

CX350/CX4000 Control Using PTZ Control Protocol

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Revision History

| Date | Revision | Description |
|------------|----------|---|
| 2020/05/01 | Rev.1.00 | 1 st Release |
| 2021/05/27 | Rev.2.00 | Added the corresponding command |
| 2022/01/25 | Rev.3.00 | Added the corresponding command • QSE:77, view.cgi, get_state, set_rtmp_param, set_srt_info Corrected the response value of the QID command |

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1 Scope

This document describes CX series cameras control using PTZ Control Protocol over HTTP from external terminal such as PC and PDA.

2 Conformance Notation

The keywords "shall" and "shall not" indicate requirements strictly to be followed in order to conform to the document and from which no deviation is permitted

The keywords, "should" and "should not" indicate that, among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required; or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited.

The keywords "may" and "need not" indicate courses of action permissible within the limits of the document.

The keywords "optional" indicates that implementation is not necessarily required.

3 Introduction

Applicable models

- AG-CX350 Ver6.00 ~
- AJ-UPX360 Ver6.00 ~
- AG-CX200 Ver6.00 ~
- AJ-CX4000 Ver5.00 ~
- AJ-UPX900 Ver5.00 ~

CX series cameras can be controlled using PTZ Control Protocol if **NDI HX mode** is on, or IP REMOTE is **ENABLE(HOLD)**. Also, for the AG-CX350/AJ-UPX360/AG-CX200, set the Auto/Manual switch on the camera body to **Auto**. PTZ Control Protocol use port 80. All commands return 404 responses, unless in NDI|HX mode or IP REMOTE is ENABLE(HOLD). Commands related to non-supported functions in CX series camera will respond with 404 Error.

Please also refer to the documents below for PTZ Camera Control Protocol.

https://www.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/HE50_120_IP/HDIntegratedCamera_InterfaceSpecifications-E.pdf

https://www.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/UE150_CGI/Supplement_for_Web_Control-UE150E.pdf

4 Command details

This chapter presents the following details.

① Pan-tilt head control

This interface controls the zoom, the focus and so on. These commands are called “pan-tilt head control commands” following HD/4K Integrated Camera Interface Specifications.

② Camera control

This interface is concerned with the camera’s lens control and image adjustments. These commands are called “camera control commands” following HD/4K Integrated Camera Interface Specifications.

③ Video transmission and network application control

This interface controls the start/stop of streaming, the start/stop of video recording and so on. These commands are called “Video transmission and network application control”.

4.1 Pan-tilt head control

The pan-tilt head control commands are in compliance with the HTTP1.1 communication specifications. Their format is given below.

【Command format】

[Send]

`http://[IP Address]/cgi-bin/aw_ptz?cmd=[Command]&res=[Type]`

where

※IP Address..... IP address of camera at connection destination

※Command..... Details given in “Command” column in the command tables below

※Type..... Fixed at “1”

[Receive] 200 OK “Command”

※Command..... Response value of each command; set in the HTTP message body

Example: Zoom (Stop)

[Send]

`http://192.168.0.10/cgi-bin/aw_ptz?cmd=#Z50&res=1`

[Receive]

200 OK “zS50”

※Depending on the browser or middleware used, “#” may have to be converted to “%23” by ASCII conversion.

`http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23Z50&res=1`

Given below is the communication sequence which accords with the command format presented on the previous page.

【Sequence】

“PC1” is the control terminal in the sequence below.

Example: Zoom (Stop) control

Camera IP Address = 192.168.0.10

Command = Z50

The control to stop the pan-tilt operation is exercised from PC1. [200 OK “zS50”] is returned as the response from the camera. The control command and query command are available as the pan-tilt head control commands. Given below is the command sequence.

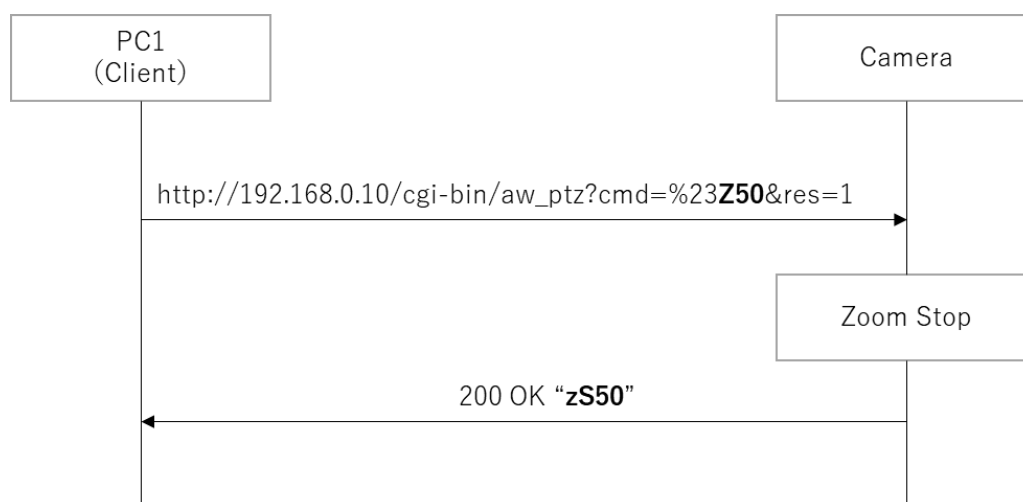


Figure 4.1.1-1 Command sequence of zoom speed control

For more details, please check the documents below for PTZ Camera Control Protocol.

https://www.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/HE50_120_IP/HDIntegratedCamera_InterfaceSpecifications-E.pdf

4.1.1 Power On/Stanby

CX series cameras cannot be turned On/Off by the PTZ Control Command. Only query command is supported.

Table 4.1.1.1 Power On/Stanby

| Command name | Category | Command | Data value | Setting | Remarks |
|-------------------------------|----------|---------|------------|----------|-----------------------------------|
| Power On/Stanby query command | Request | #O | None | | • The response value is always 1. |
| | Response | p[Data] | 1 | Power On | |

4.1.2 Lens Operations

4.1.2.1 Zoom

These commands control the zooming (between Wide and Tele) of the camera lens and enable the current zoom position to be acquired.

Table 4.1.2.1 Zoom

| Command name | Category | Command | Data value | Setting | Remarks |
|---------------------------------------|----------|----------|--------------------------------|--|---|
| Zoom (position control) query command | Request | #GZ | None | | ※In the case of AJ-CX4000 /AJ-UPX900, the availability depends on the lens. |
| | Response | gz[Data] | 555h ~ FFFh | Wide ~ Tele | |
| Zoom (speed control) control command | Control | #Z[Data] | 01 | Wide Max. Speed | • Zooming speed to be controlled ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | zS[Data] | ~ 49 50 51 ~ 99 | ~ Wide Min. Speed Zoom Stop Tele Min. Speed ~ Tele Max. Speed | |

4.1.2.2 Focus

These commands control the focusing (between Near and Far) of the camera and enable the current focus position and focus adjustment speed to be acquired. They also enable On/Off for the auto focus to be controlled and the current auto focus On/Off status to be acquired. Commands which control the focusing are also described in section “4.2.1.1 Focus” of “4.2 Camera control”.

Table 4.1.2.2 Focus

| Command name | Category | Command | Data value | Setting | Remarks |
|--|----------|------------|--------------------------------|---|--|
| Focus (position control command) | Control | #AXF[Data] | 555h | Near | <ul style="list-style-type: none"> Invalid when auto focus is On When the value is F93h, it is set to infinity <p>※Not supported by the AJ-CX4000/AJ-UPX900</p> |
| | Response | axf[Data] | ~ F93h | ~ Far(∞) | |
| Focus (position control) query command | Request | #AXF | None | | <ul style="list-style-type: none"> The data value differs depending on the responses to the control command and query command If the value is greater than F93h, it is set to over infinity <p>※In the case of AJ-CX4000/ AJ-UPX900, the availability depends on the lens.</p> |
| | Response | axf[Data] | 555h ~ FFFh | Near ~ Far(over ∞) | |
| Focus position query command | Request | #GF | None | | |
| | Response | gf[Data] | 555h ~ FFFh | Near ~ Far | |
| Focus (speed control) control command | Control | #F[Data] | 01 | Near Max. Speed | <ul style="list-style-type: none"> Focusing speed to be controlled Invalid when auto focus is On <p>※Not supported by the AJ-CX4000/AJ-UPX900</p> |
| | Response | fS[Data] | ~ 49 50 51 ~ 99 | ~ Near Min. Speed Focus Stop Far Min. Speed ~ Far Max. Speed | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|-----------|------------|-------------------------|--|
| Auto focus On/Off control command | Control | #D1[Data] | 0 | Off(Manual) On(auto) | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | d1[Data] | 1 | | |
| Auto focus On/Off query command | Request | #D1 | None | Off(Manual) On(auto) | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | d1[Data] | 0 1 | | |

4.1.2.3 Iris

These commands control the iris (between Close and Open) of the camera and enable the current iris position to be acquired. In addition they enable Auto/Manual control of the iris and the current iris Auto/Manual statuses to be acquired. Commands which control the iris are also described in section “4.2.1.2 Iris” of “4.2 Camera control”.

Table 4.1.2.3 Iris

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------------|----------|------------|-------------------|------------------------------|--|
| Iris position control command | Control | #I | 01 | Iris Close ~ Iris Open | • If the Iris mode is Auto, the camera reply an error response. |
| | Response | iC[Data] | ~ 99 | | |
| Iris position query command | Request | #I | None | | |
| | Response | iC[Data] | 01 ~ 99 | Iris Close ~ Iris Open | |
| Iris position control command | Control | #AXI[Data] | 555h | Iris Close ~ Iris Open | |
| | Response | axi[Data] | ~ FFFh | | |
| Iris position query command | Request | #AXI | None | | |
| | Response | axi[Data] | 555h ~ FFFh | Iris Close ~ Iris Open | |
| Iris position | Request | #GI | None | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------------|----------|------------------|---|--|---------|
| Auto/Manual query command | Response | gi[Data1][Data2] | [Data1] 555h ~ FFFh [Data2] 0 1 | Iris Close ~ Iris Open Manual Iris Auto Iris | |
| Auto Iris On/Off control command | Control | #D3[Data] | 0 | Manual Iris | |
| | Response | d3[Data] | 1 | Auto Iris | |
| Auto Iris On/Off query command | Request | #D3 | None | | |
| | Response | d3[Data] | 0 1 | Manual Iris Auto Iris | |

4.1.3 Tally

These commands control the tally On/Off of the camera and enable the current tally On/Off to be acquired. Commands which control the tally settings are also described in section “4.2.17 Tally settings” of “4.2 Camera control”.

Table 4.1.3.1 Tally

| Command name | Category | Command | Data value | Setting | Remarks |
|--------------------------------|----------|-----------|------------|---------------------------|---------|
| R-Tally On/Off control command | Control | #DA[Data] | 0 | R-Tally Off | |
| | Response | dA[Data] | 1 | R-Tally On | |
| R-Tally On/Off query command | Request | #DA | None | | |
| | Response | dA[Data] | 0 1 | R-Tally Off R-Tally On | |

4.2 Camera control

The camera control commands are based on the HTTP1.1 communication specifications. Their format is given below.

【Command format】

[Send]

http://[IP Address]/cgi-bin/aw_cam?cmd=[Command]&res=[Type]

where

※IP Address..... IP address of camera at connection destination

※Command..... Details given in “Command” column in the command tables below

※Type..... Normally “1” (but “0” for the AWB[OWS] and ABB[OAS] commands)

[Receive] 200 OK “Command”

※Command..... Response value of each command; set in the HTTP message body

There is no response in the case of an AWB or ABB command whose Type is 0.

Example: Focus setting = Auto

[Send]

http://192.168.0.10/cgi-bin/aw_cam?cmd=OAF:0&res=1

[Receive]

200 OK “OAF:0”

Given below is the sequence used when communication has been performed in accordance with the command format described on the previous page.

【Sequence】

“PC1” is the control terminal in the sequence below.

Example: Focus setting = Auto

Camera IP Address = 192.168.0.10

Command = OAF:1

Auto focus control is performed from PC1, and [200 OK “OAF:1”] is returned as the response. Both a control command and query command are available as the camera control commands. Given below is the command sequence.

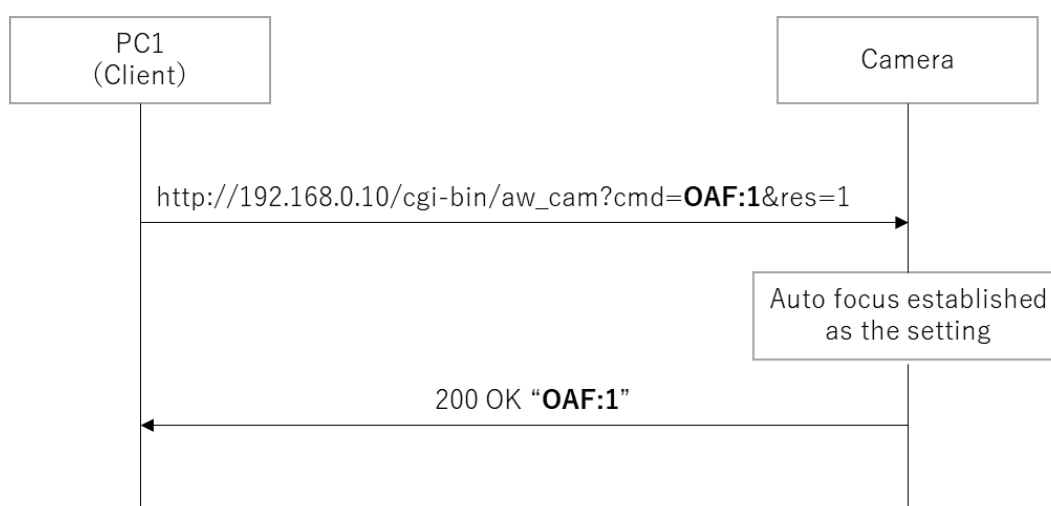


Figure 4.1.3-1 Camera control command sequence

For more details, please check the documents below for PTZ Camera Control Protocol.

https://www.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/HE50_120_IP/HDIntegratedCamera_InterfaceSpecifications-E.pdf

4.2.1 Lens operations

4.2.1.1 Focus

These commands exercise Auto/Manual control of the focusing and one-touch auto focus control of the camera. Commands which control the focusing are also described in section “4.1.2.2 Focus” of “4.1 Pan-tilt head control”

Table 4.2.1.1 Focus

| Command name | Category | Command | Data value | Setting | Remarks |
|-----------------------------------|----------|---------------|------------|----------------|--|
| Focus Auto/Manual control command | Control | OAF:[Data] | 0 | Manual | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OAF:[Data] | 1 | Auto | |
| Focus Auto/Manual query command | Request | QAF | None | | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OAF:[Data] | 0 1 | Manual Auto | |
| One-touch focus control command | Control | OSE:69:[Data] | 1 | One Touch AF | <ul style="list-style-type: none"> One-touch focus On control ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSE:69:1 | | | |

4.2.1.2 Iris

These commands control the iris (between Close and Open) of the camera and enable the current iris position to be acquired. They also enable iris Auto/Manual to be controlled and the iris Auto/Manual status to be checked. Commands which control the iris are also described in section “4.1.2.3 Iris” of “4.1 Pan-tilt head control”.

Table 4.2.1.2 Iris

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------------|----------|------------|------------|---------|--|
| Iris Auto/Manual control command | Control | ORS:[Data] | 0 | Manual | <ul style="list-style-type: none"> This command restores the held manual iris setting when control is switched from Auto to Manual. |
| | Response | ORS:[Data] | 1 | Auto | |

| Command name | Category | Command | Data value | Setting | Remarks |
|--|----------|---------------|-----------------|-------------------|---|
| Iris Auto/Manual query command | Request | QRS | None | | |
| | Response | ORS:[Data] | 0 1 | Manual Auto | |
| Picture level Auto Iris offset control command | Control | OSD:48:[Data] | 00h | -50 | |
| | Response | OSD:48:[Data] | ~ | ~ | |
| | | | 31h | -1 | |
| | | | 32h | 0 | |
| | | | 33h | +1 | |
| | | | ~ 64h | ~ +50 | |
| Picture level Auto Iris offset query command | Request | QSD:48 | None | | |
| | Response | OSD:48:[Data] | 00h | -50 | |
| | | | ~ | ~ | |
| | | | 31h | -1 | |
| | | | 32h | 0 | |
| | | | 33h ~ 64h | +1 ~ +50 | |
| Iris volume control command | Control | ORV:[Data] | 000h | Close | Iris volume control(Manual) |
| | Response | ORV:[Data] | ~ 3FFh | ~ Open | |
| Iris volume query command | Request | QRV | None | | Iris volume status request |
| | Response | ORV:[Data] | 000h | Close | |
| | | | ~ 3FFh | ~ Open | |
| | Request | QSD:4F | None | | Iris volume status request |
| | Response | OSD:4F:[Data] | 00h | Close | |
| | | | ~ FFh | ~ Open | |
| Auto iris speed control command | Control | OSJ:01:[Data] | 0h | Slow | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSJ:01:[Data] | 1h | Normal | |
| | | | 2h | Fast | |
| Auto iris speed query command | Request | QSJ:01 | None | | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSJ:01:[Data] | 0h | Slow | |
| | | | 1h 2h | Normal Fast | |
| Auto iris window control command | Control | OSJ:02:[Data] | 0h | Normal1 | |
| | Response | OSJ:02:[Data] | 1h 2h | Normal2 Center | |

| Command name | Category | Command | Data value | Setting | Remarks |
|--------------------------------|----------|---------------|------------|---------|---------|
| Auto iris window query command | Request | QSI:02 | None | | |
| | Response | OSI:02:[Data] | 0h | Normal1 | |
| | | | 1h | Normal2 | |
| | | | 2h | Center | |

4.2.1.3 ND filter setting

These commands control the ND filter of the camera, and they enable the ND filter status to be acquired.

Table 4.2.1.3 ND filter setting

| Command name | Category | Command | Data value | Setting | Remarks |
|---------------------------|----------|------------|------------|---------|---|
| ND filter control command | Control | OFT:[Data] | 0 | Through | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OFT:[Data] | 1 | 1/4 | |
| | | | 2 | 1/16 | |
| | | | 3 | 1/64 | |
| ND filter query command | Request | QFT | None | | |
| | Response | OFT:[Data] | 0 | Through | |
| | | | 1 | 1/4 | |
| | | | 2 | 1/16 | |
| | | | 3 | 1/64 | |
| | | | 15 | NG | |

4.2.2 Color Bars setting

These commands enable color bar/camera to be switched, the color bar setup to be set and the current settings to be acquired.

Table 4.2.2.1 Color Bars

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------------|----------|------------|------------|----------------------|---------|
| Color bar/Camera control command | Control | DCB:[Data] | 0 | Camera | |
| | Response | DCB:[Data] | 1 | Color Bars | |
| Color bar/Camera Query command | Request | QBR | None | | |
| | Response | OBR:[Data] | 0 1 | Camera Color Bars | |

4.2.3 Scene file setting

These commands specify the scene files of the camera and enable the settings of the currently selected scene file to be acquired.

Table 4.2.3.1 Scene file setting

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------|----------|------------|------------|---------|---------|
| Scene file control command | Control | XSF:[Data] | 0 | Scene1 | |
| | Response | XSF:[Data] | 1 | Scene2 | |
| | | | 2 | Scene3 | |
| | | | 3 | Scene4 | |
| | | | 4 | Scene5 | |
| | | | 5 | Scene6 | |
| Scene file query command | Request | QSF | None | | |
| | Response | OSF:[Data] | 0 | Scene1 | |
| | | | 1 | Scene2 | |
| | | | 2 | Scene3 | |
| | | | 3 | Scene4 | |
| | | | 4 | Scene5 | |
| | | | 5 | Scene6 | |

4.2.4 Shutter mode setting

These commands control the shutter of the camera and enable the currently set shutter mode to be acquired.

Table 4.2.4.1 Shutter mode setting

| Command name | Category | Command | Data value | Setting | Remarks |
|------------------------------------|----------|---------------|------------|---------|---|
| Auto shutter limit control command | Control | OSD:BF:[Data] | 2 | 1/100 | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSD:BF:[Data] | 3 | 1/120 | |
| | | | 4 | 1/250 | |
| Auto shutter limit query command | Request | QSD:BF | None | | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSD:BF:[Data] | 2 | 1/100 | |
| | | | 3 | 1/120 | |
| | | | 4 | 1/250 | |

4.2.5 Gain setting

These commands enable the gain settings of the camera to be established and the current settings to be acquired.

Table 4.2.5.1 Gain settings

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------|----------|------------|------------|-----------------|---|
| Gain control command | Control | OGU:[Data] | 02h | -6dB | <ul style="list-style-type: none"> Value can be set in increments of 1dB For the AG-CX350/AJ-UPX360/AG-CX200, to control AGC ON/OFF, set the Auto/Manual switch on the camera body to Auto If 02h to 32h is set when AGC is ON, the operation is the same as when 81h is set |
| | Response | OGU:[Data] | ~ | ~ | |
| | | | 05h | -3dB | |
| | | | ~ | ~ | |
| | | | 08h | 0dB | |
| | | | ~ | ~ | |
| | | | 11h | 9dB | |
| | | | ~ | ~ | |
| | | | 1Ah | 18dB | |
| | | | ~ | ~ | |
| | | | 32h | 42dB | |
| | | | 80h | Auto(AGC ON) | |
| | | | 81h | Manual(AGC OFF) | |

| Command name | Category | Command | Data value | Setting | Remarks |
|--|----------|---------------|------------|--------------|---------|
| Gain query command | Request | QGU | None | | |
| | | OGU:[Data] | 02h | -6dB | |
| | | | ~ | ~ | |
| | | | 05h | -3dB | |
| | | | ~ | ~ | |
| | | | 08h | 0dB | |
| | | | ~ | ~ | |
| | | | 11h | 9dB | |
| | | | ~ | ~ | |
| | | | 1Ah | 18dB | |
| | | | ~ | ~ | |
| | | | 32h | 42dB | |
| | | | 80h | Auto(AGC ON) | |
| AGC maximum gain value control command | Control | OSD:69:[Data] | 0 | 3dB | |
| | Response | OSD:69[Data] | 1 | 6dB | |
| | | | 2 | 12dB | |
| | | | 3 | 18dB | |
| AGC maximum gain value query command | Request | QSD:69 | None | | |
| | Response | OSD:69:[Data] | 0 | 3dB | |
| | | | 1 | 6dB | |
| | | | 2 | 12dB | |
| | | | 3 | 18dB | |

4.2.6 Color settings

4.2.6.1 R/B gain settings

These commands control the R/B gain levels of the camera, and they enable the current settings to be acquired.

Table 4.2.6.1 R/B gain settings

| Command name | Category | Command | Data value | Setting | Remarks |
|------------------------|----------|---------------|------------|---------|---------|
| R gain control command | Control | ORI:[Data] | 000h | -200 | |
| | Response | ORI:[Data] | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 12Ch | +200 | |
| R gain query command | Request | QRI | None | | |
| | Response | ORI:[Data] | 000h | -200 | |
| | | | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| R gain control command | Control | OSG:39:[Data] | 738h | -200 | |
| | Response | OSG:39:[Data] | ~ | ~ | |
| | | | 800h | 0 | |
| | | | ~ | ~ | |
| | | | 8C8h | +200 | |
| R gain query command | Request | QSG:39 | None | | |
| | Response | OSG:39 | 738h | -200 | |
| | | | ~ | ~ | |
| | | | 800h | 0 | |
| | | | ~ | ~ | |
| B gain control command | Control | OBI:[Data] | 000h | -200 | |
| | Response | OBI:[Data] | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 12Ch | +200 | |
| B gain query command | Request | QBI | None | | |
| | Response | OBI:[Data] | 000h | -200 | |
| | | | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 12Ch | +200 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|------------------------|----------|---------------|------------|---------|---------|
| B gain control command | Control | OSG:3A:[Data] | 738h | -200 | |
| | Response | OSG:3A:[Data] | ~ | ~ | |
| | | | 800h | 0 | |
| | | | ~ | ~ | |
| | | | 8C8h | +200 | |
| B gain query command | Request | QSG:3A | None | | |
| | Response | OSG:3A:[Data] | 738h | -200 | |
| | | | ~ | ~ | |
| | | | 800h | 0 | |
| | | | ~ | ~ | |
| | | | 8C8h | +200 | |

4.2.6.2 R/B pedestal setting

These commands control the R/B pedestal values of the camera, and they enable the current settings to be acquired.

Table 4.2.6.2 R/B pedestal settings

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------|----------|------------|------------|---------|--|
| R pedestal control command | Control | ORP:[Data] | 032h | -100 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | ORP:[Data] | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 0FAh | +100 | |
| R pedestal query command | Request | QRP | None | | |
| | Response | ORP:[Data] | 032h | -100 | |
| | | | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 0FAh | +100 | |
| B pedestal control command | Control | OBP:[Data] | 032h | -100 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OBP:[Data] | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 0FAh | +100 | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---------------------------------|----------|---------------|------------|---------|--|
| B pedestal query command | Request | QBP | None | | |
| | Response | OBP:[Data] | 032h | -100 | |
| | | | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 0FAh | +100 | |
| Master pedestal control command | Control | OSJ:0F:[Data] | 738h | -200 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:0F:[Data] | ~ | ~ | |
| | | | 800h | 0 | |
| | | | ~ | ~ | |
| | | | 8C8h | +200 | |
| Master pedestal query command | Request | QSJ:0F | None | | |
| | Response | OSJ:0F:[Data] | 738h | -200 | |
| | | | ~ | ~ | |
| | | | 800h | 0 | |
| | | | ~ | ~ | |
| | | | 8C8h | +200 | |
| G pedestal control command | Control | OSJ:10:[Data] | 032h | -100 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:10:[Data] | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 0FAh | +100 | |
| G pedestal query command | Request | QSJ:10 | None | | |
| | Response | OSJ:10:[Data] | 032h | -100 | |
| | | | ~ | ~ | |
| | | | 096h | 0 | |
| | | | ~ | ~ | |
| | | | 0FAh | +100 | |
| Pdestal Offset control command | Control | OSJ:11:[Data] | 0 | Off | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:11:[Data] | 1 | On | |
| Pedestal Offset query command | Request | QSJ:11 | None | | |
| | Response | OSJ:11:[Data] | 0 | Off | |
| | | | 1 | On | |

4.2.6.3 Color matrix settings

These commands control the color matrix of the camera, and they enable the current settings to be acquired.

Table 4.2.6.3 Color matrix setting

| Command name | Category | Command | Data value | Setting | Remarks |
|-----------------------------------|----------|---------------|------------|----------|--|
| Color matrix control command | Control | OSE:31:[Data] | 0 | NORMAL1 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSE:31:[Data] | 1 | NORMAL2 | |
| | | | 2 | FULO. | |
| | | | 3 | CINELIKE | |
| Color matrix query command | Request | QSE:31 | None | | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSE:31:[Data] | 0 | NORMAL1 | |
| | | | 1 | NORMAL2 | |
| | | | 2 | FULO. | |
| Linear matrix R-G control command | Control | OSD:A4:[Data] | 41h | -63 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:A4:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| Linear matrix R-G query command | Request | QSD:A4 | None | | |
| | Response | OSD:A4:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| Linear matrix R-B control command | Control | OSD:A5:[Data] | 41h | -63 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:A5:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| Linear matrix R-B query command | Request | QSD:A5 | None | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|-----------------------------------|----------|---------------|-----------------------------|---------------------------|--|
| query command | Response | OSD:A5:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Linear matrix G-R control command | Control | OSD:A6:[Data] | 41h | -63 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:A6:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Linear matrix G-R query command | Request | QSD:A6 | None | | |
| | Response | OSD:A6:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Linear matrix G-B control command | Control | OSD:A7:[Data] | 41h | -63 | |
| | Response | OSD:A7:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Linear matrix G-B query command | Request | QSD:A7 | None | | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:A7:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Linear matrix B-R control command | Control | OSD:A8:[Data] | 41h | -63 | |
| | Response | OSD:A8:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Linear matrix B-R query command | Request | QSD:A8 | None | | |
| | Response | OSD:A8:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Linear matrix B-G | Control | OSD:A9:[Data] | 41h | -63 | <ul style="list-style-type: none"> Setting cannot be |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|---------------------------|--|
| control command | Response | OSD:A9:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | changed if V-Log has been selected as the Color Setting. |
| Linear matrix B-G query command | Request | QSD:A9 | None | | |
| | Response | OSD:A9:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| | | | | | |
| | | | | | |
| | | | | | |
| Color correction R GAIN/ SATURATION control command | Control | OSD:86:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:86:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| | | | | | |
| | | | | | |
| | | | | | |
| Color correction R GAIN/ SATURATION query command | Request | QSD:86 | None | | |
| | Response | OSD:86:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| | | | | | |
| | | | | | |
| | | | | | |
| Color correction R PHASE control command | Control | OSD:87:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:87:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| | | | | | |
| | | | | | |
| | | | | | |
| Color correction R PHASE query command | Request | QSD:87 | None | | |
| | Response | OSD:87:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| | | | | | |
| | | | | | |
| | | | | | |
| Color correction R_R_YI GAIN/ SATURATION control command | Control | OSD:9C:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:9C:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| | | | | | |
| | | | | | |
| | | | | | |
| Color correction | Request | QSD:9C | None | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|---------------------------|--|
| R_R_YI GAIN/ SATURATION query command | Response | OSD:9C:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction R_R_YI PHASE control command | Control | OSD:9D:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:9D:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction R_R_YI PHASE query command | Request | QSD:9D | None | | |
| | Response | OSD:9D:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction R_YI GAIN/ SATURATION control command | Control | OSD:88:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:88:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction R_YI GAIN/ SATURATION query command | Request | QSD:88 | None | | |
| | Response | OSD:88:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction R_YI PHASE control command | Control | OSD:89:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:89:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction R_YI PHASE query command | Request | QSD:89 | None | | |
| | Response | OSD:89:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction | Control | OSD:9E:[Data] | 41h | -63 | • Setting cannot be |

| Command name | Category | Command | Data value | Setting | Remarks |
|--|----------|---------------|-----------------------------|---------------------------|--|
| R_YI_YI GAIN/ SATURATION control command | Response | OSD:9E:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | changed if V-Log has been selected as the Color Setting. |
| Color correction R_YI_YI GAIN/ SATURATION query command | Request | QSD:9E | None | | |
| | Response | OSD:9E:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction R_YI_YI PHASE control command | Control | OSD:9F:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:9F:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction R_YI_YI PHASE query command | Request | QSD:9F:[Data] | None | | |
| | Response | OSD:9F:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction YI GAIN/ SATURATION control command | Control | OSD:8A:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:8A:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction YI GAIN/ SATURATION query command | Request | QSD:8A | None | | |
| | Response | OSD:8A:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction YI PHASE control command | Control | OSD:8B:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:8B:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction | Request | QSD:8B | None | | |
| | | | | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|---------------------------|--|
| YI PHASE query command | Response | OSD:8B:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction YI_G GAIN/ SATURATION control command | Control | OSD:8C:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:8C:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction YI_G GAIN/ SATURATION query command | Request | QSD:8C | None | | |
| | Response | OSD:8C:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction YI_G PHASE control command | Control | OSD:8D:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:8D:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction YI_G PHASE query command | Request | QSD:8D | None | | |
| | Response | OSD:8D:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction G GAIN/ SATURATION control command | Control | OSD:8E:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:8E:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction G GAIN/ SATURATION query command | Request | QSD:8E | None | | |
| | Response | OSD:8E:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction | Control | OSD:8F:[Data] | 41h | -63 | • Setting cannot be |

| Command name | Category | Command | Data value | Setting | Remarks |
|--|----------|---------------|-----------------------------|---------------------------|--|
| G PHASE control command | Response | OSD:8F:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | changed if V-Log has been selected as the Color Setting. |
| Color correction G PHASE query command | Request | QSD:8F | None | | |
| | Response | OSD:8F:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction G_Cy GAIN/ SATURATION control command | Control | OSD:90:[Data] | 41h | -63 | |
| | Response | OSD:90:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction G_Cy GAIN/ SATURATION query command | Request | QSD:90 | None | | |
| | Response | OSD:90:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction G_Cy PHASE control command | Control | OSD:91:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:91:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction G_Cy PHASE query command | Request | QSD:91 | None | | |
| | Response | OSD:91:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction Cy GAIN/ SATURATION control command | Control | OSD:92:[Data] | 41h | -63 | |
| | Response | OSD:92:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| Color correction | Request | QSD:92 | None | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|---------------------------|--|
| Cy GAIN/ SATURATION query command | Response | OSD:92:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction Cy PHASE control command | Control | OSD:93:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:93:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction Cy PHASE query command | Request | QSD:93 | None | | |
| | Response | OSD:93:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction Cy_B GAIN/ SATURATION control command | Control | OSD:94:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:94:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction Cy_B GAIN/ SATURATION query command | Request | QSD:94 | None | | |
| | Response | OSD:94:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction Cy_B PHASE control command | Control | OSD:95:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:95:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction Cy_B PHASE query command | Request | QSD:95 | None | | |
| | Response | OSD:95:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction | Control | OSD:96:[Data] | 41h | -63 | • Setting cannot be |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|---------------------------|--|
| B GAIN/ SATURATION control command | Response | OSD:96:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | changed if V-Log has been selected as the Color Setting. |
| Color correction B GAIN/ SATURATION query command | Request | QSD:96 | None | | |
| | Response | OSD:96:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction B PHASE control command | Control | OSD:97:[Data] | 41h | -63 | |
| | Response | OSD:97:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction B PHASE query command | Request | QSD:97 | None | | |
| | Response | OSD:97:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction B_Mg GAIN/ SATURATION control command | Control | OSD:80:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:80:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction B_Mg GAIN/ SATURATION query command | Request | QSD:80 | None | | |
| | Response | OSD:80:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction B_Mg PHASE control command | Control | OSD:81:[Data] | 41h | -63 | |
| | Response | OSD:81:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| Color correction | Request | QSD:81 | None | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|---------------------------|--|
| B_Mg PHASE query command | Response | OSD:81:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction Mg GAIN/ SATURATION control command | Control | OSD:82:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:82:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction Mg GAIN/ SATURATION query command | Request | QSD:82 | None | | |
| | Response | OSD:82:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction Mg PHASE Control command | Control | OSD:83:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:83:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction Mg PHASE query command | Request | QSD:83 | None | | |
| | Response | OSD:83:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction Mg_R GAIN/ SATURATION control command | Control | OSD:84:[Data] | 41h | -63 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:84:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ BFh | ~ +63 | |
| Color correction Mg_R GAIN/ SATURATION query command | Request | QSD:84 | None | | |
| | Response | OSD:84:[Data] | 41h | -63 | |
| | | | ~ | ~ | |
| | | | 80h ~ BFh | 0 ~ +63 | |
| Color correction | Control | OSD:85:[Data] | 41h | -63 | • Setting cannot be |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|---------------------------|--|
| Mg_R PHASE control command | Response | OSD:85:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | changed if V-Log has been selected as the Color Setting. |
| Color correction Mg_R PHASE query command | Request | QSD:85 | None | | |
| | Response | OSD:85:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction Mg_R_R GAIN/ SATURATION control command | Control | OSD:9A:[Data] | 41h | -63 | |
| | Response | OSD:9A:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction Mg_R_R GAIN query command | Request | QSD:9A | None | | |
| | Response | OSD:9A:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction Mg_R_R PHASE control command | Control | OSD:9B:[Data] | 41h | -63 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:9B:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction Mg_R_R PHASE query command | Request | QSD:9B | None | | |
| | Response | OSD:9B:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction YI_YI_G GAIN/ SATURATION control command | Control | OSJ:1C:[Data] | 41h | -63 | |
| | Response | OSJ:1C:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| Color correction | Request | QSI:1C | None | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|--|----------|---------------|-----------------------------|---------------------------|--|
| YI_YI_G GAIN/ SATURATION query command | Response | OSJ:1C:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Color correction YI_YI_G PHASE control command | Control | OSJ:1D:[Data] | 41h | -63 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:1D:[Data] | ~ 80h ~ BFh | ~ 0 ~ +63 | |
| Color correction YI_YI_G PHASE query command | Request | QSJ:1D | None | | |
| | Response | OSJ:1D:[Data] | 41h ~ 80h ~ BFh | -63 ~ 0 ~ +63 | |
| Adaptive Matrix control command | Control | OSJ:4F:[Data] | 0 | OFF | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:4F:[Data] | 1 | ON | |
| Adaptive Matrix query command | Request | QSJ:4F | None | | |
| | Response | OSJ:4F | 0 1 | OFF ON | |

4.2.7 Chroma level setting

These commands enable the chroma level of the camera to be set the current setting to be acquired.

Table 4.2.7.1 Chroma level setting

| Command name | Category | Command | Data value | Setting | Remarks |
|------------------------------|----------|---------------|------------|---------|--|
| Chroma level control command | Control | OSD:B0:[Data] | 00h | OFF | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:B0:[Data] | 1Dh | -99% | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | E3h | 99% | |
| Chroma level query command | Request | QSD:B0 | None | | |
| | Response | OSD:B0:[Data] | 00h | OFF | |
| | | | 1Dh | -99% | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | E3h | 99% | |
| Chroma Phase control command | Control | OSJ:0B:[Data] | 61h | -31 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:0B:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 9Fh | +31 | |
| Chroma Phase query command | Request | QSJ:0B | None | | |
| | Response | OSJ:0B:[Data] | 61h | -31 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 9Fh | +31 | |

4.2.8 AWB/ABB setting

These commands select the AWB mode of the camera, execute AWB/ABB and enable the current AWB mode status to be acquired.

Table 4.2.8.1 AWB/ABB setting

| Command name | Category | Command | Data value | Setting | Remarks |
|-------------------------------|----------|------------|------------|---------|--|
| AWB execution control command | Control | OWS | None | | <ul style="list-style-type: none"> There is no response which supports this control command. <p>*This command expects res = 0, but if sent with res = 1, it returns "OWS" as the response value.</p> |
| AWB Mode control command | Control | OAW:[Data] | 0 | ATW | <ul style="list-style-type: none"> When the power is turned off or the controller is removed, it returns to the setting value of the physical switch of the camera. |
| | Response | OAW:[Data] | 1 | A | |
| | | | 2 | B | |
| | | | 3 | VAR | |
| | | | 4 | 3200K | |
| | | | 5 | 5600K | |
| AWB Mode query command | Request | QAW | None | | |
| | Response | OAW:[Data] | 0 | ATW | |
| | | | 1 | A | |
| | | | 2 | B | |
| | | | 3 | VAR | |
| | | | 4 | 3200K | |
| ABB execution control command | Control | OAS | None | | <ul style="list-style-type: none"> There is no response which supports this control command. <p>* This command expects res = 0, but if sent with res = 1, it returns "OAS" as the response value.</p> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|----------------------------|---|---|---|
| Color temperature (increment) control command | Control | OSI:1E:[Data] | 1h | 1 | <ul style="list-style-type: none"> Increment from the current color temperature value. If the WB setting is PRESET 3200K or PRESET 5600K, The VAR setting will change in the background. |
| | Response | OSI:1E:[Data] | ~ Ah | ~ 10 | |
| Color temperature (decrement) control command | Control | OSI:1F:[Data] | 1h | 1 | <ul style="list-style-type: none"> Decrement from the current color temperature value. If the WB setting is PRESET 3200K or PRESET 5600K, The VAR setting will change in the background. |
| | Response | OSI:1F:[Data] | ~ Ah | ~ 10 | |
| Color temperature query command | Request | QSI:20 | Nones | | |
| | Response | OSI:20:[Data1]: [Data2] | [Data1] 00000h ~ FFFFFh [Data2] 0h 1h | 0K ~ 1048575K Valid Invalid | <ul style="list-style-type: none"> Returns the current color temperature value in [Data1]. If the ATW setting is ON, "1h: Invalid" is returned in [Data2]. The range is 2000K ~ 15000K |
| ATW Speed control command | Control | OSI:25:[Data] | 0 | Normal | |
| | Response | OSI:25:[Data] | 1 2 | Slow Fast | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---------------------------------|----------|---------------|------------|---------|---------|
| ATW Speed query command | Request | QSI:25 | None | | |
| | Response | OSI:25:[Data] | 0 | Normal | |
| | | | 1 | Slow | |
| | | | 2 | Fast | |
| AWB gain offset control command | Control | OSJ:0C:[Data] | 0h | Off | |
| | Response | OSJ:0C:[Data] | 1h | On | |
| AWB gain offset query command | Request | QSI:0C | None | | |
| | Response | OSJ:0C:[Data] | 0h | Off | |
| | | | 1h | On | |
| ATW Target R control command | Control | OSJ:0D:[Data] | 76h | -10 | |
| | Response | OSJ:0D:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 8Ah | +10 | |
| ATW Target R query command | Request | QSI:0D | None | | |
| | Response | OSJ:0D:[Data] | 76h | -10 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 8Ah | +10 | |
| ATW Target B control command | Control | OSJ:0E:[Data] | 76h | -10 | |
| | Response | OSJ:0E:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 8Ah | +10 | |
| ATW Target B query command | Request | QSI:0E | None | | |
| | Response | OSJ:0E:[Data] | 76h | -10 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 8Ah | +10 | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|----------------------------|---|---|---|
| AWB COLOR TEMPERATURE INC control command | Control | OSJ:48:[Data] | 1h | 1 | <ul style="list-style-type: none"> If the WB setting is PRESET 3200K or PRESET 5600K, The VAR setting will change in the background. |
| | Response | OSJ:48:[Data] | ~ Ah | ~ 10 | |
| AWB COLOR TEMPERATURE DEC control command | Control | OSJ:49:[Data] | 1h | 1 | <ul style="list-style-type: none"> If the WB setting is PRESET 3200K or PRESET 5600K, The VAR setting will change in the background. |
| | Response | OSJ:49:[Data] | ~ Ah | ~ 10 | |
| AWB COLOR TEMPERATURE query command | Request | QSJ:4A | None | | <ul style="list-style-type: none"> Returns the current color temperature value in [Data1]. If the ATW setting is ON, "1h: Invalid" is returned in [Data2]. The range is 2000K ~ 15000K |
| | Response | OSJ:4A:[Data1]: [Data2] | [Data1] 00000h ~ FFFFFh [Data2] 0h 1h | 0K ~ 1048575K Valid Invalid | |
| AWB R Gain control command | Control | OSJ:4B:[Data] | 670h | -400 | <ul style="list-style-type: none"> If the WB setting is PRESET, this command returns 400 responses. |
| | Response | OSJ:4B:[Data] | ~ 800h ~ 990h | ~ 0 ~ 400 | |
| AWB R Gain query command | Request | QSJ:4B | None | | <ul style="list-style-type: none"> If the WB setting is PRESET, this command returns 400 responses. |
| | Response | OSJ:4B:[Data] | 670h ~ 800h ~ 990h | -400 ~ 0 ~ 400 | |
| AWB B Gain control command | Control | OSJ:4C:[Data] | 670h | -400 | <ul style="list-style-type: none"> If the WB setting is PRESET, this command returns 400 responses. |
| | Response | OSJ:4C:[Data] | ~ 800h ~ 990h | ~ 0 ~ 400 | |

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------|----------|---------------|--------------------------------|----------------------------|--|
| AWB B Gain query command | Request | QSJ:4C | None | | |
| | Response | OSJ:4C:[Data] | 670h ~ 800h ~ 990h | -400 ~ 0 ~ 400 | • If the WB setting is PRESET, this command returns 400 responses. |
| AWB G Axis control command | Control | OSJ:4D:[Data] | 670h | -400 | • If the WB setting is PRESET, this command returns 400 responses. |
| | Response | OSJ:4D:[Data] | ~ 800h ~ 990h | ~ 0 ~ 400 | |
| AWB G Axis query command | Request | QSJ:4D | None | | • If the WB setting is PRESET, this command returns 400 responses. |
| | Response | OSJ:4D:[Data] | 670h ~ 800h ~ 990h | -400 ~ 0 ~ 400 | |

4.2.9 Detail setting

Table 4.2.9.1 Detail setting

| Command name | Category | Command | Data value | Setting | Remarks |
|------------------------|----------|------------|------------|-----------|--|
| Detail control command | Control | ODT:[Data] | 0 | Off | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | ODT:[Data] | 1 | On | |
| Detail query command | Request | QDT | None | | |
| | Response | ODT:[Data] | 0 1 | Off On | |

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------------|----------|---------------|------------|---------|--|
| V Detail Level control command | Control | OSD:A1:[Data] | 79h | -7 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:A1:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 87h | 7 | |
| V Detail Level query command | Request | QSD:A1 | None | | |
| | Response | OSD:A1:[Data] | 79h | -7 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| Detail frequency control command | Control | OSD:A2:[Data] | 79h | -7 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:A2:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 87h | 7 | |
| Detail frequency query command | Request | QSD:A2 | None | | |
| | Response | OSD:A2:[Data] | 79h | -7 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| Master detail control command | Control | OSA:30:[Data] | 61h | -31 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:30:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 9Fh | +31 | |
| Master detail query command | Request | QSA:30 | None | | |
| | Response | OSA:30:[Data] | 61h | -31 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 9Fh | +31 | |

| Command name | Category | Command | Data value | Setting | Remarks |
|-------------------------------------|----------|---------------|-----------------|---------------|--|
| Detail Gain(+) control command | Control | OSA:38:[Data] | 61h | -31 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:38:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ 9Fh | ~ +31 | |
| Detail Gain(+) query command | Request | QSA:38 | None | | |
| | Response | OSA:38:[Data] | 61h | -31 | |
| | | | ~ | ~ | |
| | | | 80h ~ 9Fh | 0 ~ +31 | |
| Detail Gain(-) control command | Control | OSA:39:[Data] | 61h | -31 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:39:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ 9Fh | ~ +31 | |
| Knee aperture level control command | Control | OSG:3F:[Data] | 00h | 0 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSG:3F:[Data] | ~ | ~ | |
| | | | 05h | 5 | |
| Knee aperture level query command | Request | QSG:3F | None | | |
| | Response | OSG:3F:[Data] | 00h | 0 | |
| | | | ~ 05h | ~ 5 | |
| Detail coring control command | Control | OSJ:12:[Data] | 00h | 0 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:12:[Data] | ~ | ~ | |
| | | | 3Ch | 60 | |
| Detail coring query command | Request | QSJ:12 | None | | |
| | Response | OSJ:12:[Data] | 00h | 0 | |
| | | | ~ 3Ch | ~ 60 | |
| Level depend control command | Control | OSJ:13:[Data] | 00h | 0 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:13:[Data] | ~ 3Ch | ~ 60 | |

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------|----------|---------------|------------|---------|---------|
| Level depend query command | Request | QSI:13 | None | | |
| | Response | OSI:13:[Data] | 79h | -7 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 87h | 7 | |

4.2.10 Gamma setting

These commands control the Gamma of the camera and enable the current settings to be acquired.

Table 4.2.10.1 Gamma setting

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------|----------|---------------|------------|-----------|--|
| Gamma type control command | Control | OSE:72:[Data] | 0 | HD | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSE:72:[Data] | 1 | SD | |
| | | | 2 | FILMLIKE1 | |
| | | | 3 | FILMLIKE2 | |
| | | | 4 | FILMLIKE2 | |
| | | | 5 | FILM-REC | |
| | | | 6 | VIDEO-REC | |
| | | | 7 | HLG | |
| Gamma type query command | Request | QSE:72 | None | | |
| | Response | OSE:72:[Data] | 0 | HD | |
| | | | 1 | SD | |
| | | | 2 | FILMLIKE1 | |
| | | | 3 | FILMLIKE2 | |
| | | | 4 | FILMLIKE2 | |
| | | | 5 | FILM-REC | |
| | | | 6 | VIDEO-REC | |
| Gamma control command | Control | OSA:6A:[Data] | 67h | 0.30 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:6A:[Data] | ~ | ~ | |
| | | | 6Ch | 0.35 | |
| | | | ~ | ~ | |
| | | | 80h | 0.55 | |
| | | | ~ | ~ | |
| | | | 94h | 0.75 | |
| | | | | | |
| Gamma query command | Request | QSA:6A | None | | |
| | Response | OSA:6A:[Data] | 67h | 0.30 | |
| | | | ~ | ~ | |
| | | | 6Ch | 0.35 | |
| | | | ~ | ~ | |
| | | | 80h | 0.55 | |
| | | | ~ | ~ | |
| | | | 94h | 0.75 | |

| Command name | Category | Command | Data value | Setting | Remarks |
|-----------------------------------|----------|---------------|------------|---------|---|
| Black gamma control command | Control | OSA:07:[Data] | 78h | -8 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:07:[Data] | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| | | | 88h | +8 | |
| Black gamma query command | Request | QSA:07 | None | | |
| | Response | OSA:07:[Data] | 78h | -8 | |
| | | | ~ | ~ | |
| | | | 80h | 0 | |
| | | | ~ | ~ | |
| Black gamma range control command | Control | OSJ:1B:[Data] | 1h | 1 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSJ:1B:[Data] | 2h | 2 | |
| | | | 3h | 3 | |
| Black gamma range query command | Request | QSJ:1B | None | | |
| | Response | OSJ:1B:[Data] | 1h | 1 | |
| | | | 2h | 2 | |
| F-REC dynamic LVL control command | Control | OSA:10:[Data] | 0 | 200% | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting, or FILM-REC has not been selected as the Gamma Mode Sel. |
| | Response | OSA:10:[Data] | 1 | 300% | |
| | | | 2 | 400% | |
| | | | 3 | 500% | |
| | | | 4 | 600% | |
| F-REC dynamic LVL query command | Request | QSA:10 | None | | |
| | Response | OSA:10:[Data] | 0 | 200% | |
| | | | 1 | 300% | |
| | | | 2 | 400% | |
| | | | 3 | 500% | |
| | | | 4 | 600% | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|---|----------|---------------|-----------------------------|------------------------------|---|
| F-REC black STR LVL control command | Control | OSA:0F:[Data] | 00h | 0 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting, or FILM-REC has not been selected as the Gamma Mode Sel. |
| | Response | OSA:0F:[Data] | ~ | ~ | |
| | | | 1Eh | 30 | |
| F-REC black STR LVL query command | Request | QSA:0F | None | | |
| | Response | OSA:0F:[Data] | 00h | 0 | |
| | | | ~ 1Eh | ~ 30 | |
| V-REC Knee slope control command | Control | OSA:25:[Data] | 7Ch | 150% | (1step=50%) <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting, or VIDEO-REC has not been selected as the Gamma Mode Sel. |
| | Response | OSA:25:[Data] | ~ | ~ | |
| | | | 80h ~ 83h | 350% ~ 500% | |
| V-REC Knee slope query command | Request | QSA:25 | None | | (1step=50%) |
| | Response | OSA:25:[Data] | 7Ch | 150% | |
| | | | ~ 80h ~ 83h | ~ 350% ~ 500% | |
| V-REC Knee point control command | Control | OSA:21:[Data] | 62h | 30% | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting, or VIDEO-REC has not been selected as the Gamma Mode Sel. |
| | Response | OSA:21:[Data] | ~ | ~ | |
| | | | 80h ~ 9Eh ~ AFh | 60% ~ 90% ~ 107% | |

| Command name | Category | Command | Data value | Setting | Remarks |
|--------------------------------------|----------|---------------|------------|---------|---------|
| V-REC Knee point query command | Request | QSA:21 | None | | |
| | Response | OSA:21:[Data] | 62h | 30% | |
| | | | ~ | ~ | |
| | | | 80h | 60% | |
| | | | ~ | ~ | |
| | | | 9Eh | 90% | |
| | | | ~ | ~ | |
| | | | AFh | 107% | |

4.2.11 Digital zoom settings

These commands control the digital zoom of the camera, and they enable the digital zoom settings to be acquired.

Table 4.2.11.1 Digital zoom settings

| Command name | Category | Command | Data value | Setting | Remarks |
|--------------------------|----------|---------------|------------|-----------|--|
| iZoom control command | Control | OSD:B3:[Data] | 0 | Off | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OSD:B3:[Data] | 1 | On | |
| iZoom query command | Request | QSD:B3 | None | | |
| | Response | OSD:B3:[Data] | 0 1 | Off On | ※Not supported by the AJ-CX4000/AJ-UPX900 |

4.2.12 Camera information acquisition

This command enables the camera information to be acquired.

Table 4.2.12.1 Camera information acquisition

| Command name | Category | Command | Data value | Setting | Remarks |
|----------------------------|----------|------------|------------------------------|---------|----------------------------|
| Model number query command | Request | QID | None | | |
| | Response | OID:[Data] | In the case of the AG-CX350 | | |
| | | | AG-CX350 | | Model number of the camera |
| | | | In the case of the AJ-UPX360 | | |
| | | | AJ-UPX360 | | Model number of the camera |
| | | | In the case of the AG-CX200 | | |
| | | | AG-CX200 | | Model number of the camera |
| | | | In the case of the AJ-CX4000 | | |
| | | | AJ-CX4000 | | Model number of the camera |
| | | | In the case of the AJ-UPX900 | | |
| | | | AJ-UPX900 | | Model number of the camera |

4.2.13 Frequency settings

This command enables the system frequency to be acquired.

Table 4.2.13.1 System frequency acquisition

| Command name | Category | Command | Data value | Setting | Remarks |
|-------------------------|----------|---------|------------|--------------------|--|
| Frequency query command | Request | QSE:77 | None | | This command is only available in the following versions and later: <ul style="list-style-type: none"> • AG-CX350 Ver7.00 ~ • AJ-UPX360 Ver7.00 ~ • AG-CX200 Ver7.00 ~ • AJ-CX4000 Ver6.00 ~ • AJ-UPX900 Ver6.00 ~ |
| | Response | OSE:77 | 0 1 | 59.94Hz 50.00Hz | |

4.2.14 Knee settings

These commands control over Knee.

Table 4.2.14.1 Knee setting

| Command name | Category | Command | Data value | Setting | Remarks |
|-----------------------------------|----------|----------------------|------------|----------------|---|
| Knee Mode control command | Control | OSA:2D:[Data] | 0 | OFF | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. For AJ-CX4000/AJ-UPX900, when the power is turned off or the controller is removed, it returns to the setting value of the physical switch of the camera. |
| | Response | OSA:2D:[Data] | 1 | MANUAL | |
| | | | 2 | AUTO | |
| Knee Mode query command | Request | QSA:2D | None | | |
| | Response | OSr trA:2D:[Data] | 0 | OFF | |
| | | | 1 2 | MANUAL AUTO | |
| Master Knee Point control command | Control | OSA:20:[Data] | 22h | 70.00% | (1step=0.5%) <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:20:[Data] | ~ | ~ | |
| | | | 4Ah | 80.00% | |
| | | | ~ | ~ | |
| | | | 80h | 93.50% | |
| | | | ~ B6h | ~ 107.00% | |
| Master Knee Point query command | Request | QSA:20 | None | | (1step=0.5%) |
| | Response | OSA:20:[Data] | 22h | 70.00% | |
| | | | ~ | ~ | |
| | | | 4Ah | 80.00% | |
| | | | ~ 80h | ~ 93.50% | |

| Command name | Category | Command | Data value | Setting | Remarks |
|------------------------------------|----------|---------------|----------------------|-----------------------------|---|
| | | | ~ B6h | ~ 107.00% | |
| Master Knee Slope control command | Control | OSA:24:[Data] | 00h | 0 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:24:[Data] | ~ 63h | ~ 99 | |
| Master Knee Slope query command | Request | QSA:24 | None | | |
| | Response | OSA:24:[Data] | 00h ~ 63h | 0 ~ 99 | |
| Auto Knee Response control command | Control | OSG:97:[Data] | 1 | 1 | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSG:97:[Data] | ~ 8 | ~ 8 | |
| Auto Knee Response query command | Request | QSG:97 | None | | |
| | Response | OSG:97:[Data] | 1 ~ 8 | 1 ~ 8 | |
| HLG Knee SW control command | Control | OSI:40:[Data] | 0 | OFF | • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSI:40:[Data] | 1 | ON | |
| HLG Knee SW query command | Request | QSI:40 | None | | |
| | Response | OSI:40:[Data] | 0 1 | OFF ON | |
| HLG Knee point control command | Control | OSI:41:[Data] | 1Ch | 55.00 | (1step=0.25%) Valid for 4 step units only: 1% increments • Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSI:41:[Data] | ~ 80h ~ D0h | ~ 80.00% ~ 100.00% | |
| HLG Knee point | Request | QSI:41 | None | | |

| Command name | Category | Command | Data value | Setting | Remarks |
|-------------------------------|----------|---------------|-----------------------------|--------------------------------------|--|
| query command | Response | OSI:41:[Data] | 1Ch ~ 80h ~ D0h | 55.00 ~ 80.00% ~ 100.00% | (1step=0.25%) Valid for 4 step units only: 1% increments |
| HLG Knee slop control command | Control | OSI:42:[Data] | 00h | 0 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSI:42:[Data] | ~ 64h | ~ 100 | |
| HLG Knee slop query command | Request | QSI:42 | None | | |
| | Response | OSI:42:[Data] | 00h ~ 64h | 0 ~ 100 | |

4.2.15 White Clip setting

These commands control over White Clip.

Table 4.2.15.1 White Clip setting

| Command name | Category | Command | Data value | Setting | Remarks |
|-------------------------------------|----------|---------------|-----------------|------------------|---|
| White Clip settings control command | Control | OSA:2E:[Data] | 0 | OFF | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSA:2E:[Data] | 1 | ON | |
| White Clip settings query command | Request | QSA:2E | None | | |
| | Response | OSA:2E:[Data] | 0 1 | OFF ON | |
| White Clip Level control command | Control | OSA:2A:[Data] | 00h | 90% | <ul style="list-style-type: none"> When [Knee Mode] is set to Auto and the White Clip value is changed, the Knee value will also change. Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | | ~ 13h | ~ 109% | |
| White Clip Level query command | Request | QSA:2A | None | | |
| | Response | OSA:2A:[Data] | 00h ~ 13h | 90% ~ 109% | |

4.2.16 OIS settings

These commands control over OIS.

Table 4.2.16.1 OIS settings

| Command name | Category | Command | Data value | Setting | Remarks |
|------------------------------|----------|------------|------------|-----------|---|
| OIS settings control command | Control | OIS:[Data] | 0 | Off | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OIS:[Data] | 1 | On | |
| OIS settings query command | Request | QIS | None | | ※Not supported by the AJ-CX4000/AJ-UPX900 |
| | Response | OIS:[Data] | 0 1 | Off On | |

4.2.17 Tally settings

These commands perform ON/OFF controls for tallies.

Table 4.2.17.1 Tally settings

| Command name | Category | Command | Data value | Setting | Remarks |
|--------------------------------------|----------|------------|------------|-----------|---------|
| RED tally settings control command | Control | TLR:[Data] | 0 | Off | |
| | Response | TLR:[Data] | 1 | On | |
| RED tally settings query command | Request | QLR | None | | |
| | Response | TLR:[Data] | 0 1 | Off On | |
| GREEN tally settings control command | Control | TLG:[Data] | 0 | Off | |
| | Response | TLG:[Data] | 1 | On | |
| GREEN tally settings query command | Request | QLG | None | | |
| | Response | OLG:[Data] | 0 1 | Off On | |

4.2.18 SKIN TONE DETAIL settings

These commands configure the skin tone detail settings and acquire the current setting values.

Table 4.2.18.1 SKIN TONE DETAIL settings

| Command name | Category | Command | Data value | Setting | Remarks |
|--|----------|---------------|-----------------|--------------|---|
| SKIN TONE DETAIL control command | Control | OSA:40:[Data] | 0 | Off | <ul style="list-style-type: none"> This command controls SKIN TONE DTL A ON/OFF. This setting is OFF if V-Log has been selected as the Color Setting. |
| | Response | OSA:40:[Data] | 1 | On | |
| SKIN TONE DETAIL query command | Request | QSA:40 | None | | |
| | Response | OSA:40:[Data] | 0 1 | Off On | |
| SKIN DETAIL EFFECT control command | Control | OSD:A3:[Data] | 80h | 0 | <ul style="list-style-type: none"> Setting cannot be changed if V-Log has been selected as the Color Setting. |
| | Response | OSD:A3:[Data] | ~ 9Fh | ~ 31 | |
| SKIN DETAIL EFFECT query command | Request | QSD:A3 | None | | |
| | Response | OSD:A3:[Data] | 80h ~ 9Fh | 0 ~ 31 | |

4.3 Video transmission and network application control

The video transmission and network application control commands are in compliance with the HTTP1.1 communication specifications. Their format is given below.

【Command format】

[Send]

http://[IP Address]/cgi-bin/[Command]?[Parameter name]=[Parameter value]

where

※IP Address..... IP address of camera at connection destination

※Command..... Details given in “Command” column in the command tables below

※Parameter name.... Details given in “Parameter name” column in the command tables below

※Parameter value..... Details given in “Command” column in the command tables below

[Receive] 200 OK “Command”

※Command..... Response value of each command; set in the HTTP message body

Example: Basic Settings Information Acquisition

[Send]

http://192.168.0.10/cgi-bin/get_basic

[Receive]

200 OK

cam_title = AG-CX350

plugin_download = disable

plugin_disp = 0

4.3.1 Device Information Acquisition

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|--------------------------------|------------------|----------------|-----------------|------------|
| Device information acquisition | /cgi-bin/getinfo | FILE | 1 | • 1(Fixed) |

Usage example) Acquisition of user ID (during H264(1) transmission)

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

The response data is as shown below.

MAC=< Mac address >[CR][LF]

SERIAL=< Serial number >[CR][LF]

VERSION=< Firmware version >[CR][LF]

NAME=< Model name >[CR][LF]

SDrec=< Recording status >[CR][LF]

SDrec2=< Recording status >[CR][LF]

sAlarm=< Alarm status >[CR][LF]

sAUX=< Aux status >[CR][LF]

ePort=< Event notification port number >[CR][LF]

aEnable=< Audio mode>[CR][LF]

aEnc=< Audio enc >[CR][LF]

aBitrate=< Audio bit rate >[CR][LF]

aBitrate2=< Audio bit rate >[CR][LF]

aInterval=< Audio input interval >[CR][LF]

aOutInterval=< Audio output interval >[CR][LF]

aOutPort=< Audio output port >[CR][LF]

aOutStatus=< Audio output status >[CR][LF]

aOutUID=< Audio output UID >[CR][LF]

aInPort_h264=< Audio with H.264/H.265 1st stream unicast port number >[CR][LF]

aInPort_h264_2=< Audio with H.264/H.265 2nd stream unicast port number >[CR][LF]

aInPort_h264_3=< Audio with H.264 3rd stream unicast port number >[CR][LF]

aInPort_h264_4=< Audio with H.264 4th stream unicast port number >[CR][LF]

sRtspMode_h264=< Control mode H.264(1)/H.265(1) >[CR][LF]

```

sRtspMode_h264_2=< Control mode H.264(2)/H.265(2) >[CR][LF]
sRtspMode_h264_3=< Control mode H.264(3) >[CR][LF]
sRtspMode_h264_4=< Control mode H.264(4) >[CR][LF]
ImageCaptureMode=< Image Capture Mode >[CR][LF]
ratio=< Aspect ratio >[CR][LF]
Maxfps=< Max fps >[CR][LF]
StreamMode=< Stream mode >[CR][LF]
StreamEncode=< Encode Type>[CR][LF]
iTransmit_h264=< H.264/H.265 1st stream ON/OFF setting >
sDelivery_h264=< H.264/H.265 1st stream setting >[CR][LF]
iBitrate_h264=< H.264/H.265 1st stream bit rate >[CR][LF]
iResolution_h264=< H.264/H.265 1st stream resolution >[CR][LF]
iQuality_h264=< H.264/H.265 1st stream quality >[CR][LF]
iMultiAuto_h264=< Multicast auto H.264(1)/H.265 >[CR][LF]
iTransmit_h264_2=< H.264/H.265 2nd stream ON/OFF setting >
sDelivery_h264_2=< H.264/H.265 2nd stream setting >[CR][LF]
iBitrate_h264_2=< H.264/H.265 2nd stream bit rate >[CR][LF]
iResolution_h264_2=< H.264/H.265 2nd stream resolution >[CR][LF]
iQuality_h264_2=< H.264/H.265 2nd stream quality >[CR][LF]
iMultiAuto_h264_2=< Multicast auto H.264(2) >[CR][LF]
iTransmit_h264_3=< H.264 3rd stream ON/OFF setting >
sDelivery_h264_3=< H.264 3rd stream setting >[CR][LF]
iBitrate_h264_3=< H.264 3rd stream bit rate >[CR][LF]
iResolution_h264_3=< H.264 3rd stream resolution >[CR][LF]
iQuality_h264_3=< H.264 3rd stream quality >[CR][LF]
iMultiAuto_h264_3=< Multicast auto H.264(3) >[CR][LF]
iTransmit_h264_4=< H.264 4th stream ON/OFF setting >
sDelivery_h264_4=< H.264 4th stream setting >[CR][LF]
iBitrate_h264_4=< H.264 4th stream bit rate >[CR][LF]
iResolution_h264_4=< H.264 4th stream resolution >[CR][LF]
iQuality_h264_4=< H.264 4th stream quality >[CR][LF]
iMultiAuto_h264_4=< Multicast auto H.264(4) >[CR][LF]

```


The description of the response data is as shown below.

| Item | Value of response | Remarks |
|------------------|------------------------------|--|
| MAC | XX-XX-XX-XX-XX-XX | • MAC address |
| SERIAL | XXXXXXXXXX | • Product serial number |
| VERSION | | • Software version |
| NAME | XX-XXXX | • Product number e.g.)AG-CX350 |
| SDrec | disable | • Fixed value |
| SDrec2 | disable | • Fixed value |
| sAlarm | off | • Fixed value |
| sAUX | off | • Fixed value |
| ePort | 31004 | • Fixed value |
| aEnable | off, in | • off: Audio OFF • in: Audio ON(reception) |
| aEnc | 2 | • Fixed value(2: AAC) |
| aBitrate | 128, 96, 64 | • Bit rate setting of audio |
| aBitrate2 | 64 | • Fixed value |
| aInterval | 20 | • Fixed value |
| aOutInterval | 640 | • Fixed value |
| aOutPort | 34004 | • Fixed value |
| aOutStatus | off | • Fixed value |
| aOutUID | 0 | • Fixed value |
| aInPort_h264 | 1024 to 50000 | • H.264(1)/H.265 Audio reception port number |
| aInPort_h264_2 | 1024 to 50000 | • H.264(2) Audio reception port number |
| aInPort_h264_3 | 1024 to 50000 | • H.264(3) Audio reception port number |
| aInPort_h264_4 | 1024 to 50000 | • H.264(4) Audio reception port number |
| ImageCaptureMode | 2m | • Fixed value |
| ratio | 16_9 | • Fixed value |
| Maxfps | 30, 60 | • Max. frame rate |
| StreamMode | 1 | • Fixed value |
| StreamEncode | 1, 2 | • 1: H.264 • 2: H.265 |
| iTransmit_h264 | 1 | • Fixed value |
| sDelivery_h264 | uni, multi, uni_manual | • uni: Unicast(auto) • multi: Multicast • uni_manual Unicast(manual) |
| iBitrate_h264 | Numeric value | • Bit rate setting of H.264(1)/H.265 |
| iQuality_h264 | 320, 640, 1280, 1920, 3840 | • Horizontal resolution setting of H.264(1)/H.265 |
| iMultiAuto_h264 | 0 | • Fixed value |
| iTransmit_h264_2 | see.H.264(1) | see.H264(1) |
| sDelivery_h264_2 | | |

| Item | Value of response | Remarks |
|--------------------|-------------------|--------------|
| iBitrate_h264_2 | | |
| iResolution_h264_2 | see.H.264(1) | see.H.264(1) |
| iQuality_h264_2 | | |
| iMultiAuto_h264_2 | | |
| iTransmit_h264_3 | | |
| sDelivery_h264_3 | see.H.264(1) | see.H.264(1) |
| iBitrate_h264_3 | | |
| iResolution_h264_3 | | |
| iQuality_h264_3 | | |
| iMultiAuto_h264_3 | | |
| iTransmit_h264_4 | | |
| sDelivery_h264_4 | see.H.264(1) | see.H.264(1) |
| iBitrate_h264_4 | | |
| iResolution_h264_4 | | |
| iQuality_h264_4 | | |
| iMultiAuto_h264_4 | | |

4.3.2 JPEG-based Image Transmission

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|---------------------------|-------------------|----------------|-----------------|---|
| JPEG image 1 shot request | /cgi-bin/view.cgi | action | snapshot | <p>Acquires one JPEG image</p> <p>CX series cameras only support "snapshot".</p> <p>This command is only available in the following versions and later:</p> <ul style="list-style-type: none"> • AG-CX350 Ver7.00 ~ • AJ-UPX360 Ver7.00 ~ • AG-CX200 Ver7.00 ~ • AJ-CX4000 Ver6.00 ~ • AJ-UPX900 Ver6.00 ~ |

[Note]

JPEG image 1shot

By repeating the processes of acquisition, display, and standby for a single JPEG image, a movie display can be realized.

The frame rate is decided according to the standby time in the software and hardware at the receiving side.

In the AJ-CX4000/AJ-UPX900, the resolution of JPEG images is fixed at 416 x 240. In the AG-CX350/AJ-UPX360/AG-200, the resolution of JPEG images is fixed by the camera settings. If the aspect ratio is 16: 9, it is fixed at 416 x 240, and if it is 4: 3, it is fixed at 320 x 240.

If the recording format is 4K, the image of the CX series logo will be output.

4.3.3 Basic Settings Information Acquisition

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|--|--------------------|----------------|-----------------|---------|
| Basic settings information acquisition | /cgi-bin/get_basic | | | |

The response data is as shown below.

cam_title = Camera title

plugin_download = disable (Fixed value in the CX series)

plugin_disp = 0 (Fixed value for CX series)

4.3.4 VideoOverIP Screen Information Acquisition

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|--|----------------------------|----------------|-----------------|---|
| VideoOverIP screen information acquisition | /cgi-bin/get_video_over_ip | | | <ul style="list-style-type: none"> The response is issued in a random order If transmission to a specific ch is not possible due to the specifications, the response for the desired ch is not returned Exampe) if transmission to h264(ch4) is not possible, h264_XXXXX_ch4 is not included in the response. |

The response data is as shown below.

```

cam_title = Camera title

livestart_stream=h264/h264_2/h264_3/h264_4/jpeg/jpeg_2/jpeg_3

jpeg_quality=1/5

jpeg_quality_ch2=1/5

jpeg_quality_ch3=1/5

resol_stream1=320/640/1280/1920/3840

resol_stream2=320/640/1280

resol_stream3=320/640/1280

jpeg_transmit1=0/1

jpeg_transmit2=0/1

jpeg_transmit3=0/1

jpeg_interval1=1/4/5/12/15(12.5)/24/30(25)

jpeg_interval2=1/4/5/12/15(12.5)/24/30(25)

jpeg_interval3=1/4/5/12/15(12.5)/24/30(25)

h264_transmit_ch1=0/1

h264_transmit_ch2=0/1

h264_transmit_ch3=0/1

h264_transmit_ch4=0/1

h264_rtsp_mode_ch1=0/1

```

h264_rtsp_mode_ch2=0/1
h264_rtsp_mode_ch3=0/1
h264_rtsp_mode_ch4=0/1
h264_resolution_ch1=1920/3840
h264_resolution_ch2=320/640/1280/1920
h264_resolution_ch3=320/640/1280
h264_resolution_ch4=320/640/1280
h264_f_priority_ch1=0/1/2
h264_f_priority_ch2=0/1/2
h264_f_priority_ch3=0/1/2
h264_f_priority_ch4=0/1/2
h264_framerate_ch1=5/15(12.5)/24/30(25)/60(50)
h264_framerate_ch2=5/15(12.5)/24/30(25)/60(50)
h264_framerate_ch3=5/15(12.5)/30(25)
h264_framerate_ch4=5/15(12.5)/30(25)
h264_bandwidth_ch1 = Numeric value
h264_bandwidth_ch2 = Numeric value
h264_bandwidth_ch3 = Numeric value
h264_bandwidth_ch4 = Numeric value
h264_bandwidth_min_ch1 = Numeric value
h264_bandwidth_min_ch2 = Numeric value
h264_bandwidth_min_ch3 = Numeric value
h264_bandwidth_min_ch4 = Numeric value
h264_quality_ch1=fine/low1/5
h264_quality_ch2=fine/low1/5
h264_quality_ch3=fine/low1/5
h264_quality_ch4=fine/low1/5
h264_unimulti_ch1=uni/multi/uni_manual
h264_unimulti_ch2=uni/multi/uni_manual
h264_unimulti_ch3=uni/multi/uni_manual
h264_unimulti_ch4=uni/multi/uni_manual
h264_unicast_port_ch1 = Numeric value (1024 to 50000)
h264_unicast_port_ch2 = Numeric value (1024 to 50000)

h264_unicast_port_ch3 = Numeric value (1024 to 50000)
h264_unicast_port_ch4 = Numeric value (1024 to 50000)
h264_unicast_audio_port_ch1 = Numeric value (1024 to 50000)
h264_unicast_audio_port_ch2 = Numeric value (1024 to 50000)
h264_unicast_audio_port_ch3 = Numeric value (1024 to 50000)
h264_unicast_audio_port_ch4 = Numeric value (1024 to 50000)
h264_multicast_addr_ch1=xxx.xxx.xxx.xxx
h264_multicast_addr_ch2=xxx.xxx.xxx.xxx
h264_multicast_addr_ch3=xxx.xxx.xxx.xxx
h264_multicast_addr_ch4=xxx.xxx.xxx.xxx
h264_multicast_port_ch1 = Numeric value (1024 to 50000)
h264_multicast_port_ch2 = Numeric value (1024 to 50000)
h264_multicast_port_ch3 = Numeric value (1024 to 50000)
h264_multicast_port_ch4 = Numeric value (1024 to 50000)
h264_multicast_ttl_ch1 = Numeric value (1 to 254)
h264_multicast_ttl_ch2 = Numeric value (1 to 254)
h264_multicast_ttl_ch3 = Numeric value (1 to 254)
h264_multicast_ttl_ch4 = Numeric value (1 to 254)
h265_transmit_ch1=0/1
h265_rtsp_mode_ch1=0
h265_resolution_ch1=3840
h265_framerate_ch1=24/30(25)
h265_bandwidth_ch1= Numeric value
h265_unimulti_ch1=uni/multi/uni_manual
h265_unicast_port_ch1= Numeric value (1024~50000)
h265_unicast_audio_port_ch1= Numeric value (1024~50000)
h265_multicast_addr_ch1=xxx.xxx.xxx.xxx
h265_multicast_port_ch1= Numeric value (1024~50000)
h265_multicast_ttl_ch1= Numeric value (1~254)

4.3.5 Camera Status Acquisition

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|---------------------------|--------------------|----------------|-----------------|--|
| Camera status acquisition | /cgi-bin/get_state | | | This command is only available in the following versions and later: • AG-CX350 Ver7.00 ~ • AJ-UPX360 Ver7.00 ~ • AG-CX200 Ver7.00 ~ • AJ-CX4000 Ver6.00 ~ • AJ-UPX900 Ver6.00 ~ |

The response data is as shown below.

rec: on/off Is recording in progress or not

rec_counter: hh:mm:ss Recording elapsed time. Fixed at "00:00:00" for the CX series.

ftp_send: on/off Is FTP transfer in progress or not

play: on/off Is playback in progress or not

del_file: on/off Is file deletion in progress or not. Fixed at "off" for the CX series.

download: on/off Is download in progress or not. Fixed at "off" for the CX series.

sd_format: on/off Is SD card formatting in progress or not. Fixed at "off" for the CX series.

sd/sd2/ex1_insert: on/off Has SD card been inserted or not

sd/sd2/ex1_repair: on/off Is SD card being repaired or not. Fixed at "off" for the CX series.

sd/sd2/ex1_error: on/off Is SD card in error state or not.

sd/sd2/ex1_rem: xx SD card remaining amount [Gbyte]. Fixed at "0.0" for the CX series.

sd/sd2/ex1_org: yy SD card capacity [Gbyte]. Fixed at "0.0" for the CX series.

sd/sd2/ex1_protect: on/off Is SD card in protect state or not.

4.3.6 Video Recording Start/End Control

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|--------------------------|-----------------|----------------|-----------------|--|
| MP4 recording to SD card | /cgi-bin/sdctrl | save | start end | start: Recording Start end: Recording end This command is only available when the camera is ready for recording. |

Usage example) Start recording to the SD card.

<http://192.168.0.10/cgi-bin/sdctrl?save=start>

4.3.7 RTMP Stream Control

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|---------------------|--------------------|----------------|-----------------|---|
| RTMP Stream Control | /cgi-bin/rtmp_ctrl | cmd | start stop | start: RTMP Stream Start stop: RTMP Stream Stop This command is only available when RTMP is selected as the streaming protocol. |

Usage example) Start RTMP Streaming.

http://192.168.0.10/cgi-bin/rtmp_ctrl?cmd=start

4.3.8 RTMP Server Setting

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|---------------------|-------------------------|----------------|-----------------|---|
| RTMP Server Setting | /cgi-bin/set_rtmp_param | type | 0 1 | 0: URL, Stream key concatenation 1: URL, Stream key split |
| | | url | String | ServerURL |
| | | key | String | Stream Key *Optional if 0 is specified for type |
| | | | | This command is only available when RTMP is selected as the streaming protocol. This command is only available in the following versions and later: <ul style="list-style-type: none"> • AG-CX350 Ver7.00 ~ • AJ-UPX360 Ver7.00 ~ • AG-CX200 Ver7.00 ~ • AJ-CX4000 Ver6.00 ~ • AJ-UPX900 Ver6.00 ~ |

4.3.9 SRT Stream Control

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|--------------------|-------------------|----------------|-----------------|---|
| SRT Stream Control | /cgi-bin/srt_ctrl | cmd | start stop | start: SRT Stream Start stop: SRT Stream Stop This command is only available when SRT CLIENT is selected as the streaming protocol. |

Usage example) Start SRT Streaming.

http://192.168.0.10/cgi-bin/srt_ctrl?cmd=start

4.3.10 SRT Streaming Settings

Method : GET

| Command name | Command | Parameter name | Parameter value | Remarks |
|-----------------------|-----------------------|----------------|------------------|---|
| SRT Streaming Setting | /cgi-bin/set_srt_info | mode | 0 1 | 0: Client 1: Listener Only 0 is supported in the CX series |
| | | dip_addr | *.*.*.* format | Destination IP address |
| | | dport | Numeric number | Destination Port number |
| | | encryption | 0 1 2 3 | Encryption method 0: OFF 1: AES-128 2: AES-256 3: AES-192 |
| | | passphrase | String | Passphrase |
| | | streamid | String | Stream ID |
| | | | | <p>This command is only available when SRT CLIENT is selected as the streaming protocol.</p> <p>This command is only available in the following versions and later:</p> <ul style="list-style-type: none"> • AG-CX350 Ver7.00 ~ • AJ-UPX360 Ver7.00 ~ • AG-CX200 Ver7.00 ~ • AJ-CX4000 Ver6.00 ~ • AJ-UPX900 Ver6.00 ~ |