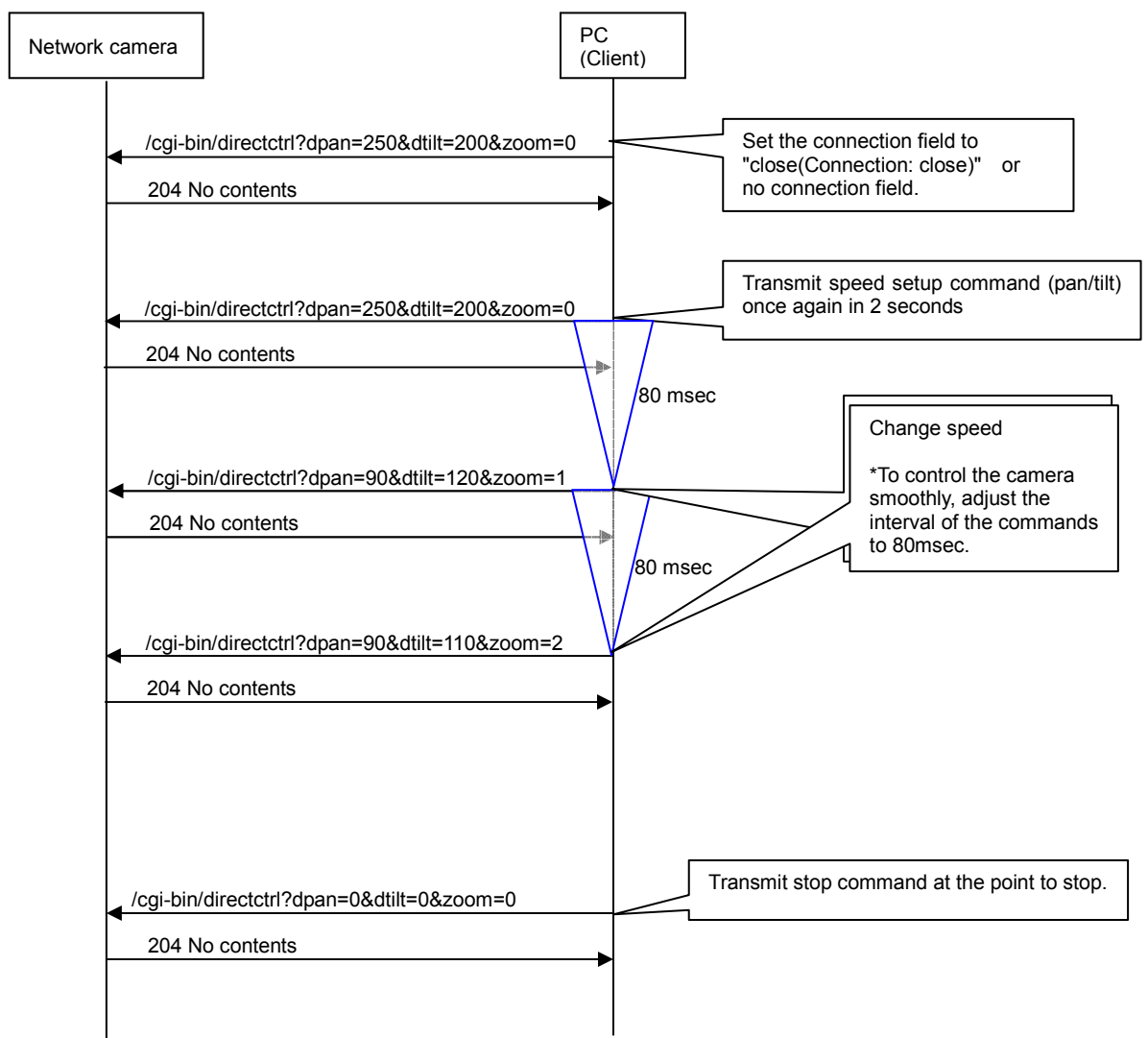


Figure 6.4.1: Pan/Tilt motion (speed setup) (Ex: WV-NS202A)

To control camera more smoothly, set the connection field to "close(Connection: close)" or no connection field.

## 7. Alarm function

### 7.1. Alarm notification

Correspondence model: WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A, WV-NS954, WV-NW964

Setup of alarm notification method and command sequence to server at the time of alarm occurrence is shown below.

#### (1) Setup of alarm notification

Command sequence about setup "Alarm notification setup ON" and following URL (/cgi-bin/set?Func=ImageTransfer&MMode=128&MHttpUrl=http://192.168.0.200/cgi-bin/alarm%3fTask%3d1%26alarmno%3d%25ano&MID=user&MPassword=pass) to notify to the network camera is shown below.

Following information can be notified when the alarm is generated.

- 1) Alarm no.
- 2) Frame rate setup of alarm(Save to SD memory card or send to FTP server)
- 3) Alarm occurrence time

In this case, setup must be followed following rule.

-To acquire "alarm no." as the argument of MHttpUrl, set "%G(%25G)" or "%ano(%25ano)".

Alarm no. is a numerical value from 1 to 65535(decimal number).

-To acquire "frame rate setup of post alarm" as the argument of MHttpUrl, set "%pofj(%25pofj)".

-To acquire "Alarm occurrence time" in argument of MHttpUrl, set "%atime(%25atime)".

Alarm occurrence time can be acquired by following format.

Set the following for MHttpUrl of transmitting CGI command

<http://192.168.0.200/cgi-bin/alarm%3fTask%3d1%26alarmno%3d%25ano>

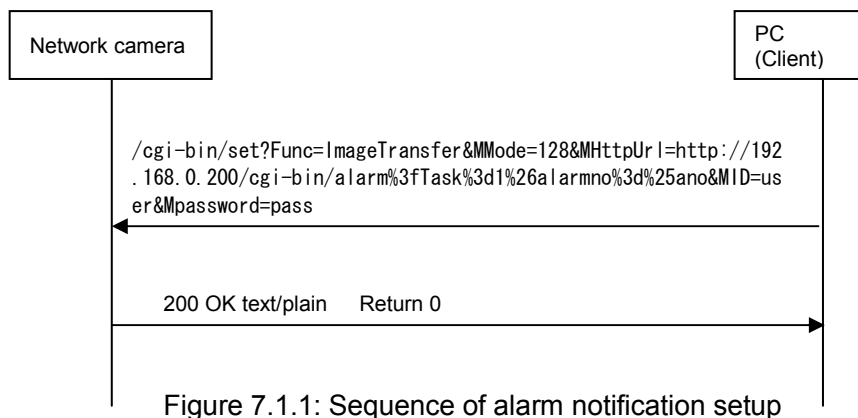


Figure 7.1.1: Sequence of alarm notification setup

(2) Alarm notification

Alarm notification to URL specified in (1) is shown below.

Notify the following at the time of alarm occurrence (in case of alarm no. 123).

<http://192.168.0.200/cgi-bin/alarm?Task=1&alarmno=123>

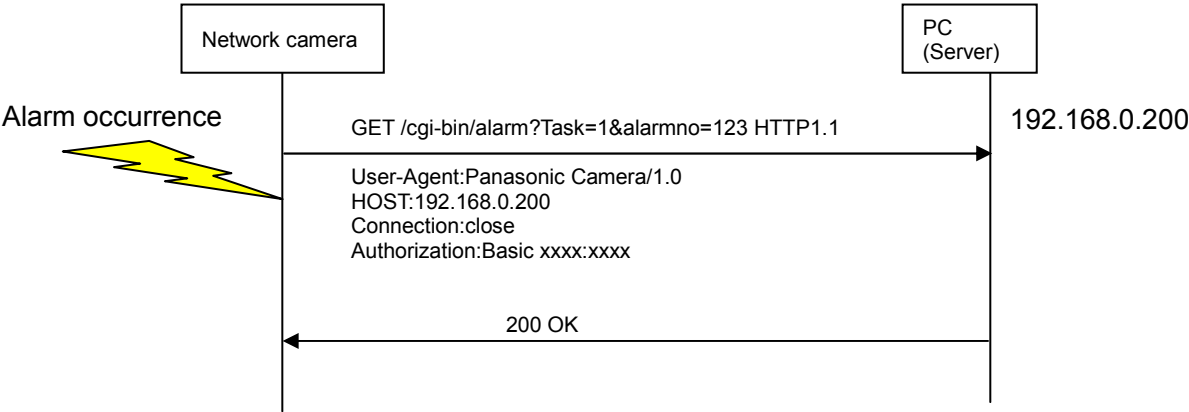


Figure 7.1.2: Alarm notification

7.2. Alarm image acquisition

Correspondence model: WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A, WV-NS954, WV-NW964

It is possible to acquire images from SD memory card at the time of alarm occurrences. Alarm images from camera can be downloaded by using alarm image no. which is notified in chapter 6.1. The network camera transmits requested alarm images.

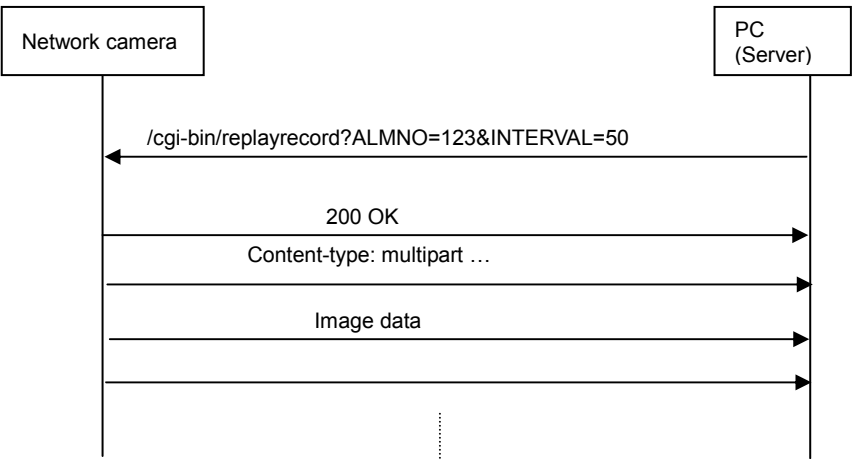


Figure 7.2.1: Alarm image acquisition

### 7.3. Alarm image notification format

Correspondence model: WV-NP244, WV-NS202, WV-NF284, WV-NW484, WV-NS202A, WV-NS954, WV-NW964

The image format when transmitting alarm image is shown below (Same format as video image stream control).

\*It is described 0x0d as [CR] and 0x0a as [LF].

HTTP/1.1 200 OK[CR][LF]
Connection: close[CR][LF]
Content-type: multipart/x-mixed-replace;boundary=--myboundary[CR][LF]
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image 1([FFD8]~[FFD9])
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image 2([FFD8]~[FFD9])
[CR][LF]--myboundary[CR][LF]
...
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image N([FFD8]~[FFD9])
[CR][LF]--myboundary[CR][LF]
Content-type: image/jpeg[CR][LF]
Content-length: *****[CR][LF][CR][LF]
JPEG image N+1([FFD8]~[FFD9])
...

Figure 7.3.1: Image format of JPEG stream transmission

In "Content-length:" data length of JPEG image to be transmitted is set. (From FFD8 to FFD9)

#### 7.4. Function to store alarm images in SD memory card

Correspondence model: WV-NP1000, WV-NP244, WV-NF284, WV-NS202, WV-NW484,  
WV-NS202A, WV-NS954, WV-NW964

##### (1) Setup to store alarm images in SD memory card

It is possible to store images at the time of alarm occurrence in SD memory card by following setup for network camera. In this case, "Periodic FTP" setup should be OFF

"Basic setup" → "SD memory card" → "SD memory card": **USE**

"Server setup" → "FTP" → "FTP server address": **localhost**

"Server setup" → "FTP" → "User name" and "Password": **Enter appropriate user name and password**

"alarm setup" → "alarm" → "alarm image transmission setup": **ON**

Alarm images stored in SD memory card are deleted from oldest file automatically.

##### (2) Check images stored in SD memory card

It is possible to access to camera by using Windows command prompt or FTP client software.

To acquire images, need to change drive as B drive.

- ☐ When login to camera, D drive is displayed as default and images in SD memory card are stored in the "alarm" directory under B drive. Therefore it is needed to move directory to "ALARM" directory to acquire images.

##### <Directory structure of B drive>

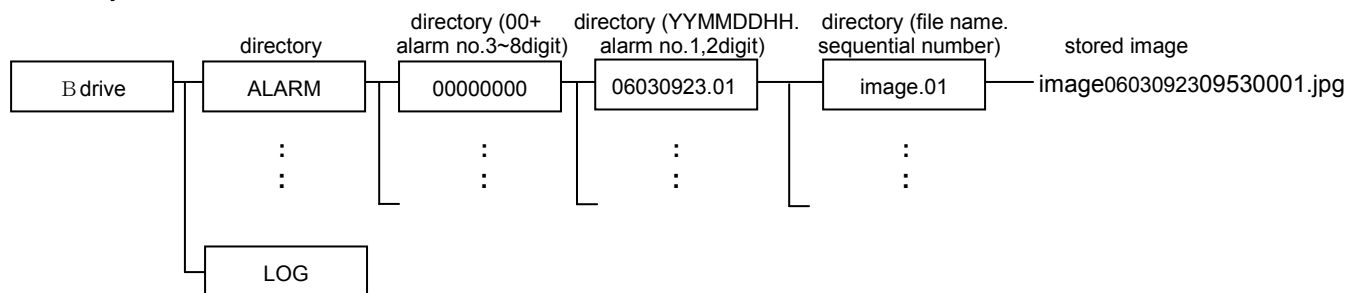


Figure 4.4.1 Directory structure of B drive

Ex) In case of acquiring “image0603092309530001.jpg” by using Windows command prompt

1. Enter “C :¥> ftp 192.168.0.10” and press [Enter]  
→Connect to 192.168.0.10 by FTP
2. Enter user name and password to login.
3. Enter “ftp> cd B:¥ [Enter]  
→Change directory to “B:¥”
4. Enter “ftp> cd ALARM¥00000000¥06030923.01¥image.01” and press [Enter]  
→Change directory to “B:¥ALARM¥00000000¥06030923.01¥image.01”
5. Enter “ftp> bin” and press [Enter] (Specifies binary)
6. Enter “ftp> get image0603092309530001.jpg” and press [Enter]  
→Acquires images
7. Enter “ftp> bye” and press [Enter]  
→Logout from FTP
8. Images in SD memory card can be deleted by using Windows command prompt etc.

## 8. Access user limit and frame rate information

### 8.1. Access user limit information (JPEG/MPEG4)

Correspondence model: WV-NS202, WV-NP244, WV-NF284, WV-NW484, WV-NS202A,  
WV-NS954, WV-NW964

[Setting conditions] Total bit rate: Unlimited (Network Setup)

Table 8.1: Access user limit

Max bit rate(per 1 client) setup	Max # of MPEG-4 user	Max # of MPEG-4 and JPEG user
4096 kbps	2 user	8 user
3072 kbps	2 user	8 user
2048 kbps	4 user	8 user
1536 kbps	6 user	8 user
1024 kbps	8 user	8 user
512 kbps	8 user	8 user
256 kbps	8 user	8 user
128 kbps	8 user	8 user
64 kbps	8 user	8 user

### 8.2. Frame rate table in case of multi access

Correspondence model: WV-NS202, WV-NP244, WV-NF284, WV-NW484, WV-NS202A,  
WV-NS954, WV-NW964

#### 8.2.1. JPEG frame rate in case of multiple access

[Setting conditions]

Refresh interval (JPEG): 30fps, Image capture size: VGA,

Image quality: 6 (about 42KB), MPEG-4 transmission: OFF,

Audio mode: OFF, VMD alarm: OFF

Table 8.2.1: JPEG frame rate

# of user access	JPEG frame rate
1 user	29.7 fps
2 user	16 fps
3 user	10 fps
4 user	8 fps
5 user	6 fps
6 user	5 fps
7 user	4 fps
8 user	4 fps

### 8.2.2. MPEG-4 frame rate in case of multiple access

The frame rate depends on not the number of users but the bit rate setting and the subject.

Example1: simple subject

[Setting conditions]

MPEG-4 transmission: ON, Image quality: Normal, Image capture size: VGA,

Refresh interval (MPEG-4): 3sec, Audio mode: OFF, VMD alarm: OFF

[Frame rate chart]

Table 8.2.2: MPEG-4 frame rate chart- 1

# of user access	MPEG-4 bit rate settings				
	4096kbps	2048kbps	1024kbps	512kbps	64kbps
1 user	30 fps	30 fps	29 fps	17 fps	0.6 fps
2 user	30 fps	30 fps	29 fps	17 fps	0.6 fps
3 user	N/A	30 fps	29 fps	17 fps	0.6 fps
4 user	N/A	30 fps	29 fps	17 fps	0.6 fps
5 user	N/A	N/A	29 fps	17 fps	0.6 fps
6 user	N/A	N/A	29 fps	17 fps	0.6 fps
7 user	N/A	N/A	29 fps	17 fps	0.6 fps
8 user	N/A	N/A	29 fps	17 fps	0.6 fps

Example2: complicated subject

[Setting conditions]

MPEG-4 transmission: ON, Image quality: Normal, Image capture size: VGA,

Refresh interval (MPEG-4): 3sec, Audio mode: OFF, VMD alarm: OFF

[Frame rate chart]

Table 8.2.3: MPEG-4 frame rate chart- 2

# of user access	MPEG-4 bit rate settings				
	4096kbps	2048kbps	1024kbps	512kbps	64kbps
1 user	30 fps	30 fps	15 fps	6 fps	0.1 fps
2 user	30 fps	30 fps	15 fps	6 fps	0.1 fps
3 user	N/A	30 fps	15 fps	6 fps	0.1 fps
4 user	N/A	30 fps	15 fps	6 fps	0.1 fps
5 user	N/A	N/A	15 fps	6 fps	0.1 fps
6 user	N/A	N/A	15 fps	6 fps	0.1 fps
7 user	N/A	N/A	15 fps	6 fps	0.1 fps
8 user	N/A	N/A	15 fps	6 fps	0.1 fps



### 8.3. About User ID (UID)

#### 8.3.1. About User ID (UID)

UID is used for the user management of JPEG video transmission and MPEG-4 video transmission. UID limitation is up to 8.(In case of MPEG-4 transmission, the UID limitation decreases by the MPEG-4 bit rate settings. Please refer to Table 8.1 for details.)

Ex) In case of JPEG video transmission

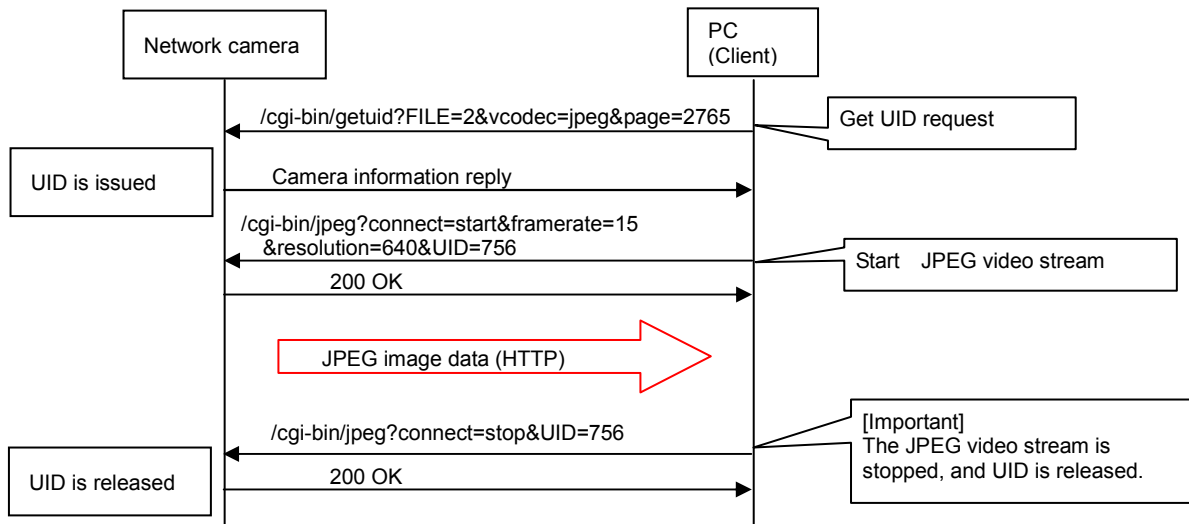


Figure 8.3.1: About User ID (UID) for JPEG video stream

Ex) In case of MPEG-4(unicast) video transmission

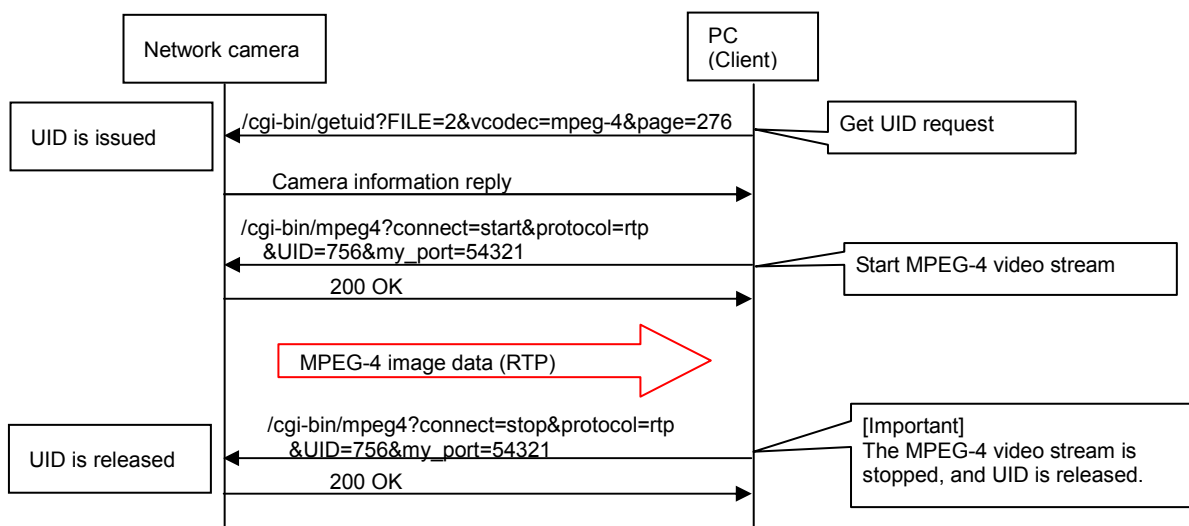


Figure 8.3.2: About User ID (UID) for MPEG-4 video stream

[Important]

The video transmission cannot start when the UID is exceeded. Please unite the sequence that release the UID without fail when you stop the image delivery.

8.3.2. The response of UID acquisition ( succeed or fail )

In UID acquisition (/cgi-bin/getuid) whether the acquisition of UID succeeded or failed (exceed the limitation) can be distinguished by the response from the camera.

(1) Response when UID can be normally acquired

When the UID acquisition is normally done, the response from the camera becomes the following (UID information).

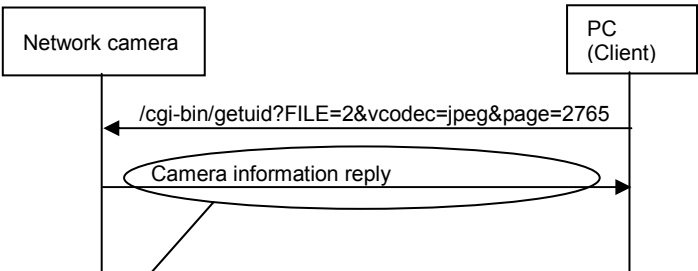


Figure 8.3.3: Getuid ( normally acquired )

Content of camera information response

( Ex. In case that UID=63090, jpeg transmission, model is NS202)

UID=63090	← *UID information
ImageFormat=jpeg	
sDelivery=uni	
iMultiAdd1=239	
iMultiAdd2=192	
iMultiAdd3=0	
iMultiAdd4=20	
iMultiPort=37004	
iHttpPort=80	
aBitrate=32	
aInterval=40	
aEnable=1	

(2) Response when UID is exceeded (fail)

The camera returns not UID but HTML.

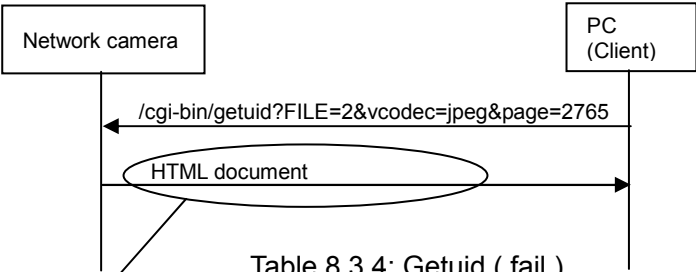


Table 8.3.4: Getuid ( fail )

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html lang="en" oncontextmenu="return false">
<head>
<META HTTP-EQUIV="Content-Type" content="text/html; charset=UTF-8">
<META HTTP-EQUIV="Content-Style-Type" content="text/css">
.....
.....
```

9. The command response of “get setup data list”

(1)Sequence

The Sequence if the getting setup data list cgi is shown below.

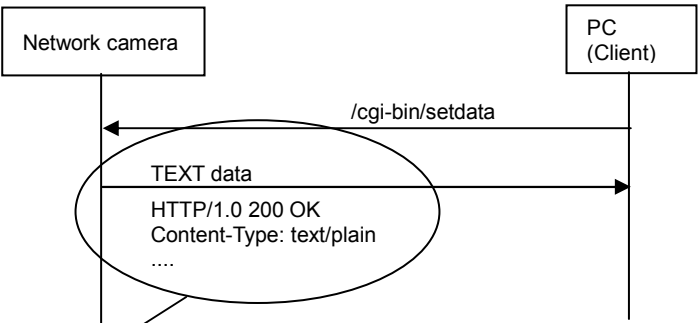


Figure 9.0.1: Get setup data list

[Example of the response]

```
CAMTITLE,"Camera"
TIMEDATE,"2007,1,1,3,2,39"
TIMEFORMAT,"4"
TIMEDISP,"24"
STIME,"0"
LED,"1"
TIMEADJUST,"1"
OSDPOSI,"ul"
.....
.....
```

## (2) Response

Table 9.0.1: Command response

Setup data	value	Comment	Note
CAMTITLE	(letter)	Camera title	
TIMEDATE	(letter)	Time and date setup	
TIMEFORMAT	1, 2, 3, 4, 5	Date/time display format 1:DD/MM/YYYY HH:MM:SS 2:MM/DD/YYYY HH:MM:SS 3:DD/Mmm/YYYY HH:MM:SS 4:YYYY/MM/DD HH:MM:SS 5:Mmm/DD/YYYY HH:MM:SS	
TIMEDISP	12, 24	Time display 12: 12-hours 24: 24-hours	
STIME	1, 0	Daylight saving (Summertime) 1: Daylight saving (Summertime) 0: Not daylight saving (Summertime)	
LED	1, 0	Link/Access LED 1: LED ON 0: LED OFF	
OSDPOSI	ul, ur, bl, br	OSD Position ul: Upper left ur: Upper right bl: Lower left br: Lower right	
AEVENT	1, 0	Alarm status update mode 0: Polling (30 sec) 1: Real time	
AEVENTPORT	(number)	Alarm status port 1 to 65535	
TIMEADJUST	1, 0	Time adjustment 1: Synchronization with NTP server 0: Manual setup	
NTPADD	(IP address) or (letter)	NTP server address or host name	
NTPPORT	(number)	NTP port number	

NTPINTERVAL	(number)	Synchronization interval to NTP server 1 to 24(hours)	
TIMEZONE	(number)	Time zone 1 to 74	
SDCARD	1, 0	To determine whether or not to use the SD memory card. 1: Use the SD memory card 0: Not use the SD memory card	
SDREMNOTICE	50, 20, 10, 5, 2	Notification of the remaining space of the SD memory card 50: 50% 20: 20% 10: 10% 5: 5% 2: 2%	
SDREM	(number)	Available size of the SD memory card (KB)	
SDTOTAL	(number)	Total size of the SD memory card (KB)	
SDREC	ftp, alm, local	Save trigger ftp: FTP error alm: Alarm input local: Saves images manually	
SDRECNAME	(letter)	File name	
SDRECINT	0.1, 0.2, 0.33, 0.5, 1	Frame rate 0.1: 0.1 fps 0.2: 0.2 fps 0.33: 0.33 fps 0.5: 0.5 fps 1: 1 fps	
SDRECNUM	10, 20, 30, 50, 100, 200, 300, 500, 1000, 2000, 3000, 5000	Number of images 10: 10 pics 20: 20 pics 30: 30 pics 50: 50 pics 100: 100 pics 200: 200 pics 300: 300 pics 500: 500 pics	

		1000: 1000 pics 2000: 2000 pics 3000: 3000 pics 5000: 5000 pics	
LIVEINT	0.1, 0.2, 0.33, 0.5, 1, 2, 3, 5, 6, 10, 15, 30	Refresh interval (JPEG) 0.1: 0.1 fps 0.2: 0.2 fps 0.33: 0.33 fps 0.5: 0.5 fps 1: 1 fps 2: 2 fps 3: 3 fps 5: 5 fps 6: 6 fps 10: 10 fps 15: 15 fps 30: 30 fps	
LIVESIZE	640, 320	Image capture size(JPEG) 640: VGA 320: QVGA	
LIVEQUAL	0, 1, 2, 3, 4, 5, 6, 7, 8, 9	Image quality(JPEG) 0 :means superfine 1 :means fine, 2, 3, 4, 5 :means normal, 6, 7, 8, 9 :means low	
MPEG	1, 0	MPEG-4 transmission 1: ON 0: OFF	
MPEGBWC	64, 128, 256, 512, 1024, 1536, 2048, 3072, 4096	MPEG-4 bandwidth 64: 64kbps, 128:128kbps, 256:256kbps, 512: 512kbps, 1024: 1024kbps, 1536: 1536kbps,	

		2048: 2048kbps, 3072: 3072kbps 4096: 4096kbps	
MPEGSIZE	640, 320	MPEG-4 resolution 640: 640x480 320: 320x240	
MPEGQUAL	fine, normal, low	MPEG-4 quality fine: Fine normal: Normal low: Low	
MPEGRINT	1, 2, 3, 4, 5	Ivop insertion interval 1: 1 sec 2: 2 sec 3: 3 sec 4: 4 sec 5: 5 sec	
MPEGMTD	uni, multi	Transmission type uni: Unicast multi: Multicast	
MPEGMLADD1	(number)	Multicast address 1st octet	
MPEGMLADD2	(number)	Multicast address 2nd octet	
MPEGMLADD3	(number)	Multicast address 3rd octet	
MPEGMLADD4	(number)	Multicast address 4th octet	
MPEGMLPORT	(number)	Multicast port 1024 to 50000	
MPEGMLTTL	(number)	Multicast TTL 1 to 254	
MPEGUNIPORT	(number)	MPEG-4 unicast port number (image) 1024 to 5000(Only even numbers are available)	
MPEGUNIPORT2	(number)	Unicast port number(audio) *used to transmit audio from the camera  1024 to 50000(Only even numbers are available)	
BRIGHTNESS	-8, -7, -6, -5, -4, -3, -2, -1,	Brightness -8 to 8	



	0, 1, 2, 3, 4, 5, 6, 7, 8		
WHITEBALANCE	auto, hold	White balance auto :AUTO hold :HOLD	
SHARPNESS	-4, -3, -2, -1, 0, 1, 2, 3, 4	Aperture level -4 to 4	
FLICKERLESS	1, 0	Flicker-less mode 1: ON 0: OFF	
SENSUP	off, 2, 4, 8, 16	Sensitivity up off :OFF 2: Adjusts the sensitivity up to x2 automatically. 4: Adjusts the sensitivity up to x4 automatically. 8: Adjusts the sensitivity up to x8 automatically. 16: Adjusts the sensitivity up to x16 automatically.	
BLC	1, 0	Backlight compensation (BLC) 1: ON 0: OFF	
ALCELC	alc, elc	Light control (ALC/ELC) alc: ALC elc: ELC	
OSDNAME	(letter)	Camera title on screen	
OSDNAMEDISP	1, 0	Whether or not to display the camera title 1: ON 0: OFF	
STABILIZER	1, 0	Stabilizer 1: ON 0: OFF	
UPSIDEDOWN	1, 0	Upside-down 1: ON 0: OFF	

CHROMA	(number)	Chroma gain level	
APERTURE	(number)	Aperture level	
PEDESTAL	(number)	Pedestal level	
DNR	low, high	Digital Noise Reduction low: Low DNR, reduces afterimage high: High DNR, afterimage remains	
SHUTTER	off, auto, flickerless	The speed of the electronic shutter. off: OFF(Fixed at 1/60 seconds) auto: AUTO flickerless: 1/100 (Fixed at 1/100 seconds)	
AGC	off, low, mid, high	AGC off: OFF low: ON (LOW) mid: ON (MID) high: ON (HIGH)	
SENSITIVITY	off, 2, 4, 6, 10, 16, 32	Sensitivity up off: OFF 2: x2 AUTO 4: x4 AUTO 6: x6 AUTO 10: x10 AUTO 16: x16 AUTO 32: x32 AUTO	
WHITEBAL	atw1, atw2, awc	White balance atw1: ATW1 atw2: ATW2 awc: AWC	
RVOL	(number)	Red Gain 0 to 255	
BVOL	(number)	Blue Gain 0 to 255	
SDTHREE	1, 0	Super Dynamic 3 1: ON 0: OFF	
BW	off, on, auto1, auto2	Black & white mode off: OFF on: ON	

		auto1: AUTO1 auto2: AUTO 2	
BWLEVEL	low, high	LEVEL(Black & white mode) low: LOW high: HIGH	
BWTIME	10, 30, 60, 300	Wait time(Wait time) 10: 10 sec 30: 30 sec 60: 1 min 300: 5 min	
PRVMODE	off, mask, mosaic	Display mode of privacy zone off: OFF mask: Gray mosaic: Mosaic	
PRVENT	(letter)	Registration information of privacy zone 1: Registered zone 0: Not registered zone  Ex) 11000000: Zone1,2 are registered zone and Zone 3,4,5,6,7,8 are not registered zone.	
CLBW	auto, preset, fix	Adjusting method auto: AUTO preset: PRESET fix: FIX	
LENSTEMPR	off, on	Lens temperature compensation off: OFF on: ON	
AUDIO	1, 0	Audio setup 1: Audio ON 0: Audio OFF	
AUDIOSENS	low, middle, high	Audio sensitivity low: Low middle: Middle high: High	
AUDIOBITRATE	32, 16	Audio bit rate	

		32: 32kbps 16: 16kbps	
AUDIOINT	20, 40, 80, 160	Audio transmission interval 20: 20msec 40: 40msec 80: 80msec 160: 160msec	
AUDIOAUTH	level1, level2, all	Authentication for audio transmission level1: level1 only level2: level2 or upper all: All users	
AUDIOOUTINT	160, 320, 640, 1280	Audio output interval (PC to Camera) 160 :160 msec 320 :320 msec 640 :640 msec 1280 :1 280 msec	
AUDIOOUTSENS	low, middle, high	Audio output volume (PC to Camera) low :Low middle :Middle high :High	
AUDIOOUTPORT	(number)	Audio output port (PC to Camera) 1024 to 50000	
AUDIOSTATUS	on, off	Audio output status (PC to Camera) on :on off :off	
CAM1	(IP address) or (letter)	Multi-screen IP address for Camera1	
CAM2	(IP address) or (letter)	Multi-screen IP address for Camera2	
CAM3	(IP address) or (letter)	Multi-screen IP address for Camera3	
CAM4	(IP address) or (letter)	Multi-screen IP address for Camera4	
CAM5	(IP address) or (letter)	Multi-screen IP address for Camera5	
CAM6	(IP address) or (letter)	Multi-screen IP address for Camera6	

CAM7	(IP address) or (letter)	Multi-screen IP address for Camera7	
CAM8	(IP address) or (letter)	Multi-screen IP address for Camera8	
CAMTITLE1	(letter)	Multi-screen Camera title for Camera1	
CAMTITLE2	(letter)	Multi-screen Camera title for Camera2	
CAMTITLE3	(letter)	Multi-screen Camera title for Camera3	
CAMTITLE4	(letter)	Multi-screen Camera title for Camera4	
CAMTITLE5	(letter)	Multi-screen Camera title for Camera5	
CAMTITLE6	(letter)	Multi-screen Camera title for Camera6	
CAMTITLE7	(letter)	Multi-screen Camera title for Camera7	
CAMTITLE8	(letter)	Multi-screen Camera title for Camera8	
ATRMIN	0, 1	Terminal alarm 0: OFF (not use Terminal alarm) 1: ON (use Terminal alarm)	
ATRMIN2	0, 1, 2	Terminal alarm2 0: OFF (not use Terminal alarm2) 1: Alarm input 2: Alarm output	
ATRMIN3	0, 1, 3	Terminal alarm3 0: OFF (not use Terminal alarm3) 1: Alarm input 3: AUX output	
AVMD	1, 0	VMD alarm 0: OFF (not use VMD alarm) 1: ON (use VMD alarm)	
ASAB	0, 1, 2, 3	Scene change detection alarm 0: OFF 1: ON (Low) 2: ON (Mid) 3: ON (High)	
ACMD	1, 0	Command alarm 0: OFF (not use Command alarm) 1: ON (use Command alarm)	
ACMDPORT	(number)	Originating port number for command alarm 1 to 65535	
AFTPUSE	1, 0	The alarm image FTP transmission	

		1: ON 0: OFF	
ADIR	(letter)	Directory name for the alarm image FTP transmission	
APICNAME	(letter)	File name for the alarm image FTP transmission	
AIN	0.1, 0.2, 0.33, 0.5, 1	Transmission interval for the alarm image FTP transmission 0.1: 0.1(fps) 0.2: 0.2(fps) 0.33: 0.33(fps) 0.5: 0.5(fps) 1: 1(fps)	
ANUM	10, 20, 30, 50, 100, 200, 300, 500, 1000, 2000, 3000, 5000	Number of images for the alarm image FTP transmission 10: 10 pics 20: 20 pics 30: 30 pics 50: 50 pics 100: 100 pics 200: 200 pics 300: 300 pics 500: 500 pics 1000: 1000 pics 2000: 2000 pics 3000: 3000 pics 5000: 5000 pics	
ASIZE	640, 320	Image capture size 640: VGA 320: QVGA	
ATRMOUT	1, 0	Alarm output setup 1:ON 0:OFF	
ATRMMODE	latch, pulse	External terminal output setup latch: Latch	

		pulse: Pulse	
AOUTMODE	open, close	Alarm Output open: Open close: Close	
APULSEWIDE	(number)	Pulse width 1 to 120 sec	
AUXNAME	(letter)	The name of "AUX"	
AUXONAME	(letter)	The name for "OPEN" of "AUX"	
AUXCNAME	(letter)	The name for "CLOSE" of "AUX"	
VMDULX1	(number)	Upper left X coordinates of VMD area 1	
VMDULY1	(number)	Upper left Y coordinates of VMD area 1	
VMDBRX1	(number)	Lower right X coordinates of VMD area 1	
VMDBRY1	(number)	Lower right Y coordinates of VMD area 1	
VMDULX2	(number)	Upper left X coordinates of VMD area 2	
VMDULY2	(number)	Upper left Y coordinates of VMD area 2	
VMDBRX2	(number)	Lower right X coordinates of VMD area 2	
VMDBRY2	(number)	Lower right Y coordinates of VMD area 2	
VMDULX3	(number)	Upper left X coordinates of VMD area 3	
VMDULY3	(number)	Upper left Y coordinates of VMD area 3	
VMDBRX3	(number)	Lower right X coordinates of VMD area 3	
VMDBRY3	(number)	Lower right Y coordinates of VMD area 3	
VMDULX4	(number)	Upper left X coordinates of VMD area 4	
VMDULY4	(number)	Upper left Y coordinates of VMD area 4	
VMDBRX4	(number)	Lower right X coordinates of VMD area 4	
VMDBRY4	(number)	Lower right Y coordinates of VMD area 4	
VMDSTATUS1	enable, disable	Status of VMD area 1 enable: Enable disable: Disable	
VMDSTATUS2	enable, disable	Status of VMD area 2 enable: Enable disable: Disable	
VMDSTATUS3	enable, disable	Status of VMD area 3 enable: Enable disable: Disable	
VMDSTATUS4	enable, disable	Status of VMD area 4 enable: Enable	

		disable: Disable	
VMDSense	high, mid, low, high1, high2, high3	Detection sensitivity high : 4(High) mid : 5(Middle) low : 6(Low) high1: 1(Super high) high2: 2 high3: 3	
MLSRV	(IP address) or (letter)	SMTP server address	
MLPOPSRV	(IP address) or (letter)	POP server address	
MLAUTH	0, 1, 2	Authentication method 0: None 1: POP before SMTP 2: SMTP server authentication	
MLUSER	(letter)	User name to access the server	
MLFRM	(letter)	Sender's E-mail address	
MLUSE	1, 0	E-mail notification 1: ON 0: OFF	
MLPICT	1, 0	Attach image 1: ON 0: OFF	
MLALM1	1, 0	To notify by e-mail when an alarm occurred for destination E-mail address 1 1: ON 0: OFF	
MLALM2	1, 0	To notify by e-mail when an alarm occurred for destination E-mail address 2 1: ON 0: OFF	
MLALM3	1, 0	To notify by e-mail when an alarm occurred for destination E-mail address 3 1: ON 0: OFF	



MLALM4	1, 0	To notify by e-mail when an alarm occurred for destination E-mail address 4 1: ON 0: OFF	
MLNOTICE1	1, 0	To notify by e-mail when a diagnosis for destination E-mail address 1 1: ON 0: OFF	
MLNOTICE2	1, 0	To notify by e-mail when a diagnosis for destination E-mail address 2 1: ON 0: OFF	
MLNOTICE3	1, 0	To notify by e-mail when a diagnosis for destination E-mail address 3 1: ON 0: OFF	
MLNOTICE4	1, 0	To notify by e-mail when a diagnosis for destination E-mail address 4 1: ON 0: OFF	
MLTOADD1	(letter)	Destination E-mail address 1	
MLTOADD2	(letter)	Destination E-mail address 2	
MLTOADD3	(letter)	Destination E-mail address 3	
MLTOADD4	(letter)	Destination E-mail address 4	
MLSUBJECT	(letter)	E-mail subject	
MLBODY	(letter)	E-mail body	
ORGUSE	1, 0	Panasonic alarm protocol 1: ON 0: OFF	
ORGPORT	(number)	Destination port for panasonic alarm protocol 1 to 65535	
ORGRTRY	(number)	Retry times 1 to 30	
ORGALM1	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 1	

		1: ON 0: OFF	
ORGALM2	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 2 1: ON 0: OFF	
ORGALM3	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 3 1: ON 0: OFF	
ORGALM4	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 4 1: ON 0: OFF	
ORGALM5	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 5 1: ON 0: OFF	
ORGALM6	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 6 1: ON 0: OFF	
ORGALM7	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 7 1: ON 0: OFF	
ORGALM8	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 8 1: ON 0: OFF	
ORGNOTICE1	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 1 1: ON 0: OFF	
ORGNOTICE2	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 2 1: ON	

		0: OFF	
ORGNOTICE3	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 3 1: ON 0: OFF	
ORGNOTICE4	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 4 1: ON 0: OFF	
ORGNOTICE5	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 5 1: ON 0: OFF	
ORGNOTICE6	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 6 1: ON 0: OFF	
ORGNOTICE7	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 7 1: ON 0: OFF	
ORGNOTICE8	1, 0	To notify by panasonic alarm protocol when a diag occurred for destination IP address 8 1: ON 0: OFF	
ORGADD1	(IP address)	Destination IP address 1	
ORGADD2	(IP address)	Destination IP address 2	
ORGADD3	(IP address)	Destination IP address 3	
ORGADD4	(IP address)	Destination IP address 4	
ORGADD5	(IP address)	Destination IP address 5	
ORGADD6	(IP address)	Destination IP address 6	
ORGADD7	(IP address)	Destination IP address 7	
ORGADD8	(IP address)	Destination IP address 8	
UAUTH	1, 0	User authentication 1: ON 0: OFF	

UNAME	(letter)	User name and level list	
HAUTH	1, 0	Host authentication 1: ON 0: OFF	
HADD	(letter)	IP address and level list	
FTPSRV	(IP address) or (letter)	FTP server address	
FTPUSER	(letter)	User name to access the FTP server.	
FTPCPORT	(number)	Control port number to be used for the FTP server. 1 to 65535	
FTPMODE	active, passive	FTP mode active: Active passive: Passive	
FTPUSE	1, 0	FTP periodic transmission 1: ON 0: OFF	
FTPDIR	(letter)	Directory name where the images are to be saved.	
FTPNAME	(letter)	File name of the image file to be transmitted	
FTPNAMEMDOE	fix, time	With time and date file name or fixed name fix: without time and date time: with time and date	
FTPINT	1, 2, 3, 4, 5, 6, 10, 15, 20, 30, 60, 120, 180, 240, 300, 360, 600, 900, 1200, 1800, 3600, 5400, 7200, 10800, 14400, 21600, 43200, 86400	Interval for the FTP periodic transmission 1: 1 sec 2: 2 sec 3: 3 sec 4: 4 sec 5: 5 sec 6: 6 sec 10: 10 sec 15: 15 sec 20: 20 sec 30: 30 sec 60: 1 min 120: 2 min	

		180: 3 min 240: 4 min 300: 5 min 360: 6 min 600: 10 min 900: 15 min 1200: 20 min 1800: 30 min 3600: 1 hour 5400: 1.5 hours 7200: 2 hours 10800: 3 hours 14400: 4 hours 21600: 6 hours 43200: 12 hours 86400: 24 hours	
FTPSIZE	640, 320	Image capture size for the FTP periodic transmission 640: VGA 320: QVGA	
SUN1	1, 0	Schedule 1: Sunday 1: ON 0: OFF	
MON1	1, 0	Schedule 1: Monday 1: ON 0: OFF	
TUE1	1, 0	Schedule 1: Tuesday 1: ON 0: OFF	
WED1	1, 0	Schedule 1: Wednesday 1: ON 0: OFF	
THU1	1, 0	Schedule 1: Tuesday 1: ON 0: OFF	
FRI1	1, 0	Schedule 1: Friday 1: ON	

		0: OFF	
SAT1	1, 0	Schedule 1: Saturday 1: ON 0: OFF	
STARTHOUR1	(number)	Schedule 1: Start time (Time) 0 to 23	
STARTMIN1	(number)	Schedule 1: Start time (Minute) 0 to 59	
ENDHOUR1	(number)	Schedule 1: End time (Time) 0 to 23	
ENDMIN1	(number)	Schedule 1: End time (Minute) 0 to 59	
24HOUR1	1, 2	Schedule 1: 24hours setting 1: Designating time 2: Not designating time (24hours)	
SUN2	1, 0	Schedule 2: Sunday 1: ON 0: OFF	
MON2	1, 0	Schedule 2: Monday 1: ON 0: OFF	
TUE2	1, 0	Schedule 2: Tuesday 1: ON 0: OFF	
WED2	1, 0	Schedule 2: Wednesday 1: ON 0: OFF	
THU2	1, 0	Schedule 2: Tuesday 1: ON 0: OFF	
FRI2	1, 0	Schedule 2: Friday 1: ON 0: OFF	
SAT2	1, 0	Schedule 2: Saturday 1: ON 0: OFF	

STARTHOUR2	(number)	Schedule 2: Start time (Time) 0 to 23	
STARTMIN2	(number)	Schedule 2: Start time (Minute) 0 to 59	
ENDHOUR2	(number)	Schedule 2: End time (Time) 0 to 23	
ENDMIN2	(number)	Schedule 2: End time (Minute) 0 to 59	
24HOURS2	1, 2	Schedule 2: 24hours setting 1: Designating time 2: Not designating time (24hours)	
SUN3	1, 0	Schedule 3: Sunday 1: ON 0: OFF	
MON3	1, 0	Schedule 3: Monday 1: ON 0: OFF	
TUE3	1, 0	Schedule 3: Tuesday 1: ON 0: OFF	
WED3	1, 0	Schedule 3: Wednesday 1: ON 0: OFF	
THU3	1, 0	Schedule 3: Tuesday 1: ON 0: OFF	
FRI3	1, 0	Schedule 3: Friday 1: ON 0: OFF	
SAT3	1, 0	Schedule 3: Saturday 1: ON 0: OFF	
STARTHOUR3	(number)	Schedule 3: Start time (Time) 0 to 23	
STARTMIN3	(number)	Schedule 3: Start time (Minute)	

		0 to 59	
ENDHOUR3	(number)	Schedule 3: End time (Time) 0 to 23	
ENDMIN3	(number)	Schedule 3: End time (Minute) 0 to 59	
24HOURS3	1, 2	Schedule 3: 24hours setting 1: Designating time 2: Not designating time (24hours)	
DHCP	1, 0	DHCP 0: OFF (not use DHCP) 1: ON (use DHCP)	
EIP1	(number)	IP address 1st octet	
EIP2	(number)	IP address 2nd octet	
EIP3	(number)	IP address 3rd octet	
EIP4	(number)	IP address 4th octet	
EMASK1	(number)	Net mask 1st octet	
EMASK2	(number)	Net mask 2nd octet	
EMASK3	(number)	Net mask 3rd octet	
EMASK4	(number)	Net mask 4th octet	
EDGW1	(number)	Default gateway 1st octet	
EDGW2	(number)	Default gateway 2nd octet	
EDGW3	(number)	Default gateway 3rd octet	
EDGW4	(number)	Default gateway 4th octet	
HTTPPORT	(number)	HTTP port number	
DNS	manual, auto	DNS manual: Manual auto: Auto	
PRISRV1	(number)	Primary DNS server address 1st octet	
PRISRV2	(number)	Primary DNS server address 2nd octet	
PRISRV3	(number)	Primary DNS server address 3rd octet	
PRISRV4	(number)	Primary DNS server address 4th octet	
SECSRV1	(number)	Secondary DNS server address 1st octet	
SECSRV2	(number)	Secondary DNS server address 2nd octet	
SECSRV3	(number)	Secondary DNS server address 3rd octet	
SECSRV4	(number)	Secondary DNS server address 4th octet	
SPEED	1, 2, 3, 4, 5	Line speed 1: Auto	



		2: 100MF duplex 3: 100MH duplex 4: 10MF duplex 5: 10MH duplex	
FTPS	1, 0	FTP access 1: Allow 0: Forbid	
BWC	0, 64, 256, 512, 1024, 2048, 4096	Total bit rate 0: Unlimited 64: 64 kbps 128: 128 kbps 256: 256 kbps 512: 512 kbps 1024: 1024 kbps 2048: 2048 kbps 4096: 4096 kbps	
DDNS	1, 0	DDNS function 1: ON 0: OFF	
DDHOST	(letter)	Hostname	
DDUSR	(letter)	Login user name to access the DDNS server	
DDINT	1, 10, 30, 60, 360, 1440	Access interval to the DDNS server 1: 1 min 10: 10 min 30: 30 min 60: 1 hour 360: 6 hours 1440: 24 hours	
SNMPCOM	(letter)	Community name for SNMP	
SNMPTITLE	(letter)	Camera title for SNMP	
SNMPLOCATION	(letter)	Camera location for SNMP	
SNMPCONTACT	(letter)	Contact address or phone number for SNMP	
HTTPALM	(number)	Alarm notification setup 128: ON another number: OFF	

HTTPALMURL	(letter)	URL setup of alarm notification	
HTTPALMUSER	(letter)	Login name to server	
AUXSTATUS	open, close, off	AUX STATUS open: OPEN close: CLOSE off: OFF	
PATROLNO	(number)	The number of memorised patrol 1: 1(2min.) 2: 2(1min.) 3: 4(30sec)	
PATROLSET		Information of memorised patrol 0: Not memory 1: Memoried Ex) 1000: The memorised patrol is only No.1. Ex) 0110: The memorised patrols re No2 and No.3	
OSDSIZ	large, middle, small	Character size large : Large middle : Middle small : Small	
MPEGMLADD	(IPv4 address) or (IPv6 address)	MPEG-4 multicast address	
PRVMODE1	off, mask, mosaic	Display type of privacy zone 1 off: OFF mask: Gray mosaic: Mosaic	
PRVMODE2	off, mask, mosaic	Display type of privacy zone 2 off: OFF mask: Gray mosaic: Mosaic	
PRVMODE3	off, mask, mosaic	Display type of privacy zone 3 off: OFF mask: Gray mosaic: Mosaic	

PRVMODE4	off, mask, mosaic	Display type of privacy zone 4 off: OFF mask: Gray mosaic: Mosaic	
PRVMODE5	off, mask, mosaic	Display type of privacy zone 5 off: OFF mask: Gray mosaic: Mosaic	
PRVMODE6	off, mask, mosaic	Display type of privacy zone 6 off: OFF mask: Gray mosaic: Mosaic	
PRVMODE7	off, mask, mosaic	Display type of privacy zone 7 off: OFF mask: Gray mosaic: Mosaic	
PRVMODE8	off, mask, mosaic	Display type of privacy zone 8 off: OFF mask: Gray mosaic: Mosaic	
PRVULX1	0 to 639	Upper left X coordinates of privacy zone 1	
PRVULY1	0 to 479	Upper left Y coordinates of privacy zone 1	
PRVBRX1	0 to 639	Lower right X coordinates of privacy zone 1	
PRVBRY1	0 to 479	Lower right Y coordinates of privacy zone 1	
PRVULX2	0 to 639	Upper left X coordinates of privacy zone 2	
PRVULY2,	0 to 479	Upper left Y coordinates of privacy zone 2	
PRVBRX2	0 to 639	Lower right X coordinates of privacy zone 2	
PRVBRY2	0 to 479	Lower right Y coordinates of privacy zone 2	
PRVULX3	0 to 639	Upper left X coordinates of privacy zone 3	
PRVULY3	0 to 479	Upper left Y coordinates of privacy zone 3	
PRVBRX3	0 to 639	Lower right X coordinates of privacy zone 3	
PRVBRY3	0 to 479	Lower right Y coordinates of privacy zone 3	
PRVULX4	0 to 639	Upper left X coordinates of privacy zone 4	
PRVULY4	0 to 479	Upper left Y coordinates of privacy zone 4	
PRVBRX4	0 to 639	Lower right X coordinates of privacy zone 4	
PRVBRY4	0 to 479	Lower right Y coordinates of privacy zone 4	
PRVULX5	0 to 639	Upper left X coordinates of privacy zone 5	

PRVULY5	0 to 479	Upper left Y coordinates of privacy zone 5	
PRVBRX5	0 to 639	Lower right X coordinates of privacy zone 5	
PRVBRY5	0 to 479	Lower right Y coordinates of privacy zone 5	
PRVULX6	0 to 639	Upper left X coordinates of privacy zone 6	
PRVULY6	0 to 479	Upper left Y coordinates of privacy zone 6	
PRVBRX6	0 to 639	Lower right X coordinates of privacy zone 6	
PRVBRY6	0 to 479	Lower right Y coordinates of privacy zone 6	
PRVULX7	0 to 639	Upper left X coordinates of privacy zone 7	
PRVULY7	0 to 479	Upper left Y coordinates of privacy zone 7	
PRVBRX7	0 to 639	Lower right X coordinates of privacy zone 7	
PRVBRY7	0 to 479	Lower right Y coordinates of privacy zone 7	
PRVULX8	0 to 639	Upper left X coordinates of privacy zone 8	
PRVULY8	0 to 479	Upper left Y coordinates of privacy zone 8	
PRVBRX8	0 to 639	Lower right X coordinates of privacy zone 8	
PRVBRY8	0 to 479	Lower right Y coordinates of privacy zone 8	
ALMIMGCNT	0,1	Image compression rate upon alarm detection 0:OFF 1:ON	
ALMIMGQUAL	0, 1, 2, 3, 4, 5, 6, 7, 8, 9	Image quality upon alarm detection 0: 0 SuperFine 1: 1:Fine 2: 2 3: 3 4: 4 5: 5 Normal 6: 6 7: 7 8: 8 9: 9 Low	
SMTPPORT	1 to 65535	SMTP port	
IP6_AUTO	0, 1	Manual (IPv6) 0: ON (Manual) 1: OFF (Auto)	
IP6	(IPv6 address)	IP address (IPv6)	

IP6DGW	(IPv6 address)	Default gateway (IPv6)	
PRISRV	(IPv4 address) or (IPv6 address)	Primary DNS address	
SECSRV	(IPv4 address) or (IPv6 address)	Secondary DNS address	
DARKCOMP	0, 1	Adaptive black stretch 0: OFF 1: ON	

Compatible chart by models

Setup data	Model Number & Correspondence version									
	WV- NP1004	WV- NP244	WV- NS202	WV- NF284	WJ- NT304	WV- NW484	WV- NS202A	WV- NS954 WV- NW964	WJ- NT314	WV- NF302 WV- NP304
CAMTITLE	-	YES	-	-	-	YES	YES	YES	-	YES
TIMEDATE	-	YES	-	-	-	YES	YES	YES	-	YES
TIMEFORMAT	-	YES	-	-	-	YES	YES	YES	-	YES
TIMEDISP	-	YES	-	-	-	YES	YES	YES	-	YES
STIME	-	YES	-	-	-	YES	YES	YES	-	YES
LED	-	YES	-	-	-	YES	YES	YES	-	YES
OSDPOSI	-	N/A	-	-	-	YES	YES	YES	-	YES
AEVENT	-	N/A	-	-	-	YES	YES	YES	-	YES
AEVENTPORT	-	N/A	-	-	-	YES	YES	YES	-	YES
TIMEADJUST	-	YES	-	-	-	YES	YES	YES	-	YES
NTPADD	-	YES	-	-	-	YES	YES	YES	-	YES
NTPPORT	-	YES	-	-	-	YES	YES	YES	-	YES
NTPINTERVAL	-	YES	-	-	-	YES	YES	YES	-	YES
TIMEZONE	-	YES	-	-	-	YES	YES	YES	-	YES
SDCARD	-	YES	-	-	-	YES	YES	YES	-	YES
SDREMNOTICE	-	YES	-	-	-	YES	YES	YES	-	YES
SDREM	-	YES	-	-	-	YES	YES	YES	-	YES
SDTOTAL	-	YES	-	-	-	YES	YES	YES	-	YES
SDREC	-	N/A	-	-	-	YES	YES	YES	-	YES
SDRECNAME	-	N/A	-	-	-	YES	YES	YES	-	YES
SDRECINT	-	N/A	-	-	-	YES	YES	YES	-	YES
SDRECNUM	-	N/A	-	-	-	YES	YES	YES	-	YES
LIVEINT	-	YES	-	-	-	YES	YES	YES	-	YES
LIVESIZE	-	YES	-	-	-	YES	YES	YES	-	YES
LIVEQUAL	-	YES	-	-	-	YES	YES	YES	-	YES
MPEG	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGBWC	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGSIZE	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGQUAL	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGRINT	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGMTD	-	YES	-	-	-	YES	YES	YES	-	YES

External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

MPEGMLADD1	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGMLADD2	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGMLADD3	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGMLADD4	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGMLPORT	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGMLTTL	-	YES	-	-	-	YES	YES	YES	-	YES
MPEGUNIPOINT	-	N/A	-	-	-	YES	YES	YES	-	YES
MPEGUNIPOINT2	-	N/A	-	-	-	N/A	YES	YES	-	YES
BRIGHTNESS	-	YES	-	-	-	N/A	N/A	N/A	-	N/A
WHITEBALANCE	-	YES	-	-	-	N/A	N/A	N/A	-	N/A
SHARPNESS	-	YES	-	-	-	N/A	N/A	N/A	-	N/A
FLICKERLESS	-	YES	-	-	-	N/A	N/A	N/A	-	N/A
SENSUP	-	YES	-	-	-	N/A	N/A	N/A	-	N/A
BLC	-	YES	-	-	-	N/A	N/A	N/A	-	YES
ALCELC	-	YES	-	-	-	N/A	N/A	N/A	-	YES
OSDNAME	-	N/A	-	-	-	YES	YES	YES	-	YES
OSDNAME DISP	-	N/A	-	-	-	YES	YES	YES	-	YES
STABILIZER	-	N/A	-	-	-	YES	N/A	N/A	-	N/A
UPSIDEDOWN	-	N/A	-	-	-	YES	YES	N/A	-	N/A
CHROMA	-	N/A	-	-	-	YES	YES	YES	-	YES
APERTURE	-	N/A	-	-	-	YES	YES	YES	-	YES
PEDESTAL	-	N/A	-	-	-	YES	YES	YES	-	YES
DNR	-	N/A	-	-	-	YES	YES	YES	-	N/A
SHUTTER	-	N/A	-	-	-	YES	YES	YES	-	N/A
AGC	-	N/A	-	-	-	YES	YES	YES	-	YES
SENSITIVITY	-	N/A	-	-	-	YES	YES	YES	-	YES
WHITEBAL	-	N/A	-	-	-	YES	YES	YES	-	YES
RVOL	-	N/A	-	-	-	YES	YES	YES	-	YES
BVOL	-	N/A	-	-	-	YES	YES	YES	-	YES
SDTHREE	-	N/A	-	-	-	YES	YES	YES	-	N/A
BW	-	N/A	-	-	-	YES	YES	YES	-	YES
BWLEVEL	-	N/A	-	-	-	YES	N/A	YES	-	N/A
BWTIME	-	N/A	-	-	-	YES	N/A	YES	-	N/A
PRV MODE	-	N/A	-	-	-	YES	YES	YES	-	N/A
PRV ENT	-	N/A	-	-	-	YES	YES	YES	-	N/A
CLBW	-	N/A	-	-	-	YES	N/A	N/A	-	N/A
LENSTEMPR	-	N/A	-	-	-	YES	N/A	N/A	-	N/A

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

AUDIO	-	YES	-	-	-	N/A	YES	YES	-	YES
AUDIOSENS	-	YES	-	-	-	N/A	YES	YES	-	YES
AUDIOBITRATE	-	YES	-	-	-	N/A	YES	YES	-	YES
AUDIOINT	-	YES	-	-	-	N/A	YES	YES	-	YES
AUDIOAUTH	-	YES	-	-	-	N/A	YES	YES	-	YES
AUDIOOUTINT	-	N/A	-	-	-	N/A	YES	YES	-	YES
AUDIOOUTSENS	-	N/A	-	-	-	N/A	YES	YES	-	YES
AUDIOOUTPORT	-	N/A	-	-	-	N/A	YES	YES	-	YES
AUDIOSTATUS	-	N/A	-	-	-	N/A	YES	YES	-	YES
CAM1	-	YES	-	-	-	YES	YES	YES	-	YES
CAM2	-	YES	-	-	-	YES	YES	YES	-	YES
CAM3	-	YES	-	-	-	YES	YES	YES	-	YES
CAM4	-	YES	-	-	-	YES	YES	YES	-	YES
CAM5	-	YES	-	-	-	YES	YES	YES	-	YES
CAM6	-	YES	-	-	-	YES	YES	YES	-	YES
CAM7	-	YES	-	-	-	YES	YES	YES	-	YES
CAM8	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE1	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE2	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE3	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE4	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE5	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE6	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE7	-	YES	-	-	-	YES	YES	YES	-	YES
CAMTITLE8	-	YES	-	-	-	YES	YES	YES	-	YES
ATRMIN	-	YES	-	-	-	YES	YES	YES	-	YES
ATRMIN2	-	N/A	-	-	-	N/A	YES	YES	-	N/A
ATRMIN3	-	N/A	-	-	-	N/A	YES	YES	-	N/A
AVMD	-	YES	-	-	-	YES	YES	YES	-	N/A
ASAB	-	N/A	-	-	-	YES	N/A	N/A	-	N/A
ACMD	-	YES	-	-	-	YES	YES	YES	-	YES
ACMDPORT	-	YES	-	-	-	YES	YES	YES	-	YES
AFTPUSE	-	YES	-	-	-	YES	YES	YES	-	YES
ADIR	-	YES	-	-	-	YES	YES	YES	-	YES
APICNAME	-	YES	-	-	-	YES	YES	YES	-	YES
AIN	-	YES	-	-	-	YES	YES	YES	-	YES
ANUM	-	YES	-	-	-	YES	YES	YES	-	YES



External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

ASIZE	-	YES	-	-	-	YES	YES	YES	-	YES
ATRMOUT	-	YES	-	-	-	YES	YES	YES	-	YES
ATRMMODE	-	YES	-	-	-	YES	YES	YES	-	YES
AOUTMODE	-	YES	-	-	-	YES	YES	YES	-	YES
APULSEWIDE	-	YES	-	-	-	YES	YES	YES	-	YES
AUXNAME	-	YES	-	-	-	YES	YES	YES	-	YES
AUXONAME	-	YES	-	-	-	YES	YES	YES	-	YES
AUXCNAME	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULX1	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULY1	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRX1	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRY1	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULX2	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULY2	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRX2	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRY2	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULX3	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULY3	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRX3	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRY3	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULX4	-	YES	-	-	-	YES	YES	YES	-	YES
VMDULY4	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRX4	-	YES	-	-	-	YES	YES	YES	-	YES
VMDBRY4	-	YES	-	-	-	YES	YES	YES	-	YES
VMDSTATUS1	-	YES	-	-	-	YES	YES	YES	-	YES
VMDSTATUS2	-	YES	-	-	-	YES	YES	YES	-	YES
VMDSTATUS3	-	YES	-	-	-	YES	YES	YES	-	YES
VMDSTATUS4	-	YES	-	-	-	YES	YES	YES	-	YES
VMDSENSE	-	YES	-	-	-	YES	YES	YES	-	YES
MLSRV	-	YES	-	-	-	YES	YES	YES	-	YES
MLPOPSRV	-	YES	-	-	-	YES	YES	YES	-	YES
MLAUTH	-	YES	-	-	-	YES	YES	YES	-	YES
MLUSER	-	YES	-	-	-	YES	YES	YES	-	YES
MLFRM	-	YES	-	-	-	YES	YES	YES	-	YES
MLUSE	-	YES	-	-	-	YES	YES	YES	-	YES
MLPICT	-	YES	-	-	-	YES	YES	YES	-	YES
MLALM1	-	YES	-	-	-	YES	YES	YES	-	YES

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

MLALM2	-	YES	-	-	-	YES	YES	YES	-	YES
MLALM3	-	YES	-	-	-	YES	YES	YES	-	YES
MLALM4	-	YES	-	-	-	YES	YES	YES	-	YES
MLNOTICE1	-	YES	-	-	-	YES	YES	YES	-	YES
MLNOTICE2	-	YES	-	-	-	YES	YES	YES	-	YES
MLNOTICE3	-	YES	-	-	-	YES	YES	YES	-	YES
MLNOTICE4	-	YES	-	-	-	YES	YES	YES	-	YES
MLTOADD1	-	YES	-	-	-	YES	YES	YES	-	YES
MLTOADD2	-	YES	-	-	-	YES	YES	YES	-	YES
MLTOADD3	-	YES	-	-	-	YES	YES	YES	-	YES
MLTOADD4	-	YES	-	-	-	YES	YES	YES	-	YES
MLSUBJECT	-	YES	-	-	-	YES	YES	YES	-	YES
MLBODY	-	YES	-	-	-	YES	YES	YES	-	YES
ORGUSE	-	YES	-	-	-	YES	YES	YES	-	YES
ORGPORT	-	YES	-	-	-	YES	YES	YES	-	YES
ORGRTY	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM1	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM2	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM3	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM4	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM5	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM6	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM7	-	YES	-	-	-	YES	YES	YES	-	YES
ORGALM8	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE1	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE2	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE3	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE4	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE5	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE6	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE7	-	YES	-	-	-	YES	YES	YES	-	YES
ORGNOTICE8	-	YES	-	-	-	YES	YES	YES	-	YES
ORGADD1	-	YES	-	-	-	YES	YES	YES	-	YES
ORGADD2	-	YES	-	-	-	YES	YES	YES	-	YES
ORGADD3	-	YES	-	-	-	YES	YES	YES	-	YES
ORGADD4	-	YES	-	-	-	YES	YES	YES	-	YES
ORGADD5	-	YES	-	-	-	YES	YES	YES	-	YES

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

ORGADD6	-	YES	-	-	-	YES	YES	YES	-	YES
ORGADD7	-	YES	-	-	-	YES	YES	YES	-	YES
ORGADD8	-	YES	-	-	-	YES	YES	YES	-	YES
UAUTH	-	YES	-	-	-	YES	YES	YES	-	YES
UNAME	-	YES	-	-	-	YES	YES	YES	-	YES
HAUTH	-	YES	-	-	-	YES	YES	YES	-	YES
HADD	-	YES	-	-	-	YES	YES	YES	-	YES
FTPSRV	-	YES	-	-	-	YES	YES	YES	-	YES
FTPUSER	-	YES	-	-	-	YES	YES	YES	-	YES
FTPCPORT	-	YES	-	-	-	YES	YES	YES	-	YES
FTPMODE	-	YES	-	-	-	YES	YES	YES	-	YES
FTPUSE	-	YES	-	-	-	YES	YES	YES	-	YES
FTPDIR	-	YES	-	-	-	YES	YES	YES	-	YES
FTPNAME	-	YES	-	-	-	YES	YES	YES	-	YES
FTPNAMEMDOE	-	YES	-	-	-	YES	YES	YES	-	YES
FTPINT	-	YES	-	-	-	YES	YES	YES	-	YES
FTPSIZE	-	YES	-	-	-	YES	YES	YES	-	YES
SUN1	-	YES	-	-	-	YES	YES	YES	-	YES
MON1	-	YES	-	-	-	YES	YES	YES	-	YES
TUE1	-	YES	-	-	-	YES	YES	YES	-	YES
WED1	-	YES	-	-	-	YES	YES	YES	-	YES
THU1	-	YES	-	-	-	YES	YES	YES	-	YES
FRI1	-	YES	-	-	-	YES	YES	YES	-	YES
SAT1	-	YES	-	-	-	YES	YES	YES	-	YES
STARTHOUR1	-	YES	-	-	-	YES	YES	YES	-	YES
STARTMIN1	-	YES	-	-	-	YES	YES	YES	-	YES
ENDHOUR1	-	YES	-	-	-	YES	YES	YES	-	YES
ENDMIN1	-	YES	-	-	-	YES	YES	YES	-	YES
24HOUR1	-	YES	-	-	-	YES	YES	YES	-	YES
SUN2	-	YES	-	-	-	YES	YES	YES	-	YES
MON2	-	YES	-	-	-	YES	YES	YES	-	YES
TUE2	-	YES	-	-	-	YES	YES	YES	-	YES
WED2	-	YES	-	-	-	YES	YES	YES	-	YES
THU2	-	YES	-	-	-	YES	YES	YES	-	YES
FRI2	-	YES	-	-	-	YES	YES	YES	-	YES
SAT2	-	YES	-	-	-	YES	YES	YES	-	YES
STARTHOUR2	-	YES	-	-	-	YES	YES	YES	-	YES

External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

STARTMIN2	-	YES	-	-	-	YES	YES	YES	-	YES
ENDHOUR2	-	YES	-	-	-	YES	YES	YES	-	YES
ENDMIN2	-	YES	-	-	-	YES	YES	YES	-	YES
24HOURS2	-	YES	-	-	-	YES	YES	YES	-	YES
SUN3	-	YES	-	-	-	YES	YES	YES	-	YES
MON3	-	YES	-	-	-	YES	YES	YES	-	YES
TUE3	-	YES	-	-	-	YES	YES	YES	-	YES
WED3	-	YES	-	-	-	YES	YES	YES	-	YES
THU3	-	YES	-	-	-	YES	YES	YES	-	YES
FRI3	-	YES	-	-	-	YES	YES	YES	-	YES
SAT3	-	YES	-	-	-	YES	YES	YES	-	YES
STARTHOUR3	-	YES	-	-	-	YES	YES	YES	-	YES
STARTMIN3	-	YES	-	-	-	YES	YES	YES	-	YES
ENDHOUR3	-	YES	-	-	-	YES	YES	YES	-	YES
ENDMIN3	-	YES	-	-	-	YES	YES	YES	-	YES
24HOURS3	-	YES	-	-	-	YES	YES	YES	-	YES
DHCP	-	YES	-	-	-	YES	YES	YES	-	YES
EIP1	-	YES	-	-	-	YES	YES	YES	-	YES
EIP2	-	YES	-	-	-	YES	YES	YES	-	YES
EIP3	-	YES	-	-	-	YES	YES	YES	-	YES
EIP4	-	YES	-	-	-	YES	YES	YES	-	YES
EMASK1	-	YES	-	-	-	YES	YES	YES	-	YES
EMASK2	-	YES	-	-	-	YES	YES	YES	-	YES
EMASK3	-	YES	-	-	-	YES	YES	YES	-	YES
EMASK4	-	YES	-	-	-	YES	YES	YES	-	YES
EDGW1	-	YES	-	-	-	YES	YES	YES	-	YES
EDGW2	-	YES	-	-	-	YES	YES	YES	-	YES
EDGW3	-	YES	-	-	-	YES	YES	YES	-	YES
EDGW4	-	YES	-	-	-	YES	YES	YES	-	YES
HTTPPORT	-	YES	-	-	-	YES	YES	YES	-	YES
DNS	-	YES	-	-	-	YES	YES	YES	-	YES
PRISRV1	-	YES	-	-	-	YES	YES	YES	-	YES
PRISRV2	-	YES	-	-	-	YES	YES	YES	-	YES
PRISRV3	-	YES	-	-	-	YES	YES	YES	-	YES
PRISRV4	-	YES	-	-	-	YES	YES	YES	-	YES
SECSRV1	-	YES	-	-	-	YES	YES	YES	-	YES
SECSRV2	-	YES	-	-	-	YES	YES	YES	-	YES

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

SECSRV3	-	YES	-	-	-	YES	YES	YES	-	YES
SECSRV4	-	YES	-	-	-	YES	YES	YES	-	YES
SPEED	-	YES	-	-	-	YES	YES	YES	-	YES
FTPS	-	YES	-	-	-	YES	YES	YES	-	YES
BWC	-	YES	-	-	-	YES	YES	YES	-	YES
DDNS	-	YES	-	-	-	YES	YES	YES	-	YES
DDHOST	-	YES	-	-	-	YES	YES	YES	-	YES
DDUSR	-	YES	-	-	-	YES	YES	YES	-	YES
DDINT	-	YES	-	-	-	YES	YES	YES	-	YES
SNMPCOM	-	YES	-	-	-	YES	YES	YES	-	YES
SNMPTITLE	-	YES	-	-	-	YES	YES	YES	-	YES
SNMPLOCATION	-	YES	-	-	-	YES	YES	YES	-	YES
SNMPCONTACT	-	YES	-	-	-	YES	YES	YES	-	YES
HTTPALM	-	YES	-	-	-	YES	YES	YES	-	YES
HTTPALMURL	-	YES	-	-	-	YES	YES	YES	-	YES
HTTPALMUSER	-	YES	-	-	-	YES	YES	YES	-	YES
AUXSTATUS	-	N/A	-	-	-	YES	YES	YES	-	YES
PATROLNO	-	N/A	-	-	-	N/A	N/A	YES	-	N/A
PATROLSET	-	N/A	-	-	-	N/A	N/A	YES	-	N/A
OSDSIZ	-	-	-	-	-	-	-	-	-	YES
MPEGMLADD	-	-	-	-	-	-	-	-	-	YES
PRVMODE1	-	-	-	-	-	-	-	-	-	YES
PRVMODE2	-	-	-	-	-	-	-	-	-	YES
PRVMODE3	-	-	-	-	-	-	-	-	-	YES
PRVMODE4	-	-	-	-	-	-	-	-	-	YES
PRVMODE5	-	-	-	-	-	-	-	-	-	YES
PRVMODE6	-	-	-	-	-	-	-	-	-	YES
PRVMODE7	-	-	-	-	-	-	-	-	-	YES
PRVMODE8	-	-	-	-	-	-	-	-	-	YES
PRVULX1	-	-	-	-	-	-	-	-	-	YES
PRVULY1	-	-	-	-	-	-	-	-	-	YES
PRVBRX1	-	-	-	-	-	-	-	-	-	YES
PRVBRY1	-	-	-	-	-	-	-	-	-	YES
PRVULX2	-	-	-	-	-	-	-	-	-	YES
PRVULY2,	-	-	-	-	-	-	-	-	-	YES
PRVBRX2	-	-	-	-	-	-	-	-	-	YES
PRVBRY2	-	-	-	-	-	-	-	-	-	YES

# External interface specifications of Panasonic WV-Series Network Camera Ver.1.11

PRVULX3	-	-	-	-	-	-	-	-	-	YES
PRVULY3	-	-	-	-	-	-	-	-	-	YES
PRVBRX3	-	-	-	-	-	-	-	-	-	YES
PRVBRY3	-	-	-	-	-	-	-	-	-	YES
PRVULX4	-	-	-	-	-	-	-	-	-	YES
PRVULY4	-	-	-	-	-	-	-	-	-	YES
PRVBRX4	-	-	-	-	-	-	-	-	-	YES
PRVBRY4	-	-	-	-	-	-	-	-	-	YES
PRVULX5	-	-	-	-	-	-	-	-	-	YES
PRVULY5	-	-	-	-	-	-	-	-	-	YES
PRVBRX5	-	-	-	-	-	-	-	-	-	YES
PRVBRY5	-	-	-	-	-	-	-	-	-	YES
PRVULX6	-	-	-	-	-	-	-	-	-	YES
PRVULY6	-	-	-	-	-	-	-	-	-	YES
PRVBRX6	-	-	-	-	-	-	-	-	-	YES
PRVBRY6	-	-	-	-	-	-	-	-	-	YES
PRVULX7	-	-	-	-	-	-	-	-	-	YES
PRVULY7	-	-	-	-	-	-	-	-	-	YES
PRVBRX7	-	-	-	-	-	-	-	-	-	YES
PRVBRY7	-	-	-	-	-	-	-	-	-	YES
PRVULX8	-	-	-	-	-	-	-	-	-	YES
PRVULY8	-	-	-	-	-	-	-	-	-	YES
PRVBRX8	-	-	-	-	-	-	-	-	-	YES
PRVBRY8	-	-	-	-	-	-	-	-	-	YES
ALMIMGCNT	-	-	-	-	-	-	-	-	-	YES
ALMIMGQUAL	-	-	-	-	-	-	-	-	-	YES
SMTPPORT	-	-	-	-	-	-	-	-	-	YES
IP6_AUTO	-	-	-	-	-	-	-	-	-	YES
IP6	-	-	-	-	-	-	-	-	-	YES
IP6DGW	-	-	-	-	-	-	-	-	-	YES
PRISRV	-	-	-	-	-	-	-	-	-	YES
SECSRV	-	-	-	-	-	-	-	-	-	YES
DARKCOMP	-	-	-	-	-	-	-	-	-	YES