

Panasonic
Network Camera
Technical Notes

CGI Specifications
for BB-HCM and BL-C series and BB-HCS
and KX-HCM110,280A and BB-HCE

Ver. 1.06A

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Panasonic Communications Co., Ltd.

Version History

Ver.	Revision	Date
1.00	First version	11.15.2004
1.01	Added commands and parameters for network system cameras such as HCM331.	03.25..2005
1.02	Added commands and parameters for HCM381.	04.04.2005
1.04	Added commands and parameters for HCM110.	06.10.2005
1.05	<p>Added commands and parameters for KX-HCM280A.</p> <p>Added commands and parameters for the new firmware "ver 1.25".</p> <p>Added commands and parameters for HCS301.</p> <p>Note:Cgii/fVer:1.05 is supported HCMxxx models and KX-HCM110 20 camera positions ,Motion detection and Alarm log notification.</p>	09.07.2005
1.06	<p>Added commands and parameters for the new firmware "ver 1.30".</p> <p>Note:Cgii/fVer:1.06 is supported SMTP authentication, New Banner, UPnP, DDNS, UPnP Status, Error Log, HTTP Notification ,and Indicator Display.</p>	02.03.2006
1.06A	Added BB-HCE481,BL-C1,C20,BB-HCM403 supported camera.	01.31.2007

Table of Contents

1. NOTICE	- 5 -
2. NOTES	- 5 -
3. COMMAND LIST	- 12 -
3.1 Camera information setting, retrieval (Set, Get)	- 12 -
3.1.1 Camera information setting, retrieval (Set, Get) Func=CameraName	- 12 -
3.1.2 Camera Home Position white balance information setting, retrieval (Set, Get) Func=CameraWB	- 13 -
3.1.3 Specified position return time, position setting, retrieve (Set,Get) Func=CameraHT	- 14 -
3.1.4 Specified position return time, position setting, retrieve for 20 Camera Position (Set,Get)	- 16 -
3.2 Clock setting, retrieval (Set, Get) Func=Date	- 18 -
3.3 Administrator information setting (Set) Func=Admin	- 20 -
3.4 Buffer/transfer image setting, retrieval (Set, Get) Func=ImageTransfer	- 21 -
3.5.1 Preset setting, retrieval (Set, Get) Func=PresetName	- 30 -
3.5.2 Preset setting, retrieval for 20 Preset Camera(Set, Get) Func=PresetNamePos	- 31 -
3.6 Restart (Set) Func=Restart	- 34 -
3.7 Camera control, control information setting, retrieval (Set,Get)	- 35 -
3.7.1 Camera Pan control and Pan information setting, retrieval (Set,Get) Func=Pan	- 35 -
3.7.2 Camera Pan control and Pan information setting, retrieval (Set,Get)Func=Tilt	- 37 -
3.7.3 Camera Zoom control (Set) Func=Zoom	- 39 -
3.7.4 Camera Focus control and Focus information setting retrieval (Set,Get) Func=Focus	- 40 -
3.8 Private Mode setting, retrieval (Set, Get) Func=Powerdown	- 42 -
3.9 Network setting, retrieval (Set, Get) Func=Network	- 43 -
3.10 Retrieve camera model information (Get) Func=Model	- 45 -
3.11 User information setting, retrieval (Set, Get) Func=User	- 46 -
3.12 Camera control (nphControlCamera)	- 49 -
3.13 MotionJPEG retrieval (Real-time) (nphMotionJpeg)	- 51 -
3.14 SnapshotJPEG retrieval (Real-time retrieval of Snapshot JPEG data)(SnapshotJPEG)	- 52 -
3.15 MotionJPEG retrieval (nphReplayRecord)	- 53 -
3.16 Buffered image retrieval (JPEG retrieval) (BufferingImage)	- 54 -
3.17 Buffered image deletion (Set) Func=ImageTransfer&Kind=n&ClearImage=1	- 55 -
3.18 Retrieving information on wireless radio wave condition (Get) Func=Wireless	- 56 -
3.19 Retrieving total number of frames for buffered images (Get) Func=Playback	- 57 -
3.20 Retrieving sensor detection information (Get) Func=Sensor	- 58 -
3.21 AC power source frequency setting and information retrieval (Set, Get) Func=Powerfrq	- 59 -
3.22 Reset to factory default settings (Set) Func=FactoryDef	- 60 -
3.23 Limit Continuous Motion JPEG setting, retrieval (Set, Get) Func=TopView	- 61 -
3.24 NTP server-related setting, retrieval (Set, Get) Func=Ntp	- 63 -
3.25 Image display (ImageViewer)	- 65 -
3.26 Display the camera name and Capture Image button and audio control (CgiTitle)	- 65 -
3.27 Audio setting, retrieval (Set,Get) Func=AudioSetup	- 66 -
3.28 Network (IPv6) setting, retrieval (Set,Get) Func=V6Network	- 68 -

3.29 Daylight saving time setting, retrieval (Set,Get) Func=Daylight.....	- 70 -
3.30 Color night vision setting, retrieval (Set,Get) Func=NightView.....	- 72 -
3.31.1 Preset control (Set) Func=PresetCnt.....	- 73 -
3.31.2 Preset control for 20 Preset Camera (Set) Func=PresetCntPos.....	- 74 -
3.32 Digital output setting (Set) Func=Doutput	- 75 -
3.33 Image time stamp setting, retrieval (Set,Get) Func=TimeStamp.....	- 76 -
3.34 Audio Retrieval (G.726 speech coder algorithm: Real-time) (nphAudio).....	- 77 -
3.35 Synchronized Image/Audio Retrieval (JPEG/G.726 speech coder algorithm) (nphVideo).....	- 79 -
3.36 Vertical resolution setting, retrieval (Set,Get) Func=OddMode.....	- 80 -
3.37 Alarm log Notification setting, retrieval (Set,Get) Func=AlarmMessage.....	- 81 -
3.38 Motion detection setting, retrieval (Set,Get) Func=MotionDetect.....	- 84 -
3.39 UPnP setting, retrieval (Set,Get) Func=Upnp.....	- 85 -
3.40 Banner setting, retrieval (Set,Get) Func=Banner.....	- 86 -
3.41 DDNS setting, retrieval (Set,Get) Func=DDNS	- 88 -
3.42 Retrieving UPnP Status (Get) Func=UpnpStatus.....	- 90 -
3.43 Retrieving Error Log Information (Get) Func=ErrorLog	- 91 -
3.44 Indicator setting, retrieval (Set,Get) Func=PowerLed	- 92 -
4. ERROR CODES.....	- 94 -
4.1 Error codes during Set.....	- 94 -
4.2 Error codes during Get	- 94 -
5. SAMPLE WEB PAGE.....	- 95 -

1. NOTICE

This document describes the specifications of the new CGI common interface for Panasonic Network Cameras. Also included is a sample program for including live images from a Panasonic Network Camera on a web page.

By sending the CGI commands described in this document to the built-in web server contained in a Panasonic Network Camera, you can program and control the various features provided by the Network Camera. Please refer to this document when including live images from your Network Camera on your web page or when you need to process information from the Network Camera using your own program.

2. NOTES

In no event shall Panasonic make any kind of warranty or representation and be responsible for any expenses, damages or loss incurred using this information.

This information may be changed or updated without notice.

Sample programs included in this document are for reference only. Panasonic cannot provide support regarding the programs described in this document. This document is provided for use by people who are familiar with HTML.

The information in this document is written for use with the following Panasonic Network Cameras:

[Cgii/fVer:1.02]

BL-C10, BL-C30 (firmware Ver 1.20 or later)

BB-HCM311, BB-HCM331, BB-HCM371, BB-HCM381 (firmware Ver 1.03 or later)

KX-HCM280A (firmware Ver 1.09 or later)

(Cgii/fVer.1.03 does not exist.)

[Cgii/fVer.1.04]

KX-HCM110 (firmware Ver 1.23 or later)

[Cgii/fVer:1.05]

The new firmware "Ver 1.25" for KX-HCM110/BB-HCM3xx Series (2005.8.3)

BB-HCS301 (firmware Ver 1.26 or later)

[Cgii/fVer:1.06]

BL-C10 (firmware Ver 1.24 or later)

BL-C30 (firmware Ver 1.30 or later)

BB-HCS301 (firmware Ver 1.30R01 or later)

The new firmware "Ver 1.30" for BB-HCM311/331/371/381/KX-HCM110/280A

The new firmware "Ver 1.29" for BB-HCE481

BL-C1(Ver 1.29 or later)/C20 (Ver 1.30 or later)

BB-HCM403 (firmware Ver 1.33 or later)

(Cgii/fVer: New Camera CGI interface version)

Access by general users to certain parameters described in this document is prohibited based on the access privileges assigned to each general user by the administrator. General users that are allowed to access these parameters are noted throughout this document.

- All parameters are set to the factory default settings at the time of shipment.
- In most situations, the current settings/values contained in the camera will be effective in the event you do not set one of the parameters when using the CGI commands.

For this reason, please set all parameters of the command whenever possible.

The camera will automatically determine which parameters are needed for each command, therefore there is no need to set unused/unavailable parameters. Certain commands have parameters that must be set at the time the command is set; an error will be returned if you do not set one of these required parameters.

- If command parameters are sent to the cameras that are not supported by your camera model, those parameters will be ignored and only the supported parameters will be set.
- When the value for a command parameter is changed, the value shown on the corresponding camera web setting screen will change also.
- If you mistakenly set the same parameter more than once, the first setting will take effect. Example:
Get?Func=PresetName&Kind=2&Kind=1 • • • • Kind=2 is the effective setting
- The character code used for setting text items (such as camera name, preset position name, etc.) is determined by the character code used by the system that is sending the command to the camera. For this reason, it is possible that the text sent to the camera with the Set command will not be displayed correctly when viewing the corresponding camera web setting screen. When sending commands to the camera, we recommend using a system that uses the same character code that will be used when viewing the camera's web pages.
Similarly, it is possible that text originally set using the camera's web setting screen will not be displayed correctly when retrieving it from the camera with the Get command. When retrieving commands from the camera, we recommend using a system that uses the same character code that was used to set the camera using the camera's web setting screen.
- The Set command must be sent by a user with administrator authorization (exceptions are listed below). The Get command must be sent by a user who has administrator privileges (Retrieving the camera name or time has not restrictions; other exceptions are listed below).

Exceptions:

Get?Func=Playback&Kind=n

This can also be used to retrieve the number of buffered images by general users authorized to retrieve the number of buffered images.

- You need HTTP BASIC authentication, if you access authentication page. You should install BASIC authentication on your system.
- Please send UserAgent when you access the camera from the HTTP client.
- For access authorization for Set, Get, and other commands, refer to the chart on the next page.

Setting items/Access authorization

No.	Item	Set	Get
3.1.1	Camera name	Administrator	ALL(BL-C10/C30: Level 1, 2, 3 users, BL-C1/C20: Level1,3 users)
3.1.2	White balance (except BB-HCS301)	Administrator	Administrator
3.1.3	Return specified position(BB-HCM,HCE models,KX-HCM110,280A)	Administrator	Administrator
3.1.4	Return specified position for 20 Camera Position (BB-HCM,HCE models , KX-HCM110)	Administrator	Administrator
3.2	Clock	Administrator	ALL(BL-C10/C30: Level 1, 2, 3 users, BL-C1/C20: Level1,3 users)
3.3	Administrator setting	Administrator	---
3.4	Transfer buffered image	Administrator	Administrator
3.5.1	Preset Setting (except HCS301)	Administrator	Administrator and general users authorized to access Preset control (BL-C10/C30: Level 2, 3 users)
3.5.2	Preset Setting for 20 Camera Position (BB-HCM,HCE models , KX-HCM110)	Administrator	Administrator and general users authorized to access Preset control
3.6	Restart	Administrator	---
3.7.1	Pan (except HCS301,BL-C1/C20)		
	When "Kind" is set to 0 (General user authorization)	0: General users authorized to control Pan/Tilt (BL-C10/C30 Level 3 users)	---
	When "Kind" is set to 1 (Administrator)	Administrator	Administrator
3.7.2	Tilt (except HCS301,BL-C1/C20)		
	When "Kind" is set to 0 (General user authorization)	0: General users authorized to control Pan/Tilt (BL-C10/C30 Level 3 users)	---
	When "Kind" is set to 1 (Administrator)	Administrator	Administrator
3.7.3	Zoom (BB-HCM381/HCE481 ,KX-HCM280A)		
	When "Kind" is set to 0 (General user authorization)	0: General users authorized to control Zoom	---
	When "Kind" is set to 1 (Administrator)	Administrator	---
3.7.4	Focus (BB-HCM381/HCE481 ,KX-HCM280A)		
	When "Kind" is set to 0 (General user authorization)	0: General users authorized to control Focus	---
	When "Kind" is set to 1 (Administrator)	Administrator	Administrator and general users authorized to control Focus

No.	Item	Set	Get
3.8	Privacy Mode (BL-C10/C30)	Administrator	ALL(BL-C10/C30: Level 1, 2, 3 users)
3.9	Network setting	Administrator	Administrator
3.10	Camera model information	---	ALL(BL-C10/C30: Level 1, 2, 3 users, BL-C1/C20: Level1,3 users)
3.11	General user setting	Administrator	Administrator
3.17	Delete buffered image	Administrator	---
3.18	Wireless connection status (BB-HCM371,BL-C30/C20)	---	Administrator
3.19	Number of buffered images	---	Administrator and general users authorized to access buffered images (BL-C10/C30: Level 1, 2, 3 users, BL-C1/C20: Level1,3 users)
3.20	Sensor detection	---	Administrator
3.21	Power supply frequency (BL-C10/C30/C1/C20, BB-HCM381/HCE481,KX-HCM110,280 A)	Administrator	Administrator
3.22	Reset to factory default settings	Administrator	---
3.23	Limit Continuous Motion JPEG	Administrator (BL-C10/C30)	Administrator and general users authorized to set Image refresh interval (BL-C10/C30: Level 1, 2, 3 users) (BB-HCM,HCS,HCE models , KX-HCM110,280A: General users authorized to set Image refresh interval)
3.24	NTP server	Administrator	Administrator
3.27	Audio control(BB-HCM, BB-HCS,HCE models, KX-HCM110)	Administrator	Administrator
3.28	IPv6 Network Setting (except BL-C10/C30/C1/C20)	Administrator	Administrator
3.29	Daylight saving time	Administrator	ALL (BL-C10/C30: Level 1, 2, 3 users, BL-C1/C20: Level1,3 users)
3.30	Color night vision(BB-HCM,HCE models,KX-HCM110,280A,BL-C1/C20)	Administrator	Administrator

No.	Item	Set	Get
3.31.1	Preset Control (except BB-HCS301,HCM403,BL-C1/C20)	Administrator or general users authorized to access Preset control (BL-C10/C30: Level 2 3 users)	---
3.31.2	Preset Control for 20 Camera Position (BB-HCM,HCE models , KX-HCM110)	Administrator or general users authorized to access Preset control	---
3.32	Digital output (except BL-C10/C30/C1/C20)	Administrator or general users authorized to control Digital image output	---
3.33	Image time stamp (except BL-C10/C30/C1/C20)	Administrator	Administrator
3.36	Vertical resolution (BB-HCM381,KX-HCM280A, HCS models,BB-HCE481)	Administrator	Administrator
3.37	Alarm log Setting (BB-HCM,HCE models , KX-HCM110,BL-C30/C1/C20)	Administrator	Administrator
3.38	Motion Detection Setting(BB-HCM,HCE models , KX-HCM110,BL-C30/C1/C20)	Administrator	Administrator
3.39	UPnP Setting	Administrator	Administrator
3.40	Banner Setting	Administrator	Administrator
3.41	DDNS Setting	Administrator	Administrator
3.42	UPnP Status Retrieving	---	Administrator
3.43	Error Log Information Retrieving	---	Administrator
3.44	Indicator Setting(except BL-C10)	Administrator	Administrator

ALL: Administrator and all registered general users. (BL-C10/C30: Level 1, 2, 3 users and BL-C1/C20:Level 1, 3 users)
(Includes guest users, when administrator allows guest users to access the camera.)

---: No command.

Access authorization for other features

No.	Item	Access authorization
3.12	Camera Control (nphControlCamera)	Administrator and general users authorized to access features designated by Direction parameter (BL-C10/C30: Level (2), 3 users)(BL-C1/C20:Level 3 users) (Includes guest users, when administrator allows guest users to access the camera)
3.13	Retrieve motion images (nphMotionJpeg)	Administrator and general users authorized to view motion images (BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20:Level 3 users)(Includes guest users, when administrator allows guest users to access the camera)
3.14	Retrieve still images (SnapshotJPEG)	Administrator and general users authorized to view still images (BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20:Level 3 users) (Includes guest users, when administrator allows guest users to access the camera)
3.15	Retrieve motion images stored in the Network Camera buffer (nphReplayRecord)	Administrator and general users authorized to view buffered camera images (BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20:Level 3 users)(Includes guest users, when administrator allows guest users to access the camera)
3.16	Retrieve still images stored in the Network Camera buffer (BufferingImage)	Administrator and general users authorized to view buffered camera images (BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20:Level 3 users)(Includes guest users, when administrator allows guest users to access the camera)
3.25	Image display (ImageViewer)	Administrator and general users authorized to view camera images (BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20:Level 3 users)(BB-HCM ,BB-HCS,HCE models, KX-HCM110,280A: All general users) (Includes guest users, when administrator allows guest users to access the camera)
3.26	Camera name and Capture Image Button display (CgiTitle)	Administrator and general users authorized to view camera images (BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20:Level 3 users)(BB-HCM ,BB-HCS,HCE models, KX-HCM110,280A: General users authorized to access camera images) (Includes guest users, when administrator allows guest users to access the camera)
3.34	Audio Retrieval (nphAudio) (BB-HCM, BB-HCS models, KX-HCM110)	Administrator and general users authorized to access Audio Data
3.35	Synchronized Image/Audio Retrieval (nphVideo) (except BL-C10/C30/C1/C20)	Administrator and general users authorized to access camera images and Audio Data

The models list of command unsupported

No	feature command	Unsupported Models
3.1.2	Func=CameraWB Camera white balance	BB-HCS301
3.1.3	Func=CameraHT position return time, position	BB-HCS301,BL-C10/C30/C1/20,BB-HCM403
3.1.4	Func=CameraReturn 20 position return time, position	BB-HCS301,BL-C10/C30/C1/20,KX-HCM280A,B B-HCM403
3.5.1	Func=PresetName camera position preset	BB-HCS301 ,BL-C1/C20,BB-HCM403
3.5.2	Func=PresetNamePos Set 20 camera positions preset	BB-HCS301,BL-C10/C30/C1/20,KX-HCM280A,B B-HCM403
3.7.1	Func=Pan Pan information	BB-HCS301 ,BL-C1/C20,BB-HCM403
3.7.2	Func=Tilt Tilt information	BB-HCS301 ,BL-C1/C20,BB-HCM403
3.7.3	Func=Zoom Zoom Control	except BB-HCM381,HCE481,KX-HCM280A
3.7.4	Func=Focus Focus information	except BB-HCM381,HCE481,KX-HCM280A
3.8	Func=Powerdown Privacy mode	except BL-C10/C30
3.18	Func=Wireless wireless radio wave condition	except BB-HCM371,BL-C30/C20
3.21	Func=Powerfrq AC power source frequency	except BL-C10/30/C1/C20,BB-HCM381,HCE481,KX-HC M110,280A
3.23	Func=TopView Limit Continuous Motion JPEG	(Set)except BL-C10/30/C1/20
3.27	Func=AudioSetup Audio	BL-C10/30/C1/20,KX-HCM280A
3.28	Func=V6Network IPv6 network information	BL-C10/30/C1/20
3.30	Func=NightView Color night vision	BB-HCS301,BL-C10/30
3.31.1	Func=PresetCnt Preset control	BB-HCS301, BL-C1/C20,BB-HCM403
3.31.2	Func=PresetCntPos 20 camera positions preset control	BB-HCS301,BL-C10/C30/C1/20,BB-HCM403
3.32	Func=Doutput Digital output	BL-C10/30/C1/20
3.33	Func=TimeStamp Time stamp	BL-C10/30/C1/20
3.34	nphAudio Audio Retrieval	BL-C10/30/C1/20,KX-HCM280A
3.35	nphVideo Synchronized Image/Audio Retrieval	BL-C10/30/C1/20
3.36	Func=OddMode Vertical resolution	except BB-HCS301,HCM381,HCE481,KX-HCM280A
3.37	Func=AlarmMessage Alarm log Notification	BL-C10,KX-HCM280A
3.38	Func=MotionDetect Motion Detection	BL-C10,KX-HCM280A
3.44	Func=PowerLed Indicator	BL-C10

Note: Other commands have the parameter that doesn't correspond depending on the model.

Please refer to the explanation of each command for details.

This document may be updated without prior notice.

Please access following the URL for the latest documents and sample programs.

<http://panasonic.co.jp/pcc/products/en/netwkcaml/>

3. COMMAND LIST

* Some commands are only for BL-Cxx models and HCM3xx models. Also, some commands have different parameters depending on the models.

Note 1: If alphanumeric characters are specified as a parameter and the command is expecting a numeric value, it may not detect an error (depending on the combination with numeric values), and a numeric value may be set. For example, if the Kind value in "Set?Func=PresetName" contains alphanumeric characters, the following values will be set.

Kind=A → The value "0" is set to Kind.

Kind=1A → The value "1" is set to Kind.

Kind=A8 → The value "0" is set to Kind.

Refer to the list of parameters for each command, and specify valid values.

3.1 Camera information setting, retrieval (Set, Get)

3.1.1 Camera information setting, retrieval (Set, Get) Func=CameraName

Set: Set camera name.

Accessible only for administrator

Parameters	Setting
Func	CameraName (Fixed)
Kind	1 (Fixed)
Data	Camera name (one-byte characters: 1-15 characters, two-byte characters: 1-7 characters) *The following two-byte characters can be used: Hiragana, Katakana, Kanji, English alphabet, Arabic numbers, and symbols. Spaces cannot be used. *The following one-byte characters can be used: English alphabet, Arabic numbers, and symbols. The following cannot be used: [Space], ["], ['], [&], [<], [>].

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n •••• 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=CameraName&Kind=1&Data=NetworkCamera

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	Invalid number of characters in data value	Check the Data value
Return: -6	Error while writing to flash memory	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve camera name.

Accessible for administrator and all general users

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level 1,3 users)

(Includes guest users, when administrator allows guest users to access the camera)

Parameters	Setting
Func	CameraName (Fixed)
Kind	1 (Fixed)

Example:

```
Get?Func=CameraName&Kind=1
(Received)
HTTP/1.0 200 OK
Content-type: text/plain
Data:NetworkCamera
```

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters

* Administrator registration screen will be displayed when the unit is set to its factory default settings (administrator setting is not set).

3.1.2 Camera Home Position white balance information setting, retrieval (Set, Get) Func=CameraWB

(except BB-HCS301)

Set: Set camera white balance.

Accessible only for administrator

Parameters	Setting
Func	CameraWB (Fixed)
Kind	1 (Fixed)
Data ^{Note 1}	White balance 0: Auto, 32: Indoor, 48: Fluorescent light (white) 64: Fluorescent light (Day light), 80: Outdoor, 16: Hold*

Return value:

```
HTTP/1.0 200 OK
Content-type: text/plain
Return:0.....0: OK, -n: Error
```

The meaning of "-n" values returned upon error are explained below.

Example:

```
Set?Func=CameraWB&Kind=1&Data=0
```

*If BL-C1/C20 , Do not Setting Data=16(Hold).

* • Camera after **Cgii/fVer:1.06** is set and saved for Home Position White Balance Data.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	Invalid number of characters in data value	Check the Data value
Return: -6	Error while writing to flash memory	Retry
Return: -7	Cannot be set due to incorrect Data value	Check the Data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve camera white balance.**Accessible only for administrator**

Parameters	Setting
Func	CameraWB (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=CameraWB&Kind=1

(Received)

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Data:0¥r¥n

*Retrieved Camera white balance value is current white balance value. If Camera position is preset position 5, Camera white balance set value may be different from Home position set value.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

* Administrator registration screen will be displayed when the unit is set to its factory default settings (administrator setting is not set).

*In camera after **Cgii/fVer:1.06**, this Set command is changed. Before Cgii/fVer:1.05 only the white balance setting of a present camera was temporarily changed, and it did not preserve it anywhere. After Cgii/fVer:1.06 it changes like setting, and preserving the white balance of the home position.

On the other hand, this Get command has not changed.

It is likely to differ from the white balance value of the home position preserved by the Set command because the white balance value acquired in the Get command is a white balance value of the camera at the time of the transmission of the command.

3.1.3 Specified position return time, position setting, retrieve (Set,Get) Func=CameraHT

(BB-HCM models, KX-HCM110,280A)

Set: Set camera's return specified position and time.**Accessible only for administrator**

Parameters	Setting
Func	CameraHT (Fixed)
Kind	1 (Fixed)
RetTime ^{Note 1}	Specified position return time 0: Do not specify 10: 10 seconds 20: 20 seconds 30: 30 seconds 60: 1 minutes 300: 5minutes 600: 10 minutes 1800: 30 minutes 3600: 1 hour (It frequently returns to a specified position automatically when setting it to a small value, and set it to a big value as much as possible, please.)
RetPos ^{Note 1}	Specified position 0: Home position 1: Preset 1, 2: Preset 2, 3: Preset 3, 4: Preset 4, 5: Preset 5, 6: Preset 6, 7: Preset 7, 8: Preset 8, 9: Alarm 1, 10: Alarm 2

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n
Return:0¥r¥n ••••• 0: OK, -n: Error

Example: No mentioning of the return time of specified position, specified position: Home position.
Set?Func=CameraHT&Kind=1&RetTime=0&RetPos=0

* If the camera is not operated during the specified period, the camera turns to the specified position.

Note: If you did not set any presets, the camera cannot turn to the preset position.

When registering preset positions, set Time long enough to complete the registration process.

If Time is set too short, the camera will return to the specified position while registering preset positions.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature	Retry using a model supporting the feature
Return: -6	Error while writing to flash memory	Retry
Return: -7	Invalid value	Check parameters
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve camera's return position and time.

Accessible only for administrator

Parameters	Setting
Func	CameraHT (Fixed)
Kind	1 (Fixed)

Example:

```
Get?Func=CameraHT&Kind=1
(Return)
HTTP/1.0 200 OK\r\n
Content-type: text/plain\r\n\r\n
RetTime:0\r\n
RetPos:0\r\n
```

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature	Retry using a model supporting the feature
Return: -11	Not accessed by administrator	Retry as administrator

* Administrator registration screen will be displayed when the unit is set to its factory default settings (administrator setting is not set).

Note: When Camera supported 20 Camera Position that is set from Preset 9 to Preset 20 receives

"Get?Func=CameraHT&Kind=1", Camera's return value is "39" to "50".

Please use next command "Func=CameraReturn" for camera supported 20 camera positions.

BB-HCS301 and BL-C1/C20 and BB-HCM403 are not supported this command.

3.1.4 Specified position return time, position setting, retrieve for 20 Camera Position (Set,Get)

Func=CameraReturn (BB-HCM models , KX-HCM110, BB-HCE481)

Set: Set camera's return specified position and time.

Accessible only for administrator

Parameters	Setting
Func	CameraReturn (Fixed)
Kind	1 (Fixed)
RetTime ^{Note 1}	Specified position return time 0: Do not specify 10: 10 seconds 20: 20 seconds 30: 30 seconds 60: 1 minutes 300: 5minutes 600: 10 minutes 1800: 30 minutes 3600: 1 hour (It frequently returns to a specified position automatically when setting it to a small value, and set it to a big value as much as possible, please.)
RetPos ^{Note 1}	Specified position 0: Home position 1: Preset 1, 2: Preset 2, 3: Preset 3, 4: Preset 4, 5: Preset 5, 6: Preset 6, 7: Preset 7, 8: Preset 8, 9: Preset 9, 10: Preset 10, 11: Preset 11, 12: Preset 12, 13: Preset13, 14: Preset14, 15: Preset 15, 16: Preset 16, 17: Preset 17, 18: Preset18, 19: Preset 19, 20: Preset20, 81: Alarm1, 82: Alarm 2

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

Example: No mentioning of the return time of specified position, specified position: Home position.

Set?Func=CameraReturn&Kind=1&RetTime=0&RetPos=0

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -6	Error while writing to flash memory	Retry
Return: -7	Invalid value	Check parameters
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

- Note:
- Camera before **Cgii/fVer:1.04** is not supported this command and the return value is "Return:-17" or "Return:-4".
 - No supported 20 Camera Position Camera cannot set Preset 9 to Preset20 for "RetPos".
 - No supported Alarm 2 Camera cannot set "82(Alarm2)" for "RetPos".

Get: Retrieve camera's return position and time.

Accessible only for administrator

<u>Parameters</u>	<u>Setting</u>
Func	CameraReturn (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=CameraReturn&Kind=1

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

RetTime:0

RetPos:0

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

* Administrator registration screen will be displayed when the unit is set to its factory default settings (administrator setting is not set).

- Note:
- Camera before **Cgii/fVer:1.04** is not supported this command and the return value is "Return:-17" or "Return:-4".
 - BB-HCS301 and BL-C1/C20 and BB-HCM403 are not supported this command.

3.2 Clock setting, retrieval (Set, Get) Func=Date

Set: Set clock.

Accessible only for administrator

Parameters	Setting
Func	Date (Fixed)
Kind	1 (Fixed)
Data	yyyymmddHHii (Ex: 200405071630)

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=Date&Kind=1&Data=200405071630

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	Invalid number of characters in data value	Check the Data value
Return: -7	Cannot be set due to incorrect Data value	Check the Data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve clock time.

Accessible for administrator and all general users (BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level 1,3 users)

(Includes guest users, when administrator allows guest users to access the camera)

Parameters	Setting
Func	Date (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Date&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

Data:200405134163012587 Retried data is in the following format: yyyymmddwHHiissxxx (Time is retrieved up to "mSec")

Description of retrieved data:

yyyy: Year (Example: 2004)

mm: Month (Example: 05) [May]

dd: Day of month (Example: 13)

w: Day of week (Example: 4) [Thursday]

w: 0 (Sun), 1: (Mon), 2: (Tue), 3: (Wed), 4: (Thu), 5: (Fri), 6: (Sat)

HH: Hour (Example: 16)

ii: Minute (Example: 30)

ss: Second (Example: 12)

xxx: Milliseconds (Example: 587)

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters

* Administrator registration screen will be displayed when the unit is set to its factory default settings (administrator setting is not complete).

3.3 Administrator information setting (Set) Func=Admin

Set: Set administrator information.

Accessible only for administrator after completing administrator settings.

Parameters	Setting
Func	Admin (Fixed)
Kind	1 (Fixed)
Mode ^{Note 1}	Authorization setting. 1: Allow guest users, 3: Do not allow guest users 2: Allow guest users (mobile only),
ID	Administrator ID (6-15 characters) *Only one-byte characters can be used. The following cannot be used: [Space], ["], ['], [&], [<], [>], [:].
Pass	Administrator password (6-15 characters) *Only one-byte characters can be used. The following cannot be used: [Space], ["], ['], [&], [<], [>], [:].

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=Admin&Kind=1&Mode=3&ID=camera&Pass=camera1

When camera is in factory default state and administrator ID and password are not set, only this Set command can be used.

To maintain security, administrator information cannot be retrieved (Get).

*Mode=2 (Permit access from guest users (mobile only)) can be set only with new firmware Ver 1.30 (Cgii/fVer.1.06) or later for BB-HCE381 and new firmware Ver1.29(Cgii/fVer.1.06) or later for BB-HCE481 and new firmware Ver 1.29(Cgii/fVer.1.06) or later for BL-C1 and new firmware Ver 1.30(Cgii/fVer.1.06) or later for BL-C20.

Note: If you set Mode=2 [Permit access from guest users (mobile only)], an authentication window is not displayed even if you access the cell phone page. All guest users can view images without a user name and password.

Upon error:

(Factory default)

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No ID, password parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	More than 15 characters are entered for ID or password	Check ID, password
Return: -6	Error while writing to flash memory	Retry
Return: -7	Less than 6 characters are entered for ID or password	Check ID, password
	Invalid Mode value	Check the Mode value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -21	This User ID already used	Check ID
Return: -22	User ID not registered	Check ID

3.4 Buffer/transfer image setting, retrieval (Set, Get) Func=ImageTransfer

- 5 triggers can be set for buffering/transferring images.
- Image transfer can be initiated by sensor and by timer.
- You can set 5 Kind parameters (triggers).
- For each "Kind", select one "TCondition" (timer or sensor), set a common timer/sensor/motion detection operating date and time, and set the details for the image to be recorded (camera position, image resolution and quality, etc.). In addition, the image recording interval (before and after sensor or motion detection, if using the sensor or motion detection) and the total number of images to be recorded can be specified. When setting a timer, the recording interval can be specified, as well as the Buffer/Transfer method (TMode) which determines whether recorded images are saved or not saved in memory, are transferred by FTP, or are transferred by E-mail.
- When setting FTP transfer, set FTP-related settings such as FTP server settings.
- When setting E-mail transfer, set E-mail-related settings such as E-mail server settings.
- When setting E-mail notification (MMode) for image buffer/save, set E-mail-related settings such as E-mail server settings.

Set: Set image buffer/transfer.

Accessible only for administrator

Parameters	Setting
Func	ImageTransfer (Fixed)
Kind	Buffer/transfer trigger number: 1-5
TaskEnable (*1) ^{Note 1}	Setting enable/disable. 1: Enable, 0: Disable
TCondition (*1) ^{Note 1}	Condition (trigger type)
	BL-C10/C30/C1/C20
	BB-HCM ,HCS,HCE models,KX-HCM110,280A
	1: Sensor, 2: Timer 4: Motion detection(C30 only) (C1/C20 no supported Sensor)
	1: Alarm1, 2: Timer 3: Alarm2, 4: Motion detection
Trigger (for Alarm) (*2) ^{Note 1}	Detected signal 2: Start (Open), 3: End (Short)
Week ^{Note 1}	Day setting Set the desired days of the week by adding the numbers as shown below. 1: Sun, 2: Mon, 4: Tue, 8: Wed, 16: Thu, 32: Fri, 64: Sat (Example) 127: Set for every day (1+2+4+8+16+32+64 = 127) 65: Set for Sun and Sat only (1+64 = 65) 42: Set for Mon, Wed, and Fri (2+8+32 = 42)
TimeMode ^{Note 1}	Operating time. 1: Always, 0: Specified time Note: If this parameter is not specified, "Always" will be selected.
Start	Start time (24-hour time format) (Example: 0000) Note: If this parameter is not specified, it will be automatically set to "0000"
Stop	Stop time (24-hour time format) (Example: 2359) Note: If this parameter is not specified, it will be automatically set to "2359"
Position (for Sensor,Alarm trigger) (*1) ^{Note 1}	Sensor position (for Sensor, Alarm trigger) If not specified, the last position is used. 9: Sensor position, 0: None Support 20 camera positions (Cgii/fVer.1.05 or later BB-HCM,HCE models , KX-HCM110) 9:Sensor position , 0,255:None 30:Home position, 1,31:Preset 1, 2,32:Preset 2, 3,33:Preset3, 4,34:Preset4, 5,35:preset5 6,36:Preset 6, 7,37:Preset 7, 8,38:Preset 8, 39:Preset 9, 40:Preset 10 41:Preset 11, 42:Preset 12, 43:Preset 13, 44:Preset14, 45:Preset 15 46:Preset 16, 47:Preset 17, 48:Preset 18, 49:Preset 19, 50:Preset 20, 81:Alarm 1, 82:Alarm 2 No supported Sensor position Camera will be automatically set to "255(None)". BB-HCS301 and BL-C1/C20 are not supported this Parameter.

Position (Motion detection trigger)	<p>Motion Detection position (for Motion detection trigger) If not specified, the last position is used.</p> <p>0:Home position, 1:Preset 1, 2:Preset 2, 3:Preset 3, 4:Preset 4, 5:Preset 5, 6:Preset 6, 7:Preset 7, 8:Preset 8, 9:Alarm 1, 10:Alarm 2, 255:None,</p> <p>Support 20 camera positions (Cgii/fVer.1.05 or later BB-HCM,HCE models , KX-HCM110) 0,30:Home position, 1,31:Preset 1, 2,32:Preset 2, 3,33:Preset3, 4,34:Preset4, 5,35:preset5 6,36:Preset 6, 7,37:Preset 7, 8,38:Preset 8, 39:Preset 9, 40:Preset 10 41:Preset 11, 42:Preset 12, 43:Preset 13, 44:Preset14, 45:Preset 15 46:Preset 16, 47:Preset 17, 48:Preset 18, 49:Preset 19, 50:Preset 20, 9,81:Alarm 1, 10,82:Alarm 2, 255*None, No supported Sensor position Camera will be automatically set to "255(None)". BB-HCS301 and BL-C1/C20 are not supported this Parameter.</p>
PResolution (*1) ^{Note 1}	<p>Recorded image resolution 0: 640 x 480, 1: 320 x 240, 2: 160 x 120</p>
PQuality (*1) ^{Note 1}	<p>Recorded image quality 4: Favor quality, 8: Standard, 12: Favor motion, 128: Mobile phone</p>
PreEnable (for Sensor, Alarm trigger) ^{Note 1}	<p>Buffer/transfer before detection: Enable/disable (for Sensor trigger or BB-HCM/HCS/HCE models,KX-HCM110 Alarm, MotionDetection trigger) 1: Enable, 0: Disable Note: If this parameter is not specified, the setting will be disabled.</p>
PreIntervalPer ^{Note 1} (for Sensor, Alarm trigger)	<p>Unit of time used for recording interval before detection (for Sensor trigger or BB-HCM/HCS/HCE models,KX-HCM110 Alarm, MotionDetection trigger) 1000: 1 second, 60000: 1 minute</p>
PreIntervalNum ^{Note 1} (for Sensor, Alarm trigger)	<p>Number of recorded images for each time unit before detection (for Sensor trigger or BB-HCM/HCS/HCE models,KX-HCM110 Alarm, MotionDetection trigger) 1-15(BL-C10/C30) 1-30(BB-HCM/HCS/HCE models,KX-HCM110)</p>
PreNum ^{Note 1} (for Sensor, Alarm trigger)	<p>Total number of recorded images before detection (for Sensor trigger or BB-HCM/HCS/HCE models,KX-HCM110 Alarm, MotionDetection trigger) 1-10,20,30,40,50,60,70,80,90, 100,200,300,400,500,600,700,800,900, 1000,1100,1200,1300 (BL-C10/30 can be set up to 1300, and BB-HCM/HCS/HCE models,KX-HCM110 be set up to 600.)</p>
PostEnable ^{Note 1} (for Sensor, Alarm trigger)	<p>Buffer/transfer after detection. Enable/disable (for Sensor trigger or BB-HCM/HCS/HCE models,KX-HCM110 Alarm, MotionDetection trigger) 1: Enable, 0: Disable Note: If this parameter is not specified, this setting will be disabled.</p>
PostIntervalPer ^{Note 1}	<p>Unit of time used for recording interval after detection (for Sensor trigger or BB-HCM/HCS/HCE models,KX-HCM110 Alarm, MotionDetection trigger) 1000: 1 second, 60000: 1 minute Unit of time used for recording interval (for Timer trigger) 1000: 1 second, 60000: 1 minute, 3600000: 1 hour</p>
PostIntervalNum ^{Note 1}	<p>Number of recorded images after detection for each time unit (for Sensor trigger or BB-HCM/HCS models,KX-HCM110 Alarm, MotionDetection trigger) 1-15(BL-C10/C30) 1-30(BB-HCM/HCS/HCE models,KX-HCM110) Number of recorded images for each time unit (for Timer trigger) 1-15(BL-C10/C30/C1/C20) 1-30(BB-HCM/HCS/HCE models,KX-HCM110)</p>
PostNum ^{Note 1} (for Sensor, Alarm trigger)	<p>Total number of recorded images after detection (for Sensor trigger or BB-HCM/HCS/HCE models,KX-HCM110 Alarm, MotionDetection trigger) 1-10,20,30,40,50,60,70,80,90, 100,200,300,400,500,600,700,800,900, 1000,1100,1200,1300,1400,1500</p>

IgnoreTime ^{Note 1} BL-C10/C30 (for Sensor trigger)	During non-detection (the period of time between sensor detections) 0-600 seconds Note that one of the following values is recommend (otherwise the camera web page will not be displayed properly): 0, 10, 30, 60, 180, 300, or 600
TMode ^{Note 1}	Buffer/transfer method 0: No Transfer, No Memory Overwrite 16: No Transfer, Memory Overwrite 32: FTP transfer 48: E-mail transfer

*1: If not specified, the last setting will be retained.

Note: Refer to the camera setting screens for character limitations (maximum number, restricted characters, etc.)

When TMode is set to "32" (FTP transfer)	
FtpServer (*2)	FTP server IP address or host name Note: Set using 4 numbers (0-255) each separated by a period; "0.0.0.0" and "255.255.255.255" are unavailable. When setting the host name, use 1-255 one-byte characters. The following cannot be used: [Space], ["], ['], [&], [<], [>].
FtpPortNo (*2)	FTP port number Note: Standard 21, 1-65535
FtpLoginID	Login ID Note: 0-63 one-byte characters. The following cannot be used ["]
FtpPassword	Password Note: 0-63 one-byte characters. The following cannot be used: ["]
FtpLoginMode (*2) ^{Note 1}	Login timing. 0: Every time, 64: One time
FtpFileName (*2) ^{Note 1}	Upload File Name Note: 1-234 one-byte characters. The following cannot be used: [Space], ["], ['], [&], [<], [>]
FtpFileNameMode (*2) ^{Note 1}	Overwrite setting. 0: Overwrite file, 1: Save as new file with time stamp
FtpPortMode (*2) ^{Note 1}	Data transfer method. 0: Passive mode, 16: Active mode

*2: Required setting

Note: Refer to the camera setting screens for character limitations (maximum number, restricted characters, etc.)

When TMode is set to "48" (E-mail transfer)	
TMailServer (*2)	E-mail server address or host name for sending E-mail (SMTP) Note: Set using 4 numbers (0-255) each separated by a period; "0.0.0.0" and "255.255.255.255" are unavailable. When setting the host name, use 1-255 one-byte characters. The following cannot be used: [Space], ["], ['], [&], [<], [>].
TMailPort	Sending E-mail (SMTP) server Port No. Note: Standard port number is 25. Cgii/fVer.1.06 or later, BL-C10/C30 are supported this Parameter.
TPopServer	E-mail server address or host name for receiving E-mail (POP3) Note: Set using 4 numbers (0-255) each separated by a period; "0.0.0.0" and "255.255.255.255" are unavailable. When setting the host name, use 0-255 one-byte characters. The following cannot be used: [Space], ["], ['], [&], [<], [>].
TPopPort	Receiving E-mail (POP3) server Port No. Note: Standard port number is 110 Cgii/fVer.1.06 or later, BL-C10/C30 are supported this Parameter.
TPopID (When Setting TPopServer, Required setting)	Login ID (When you can select SMTP authentication, this is SMTP Login ID.) Note: 0-63 one-byte characters. The following cannot be used: ["]
TPopPassword	Password (When you can select SMTP authentication, this is SMTP Login Password.) Note: 0-63 one-byte characters. The following cannot be used: ["]

TCertification	<p>Authentication You can select how to authenticate.</p> <p>0: No authentication 1: SMTP authentication 2: POP before SMTP authentication</p> <p>(When unsetting it, it sets it internally according to the setting of TPopServer automatically. When TPopServer is set, it sets it to the POP before SMTP authentication. When TPopServer is unset, it sets it without the authentication.)</p>
TMailFrom (*2)	<p>Sender (Reply E-mail address)</p> <p>Note: Set in the following order: [text]+[@]+[text]+[.]+[text] 5-63 one-byte characters The following cannot be used: [Space], ["], ['], [&], [<], [>].</p>
TMailTo1 (*2)	<p>Destination E-mail address 1</p> <p>Note: Set in the following order: [text]+[@]+[text]+[.]+[text] 5-63 one-byte characters The following cannot be used: [Space], ["], ['], [&], [<], [>].</p>
TMailTo2	Destination E-mail address 2. Note: Refer to TMailTo1 for notes
TMailTo3	Destination E-mail address 3. Note: Refer to TMailTo1 for notes
TMailSubject (*2)	<p>Subject</p> <p>Note: One-byte characters: 0-44, two-byte characters: 0-22 ["] cannot be used.</p>
TMailText	<p>Text</p> <p>Note: One-byte characters: up to 63, two-byte characters: up to 31 [Line break] and [] cannot be used.</p>

*2: Required setting

MMode	<p>Notification setting</p> <p>128: HTTP notification Enable 64: E-mail notification Enable 0: Disable</p>
-------	--

Note: E-mail notification is only available when "Sensor" and "Motion Detection" is selected as the trigger type.

When MMode is set to "128" (HTTP notification)	
MHttpUrl	HTTP notification Url up to 256 (Replace"&" with "%26" .)
MID	<p>Basic authentication ID Note: 0-63 one-byte characters.</p> <p>The following cannot be used: ["]</p>
MPassword	<p>Basic authentication Password Note: 0-63 one-byte characters.</p> <p>The following cannot be used: ["]</p>

Note: Please replace "&" with "%26" and set it when "&" is included in "MHttpUrl" at the HTTP notification destination.

Example:

When you want to set "MHttpUrl" to

"http://server.com/cgi-bin/alarmget.cgi?Task=1&CamUrl=http://camera111.xxx.yyy.com/&Mode=2"
by the HTTP notification

Set?Func=ImageTransfer&Kind=1& &MMode=128
&MHttpUrl=http://server.com/cgi-bin/alarmget.cgi?Task=1%26CamUrl=http://camera111.xxx.yyy.com/%
26Mode=2

Example:

When you want to set ID to "userid" ,Password to "userpassword" for Basic authentication

Set?Func=ImageTransfer&Kind=1& &MMode=128

&MHttpUrl=http://server.com/cgi-bin/alarmget.cgi?Task=1%26CamUrl=http://camera111.xxx.yyy.com/%26Mode=2&MID=userid&MPassword=userpassword

Example of HTTP notification:

The image is preserved before and after the operation detection one by one by recording task 1, and the setting example to notify

"http://server.com/cgi-bin/alarmget.cgi?Task=1&CamUrl=http://camera111.xxx.yyy.com/&Mode=2" by the HTTP notification is shown.

Set?Func=ImageTransfer&Kind=1&TaskEnable=1&TCondition=4&PostEnable=1&PostIntervalPer=1000&PostIntervalNum=1&PostNum=1&PreEnable=1&PreIntervalPer=1000&PreIntervalNum=1&PreNum=1&TMode=16&MMode=128&MHttpUrl=http://server.com/cgi-bin/alarmget.cgi?Task=1%26CamUrl=http://camera111.xxx.yyy.com/%26Mode=2&MID=userid&MPassword=userpassword

When MMode is set to "64" (E-mail transfer)	
MMailServer (*2)	E-mail server address or host name for sending E-mail (SMTP)
MMailPort	Sending E-mail (SMTP) server Port No. Note: Standard port number is 25 Cgii/fVer.1.06 or later, BL-C10/C30 are supported this Parameter.
MPopServer	E-mail server address or host name for receiving E-mail (POP3)
MPopPort	Receiving E-mail (POP3) server Port No. Note: Standard port number is 110 Cgii/fVer.1.06 or later, BL-C10/C30 are supported this Parameter.
MPopID (When Setting MPopServer, Required setting)	Login ID (When you can select SMTP authentication, this is SMTP Login ID.) Note: 0-63 one-byte characters. The following cannot be used: [""]
MPopPassword	Password (When you can select SMTP authentication, this is SMTP Login Password.) Note: 0-63 one-byte characters. The following cannot be used: [""]
MCertification	Authentication You can select how to authenticate. 0: No authentication 1: SMTP authentication 2: POP before SMTP authentication (When unsetting it, it sets it internally according to the setting of MPopServer automatically. When MPopServer is set, it sets it to the POP before SMTP authentication. When MPopServer is unset, it sets it without the authentication.)
MMailFrom (*2)	Sender (Reply E-mail address)
MMailTo1 (*2)	Destination E-mail address 1
MMailTo2	Destination E-mail address 2
MMailTo3	Destination E-mail address 3
MMailSubject (*2)	Subject One-byte characters: 0-44, two-byte characters: 0-22 [""] cannot be used.
MMailText	Text One-byte characters: up to 63, two-byte characters: up to 31

*2: Required setting

Note: Character limitations (maximum number, restricted characters, etc.) are the same "E-mail transfer" setting.

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return:0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example 1: Set trigger 1 as a sensor that operates all day Saturday and Sunday, records images after detection, transfers via FTP, and does not send E-mail notification.

Set?Func=ImageTransfer&Kind=1&TaskEnable=1&TCondition=1&Trigger=3&Week=65&TimeMode=0&Start=0000
&Stop=2359&Position=9&PResolution=2&PQuality=8&PreEnable=0&PostEnable=1&PostIntervalPer=1000&PostIntervalNum=10&PostNum=100&TMode=32&FtpServer=ftp.server.com&FtpPortNo=21&FtpLoginID=robert&FtpPassword=robertspassword&FtpLoginMode=64&FtpFileName=test/image&FtpFileNameMode=1&FtpPortMode=16&MMode=0

Example 2:

Set trigger 4 as a timer that is always in operation, does not transfer images, and overwrites images every 1 minute.

Set?Func=ImageTransfer&Kind=4&TaskEnable=1&TCondition=2&Week=127&TimeMode=1
&PostIntervalPer=60000&PostIntervalNum=1&TMode=16

Note: KX-HCM280A don't have Motion detection . and have only Alarm1.

Note: In the Pan/Tilt unsupported and the Preset unsupported model, even if "Position" is set, everything is set to "Position=255 (none)".

Note: Cgii/fVer:1.06 is supported BL-C30 Motion detection(4) set to "TCondition".

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	Exceed max. number of characters in each setting	Check the number of characters
Return: -5	No PreIntervalPer	Set PreIntervalPer
	No PreIntervalNum	Set PreIntervalNum
	No PreNum	Set PreNum
	No PostIntervalPer	Set PostIntervalPer
	No PostIntervalNum	Set PostIntervalNum
	No PostNum	Set PostNum
Return: -6	Error while writing to flash memory	Retry
Return: -7	Invalid Start, Stop value	Check the Start, Stop values
	Invalid TCondition value	Check the TCondition value
	Invalid Position value	Check the Position value
	Invalid PResolution value	Check the PResolution value
	Invalid PQuality value	Check the PQuality value
	Invalid PreIntervalPer value	Check the PreIntervalPer value
	Invalid PreIntervalNum value	Check the PreIntervalNum value
	Invalid PreNum value	Check the PreNum value
	Invalid PreEnable value	Check the PreEnable value
	Invalid PostIntervalPer value	Check the PostIntervalPer value
	Invalid PostIntervalNum value	Check the PostIntervalNum value
	Invalid PostNum value	Check the PostNum value
	Invalid PostEnable value	Check the PostEnable value
	Invalid TMode value	Check the TMode value
	FtpServer not set	Set FtpServer
	Invalid FTP-related value	Check FTP-related settings
	TMailServer not set	Set TMailServer
	MMailServer not set	Set MMailServer
	PreEnable and PostEnable cannot both have the Value "0" when setting Sensor and Alarm	Set "1" to one of them

Return: -8	Invalid PreIntervalTime setting	Check PreInterval-related settings
	Invalid PostIntervalTime setting	Check PostInterval-related settings
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve information for buffered/transferred images.

Accessible only for administrator

Parameters	Setting
Func	ImageTransfer (Fixed)
Kind ^{Note 1}	Buffer/transfer trigger number: 1-5

Example:

```

Get?Func=ImageTransfer&Kind=1
(Received)
HTTP/1.0 200 OK¥r¥n
Content-type: text/plain¥r¥n¥r¥n
TaskEnable:1¥r¥n
TCondition:1¥r¥n
Trigger:3¥r¥n
Week:65¥r¥n
TimeMode:0¥r¥n
Start:0000¥r¥n
Stop:2359¥r¥n
Position:9¥r¥n
PResolution:2¥r¥n
PQuality:8¥r¥n
PreEnable:0¥r¥n
PreIntervalPer:1000¥r¥n
PreIntervalNum:1¥r¥n
PreNum:1¥r¥n
PostEnable:1¥r¥n
PostIntervalPer:1000¥r¥n
PostIntervalNum:10¥r¥n
PostNum:100¥r¥n
TMode:32¥r¥n
FtpServer:ftp.server.com¥r¥n
FtpPortNo:21¥r¥n
FtpLoginID:robert¥r¥n
FtpPassword:robertpassword¥r¥n
FtpLoginMode:64¥r¥n
FtpFileName:test/image¥r¥n
FtpFileNameMode:1¥r¥n
FtpPortMode:16¥r¥n
MMode:64¥r¥n
MMailServer:mail.server.com¥r¥n
MMailPort:25¥r¥n
MPopServer:mail.server.com¥r¥n
MPopPort:110¥r¥n
MPopID:userld¥r¥n
MPopPassword:userpassword¥r¥n
M Certification:2¥r¥n
MMailFrom:cam@mail.com¥r¥n
MMailTo1:tocam@mail.com¥r¥n
MMailTo2:¥r¥n
MMailTo3:¥r¥n
MmailSubject:ImageTest¥r¥n
MmailText:GetImage¥r¥n

```

Note: The retrievable setting values vary by the buffer/transfer method ("No Transfer, No Memory Overwrite, No

Transfer, Memory Overwrite, FTP transfer, E-mail transfer) selected for TMode. For example, when setting FTP transfer, E-mail transfer-related information cannot be retrieved because it doesn't exist.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: Cgii/fVer:1.05 is supported 20 camera positions.

The return value of Ver.1.05 "Position" parameter is different from the return value of Ver.1.04 "Position" parameter.

TCondition = 1 or 3 (for Alarm)

"Position" Parameter value	Ver1.05 or later	Ver1.04
Sensor position	----	9
None	255	0
Homeposition	30	---
Preset 1 --- Preset 8	31 --- 38	---
Preset 9 --- Preset 20	39 --- 50	---
Alarm 1	81	---
Alarm 2	82	---

TCondition = 4 (forMotion detection)

"Position" Parameter value	Ver1.05 or later	Ver1.04
None	255	255
Homeposition	30	0
Preset 1 --- Preset 8	31 --- 38	1 --- 8
Preset 9 --- Preset 20	39 --- 50	---
Alarm 1	81	9
Alarm 2	82	10

Note: BL-C10/C30 is not supported 20 camera positions.

So the value of "Position " parameter is "9" or "0" for BL-C10/C30.

3.5.1 Preset setting, retrieval (Set, Get) Func=PresetName

(except HCS301,BL-C1/C20)

Set: Set preset information.

Accessible only for administrator

Parameters	Setting
Func	PresetName (Fixed)
Kind ^{Note 1}	Preset number 1-8: preset position number 9: Sensor (BL-C10/C30), Alarm1 (BB-HCM/HCS/HCE models ,KX-HCM110,280A) 10:Alarm2 (BB-HCM/HCE models ,KX-HCM110) 0: Home position
Data	Preset name Note: One-byte characters: 1-15, two-byte characters: 1-7 The following cannot be used: [Space], ["], ['], [&], [<], [>]. (When setting sensor or alarm or home position, Data parameter does not need to be set; only pan/tilt direction can be preset.) Null: When deleting

Return value:

HTTP/1.0 200 OK

Content-type: text/plain¥r¥n¥r¥n

Return: 0¥r¥n ••••• 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

(Set preset position 5: Preset name "Left") Pan/tilt the camera in the direction of the preset, then

“Set?Func=PresetName&Kind=5&Data=Left” will be issued. Preset name “Left” is used for preset position number 5, and the direction of camera will be saved.

(Delete preset position number 5 setting)

Set?Func=PresetName&Kind=5&Data=

Note: Preset names for preset positions 1-8 can be set in Data parameter.

On the other hand, setting Data parameter to "Data=" (No name entered) will delete the preset setting itself.

As for presets other than 1–8 (i.e., sensor and home position), the name setting does not need to be set in

the Data parameter. (The preset name will not be changed even if a new name is set)

Aim the camera in the direction that you want to set as preset and enter a command (for example,

"Set?Func=PresetName&Kind=0"), and the direction of the camera will be preset.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	Invalid preset name value	Check the preset name
	Invalid preset no.	Check the preset no.
Return: -6	Error while writing to flash memory	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

BB-HCS301 and BL-C1/C20 and BB-HCM403 are not supported this command.

Get: Retrieve preset information.

Accessible only for administrator

Parameters	Setting
Func	PresetName (Fixed)
Kind ^{Note 1}	Preset number 1-8: preset position number 9: Sensor 0: Home position

Example:

```
Get?Func=PresetName&Kind=5
(Received)
HTTP/1.0 200 OK
Content-type: text/plain
Data:Left
```

Note: If a preset name has been set for preset positions 1-8, the preset name will be returned (Ex. "Data: Top Left").
 If no preset has been set, "Data:" will be returned.
 For home position (preset number 0), "Data:HomePosition" will be returned.
 For the sensor position (preset number 9), the corresponding name will be returned.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Invalid preset name value	Check the preset name
	Invalid preset no.	Check the preset no.
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Note: Please use next command "Func=PresetNamePos" for camera supported 20 camera positions.

3.5.2 Preset setting, retrieval for 20 Preset Camera(Set, Get) Func=PresetNamePos

(BB-HCM/HCE models , KX-HCM110)

Set: Set preset information.

Accessible only for administrator

Parameters	Setting
Func	PresetNamePos (Fixed)
Kind ^{Note 1}	Preset number • 8 Preset Camera 1-8: preset position number 81: Sensor (BL-C10/C30), Alarm1 (BB-HCM/HCE models ,KX-HCM110) 82:Alarm2 (BB-HCM/HCE models ,KX-HCM110) 0: Home position • 20 Preset Camera 1-20: preset position number 81: Sensor (BL-C10/C30), Alarm1 (BB-HCM/HCE models ,KX-HCM110) 82:Alarm2 (BB-HCM/HCE models ,KX-HCM110) 0: Home position
Data	Preset name Note: One-byte characters: 1-15, two-byte characters: 1-7 The following cannot be used: [Space], ["], ['], [&], [<], [>]. (When setting sensor or alarm or home position, Data parameter does not need to be set; only pan/tilt direction can be preset.) Null: When deleting

Return value:

HTTP/1.0 200 OK
Content-type: text/plain
Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

(Set preset position 5: Preset name "Left") Pan/tilt the camera in the direction of the preset, then "Set?Func=PresetNamePos&Kind=5&Data=Left" will be issued. Preset name "Left" is used for preset position number 5, and the direction of camera will be saved.

(Delete preset position number 5 setting)

Set?Func=PresetNamePos&Kind=5&Data=

Note: Preset names for preset positions 1-20 can be set in Data parameter.

On the other hand, setting Data parameter to "Data=" (No name entered) will delete the preset setting itself.

As for presets other than 1-20 (i.e., sensor and home position), the name setting does not need to be set in the Data parameter. (The preset name will not be changed even if a new name is set)

Aim the camera in the direction that you want to set as preset and enter a command (for example, "Set?Func=PresetNamePos&Kind=0"), and the direction of the camera will be preset.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	Invalid preset name value	Check the preset name
	Invalid preset no.	Check the preset no.
Return: -6	Error while writing to flash memory	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Note: • Camera before **Cgii/fVer:1.04** is not supported this command and the return value is "Return:-17" or "Return:-4".

Get: Retrieve preset information.

Accessible only for administrator

Parameters	Setting
Func	PresetNamePos (Fixed)
Kind ^{Note 1}	Preset number 1-8: preset position number 9: Sensor 0: Home position

Example:

Get?Func=PresetNamePos&Kind=5
(Received)
HTTP/1.0 200 OK
Content-type: text/plain
Data:Left0

Note: If a preset name has been set for preset positions 1-20, the preset name will be returned (Ex. "Data: Top Left"). If no preset has been set, "Data:" will be returned.

For home position (preset number 0), "Data:HomePosition" will be returned.

For the sensor position (preset number 9), the corresponding name will be returned.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Invalid preset name value	Check the preset name
	Invalid preset no.	Check the preset no.
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Note: • Camera before **Cgii/fVer:1.04** is not supported this command and the return value is "Return:-17" or "Return:-4".

BB-HCS301 and BL-C1/C20 and BB-HCM403 are not supported this command.

3.6 Restart (Set) Func=Restart

Set: Restart camera.

Accessible only for administrator

Parameters	Setting
Func	Restart (Fixed)
Kind	1 (Fixed)
Data	OK (Fixed)

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return:0 ••••• 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=Restart&Kind=1&Data=OK

Note: After "Return:0" is displayed, the camera will be restarted.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -7	Invalid Data value (Not "Data=OK")	Check the Data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Note: Access is also possible during Privacy Mode.

Restarting the camera takes about 1 minute.

All buffered images will be erased.

3.7 Camera control, control information setting, retrieval (Set,Get)

3.7.1 Camera Pan control and Pan information setting, retrieval (Set,Get) Func=Pan

(except BB-HCS301, BL-C1/C20)

Set: Camera Pan control and Pan information setting.

Kind=0 Accessible for administrator and general users authorized to control Pan/Tilt (BL-C30: Level 3 users)

Kind=1 Accessible only for administrator

Parameters	Setting		
Func	Pan (Fixed)		
Kind	0: General users authorized to control Pan/Tilt (BL-C10/C30 Level 3 users) 1:administrator		
When "Kind" is set to 0 (General user authorization)			
DegMode ^{Note 1}	4: PanLeft: Same procedure as when controlling from the PC screen 6: PanRight: Same procedure as when controlling from the PC screen		
When "Kind" is set to 1 (Administrator)			
DegMode	Same as “Kind=0”		
PanRM ^{Note 1}	Pan minimum (5 degree increments)		
	BL-C10/C30	BB-HCM/HCE,KX-HCM models	
	Current: Current value -5000 - 0 - 5000 (-50 degrees to 0 degrees to +50 degrees)	All models except HCM381/HCE481	HCM381/HCE481
		Current: Current value -6000 - 0 - 6000 (-60 degrees to 0 degrees to +60 degrees)	Current: Current value -17500 - 0 - 17500 (-175 degrees to 0 degrees to +175 degrees)
PanHome ^{Note 1}	Pan minimum (5 degree increments)		
	BL-C10/C30	BB-HCM/HCE,KX-HCM models	
	Current: Current value -5000 - 0 - 5000 (-50 degrees to 0 degrees to +50 degrees)	All models except HCM381/HCE481	HCM381/HCE481
		Current: Current value -6000 - 0 - 6000 (-60 degrees to 0 degrees to +60 degrees)	Current: Current value -17500 - 0 - 17500 (-175 degrees to 0 degrees to +175 degrees)
PanRP ^{Note 1}	Pan minimum (5 degree increments)		
	BL-C10/C30	BB-HCM/HCE,KX-HCM models	
	Current: Current value -5000 - 0 - 5000 (-50 degrees to 0 degrees to +50 degrees)	All models except HCM381/HCE481	HCM381/HCE481
		Current: Current value -6000 - 0 - 6000 (-60 degrees to 0 degrees to +60 degrees)	Current: Current value -17500 - 0 - 17500 (-175 degrees to 0 degrees to +175 degrees)

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

- Move to PanLeft with general user authorization

Set?Func=Pan&Kind=0&DegMode=4

- Set the minimum Pan angle: -50 degrees, home position: 0 degree, the maximum Pan angle 50 degrees
(Administrator)

Set?Func=Pan&Kind=1&PanRM=-5000&PanHome=0&PanRP=5000

(Error code when limit is reached) When moving comparatively, if the camera reaches its range limit and the next action would move the camera past its range limit, an error code will be issued.

Return: -14 Left end

Return: -16 Right end

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value BL-C10/C30 Not accessible during Privacy Mode	Check parameters Disable Privacy Mode
Return: -6	Error while writing to flash memory	Retry
Return: -7	Invalid DegMode value Invalid value for each range setting	Check the DegMode value Check the each setting value
Return: -8	Internal data retrieval error	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator When "Kind" is set to 0: Not accessed by users authorized to control Pan/Tilt	Retry as administrator Retry as a user authorized to control Pan/Tilt
Return: -14	Show left end	
Return: -16	Show right end	
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve camera Pan information.

Accessible only for administrator

<u>Parameters</u>	<u>Setting</u>
Func	Pan (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Pan&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

Deg:-3000

Speed:30 ••• Speed is 0, when Pan is not functioning

PanRM:-5000

PanHome:0

PanRP:5000

Note: In this case, the Deg value shows the absolute angle position of camera Pan.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

3.7.2 Camera Pan control and Pan information setting, retrieval (Set,Get)Func=Tilt

(except BB-HCS301, BL-C1/C20)

Set: Camera Tilt control and Tilt information setting.

Kind=0 Accessible for administrator and general users authorized to control Pan/Tilt (BL-C30: Level 3 users)

Kind=1 Accessible only for administrator

Parameters	Setting		
Func	Tilt (Fixed)		
Kind	0: General users authorized to control Pan/Tilt (BL-C10/C30 Level 3 users) 1:administrator		
When "Kind" is set to 0 (General user authorization)			
DegMode ^{Note 1}	8: TiltUp: Same procedure as when controlling from the PC screen 2: TiltDown: Same procedure as when controlling from the PC screen		
When "Kind" is set to 1 (Administrator)			
DegMode ^{Note 1}	Same as “Kind=0”		
TiltRM ^{Note 1}	Tilt minimum (5 degree increments)		
	BL-C10/C30	BB-HCM/HCE,KX-HCM models	
	Current: Current value -4000 - 0 - 1000 (-40 degrees to 0 degrees to +10 degrees)	All models except HCM381/HCE481	HCM381/HCE481
		Current: Current value -4500 - 0 - 2000 (-45 degrees to 0 degrees to +20 degrees)	Current: Current value On the ceiling: 0 - 9000 (0 degrees to +90 degrees) On the table: -12000 - 0 (-120 degrees to 0 degrees)
TiltHome ^{Note 1}	Tilt minimum (5 degree increments)		
	BL-C10/C30	BB-HCM/HCE,KX-HCM models	
	Current: Current value -4000 - 0 - 1000 (-40 degrees to 0 degrees to +10 degrees)	All models except HCM381/HCE481	HCM381/HCE481
		Current: Current value -4500 - 0 - 2000 (-45 degrees to 0 degrees to +20 degrees)	Current: Current value On the ceiling: 0 - 9000 (0 degrees to +90 degrees) On the table: -12000 - 0 (-120 degrees to 0 degrees)
TiltRP ^{Note 1}	Tilt minimum (5 degree increments)		
	BL-C10/C30	BB-HCM/HCE,KX-HCM models	
	Current: Current value	All models except HCM381/HCE481	HCM381/HCE481

	-4000 - 0 - 1000 (-40 degrees to 0 degrees to +10 degrees)	Current: Current value -4500 - 0 - 2000 (-45 degrees to 0 degrees to +20 degrees)	Current: Current value On the ceiling: 0 - 9000 (0 degrees to +90 degrees) On the table: -12000 - 0 (-120 degrees to 0 degrees)
SetupType (HCM381) ^{Note 1}	Setup type. 0: On the ceiling, 1: On the table (Default)		

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

- Move to TiltUp with general user authorization

Set?Func=Tilt&Kind=0&DegMode=8

- Set the minimum Tilt angle: -40 degrees, home position: 0 degree, the maximum Tilt angle 40 degrees

(Administrator)

Set?Func=Tilt&Kind=1&TiltRM=-4000&TiltHome=0&TiltRP=1000

(Error code when limit is reached) When moving comparatively, if the camera reaches its range limit and the next action would move the camera past its range limit, an error code will be issued.

Return: -18 Up end

Return: -12 Down end

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
Return: -6	Error while writing to flash memory	Retry
Return: -7	Invalid DegMode value	Check the DegMode value
	Invalid value for each range setting	Check the each setting value
Return: -8	Internal data retrieval error	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
	When "Kind" is set to 0: Not accessed by users authorized to control Pan/Tilt	Retry as a user authorized to control Pan/Tilt
Return: -17	Unsupported feature	Retry using a model supporting the feature
Return: -18	Show up end	
Return: -12	Show down end	

* Zoom-enabled HCM models (HCM381) and HCE481: [SetupType] parameter must be set to specify the Setup type (On the ceiling/On the table). If not specified (No SetupType parameter or No value is specified following "SetupType="), the existing setting will be used.

* The Tilt range is between 0 degree and +90 degrees when "0: On the ceiling" is set to SetupType. The Tilt range is

between -120 degrees and 0 degree when "1: On the table" is set to SetupType.

- * The following default settings will be used, if the SetupType setting is changed without modifying TiltRM, TiltHome, and TiltRP settings.

SetupType	Minimum (TiltRM)	Home (TiltHome)	Maximum (TiltRP)
0: On the ceiling	0 degree	+90 degrees	+90 degrees
1: On the table	-120 degrees	-90 degrees	0 degree

- * If SetupType is not specified, the existing setting will be used.

Get: Retrieve camera Tilt information.

Accessible only for administrator

Parameters	Setting
Func	Tilt (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Tilt&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

Deg:-3000

Speed:30 •••• Speed is 0, when Tilt is not functioning

TiltRM:-4000

Tilt Home:0

Tilt RP:1000

SetupType:0 •••• (HCM Zoom) 0: On the ceiling

Note: In this case, the Deg value shows the absolute angle position of camera Tilt.

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

3.7.3 Camera Zoom control (Set) Func=Zoom

(BB-HCM381,KX-HCM280A,BB-HCE481)

Set: Camera Zoom control.

Kind=0 Accessible for administrator and general users authorized to control Zoom

Kind=1 Accessible only for administrator

Parameters	Setting
Func	Zoom (Fixed)
Kind	0: General users authorized to control Zoom 1: Administrator
ZoomMode ^{Note 1}	Zoom Control Mode. 4: ZoomTele, 6: ZoomWide

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return:0 •••• 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example: Control ZoomTele on single screen as a general user, authorized to control Zoom.

Set?Func=Zoom&Kind=0&ZoomMode=4

Zoom control using ZoomMode offers similar controls with Standard zoom (4: ZoomTele) and Wide zoom (6: ZoomWide) on single screen.

An error returns, if the user attempted to zoom in/out beyond the camera's capability.

Return: -14 (Tele end)

Return: -16 (Wide end)

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No ZoomMode parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -7	Invalid ZoomMode value	Check the ZoomMode value
Return: -8	Internal data retrieval error	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
	When "Kind" is set to 0: Not accessed by users authorized to control Zoom	Retry as a user authorized to control Zoom
Return: -14	Show tele end	
Return: -16	Show wide end	
Return: -17	Unsupported feature	Retry using a model supporting the feature

3.7.4 Camera Focus control and Focus information setting retrieval (Set,Get) Func=Focus

(BB-HCM381,KX-HCM280A,BB-HCE481)

Set: Camera Focus control.

Kind=0: Accessible for administrator and general users authorized to control Focus

Kind=1: Accessible only for administrator

Parameters	Setting
Func	Focus (Fixed)
Kind	0: General users authorized to control Zoom 1: Administrator
When "Kind" is set to 0 (General user authorization)	
FocusMode ^{Note 1}	4: FocusNear: Same procedure as when controlling from the PC screen 5: Focus Auto: Same procedure as when controlling from the PC screen 6: FocusFar: Same procedure as when controlling from the PC screen
Dist ^{Note 1}	1: Small displacement, 2: Large displacement (FocusMode=4 or 6 only) (Default value: 1)
When "Kind" is set to 1 (Administrator)	
FocusMode ^{Note 1}	Same as "Kind=0"
Dist ^{Note 1}	Same as "Kind=0"
ShortFocus ^{Note 1}	Minimum focal length. 0: 5mm, 1: 1m

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n ••••• 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

- Control FocusNear on single screen as general users, authorized to control Focus.
Set?Func=Focus&Kind=0&FocusMode=4&Dist=1
- Set focal length to 5mm as an Administrator.
Set?Func=Focus&Kind=1&ShortFocus=0

Focus control using FocusMode offers similar controls with Focus near (4: FocusNear), Auto focus (5: FocusAuto) and Focus far (6: FocusFar) on single screen.

Displacement is also work in a similar manner with Focus on when Dist is not set. Set "Dist=2" to increase displacement.

An error returns, if the user attempted to focus near/far beyond the camera's capability.

Return: -14 (Near end)

Return:- 16 (Far end)

Minimum focal length setting using ShortFocus offers similar Minimum focal length setting with camera. The setting is independent from FocusMode and Dist.

Example: Set?Func=Focus&Kind=1&ShortFocus=1 (Set the minimum focal length to 1m.)

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	When "Kind" is set to 0:No FocusMode parameter	Check parameters
	When "Kind" is set to 1:No FocusMode & No ShortFocus parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -7	Invalid ShortFocus value	Check the ShortFocus value
	Invalid FocusMode value	Check the FocusMode value
	Invalid Dist value	Check the Dist value
Return: -8	Internal data retrieval error	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
	When "Kind" is set to 0: Not accessed by users authorized to control Focus	Retry as a user authorized to control Focus
Return: -14	Show near end	
Return: -16	Show far end	
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve camera Focus information.

Accessible for administrator and general users authorized to control Focus

<u>Parameters</u>	<u>Setting</u>
Func	Focus (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Focus&Kind=1

(Received)

HTTP/1.0 200 OK\r\n

Content-type: text/plain\r\n\r\n

ShortFocus:0\r\n ••••• Minimum focal length: 5mm

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

3.8 Private Mode setting, retrieval (Set, Get) Func=Powerdown

(BL-C10/C30)

Set Privacy mode.

Accessible only for administrator

Parameters	Setting	
Func	Powerdown (Fixed)	
Kind ^{Note 1}	1	2
Data ^{Note 1}	Privacy Mode on/off 1: On, 0: Off	Enable/disable Privacy button 1: Enable, 0: Disable

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=Powerdown&Kind=1&Data=0

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature	Retry using a model supporting the feature
Return: -6	Error while writing to flash memory	Retry
Return: -7	Privacy button setting (enable/disable) changed while Privacy Mode was turned on	Privacy button setting (enable/disable) cannot be changed while Privacy Mode is turned on
Return: -8	Upper data setting error	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve Privacy Mode setting information.

Accessible for administrator and all general users

(BL-C10/C30: Level 1, 2, 3 users)

Parameters	Setting
Func	Powerdown (Fixed)
Kind ^{Note 1}	1: Retrieve Privacy Mode status, 2: Retrieve Privacy Button enable/disable information

Example:

Get?Func=Powerdown&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

Data: 0

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature	Retry using a model supporting the feature
Return: -11	Not accessed by administrator	Retry as administrator

Note: When Privacy Mode is turned on after setting (Set?Func=Powerdown&Kind=1&Data=1), only the following Set commands will be accepted:

Privacy Mode off (Set?Func=Powerdown&Kind=1&Data=0)

Privacy Mode on (Set?Func=Powerdown&Kind=1&Data=1) Restart

(Set?Func=Restart&Kind=1&Data=OK)

All other Set commands will not be accepted.

Privacy Button enable/disable setting is not accepted.

Get commands are accepted.

3.9 Network setting, retrieval (Set, Get) Func=Network

Set: Set network information.

Accessible only for administrator

Parameters	Setting
Func (*1)	Network (Fixed)
Kind (*1)	1 (Fixed)
Mode (*1) ^{Note 1}	Network connection mode. 0: Automatic Setup, 1: DHCP, 2: Static
When Mode is set to 0 (Automatic Setup)	
Open (*2)	Allow access from the Internet. 128: Yes, 0: No
Bandwidth (*2) ^{Note 1}	Max. Bandwidth Usage (Default value used if not specified) 13107:0.1 Mbps, 26214:0.2 Mbps, 39321:0.3 Mbps 65536:0.5 Mbps, 131072:1 Mbps, 2147483647: Unlimited
ConnectType (*2) ^{Note 1}	Connection Type (Default value used if not specified) 1: Auto negotiation, 2: 100 Mbps/Full-duplex, 3: 100Mbps/Half-duplex 4: 10Mbps/Full-duplex, 5: 10 Mbps/Half-duplex
AutoRestart ^{Note 1}	Auto Restart. 1: Restart automatically, 0: Disabled (This will be selected if not specified)
When Mode is set to 1 (DHCP)	
CamBootpEn (*2) ^{Note 1}	Configuration from Setup Program (Default value used in not specified) 1: Enable, 0: Disable
Port (*2)	Internet connection port number (Default is 80; default number used if not specified) 1-65535
DHCP (*3)	Host Name. Note: Only one-byte characters and symbols can be used. The following cannot be used: [Space], ["], ['], [&], [<], [>].
Gateway (*3)	Default gateway (Note 1)
DNS1 (*3)	DNS Server Address 1 (Note 1)
DNS2 (*3)	DNS Server Address 2 (Note 1)
Bandwidth (*2) ^{Note 1}	Max. Bandwidth Usage (Default value used if not specified) 13107:0.1 Mbps, 26214:0.2 Mbps, 39321:0.3 Mbps 65536:0.5 Mbps, 131072:1 Mbps, 2147483647: Unlimited
ConnectType (*2) ^{Note 1}	Connection Type (Default value used if not specified) 1: Auto negotiation, 2: 100 Mbps/Full-duplex, 3: 100 Mbps/Half-duplex, 4: 10 Mbps/Full-duplex, 5: 10 Mbps/Half-duplex
AutoRestart	Auto Restart. 1: Restart automatically, 0: Disabled (This will be selected if not specified)
When Mode is set to 2 (Static)	
CamBootpEn (*2) ^{Note 1}	Configuration from Setup Program (Default value used in not specified) 1: Enable, 0: Disable
Port (*2)	Internet connection port number (Default is 80; default number used if not specified) 1-65535
IP (*1)	Internet connection IP address (Note 1)
Netmask (*1)	Subnet mask (Note: Same as IP address)
Gateway (*3)	Default gateway (Note 1)
DNS1 (*3)	DNS Server Address 1 (Note 1)
DNS2 (*3)	DNS Server Address 2 (Note 1)
Bandwidth (*2) ^{Note 1}	Max. Bandwidth Usage (Default value used if not specified) 13107: 0.1 Mbps, 26214: 0.2 Mbps, 39321: 0.3 Mbps 65536: 0.5 Mbps, 131072: 1 Mbps, 2147483647: Unlimited
ConnectType (*2) ^{Note 1}	Connection Type (Default value used if not specified) 1: Auto negotiation, 2: 100 Mbps/Full-duplex, 3: 100 Mbps/Half-duplex, 4: 10 Mbps/Full-duplex, 5: 10 Mbps/Half-duplex
AutoRestart ^{Note 1}	Auto Restart. 1: Restart automatically, 0: Disabled (This will be selected if not specified)

Note: Set using 4 numbers (0-255) each separated by a period; "0.0.0.0" and "255.255.255.255" are unavailable.

*1: Setting is required

*2: Setting not required (Last setting is used)

*3: Even if parameters are not set, errors will not be issued (Settings will be "Null").

Return value:

HTTP/1.0 200 OK\r\n

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example: Automatic Setup, Do not allow access from the internet, No bandwidth limit, Auto negotiation, Auto restart.

Set?Func=Network&Kind=1&Mode=0&Open=0&Bandwidth=2147483647&ConnectType=1 &AutoRestart=1

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Mode, IP, Netmask parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
Return: -7	Invalid values for each setting	Check parameters
Return: -8	Settings cannot be completed due to incorrect values for each setting	Retry after confirming parameters
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve network information.

Accessible only for administrator

<u>Parameters</u>	<u>Setting</u>
Func	Network (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Network&Kind=1

(Received)

(Example 1) When Automatic Setup is selected

HTTP/1.0 200 OK

Content-type: text/plain

Mode:0

Open:0

Bandwidth:2147483647

ConnectType:1

Example 2 (Static is selected):

HTTP/1.0 200 OK

Content-type: text/plain

Mode:2

CamBootpEn:1

Port:80

IP:xxx.xxx.xxx.xxx

Netmask:xxx.xxx.xxx.xxx

Gateway:xxx.xxx.xxx.xxx

DNS1:xxx.xxx.xxx.xxx

DNS2:xxx.xxx.xxx.xxx

Bandwidth:2147483647

ConnectType:1

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

3.10 Retrieve camera model information (Get) Func=Model

Get: Retrieve camera model information.

Accessible only for administrator and general users (BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level1,3users)

(Includes guest users, when administrator allows guest users to access the camera)

Parameters	Setting
Func	Model (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Model&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

ModelName:BL-C30 Model name

BootFirm:V1.10 Boot version

AplFirm:1.10 Apl version

Cgii/fVer:1.00 CGI interface version

ModelType:2010000100010101 Model information as shown below.

Function:0101010101 Function information as shown below.

UserAgent:Mozilla/4.0 (Compatible; MSIE 6.0; Windows NT 5.1; .Net CLR 1.1.4322)

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters

ModelType: The Model information allow you to check the status. (Same value as model in the status pages)

Function: Function information. It is 5 bytes data. It shows the function information like this.

| PTZF | PHY | Audio | SD | IPsec |

PTZF ••• 00: Non, 01: with Pan/Tilt, 02: with Focus, 04: with Zoom, 07: with Pan/Tilt/Zoom/Focus

PHY ••• 01: with wired LAN , 10: with wireless LAN, 11: with both wired and wireless LAN

Audio ••• 00: Not supported, 01: G.726 supported

SD ••• 00: Not supported, 01: SD supported

IPsec ••• 00: Not supported, 01: IPsec supported

UserAgent: the HTTP client's UserAgent information from HTTP client (e.g., browser) to the camera.

3.11 User information setting, retrieval (Set, Get) Func=User

Set: Set general user information.

Accessible only for administrator

Parameters	Setting
Func	User (Fixed)
Kind	1 (Fixed)
UNo ^{Note 1}	General user registration no. 1-50 (However, user registration no. 1: guest user)
Mode ^{Note 1}	Operation Mode 1: Create 2: Modify 3: Delete
UserID	User name Note: 6-15 one-byte characters Only one-byte characters can be used. The following cannot be used: [Space], ["], ['], [&], [<], [>], [:].
UserPassword	Password Note: 6-15 one-byte characters Only one-byte characters can be used. The following cannot be used: [Space], ["], ['], [&], [<], [>], [:].
BL-C10/C30/C1/C20	
ULevel ^{Note 1}	Access level (Because C1/C20 are not supported preset control, Level2 is set to Level1.) 1: Level 1 (Camera viewing only) 2: Level 2 (Camera viewing and preset control) 3: Level 3 (Camera viewing and all controls) (Default setting)
BB-HCM,HCS,HCE models ,KX-HCM110,280A	
LimitTime ^{Note 1}	Display time limit of motion images 65535: No limit, 0: Do not display (Default) 10: 10 seconds, 30: 30 seconds, 60: 1 minute, 300: 5 minutes, 600: 10 minutes, 1800: 30 minutes, 3600: 60 minutes
LimitInterva ^{Note 1}	Still image refresh interval 3: 3 seconds (Default), 5: 5 seconds, 10: 10 seconds, 30: 30 seconds, 60: 60 seconds
UPanTiltCont ^{Note 1}	Pan/Tilt control. 1: Enable, 0: Disable (Default)
UPresetCont ^{Note 1}	Preset control. 1: Enable, 0: Disable (Default)
UClickCCCont ^{Note 1}	Click & Centering control. 1: Enable, 0: Disable (Default)
UBrightCont ^{Note 1}	Brightness control. 1: Enable, 0: Disable (Default)
UDegiOutCont ^{Note 1}	External output. : Enable, 0: Disable (Default)
UImgChgCont ^{Note 1}	Image refresh interval. 1: Enable, 0: Disable (Default)
UResoCont ^{Note 1}	Resolution control. 1: Enable, 0: Disable (Default)
UQualityCont ^{Note 1}	Image quality control. 1: Enable, 0: Disable (Default)
USnapShotCont ^{Note 1}	Snapshot. 1: Enable, 0: Disable (Default)
UHearCont ^{Note 1}	Audio output. 1: Enable, 0: Disable (Default)
USpeakCont ^{Note 1}	Microphone input. 1: Enable, 0: Disable (Default)
UMultiCont ^{Note 1}	Multi screen access. 1: Enable, 0: Disable (Default)
UBufferCont ^{Note 1}	Buffered Image Access. 1: Enable, 0: Disable (Default)
UFocusCont ^{Note 1}	Focus control. 1: Enable, 0: Disable (Default)
UZoomCont ^{Note 1}	Zoom control. 1: Enable, 0: Disable (Default)

Example 1: Set mode to 1 (Create).

Kind:1 (Fixed)

Mode 1: Create

UNo Not required

UserID User ID (6-15 one-byte characters) (Required)

UserPassword User password (6-15 one-byte characters) (Required)

(BL-C10/C30/C1/C20) (Because C1/C20 are not supported preset control, Level2 is set to Level1.)

ULevel User level 1: Level 1

2: Level 2

3: Level 3 (Level 3 is selected if ULevel is not specified.)

(BB-HCM,HCS,HCE models ,KX-HCM110,280A)

Set "1 (Enable)" or "0 (Disable)" for each of the above controls.

The default values will be used, if the parameter has not been set before and no value is specified.

Example 2: Set mode to 2 (Modify).

Kind: 1 (Fixed)
 Mode 2: Modify
 UNo Registration no.: 1-5 (Required)
 UserID User ID (6-15 one-byte characters)
 UserPassword User password (6-15 one-byte characters)
 ULevel User level

(BL-C10/C30/C1/C20)

For UserID, UserPassword, and ULevel, only modified settings are updated (i.e., if they are not modified, settings will not be updated).

(BB-HCM,HCS,HCE models ,KX-HCM110,280A)

For UserID, UserPassword, and ULevel, only customized settings are updated (i.e., if they are not customized, settings will not be updated).

Example 3: Set mode to 3 (Delete).

Kind:1 (Fixed)
 Mode 3: Modify
 UNo Registration no.: 2-50 (Required) (1: Guest user cannot be deleted)

Upon error:

<u>Return value</u>	<u>Condition</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1		No Func parameter	Check parameters
Return: -2		No Kind parameter	Check parameters
Return: -3		No Mode	Check parameters
	During Create	No UserID or UserPassword	Check parameters
	During Modify or Delete	No UNo	Check parameters
Return: -4	During Create or Modify	Invalid UserID or UserPassword (Max. number of characters exceeded, etc.)	Check parameters
	During Modify or Delete	Invalid UNo (number is higher than 51, or there is no user number)	Check parameters
		BL-C10/C30 Not accessible during Privacy Mode	Disable Privacy Mode
Return: -7	During Create or Modify	Invalid Mode value Less than 6 characters are entered for UserID or UserPassword	Check parameters Check parameters
	During Modify or Delete	Invalid UNo (0 or less)	Check parameters
Return: -8		Invalid ULevel Create or Modify cannot be completed due to incorrect LimitTime, LimitInterval, etc.	Check parameters Check parameters
Return: -9		Administrator ID and password not set	Set administrator ID and password
Return: -11		Not accessed by administrator	Retry as administrator

Get: Retrieve general user information.**Accessible only for administrator**

Parameters	Setting
Func	User (Fixed)
Kind	1 (Fixed)
UNo ^{Note 1}	General user registration no.: 1-50
UserID	User name (6-15 one-byte characters)

To retrieve general user information, specify UNo or UserID.

When both UNo and UserID are specified, UNo will take priority (UserID will be ignored).

Example:

```

Get?Func=User&Kind=1&UNo=2
(Received)
HTTP/1.0 200 OK\r\n
Content-type: text/plain\r\n\r\n
UNo:2
UserID:robert\r\n
(BL-C10/C30/C1/C20)
ULevel:3\r\n
(BB-HCM,HCS,HCE models ,KX-HCM110,280A)
LimitTime:0\r\n
LimitInterval:3\r\n
UPanTiltCont:0\r\n
UPresetCont:0\r\n
UClickCCont:0\r\n
UBrightCont:0\r\n
UDegiOutCont:0\r\n
UImgChgCont:0\r\n
UResoCont:0\r\n
UQualityCont:0\r\n
USnapShotCont:0\r\n
UHearCont:0\r\n
USpeakCont:0\r\n
UMultiCont:0\r\n
UBufferCont:0\r\n
UFocusCont:0\r\n
UZoomCont:0\r\n

```

*UFocusCont and UZoomCont are available to retrieve for HCM381/HCE481.

*For security, user passwords cannot be retrieved.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	Retrieving information cannot be completed due to incorrect UserID and UNo.	Check parameters
Return: -4	Func setting not completed, or each setting not completed.	Check parameters
	Unregistered UNo entered	Check parameters
	BL-C10/C30	Disable Privacy Mode
	Not accessible during Privacy Mode	Check parameters
Return: -7	Max. number of characters for UserID exceeded, or incorrect UserID	Check parameters
	Less than 6 characters are entered for UserID	Check parameters
Return: -8	Searching not completed due to incorrect setting value.	Retry after confirming parameters
Return: -11	Not accessed by administrator	Retry as administrator

3.12 Camera control (nphControlCamera)

Administrator and general users authorized to access the Direction parameter (BL-C10/C30: Level 2, 3 users, depending on the parameter) (BL-C1/C20 Level 1,3 users)

(Includes guest users, when administrator allows guest users to access the camera)

nphControlCamera is used for camera control (movement and brightness control). Pan, tilt, pan scan, tilt scan, brightness, etc. can be set.

nphControlCamera: Camera control commands

Parameters	Setting
Direction	PanLeft (pan to left) PanRight (pan to right) TiltUp (tilt up) TiltDown (tilt down) PanScan (Pan scan; camera moves throughout the horizontal range and returns to the original position) TiltScan (Tilt scan; camera moves throughout the vertical range and returns to the original position) HomePosition (Home position; camera returns to the home position) Preset *1 (camera moves to a preset position) Darker (darken the image) DefaultBrightness (Default image brightness) Brighter (Brighten the image) ZoomTele (Standard Zoom) ZoomWide (Wide Zoom) FocusNear (Near) FocusAuto (Auto focus) FocusFar (Far)

* ZoomTele, ZoomWide, FocusNear, FocusAuto and FocusFar are supported only by Zoom and Focus-enabled cameras (such as HCM381).

* 1 When using Direction=Preset, use the following parameters.

Parameters	Setting
PresetOperation	Move (Move to the assigned preset position)
Data ^{Note 1}	1-20 (Desired preset position no.)

Example:

(Pan left)

nphControlCamera?Direction=PanLeft

Accessible only for administrator and general users authorized to control Pan/Tilt (BL-C10/C30: Level 3 users)

(Tilt scan)

nphControlCamera?Direction=TiltScan

Accessible only for administrator and general users authorized to control Pan/Tilt (BL-C10/C30: Level 3 users)

(Home position)

nphControlCamera?Direction=HomePosition

Accessible only for administrator and general users authorized to move camera to the Home position (BL-C10/C30: Level 2, 3 users)

(Move to preset position 1)

nphControlCamera?Direction=Preset&PresetOperation=Move&Data=1

Accessible only for administrator and general users authorized to move camera to preset positions (BL-C10/C30: Level 2, 3 users)

(Darken the image)

nphControlCamera?Direction=Darker

Accessible only for administrator and general users authorized to control camera brightness (BL-C10/C30: Level 3 users)

*1. Set the following parameters when controlling focus manually. (BB-HCM381,KX-HCM280A,BB-HCE481)

Parameters	Setting
Direction	FocusNear (Near) FocusFar (Far)
Dist ^{Note 1}	1: Small displacement, 2: Large displacement

Example:

(Manual focus control)

nphControlCamera?Direction=FocusNear&Dist=1

3.13 MotionJPEG retrieval (Real-time) (nphMotionJpeg)

Accessible for administrator and general users authorized to retrieve MotionJPEG

(BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20: Level 1,3 users)

(Includes guest users, when administrator allows guest users to access the camera)

Used for retrieving MotionJPEG data (motion images) from the camera.

Use a viewer that can playback buffered images on demand to enable real-time monitoring.

Note: Before saving buffered image data (for example, to the computer's hard disk), check the image data size and make sure that there is enough space for saving image data.

Saving a large volume of data may degrade the computer's performance (System instability, etc.).

nphMotionJpeg: Retrieve MotionJPEG.

Parameters	Setting
Resolution	160x120 320x240 640x480
Quality	Motion (Favor motion) Standard (Standard quality) Clarity (Favor clarity)

Image display procedure

(1) Start reception

Establish a connection (open the socket), and send the following command string to HTTP port.

"GET

http://xxx.xxx.xxx.xxx:yy/nphMotionJpeg?Resolution=320x240&Quality=Standard

HTTP/1.0¥r¥n"

xxx.xxx.xxx.xxx: IP address or domain name

yy: HTTP port no. (Not required if the port number is set to 80)

(2) Data reception

"HTTP/1.0 200 OK¥r¥n"

"Content-Type: multipart/x-mixed-replace; boundary=--myboundary..."

"...--myboundary.Content-type: image/jpeg..."

JPEG binary data No. 1 (Hexadecimal notation="FFD8.....FFD9")

"...--myboundary.Content-type: image/jpeg..."

JPEG binary data No. 2 (Hexadecimal notation="FFD8.....FFD9")

:

:

"...--myboundary.Content-type: image/jpeg..."

JPEG binary data No. N (Hexadecimal notation="FFD8.....FFD9")

* Above mentioned Content-type: From FFD8(following image/jpeg) to "--myboundary" (just before FFD9) is 1 JPEG data file.

(3) Image displaying/saving

From the data above, extract JPEG data, and display the extracted consecutively or save it.

A viewer that supports the above data is required to view images.

(4) Finish reception

End connection (close the socket).

3.14 SnapshotJPEG retrieval (Real-time retrieval of Snapshot JPEG data)(SnapshotJPEG)
Accessible for administrator and general users authorized to retrieve SnapshotJPEG
(BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20: Level 1,3 users)
(Includes guest users, when administrator allows guest users to access the camera)

SnapshotJPEG: Retrieve SnapshotJPEG.

Parameters	Setting
Resolution	160x120 320x240 640x480
Quality	Motion (Favor motion) Standard (Standard quality) Clarity (Favor clarity)

SnapshotJPEG should call every 3 seconds or more.

Example:

SnapshotJPEG?Resolution=320x240&Quality=Standard

3.15 MotionJPEG retrieval (nphReplayRecord)

Accessible for administrator and all general users

(BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20: Level 1,3 users)

(BB-HCM,HCS,HCE models,KX-HCM110,280A: All general users)

(Includes guest users, when administrator allows guest users to access the camera)

nphReplayRecord: Retrieve buffered image.

Parameters	Setting
Type	Buffer/transfer trigger no. 1 to 5
HCM3xx models Record	First image frame of the motion image. No. 0-n
Interval (except BL-C10)	Interval: Buffered image retrieving interval (mS) 1 to 1000 Note: Default is 100. default number used if not specified.
DeleteMode (except BL-C10)	DeleteMode: After buffered image retrieving , buffered image delete or not 1: delete 0: none delete(Default is 0, default number used if not specified.) (Accessible for administrator)

Example 1:

Retrieve a buffered MotionJPEG image from buffer/transfer trigger No. 4, which operates under the conditions set by the buffer/transfer setting.

nphReplayRecord?Type=4

Example 2: HCM3xx models

Retrieve a buffered MotionJPEG image starting from its first image frame from buffer/transfer trigger No. 4, which operates under the conditions set by the buffer/transfer setting.

nphReplayRecord?Type=4&Record=0

Note: "Interval" and "DeleteMode" parameter are added from **Cgii/fVer:1.06**, and it sets at retrieving intervals and the buffered image after it retrieves it can be deleted.

But BL-C10 is not supported this function.

Example 3:

Retrieve a buffered MotionJPEG image starting from its first image frame from buffer/transfer trigger No. 4, which operates under the conditions set by the buffer/transfer setting.

Retrieving interval is 200 mS. After retrieving, buffered image is deleted.

nphReplayRecord?Type=4&Record=0&Interval=200&DeleteMode=1

Note: "DeleteMode" is available only when administrator accesses.

In general user access, "DeleteMode" is invalid.

Note: When "DeleteMode" sets 1, "Record" must be set 0.

Even if "Record" sets excluding 0, at "DeleteMode" it is downloaded from the first No.0 image and deleted from the first No.0 image all in "Type" set Trigger no..

Blank gray screen image data (160x120) will be retrieved, if no image is found in buffer.

3.16 Buffered image retrieval (JPEG retrieval) (BufferingImage)

Accessible for administrator and all general users

(BL-C10/C30: Level 1, 2, 3 users) (BL-C1/C20: Level 1,3 users)

(BB-HCM,HCS,HCE models,KX-HCM110,280A: All general users)

(Includes guest users, when administrator allows guest users to access the camera)

BufferingImage: Retrieve buffered image.

Parameters	Setting
ImageAdr	0-n (Image No. 0 (the first image) to n)
Type	Buffer/transfer trigger no. 1-5

Example:

Retrieve a buffered SnapshotJPEG image from buffer/transfer trigger No. 4, which operates under the conditions set by the buffer/transfer setting.

BufferingImage?Type=4&ImageAdr=0

3.17 Buffered image deletion (Set) Func=ImageTransfer&Kind=n&ClearImage=1

Set: Delete buffered images.

Accessible only for administrator

Parameters	Setting
Func	ImageTransfer
Kind ^{Note 1}	Buffer/transfer trigger no. 1-5
ClearImage	Delete. 1 (Fixed)

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n ••••• 0: OK, -n: Error

The meaning of "-n" values returned upon error is explained below.

Example:

Delete a buffered image from buffer/transfer trigger No. 4, which operates under the conditions set by the buffer/transfer setting.

Set?Func=ImageTransfer&Kind=4&ClearImage=1

When the ClearImage parameter is set, the other parameters set by Func=ImageTransfer will become ineffective, and only image deletion can be performed.

Only parameter 1 can be set for ClearImage. When attempting to set other values, an error will be issued.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Incomplete Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
Return: -7	Invalid ClearImage parameter value	Check parameters
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

3.18 Retrieving information on wireless radio wave condition (Get) Func=Wireless

(BB-HCM371,BL-C30,BL-C20)

Get: Retrieve information on wireless radio wave condition.

Accessible only for administrator

Parameters	Setting
Func	Wireless (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Wireless&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

Data:10 ••••• Wireless radio wave value issued, 10%

A higher number indicates stronger radio wave reception.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Incomplete Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

3.19 Retrieving total number of frames for buffered images (Get) Func=Playback

Get: Retrieve total number of frames for buffered images.

Accessible for administrators and general users authorized to access buffered images

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level 1, 3 users)

(BB-HCM,HCS,HCE models,KX-HCM110,280A: General users authorized to access buffered images)

Parameters	Setting
Func	Playback (Fixed)
Kind ^{Note 1}	Buffer setting no. 1-5

Example:

Get?Func=Playback&Kind=4

(Retrieve total number of frames for buffered image setting no. 4)

(Received)

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Data:24¥r¥n ••••• Current total number of frames is 24

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Incomplete Func value or Invalid Kind value	Check parameters
Return: -8	Number of frames cannot be retrieved	Retry
Return: -11	Not accessed by administrator	Retry as administrator
	No authorization to access buffered images	Retry with authorization to access buffered images

3.20 Retrieving sensor detection information (Get) Func=Sensor

Get: Retrieve sensor detection information.

Accessible only for administrator

Parameters	Setting	
Func	Sensor (Fixed)	
Kind ^{Note 1}	BL-C10/C30	BB-HCM, HCS,HCE models,KX-HCM110,280A
	1: Sensor	1: Alarm1 , 2: Alarm2

Example:

Get?Func=Sensor&Kind=1

(Retrieve current sensor detection status)

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

Data:1 (BL-C10/C30)Sensor is currently making a detection

(BB-HCM, HCS,HCE models,KX-HCM110,280A) The Alarm1 input is in the state of opening.

or

Data:0 (BL-C10/C30)Sensor is currently not making a detection

(BB-HCM, HCS,HCE models,KX-HCM110,280A) The Alarm1 input is in the state of the

short-circuit.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Incomplete Func value or Invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
Return: -7	Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: BB-HCS301 and KX-HCM280A don't have Alarm2.

Note: If (BL-C10/C30)Sensor is currently making a detection, the output (Data:1) is held for 1 second since Cgii/fVer1.06.

Note: BL-C1/C20 don't have Sensor, Alarm1 and Alarm2.

3.21 AC power source frequency setting and information retrieval (Set, Get) Func=Powerfrq

(BL-C10/C30/C1/C20, BB-HCM381, KX-HCM110,280A, BB-HCE481)

Set: Setting AC power source frequency information.

Accessible only for administrator

Parameters	Setting
Func	Powerfrq (Fixed)
Kind	1 (Fixed)
Data ^{Note 1}	50: 50 Hz 60: 60 Hz

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=Powerfrq&Kind=1&Data=50

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Incomplete Func value or Invalid Kind value	Check parameters
	BL-C10/C30	Disable Privacy Mode
	Not accessible during Privacy Mode	
	Invalid data setting value	Check parameters
Return: -6	Error while writing to flash memory	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve power supply frequency information setting.

Accessible only for administrator

Parameters	Setting
Func	Powerfrq (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Powerfrq&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

Data:60

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Incomplete Func value or Invalid Kind value	Check parameters
Return: -8	Retrieving information not allowed	Retry
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

3.22 Reset to factory default settings (Set) Func=FactoryDef

Set: Reset all settings (except for clock setting) to the factory default settings.

Accessible only for administrator

Parameters	Setting
Func	FactoryDef (Fixed)
Kind	1 (Fixed)
Data	OK (Fixed)

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=FactoryDef&Kind=1&Data=OK

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or incorrect Kind value	Check parameters
	BL-C10/C30	Disable Privacy Mode
	Not accessible during Privacy Mode	
Return: -7	Invalid Data setting value	Check parameters
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Caution: Buffered images are erased when you execute this function.

Never turn off the power during Reset to Factory Default.

After resetting, Network setting will return to "Automatic setting".

3.23 Limit Continuous Motion JPEG setting, retrieval (Set, Get) Func=TopView

Set: Set Limit Continuous Motion JPEG setting. (BL-C10/C30/C1/C20)

Accessible only for administrator

Parameters	Setting
Func	TopView (Fixed)
Kind	1 (Fixed)
TMLimit ^{Note 1}	Motion images playback time 0: No limit 10: 10 seconds 30: 30 seconds 60: 60 seconds 300: 5 minutes 600: 10 minutes 1800: 30 minutes 3600: 60 minutes
TMInterval ^{Note 1}	Still image refresh interval 3: 3 seconds 5: 5 seconds 10: 10 seconds 30: 30 seconds 60: 60 seconds

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=TopView&Kind=1&TMLimit=0&TMInterval=30

Note: Either TMLimit or TMInterval can be set; both cannot be set.

When there are no parameters or no values entered for TMLimit and TMInterval, an error will be returned
(Example: TMLimit=&TMInterval=&Return=)

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No parameters or values entered for either TMLimit or TMInterval	Check parameters
Return: -4	Invalid Func value or incorrect Kind value BL-C10/C30 Not accessible during Privacy Mode Unsupported feature for HCM,HCS models	Check parameters Disable Privacy Mode Retry using a model supporting the feature
Return: -8	TMLimit and TMInterval values cannot be set	Retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve Limit Continuous Motion JPEG information setting.

Accessible only for administrator and general users authorized to set image refresh interval

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level 1,3 users)

(BB-HCM,HCS,HCE models , KX-HCM110,280A: General users authorized to set image refresh interval)

Parameters	Setting
Func	TopView (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=TopView&Kind=1
(Received)
HTTP/1.0 200 OK
Content-type: text/plain
TMLimit:0
TMInterval:30

BB-HCM,HCS,HCE models,KX-HCM110,280A also support "Get?Func=TopView" for general users authorized to control Image refresh interval to get information on Display time limit of motion images.
TMInterval is set to 65535 (Unlimited), if accessed to "Get?Func=TopView" as an administrator using BB-HCM,HCS,HCE models,KX-HCM110,280A.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or incorrect Kind value	Check parameters
Return: -8	TMLimit and TMInterval values cannot be retrieved	Retry
Return: -11	Not accessed by administrator	Retry as administrator

3.24 NTP server-related setting, retrieval (Set, Get) Func=Ntp

Set: Set NTP server setting.

Accessible only for administrator

Parameters	Setting
Func	Ntp (Fixed)
Kind	1 (Fixed)
NtpEnable* <small>Note 1</small>	Automatic clock adjustment by NTP server 1: Enable, 0: Disable
NtpServer*	NTP server address or host name Note: Consult network administrator or provider for the address and name before entering them.
TimeZone* <small>Note 1</small>	Time zone -24: GMT-12:00 -23: GMT-11:30 -22: GMT-11:00 -21: GMT-10:30 -20: GMT-10:00 Hawaii -19: GMT-09:30 -18: GMT-09:00 Alaska -17: GMT-08:30 -16: GMT-08:00 Pacific Standard Time -15: GMT-07:30 -14: GMT-07:00 Mountain Standard Time -13: GMT-06:30 -12: GMT-06:00 Central Standard Time -11: GMT-05:30 -10: GMT-05:00 Eastern Standard Time -9: GMT-04:30 -8: GMT-04:00 -7: GMT-03:30 -6: GMT-03:00 -5: GMT-02:30 -4: GMT-02:00 -3: GMT-01:30 -2: GMT-01:00 -1: GMT-00:30 0: GMT 00:00 Greenwich Mean Time 1: GMT+00:30 2: GMT+01:00 Central Europe 3: GMT+01:30 4: GMT+02:00 Eastern Europe 5: GMT+02:30 6: GMT+03:00 Baghdad 7: GMT+03:30 8: GMT+04:00 9: GMT+04:30 10: GMT+05:00 11: GMT+05:30 12: GMT+06:00 13: GMT+06:30 14: GMT+07:00 15: GMT+07:30 16: GMT+08:00 China, Western Australia 17: GMT+08:30 18: GMT+09:00 Japan 19: GMT+09:30 Central Australia 20: GMT+10:00 Eastern Australia 21: GMT+10:30 22: GMT+11:00

	23: GMT+11:30 24: GMT+12:00
--	--------------------------------

*Items that do not require settings (Items that retain the last settings)

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

The meaning of "-n" values returned upon error are explained below.

Example:

Set?Func=Ntp&Kind=1&NtpEnable=1&NtpServer=xxx.xxx.xxx.xxx&TimeZone=18

Perform NTP automatic setting. NTP server: xxx.xxx.xxx.xxx Time zone: GMT.+9:00 Japan

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	Settings not completed for all NtpEnable, NtpServer and TimeZone settings	Check parameters
Return: -4	Invalid Func value or incorrect Kind value BL-C10/C30 Not accessible during Privacy Mode	Check parameters Disable Privacy Mode
Return: -7	Invalid NtpEnable, NtpServer value	Check parameters
Return: -8	NtpServer, TimeZone setting error	Check parameters
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve NTP server related information.

Accessible only for administrator

<u>Parameters</u>	<u>Setting</u>
Func	Ntp (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Ntp&Kind=1

(Received)

HTTP/1.0 200 OK

Content-type: text/plain

NtpEnable:1

NtpServer:xxx.xxx.xxx.xxx

TimeZone:18

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or incorrect Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

3.25 Image display (ImageViewer)

Accessible for administrators and general users authorized to view images

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level1,3 users)

(BB-HCM,HCS,HCE models , KX-HCM110,280A: All general users)

(Includes guest users, when administrator allows guest users to access the camera)

ImageViewer is used to display images and set various image qualities. By setting ImageViewer parameters, you can specify to display motion or still images, select image resolution, quality (favor motion, clarity, etc.) and still image interval.

ImageViewer: Accessible for administrators and all general users

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level1,3 users)

(BB-HCM,HCS,HCE models , KX-HCM110,280A: All general users)

Parameters	Setting
Mode	Motion (Display motion images) Refresh (Display still images)
Resolution	160x120 320x240 640x480
Quality	Motion (Favor motion) Standard (Standard quality) Clarity (Favor clarity)
Interval	Specify the image refresh interval for still images in seconds

Example:

(Display motion images)

ImageViewer?Resolution=320x240&Quality=Standard&Mode=Motion

(Display still images at a refresh rate of 1 per 5 seconds)

ImageViewer?Resolution=320x240&Quality=Standard&Mode=Refresh&Interval=5

3.26 Display the camera name and Capture Image button and audio control (CgiTitle)

Accessible for administrators and general users authorized to view images

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level1,3 users)

(BB-HCM,HCS,HCE models , KX-HCM110,280A: General users authorized to access images)

(Includes guest users, when administrator allows guest users to access the camera)

CgiTitle is used to display the camera name and Capture Image button. By setting CgiTitle parameters, you can specify the width of the title bar.

Users must be authorized to control Audio output and Microphone input to access Audio control. (Audio features are only for models that support audio.)

CgiTitle: Accessible for administrators and general users authorized to view images

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level1,3 users)

(BB-HCM,HCS,HCE models , KX-HCM110,280A: General users authorized to view images)

Parameters	Setting
Resolution	160x120 320x240 640x480
Sound	Enable :Audio function enable (When unsetting it, it becomes disable.)
Size	Specifies the width of the title bar STD (Standard) Expand (Standard x1.5)

Example:

CgiTitle?Resolution=320x240&Size=STD&Sound=Enable

3.27 Audio setting, retrieval (Set,Get) Func=AudioSetup

(BB-HCM,HCS,HCE models, KX-HCM110)

Set: Set audio.

Accessible only for administrator

Parameters	Setting
Func	AudioSetup (Fixed)
Kind	1 (Fixed)
OutputEnable ^{Note 1}	Output (Computer microphone input) 1: Enable, 0: Disable
	HCS301 Output 1: Remote Audio, 2: Local Audio, 3: Local + Remote, 0: Disable
OutputGain ^{Note 1}	Camera audio volume (Speaker) 3: Max., 2: Standard, 1: Min.
TimeOut	Duration (In Seconds) 60: 1 minute, 120: 2 minutes, 180: 3 minutes, 300: 5 minutes, 600: 10 minutes, 1200: 20 minutes, 1800: 30 minutes, 3600: 60 minutes Note: Available values are 60 – 3600, but the values listed above are available to specify on the Web screen.
InputEnable ^{Note 1}	Input (Computer audio output) 1: Enable, 0: Disable
InputGain ^{Note 1}	Camera microphone sensitivity 3: Max., 2: Standard, 1: Min.
PanTiltMute ^{Note 1}	Mute during Pan/Tilt 1: Enable, 0: Disable

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

Example:

Set?Func=AudioSetup&Kind=1&OutputEnable=1&OutputGain=2&TimeOut=3600

&InputEnable=1&InputGain=2&PanTiltMute=1

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	OutputGain, TimeOut, InputEnable, InputGain and PanTiltMute parameters missing	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -7	Invalid value (e.g. OutputEnable)	Check values
Return: -8	Unable to set value (e.g. TimeOut)	Check parameters and retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve audio setting.

Accessible only for administrator

Parameters	Setting
Func	AudioSetup (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=AudioSetup&Kind=1

(Return)

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

OutputEnable:1¥r¥n

OutputGain:2¥r¥n

TimeOut:60¥r¥n

InputEnable:1¥r¥n

InputGain:2¥r¥n

PanTiltMute:0¥r¥n

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -8	Error retrieving OutputGain and InputGain values	Retry
Return: -11	Not accessed by administrator	Retry as administrator

3.28 Network (IPv6) setting, retrieval (Set,Get) Func=V6Network

(except BL-C10/C30/C1/C20)

Set: Set IPv6 network information.

Accessible only for administrator

Parameters	Setting
Func*	V6Network (Fixed)
Kind*	1 (Fixed)
Mode* <small>Note 1</small>	Network connection type 0 : Auto, 2 : Static
Mode=0 (Auto)	
Open◇ <small>Note 1</small>	Internet access. 128: Public, 0: Private
DNS1▲	DNS server address 1 (Caution 1)
DNS2▲	DNS server address 2 (Caution 1)
Bandwidth◇ <small>Note 1</small>	Communication bandwidth limit (The default value is used, if not specified.) 13107: 0.1 Mbps, 26214: 0.2 Mbps, 39321: 0.3 Mbps, 65536: 0.5 Mbps, 131072: 1 Mbps, 2147483647: Unlimited
ConnectType◇ <small>Note 1</small>	Connection type (The default value is used, if not specified.) 1: Automatic, 2: 100 Mbps/Full duplex, 3: 100 Mbps/Half duplex, 4: 10 Mbps/Full duplex, 5: 10 Mbps/Half duplex
AutoRestart	Auto restart. 1: Enable, 0: Disable (Disabled, if not specified.)
Mode=2 (Static)	
Open◇ <small>Note 1</small>	Internet address. 128: Public, 0: Private
Port◇	Port number for Internet connection (Default: 80) (The default value is used, if not specified.) 1 - 65535
IP*	IP address (Caution 1)
Gateway▲	Default gateway (Caution 1)
DNS1▲	DNS server address 1 (Caution 1)
DNS2▲	DNS server address 2 (Caution 1)
Bandwidth◇ <small>Note 1</small>	Communication bandwidth limit (The default value is used, if not specified.) 13107: 0.1 Mbps, 26214: 0.2 Mbps, 39321: 0.3 Mbps, 65536: 0.5 Mbps, 131072: 1 Mbps, 2147483647: Unlimited
ConnectType◇ <small>Note 1</small>	Connection type (The default value is used, if not specified.) 1: Automatic, 2: 100 Mbps/Full duplex, 3: 100 Mbps/Half duplex, 4: 10 Mbps/Full duplex, 5: 10 Mbps/Half duplex
AutoRestart <small>Note 1</small>	Auto restart. 1: Enable, 0: Disable (Disabled, if not specified.)

Caution 1) : Delimit 8 hexadecimal values using ":". Zero "0" can be omitted as "::". (e.g. fe80:2:3:4:5:6::8)

Legend:

*: Required parameter.

✧: Optional parameter. (Inherits the existing settings.)

▲: Returns no error, but the value is set to NULL, if omitted.

Return value:

HTTP/1.0 200 OK

Content-type: text/plain r n r n

Return: 0¥r¥n ••••• 0: OK, -n: Error

Example:

Auto connection, private Internet address, unlimited bandwidth, auto connection type, auto restart enabled.

Set?Func=V6Network&Kind=1&Mode=0&Open=0&DNS1=3ffe:0200:0000:010a:0000:0000:0000:0001

&DNS2=3ffe:0200:0000:010a:0000:0000:0000:0001&Bandwidth=2147483647&ConnectType=1

&AutoRestart=1

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Mode and IP parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -7	Invalid value for each range setting	Check the each setting value
Return: -8	Unable to set value	Check parameters and retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve IPv6 network information.

Accessible only for administrator

<u>Parameters</u>	<u>Setting</u>
Func	V6Network (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=V6Network&Kind=1

(Return)

(Example 1: Auto connection)

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Mode:0¥r¥n

Open:0¥r¥n

DNS1:3ffe:0200:0000:010a:0000:0000:0001¥r¥n

DNS2:3ffe:0200:0000:010a:0000:0000:0001¥r¥n

Bandwidth:2147483647¥r¥n

ConnectType:1¥r¥n

(Example 2: Static connection)

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Mode:2¥r¥n

Open:0¥r¥n

Port:80¥r¥n

IP:fe80:0:0:0:280:f0ff:fe33:1fa¥r¥n

Gateway:¥r¥n

DNS1:3ffe:0200:0000:010a:0000:0000:0001¥r¥n

DNS2:3ffe:0200:0000:010a:0000:0000:0001¥r¥n

Bandwidth:2147483647¥r¥n

ConnectType:1¥r¥n

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -11	Not accessed by administrator	Retry as administrator

3.29 Daylight saving time setting, retrieval (Set,Get) Func=Daylight

Set: Set daylight saving time.

Accessible only for administrator

Parameters	Setting
Func*	Daylight saving (Fixed)
Kind*	1 (Fixed)
DstEnable* <small>Note 1</small>	Automatically adjust clock for daylight saving changes (Required). 1: Enable, 0: Disable
BeginMonth◇ <small>Note 1</small>	Starting month: 1-12 (The default value is used, if not specified.)
BeginDay◇ <small>Note 1</small>	Starting day 16: First Sunday, 32: Second Sun, 48: Third Sun, 64: Fourth Sun, 80: Last Sun 17: First Monday, 33: Second Mon, 49: Third Mon, 65: Fourth Mon, 81: Last Mon 18: First Tuesday, 34: Second Tue, 50: Third Tue, 66: Fourth Tue, 82: Last Tue 19: First Wednesday, 35: Second Wed, 51: Third Wed, 67: Fourth Wed, 83: Last Wed 20: First Thursday, 36: Second Thu, 52: Third Thu, 68: Fourth Thu, 84: Last Thu 21: First Friday, 37: Second Fri, 53: Third Fri, 69: Fourth Fri, 85: Last Fri 22: First Saturday, 38: Second Sat, 54: Third Sat, 70: Fourth Sat, 86: Last Sat
BeginHour◇ <small>Note 1</small>	Start time: 0-23
EndMonth◇ <small>Note 1</small>	Ending month: 1-12 (The default value is used, if not specified.)
EndDay◇ <small>Note 1</small>	Ending day 16: First Sunday, 32: Second Sun, 48: Third Sun, 64: Fourth Sun, 80: Last Sun 17: First Monday, 33: Second Mon, 49: Third Mon, 65: Fourth Mon, 81: Last Mon 18: First Tuesday, 34: Second Tue, 50: Third Tue, 66: Fourth Tue, 82: Last Tue 19: First Wednesday, 35: Second Wed, 51: Third Wed, 67: Fourth Wed, 83: Last Wed 20: First Thursday, 36: Second Thu, 52: Third Thu, 68: Fourth Thu, 84: Last Thu 21: First Friday, 37: Second Fri, 53: Third Fri, 69: Fourth Fri, 85: Last Fri 22: First Saturday, 38: Second Sat, 54: Third Sat, 70: Fourth Sat, 86: Last Sat
EndHour◇ <small>Note 1</small>	End time: 0-23

Legend:

*: Required parameter.

◇: Optional parameter. (Inherits the existing settings.)

(Caution) BeginDay, BeginHour, EndMonth, EndDay and EndHour are enabled only when DstEnable=1 (Enable). These parameter settings will be ignored, if DstEnable=0 (Disable).

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n ••••• 0: OK, -n: Error

Example:

Daylight saving enabled, starting on the first Sunday of April at 2 o'clock, ending on the last Sunday of October at 2 o'clock.

Set?Func=Daylight&Kind=1&DstEnable=1&BeginMonth=4&BeginDay=16&BeginHour=2
&EndMonth=10&EndDay=80&EndHour=2

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No DstEnable parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Cxx models	Disable Privacy Mode
	Not accessible during Privacy Mode	
Return: -7	Invalid value for each range setting	Check the each setting value
Return: -8	Unable to set value	Check parameters and retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -13	Country code mismatch	Check the camera model

Get: Retrieve daylight saving time setting.

Accessible for administrator and all general users

(BL-C10/C30: Level 1, 2, 3 users)(BL-C1/C20: Level1,3 users)

(Includes guest users, when administrator allows guest users to access the camera)

Parameters	Setting
Func	Daylight (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Daylight&Kind=1

(Return)

(Example)

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

DstEnable:1¥r¥n

BeginMonth:4¥r¥n

BeginDay:16¥r¥n

BeginHour:2¥r¥n

EndMonth:10¥r¥n

EndDay:80¥r¥n

EndHour:2¥r¥n

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -13	Country code mismatch	Check the camera model

3.30 Color night vision setting, retrieval (Set,Get) Func=NightView

(BB-HCM,HCE models,KX-HCM110,280A, BL-C1/C20)

Set: Set color night vision.

Accessible only for administrator

Parameters	Setting
Func*	NightView (Fixed)
Kind*	1 (Fixed)
Data* ^{Note 1}	Enable color night vision (Required). 1: Enable, 0: Disable

Legend:

*: Required parameter.

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK, -n: Error

Example: Enable color night vision.

Set?Func=NightView&Kind=1&Data=1

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30, HCS	Retry using a model supporting the feature
Return: -7	Invalid Data value	Check the Data value
Return: -8	Unable to set Data value	Check parameters and retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve color night vision setting.

Accessible only for administrator

Parameters	Setting
Func	NightView (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=NightView&Kind=1

(Return)

(Example)

HTTP/1.0 200 OK

Content-type: text/plain

Data: 1

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -8	Unable to set value	Check parameters and retry
Return: -11	Not accessed by administrator	Retry as administrator

3.31.1 Preset control (Set) Func=PresetCnt

(except BB-HCS301, BL-C1/C20, BB-HCM403)

Set: Preset camera and get the Preset name.

Accessible only for administrator and general uses authorized to access Preset control

(C10/C30: Level 2, 3)

Parameters	Setting
Func	PresetCnt (Fixed)
Kind ^{Note 1}	Preset no. 1-8: Preset position no., 9: Sensor (C models), Alarm 1 (HCM/HCE models), 10: Alarm 2 (HCM/HCE models), 0: Home position

(Caution) Only administrator may preset Kind=9 (Sensor) and Kind=10 (Alarm).

Specifying the preset number using the Kind parameter allows the user to get the preset name. (e.g. Return: top right¥r¥n)

The value "Return:-33¥r¥n" returns, if unregistered preset position is specified.

Example: Move the camera to Preset No.4 and get the preset name.

Set?Func=PresetCnt&Kind=4

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return: bottom right¥r¥n ••••• (Preset name) 0: OK, -n: Error

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value BL-C10/C30 Not accessible during Privacy Mode	Check parameters Disable Privacy Mode
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -32	Unable to preset due to invalid value	Check parameters and retry
Return: -33	Unregistered preset	Register preset
Return: -17	Unsupported feature	Retry using a model supporting the feature

Note: Please use next command "Func=PresetCntPos" for camera supported 20 camera positions.
BB-HCS301 and BL-C1/C20 and BB-HCM403 are not supported this command.

3.31.2 Preset control for 20 Preset Camera (Set) Func=PresetCntPos

(BB-HCM,HCE models , KX-HCM110)

Set: Preset camera and get the Preset name.

Accessible only for administrator and general uses authorized to access Preset control

Parameters	Setting
Func	PresetCntPos (Fixed)
Kind ^{Note 1}	Preset no. · 8 Preset Camera 1-8: Preset position no., 81: Sensor (C models), Alarm 1(HCM/HCE models) 82: Alarm2(HCM/HCE models) 0:Home position · 20 Preset Camera 1-20: Preset position no., 81: Sensor (C models), Alarm 1(HCM/HCE models) 82: Alarm2(HCM/HCE models) 0:Home position

(Caution) Only administrator may preset Kind=81 (Sensor,Alarm1) and Kind=82 (Alarm2).

Specifying the preset number using the Kind parameter allows the user to get the preset name. (e.g. Return: top right¥r¥n)

The value "Return:-33¥r¥n" returns, if unregistered preset position is specified.

Example: Move the camera to Preset No.4 and get the preset name.

Set?Func=PresetCntPos&Kind=4

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return: bottom right¥r¥n ••••• (Preset name) 0: OK, -n: Error

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	BL-C10/C30	Disable Privacy Mode
	Not accessible during Privacy Mode	
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -32	Unable to preset due to invalid value	Check parameters and retry
Return: -33	Unregistered preset	Register preset
Return: -17	Unsupported feature	Retry using a model supporting the feature

Note: • Camera before **Cgii/fVer:1.04** is not supported this command and the return value is "Return:-17" or "Return:-4".

BB-HCS301 and BL-C1/C20 and BB-HCM403 are not supported this command.

3.32 Digital output setting (Set) Func=Doutput

(except BL-C10/C30/C1/C20)

Set: Set camera's digital output.

Accessible only for administrator and general uses authorized to control external output

Parameters	Setting
Func	Doutput (Fixed)
Kind	1 (Fixed)
Data ^{Note 1}	Digital output setting 0: Short, 1: Open

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n ••••• 0: OK, -n: Error

Example: Set the camera's digital output to Open.

Set?Func=Doutput&Kind=1&Data=1

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -7	Invalid Data value	Check the Data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Insufficient privileges	Retry as administrator or general users authorized to control external output

3.33 Image time stamp setting, retrieval (Set,Get) Func=TimeStamp

(except BL-C10/C30/C1/C20)

Set: Set time stamp format.

Accessible only for administrator

Parameters	Setting
Func	TimeStamp (Fixed)
Kind	1 (Fixed)
Data ^{Note 1}	Time stamp. 0: Do not display, 16: 12 hour time (AM/PM), 32: 24 hour time (Military time)

Set the format of the time stamp used for images.

Note: If you set Data=16 or 32, time stamp display not only on single camera image but also buffered image

If you set Data=0, time stamp do not display on camera image, but time stamp still display on the lower side in the buffered image page.

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n ••••• 0: OK, -n: Error

Example: Set the time stamp format to 24 hour time (Military time).

Set?Func=TimeStamp&Kind=1&Data=32

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -7	Invalid Data value	Check the Data value
Return: -8	Unable to set Data value	Check parameters and retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve time stamp setting.

Accessible only for administrator

Parameters	Setting
Func	TimeStamp (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=TimeStamp&Kind=1

(Return)

(Example)

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Data:32¥r¥n ••••• 24 hour time

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -11	Not accessed by administrator	Retry as administrator

3.34 Audio Retrieval (G.726 speech coder algorithm: Real-time) (nphAudio)

(BB-HCM, BB-HCS, BB-HCE models, KX-HCM110)

Accessible only for administrator and general users authorized to access Audio data

Used for retrieving audio captured by using camera's microphone. Store data cumulatively to record audio. Use a player that can playback buffered audio on demand to enable real-time monitoring.

Caution: Before saving buffered audio data (for example, to the computer's hard disk), check the audio data size and make sure that there is enough space for saving audio data.

Saving a large volume of data may degrade the computer's performance (System instability, etc.).

nphAudio: Audio Retrieval

Parameters	Setting
Mode	Mixed: HCM311 mode

Audio playback procedure

HCM311 mode

(1) Start reception

Establish a connection (open the socket), and send the following command string to HTTP port.

"GET

http://xxx.xxx.xxx.xxx:yy/nphAudio?Mode=Mixed

HTTP/1.0\r\n"

xxx.xxx.xxx.xxx: IP address or domain name

yy: HTTP port no. (Not required if the port number is set to 80)

(2) Data reception

"HTTP/1.0 200 OK\r\n"

"Content-type: multipart/x-mixed-replace;boundary=--myboundary\r\n"

"\r\n"

"--myboundary\r\n"

"x-Control=Idle\r\n"

"x-Permission=Output:Enable;Input:Disable\r\n"

"Content-Type: audio/g726-mixed\r\n"

"Content-Length: 2048\r\n\r\n"

(data)

"\r\n"

"--myboundary\r\n"

"x-Control=Idle\r\n"

"x-Permission=Output:Enable;Input:Disable\r\n"

"Content-Type: audio/g726-mixed\r\n"

"Content-Length: 2048\r\n\r\n"

(data)

"\r\n"

The lines 1 and 2 are the header lines. The line 3 takes the carriage-return/linefeed character pairs indicating the end of the header field. The value of "boundary=" on the header line 2 is the boundary string of the boundary header, namely "--myboundary" in this example.

The boundary line 1 takes the boundary string "--myboundary", and the boundary line 2 a client command statement. If the client command is STOP, the client must immediately stop sending audio data (See the sample code above). The boundary line 3 determines the available features (See the sample code above). The boundary line 4 specifies the Content-type of the data to transfer, and the boundary line 5 the audio data length. The boundary line 5 ends with the carriage-return/linefeed character pairs indicating the end of the boundary header field, and audio data of the specified length follows. (Note that the above sample code shows the carriage-return/linefeed character pairs following the audio data, and it may seem that the audio data closes with the carriage-return/linefeed character pairs, but there is no carriage-return/linefeed character pair appended at the end of the audio data.)

x-Control	Meaning	Operation that client should execute
Idle	The camera shows the state that the voice is not output from the speaker including other clients.	The voice data can be transmitted and the speaker of the camera be output. To output the speaker, it only has to transmit the voice data directly.
Start	It is shown to be able to acquire the resource by receiving and applying the transmission data from the client.	It can know becoming the voice reproduction with the speaker of the camera possible. The client may keep transmitting data.
Run	It is shown that the camera has reproduced the voice from the speaker.	Data may keep being transmitted as well as the above-mentioned.
Stop	It is shown to stop the reproduction from the speaker of the camera. The camera is waited for the transmission stop of data from the client, and changes to Idle.	When this value is received, the client should stop the transmission of data at once.

Operation that meaning and client of value of x-Control should do

x-Permission	value	Meaning
Output	Enable/Disable	Permission authority of output from speaker of PC. When this value is Disable, the voice data of the camera is not sent.
Input	Enable/disable	Mike input (output of speaker of camera) permission authority of PC. Even if data is transmitted when this value is Disable, it is not accepted to the camera.

(3) Reproduction and preservation of voice

The G.726 voice data is taken out of the above-mentioned data, and it continuously reproduces or it preserves it.

It is necessary to prepare the correspondence player in the above-mentioned data to reproduce the voice.

(4) Finish reception

End connection (close the socket).

3.35 Synchronized Image/Audio Retrieval (MJPEG/G.726 speech coder algorithm) (nphVideo)

(except BL-C10/C30/C1/C20)

Accessible only for administrator and general users authorized to view camera images and access Audio data

Used for retrieving motion images and audio from the camera. Store data cumulatively to record audio image. Use a player that can playback buffered images and audio on demand to enable real-time monitoring.

Caution: Before saving buffered image/audio data (for example, to the computer's hard disk), check the image/audio data size and make sure that there is enough space for saving data.

Saving a large volume of data may degrade the computer's performance (System instability, etc.).

nphVideo: Synchronized Image/Audio Retrieval

Parameters	Setting
Mode	0 (Fixed). Reserved for future expansion.
Resolution	160x120 320x240 (The default setting will be used, if the user is not an authorized user.) 640x480
Quality	Motion (Favor motion) Standard (Standard quality) (The default setting will be used, if the user is not an authorized user.) Clarity (Favor clarity)

Image display procedure

(1) Start reception

Establish a connection (open the socket), and send the following command string to HTTP port.

"GET

http://xxx.xxx.xxx.xxx:yy/nphVideo?Mode=0&Resolution=320x240&Quality=Standard

HTTP/1.0\r\n"

xxx.xxx.xxx.xxx: IP address or domain name

yy: HTTP port no. (Not required if the port number is set to 80)

(2) Data reception

"HTTP/1.0 200 OK\r\n"

"Content-type: multipart/x-mixed-replace: boundary=--myboundary\r\n"

"\r\n"

"--myboundary\r\n"

"Content-type: audio/g726\r\n"

Content-length: [audio length]\r\n\r\n"

(Audio data)

"\r\n"

"--myboundary\r\n"

"Content-type: image/jpeg\r\n"

Content-length: [image length]\r\n\r\n"

(Image data)

"\r\n"

(3) Image with audio displaying/saving

From the data above, extract JPEG data and G.726 audio, and playback or save them.

Or, save the extracted data as an audio image.

A viewer or a player that supports the extracted data is required to view images and playback the audio.

(4) Finish reception

End connection (close the socket).

3.36 Vertical resolution setting, retrieval (Set,Get) Func=OddMode

(BB-HCS301,BB-HCM381,KX-HCM280A,BB-HCE481)

Set: Set vertical resolution.

Accessible only for administrator

Parameters	Setting
Func	OddMode (Fixed)
Kind	1 (Fixed)
Data	Vertical resolution. 0: 480, 1: 240

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return:0: OK, -n: Error

Example: Set the vertical resolution to 480.

Set?Func=OddMode&Kind=1&Data=0

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -7	Invalid Data value	Check the Data value
Return: -8	Unable to set value due to invalid Data value	Check parameters and retry
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve vertical resolution setting.

Accessible only for administrator

Parameters	Setting
Func	OddMode (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=OddMode&Kind=1

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

Data:0: Vertical resolution: 480

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or Invalid Kind value	Check parameters
	Unsupported feature for BL-C10/C30	Retry using a model supporting the feature
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

3.37 Alarm log Notification setting, retrieval (Set,Get) Func=AlarmMessage

(BB-HCM,HCS,HCE models,KX-HCM110 ,BL-C30/C1/C20)

Set: Set alarm log notification parameters.

Accessible only for administrator

Parameters	Setting
Func	AlarmMessage (Fixed)
Kind	1 (Fixed)
AMessageEnable	Alarm log notification 0: Do not notify 1: Notify the user of alarm log, if alarm log exist 2: Notify the user of alarm log even if alarm log do not exist.
Week	Day setting Set the desired days of the week by adding the numbers as shown below. 1: Sun 2: Mon 4: Tue 8: Wed 16: Thu 32: Fri 64: Sat (Example) 127: Set for every day (1+2+4+8+16+32+64 = 127) 65: Set for Sun and Sat only (1+64 = 65) 42: Set for Mon, Wed, and Fri (2+8+32 = 42)
Hour	Operating hour (Default: 0) (The default value is used, if not specified.) 0-23
Min	Operating minute. (Default: 0) (The default value is used, if not specified.) 0, 10, 20, 30, 40, 50, 60
AMailServer*	E-mail server address or host name for sending E-mail (SMTP) Note: Set using 4 numbers (0–255) each separated by a period; “0.0.0.0” and “255.255.255.255” are unavailable. When setting the host name, use 1–255 one-byte characters. The following cannot be used: [Space], ["], ['], [&], [<], [>].
AMailPort	Sending E-Mail (SMTP) server Port No. (Default: 25) (The default value is used, if not specified.) Note: Standard port number is 25.
APopServer	E-mail server address or host name for receiving E-mail (POP3) Note: Set using 4 numbers (0–255) each separated by a period; “0.0.0.0” and “255.255.255.255” are unavailable. When setting the host name, use 0–255 one-byte characters. The following cannot be used: [Space], ["], ['], [&], [<], [>].
APopPort	Receiving E-mail (POP3) server Port No. (Default: 110) (The default value is used, if not specified.) Note: Standard port number is 110
APopID (When Setting APopServer, Required setting)	Login ID (When you can select SMTP authentication, this is SMTP Login ID.) Note: 0–63 one-byte characters. The following cannot be used: ["]
APopPassword	Password (When you can select SMTP authentication, this is SMTP Login Password.) Note: 0–63 one-byte characters. The following cannot be used: ["]
ACertification	Authentication You can select how to authenticate. 0: No authentication 1: SMTP authentication 2: POP before SMTP authentication (When unsetting it, it sets it internally according to the setting of APopServer automatically. When APopServer is set, it sets it to the POP before SMTP authentication. When APopServer is unset, it sets it without the authentication.)
AMailFrom*	Sender (Reply E-mail address) Note: Set in the following order: [text]+[@]+[text]+[.]+[text] 5–63 one-byte characters

	The following cannot be used: [Space], ["], ['], [&], [<], [>].
AMailTo1*	Destination E-mail address 1 Note: Set in the following order: [text]+[@]+[text]+[.]+[text] 5–63 one-byte characters The following cannot be used: [Space], ["], ['], [&], [<], [>].
AMailTo2*	Destination E-mail address 2. Note: Refer to AMailTo1 for notes
AMailTo3*	Destination E-mail address 3. Note: Refer to AMailTo1 for notes
AMailSubject	Subject Note: One-byte characters: 0–44, two-byte characters: 0–22 ["] cannot be used.

*: Required setting

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return: 0: OK -n: Error

Example: Notice of alarm log at 3 o'clock every Sunday and Saturday, even if alarm log do not exist.

Set?Func=AlarmMessage&Kind=1&AMessageEnable=2&Week=65&Hour=15&Min=0

&AMailServer=smtp.server.com&AMailPort=25&APopServer=pop.server.com

&APopPort=110&APopID=robert &APopPassword=robertpassword&AMailFrom=xxx@xxx.xxx.xxx

&AMailTo1=xxx@xxx.xxx.xxx&AMailSubject=AlarmMessage

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature
Return: -19	No alarm and motion detection setting	Retry after alarm or motion detection setting

Get: Retrieve alarm log notification setting.

Accessible only for administrator

Parameters	Setting
Func	AlarmMessage (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=AlarmMessage&Kind=1

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

AMessageEnable:2

Week:65

Hour:5

Min:0

AMailServer:smtp.server.com

AMailPort:25

APopServer:pop.server.com

APopPort:110

APopID:robert

APopPassword:robertpassword

ACertification:2

AMailFrom:cam@mail.com

AMailTo1:tocam@mail.com

AMailTo2:

AMailTo3:

AMailSubject:AlarmLogTest¥r¥n

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature
Return: -19	No alarm and motion detection setting	Retry after alarm or motion detection setting

* This Command corresponded to also BL-C30 from Cgii/fVer1.06.

3.38 Motion detection setting, retrieval (Set,Get) Func=MotionDetect

(BB-HCM,HCS,HCE models,KX-HCM110 ,BL-C30/C1/C20)

Set: Set motion detection parameters.

Accessible only for administrator

Parameters	Setting
Func	MotionDetect (Fixed)
Kind	1 (Fixed)
Thresh	Threshold: Adjust the threshold. If the threshold is set low, this software sensitively detects changes. 1-20
Sense	Sensitivity: If you set sensitivity high, amplitude of motion detection bar gets jumpy. 1-20

Return value:

HTTP/1.0 200 OK\r\n

Content-type: text/plain\r\n\r\n

Return:0\r\n ••••• 0: OK -n: Error

Example: Set the threshold to 10 and the sensitivity to 10.

Set?Func=MotionDetect&Kind=1&Thresh=10&Sense=10

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Thresh and Sense parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -7	Invalid data value	Check the data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve alarm log setting.

Accessible only for administrator

Parameters	Setting
Func	MotionDetect (Fixed)
Kind	1 (Fixed)

Example:

Get?Func=MotionDetect&Kind=1

(Return)

HTTP/1.0 200 OK\r\n

Content-type: text/plain\r\n\r\n

Thresh:10\r\n

Sense:10\r\n

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

* This Command corresponded to also BL-C30 from Cgii/fVer1.06.

3.39 UPnP setting, retrieval (Set,Get) Func=Upnp

Set: Set UPnP .

Accessible only for administrator

Parameters	Setting
Func	Upnp(Fixed)
Kind	1 (Fixed)
Portmap	Portmap: Enable/disable Auto Port Forwarding. If the network setting is [Static] or [DHCP], enabling auto port forwarding allows you to access the camera from the Internet. 0: Disable 1: Enable *If the network setting is [Automatic Setup], enable [Open: Allow Access from the Internet] on Network setting.
Icon	Icon: Enabling it displays a shortcut to the camera in the My Network Places folder. 0: Disable 1: Enable *if you use Windows XP or Windows Me, this feature is available. Enable UPnP Windows component before using the feature.

Return value:

HTTP/1.0 200 OK

Content-type: text/plain

Return:0 ••••• 0: OK -n: Error

Example: Set the Auto Port Forwarding to Disable and the shortcut to Enable.

Set?Func=Upnp&Kind=1&Portmap=0&Icon=1

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Portmap and Icon parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
	BL-C10/C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
Return: -7	Invalid data value	Check the data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -20	Not changed Portmap, If the network setting is [Automatic Setup].	Check the network setting

Get: Retrieve UPnP setting.

Accessible only for administrator

Parameters	Setting
Func	Upnp(Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Upnp&Kind=1

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

Portmap:0

Icon:1

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: Camera before Cgii/fVer:1.06 is not supported this command and the return value is "Return:-17" or "Return:-4".

3.40 Banner setting, retrieval (Set,Get) Func=Banner

Set: Set Banner .

Accessible only for administrator

Parameters	Setting
Func	Banner(Fixed)
Kind	1 (Fixed)
BEnable	BEnable: Enable/disable Banner Display. 0: Disable 1: Enable
BMethod	BMethod: Select Banner user. 1: Administrator only 2:General user only 3:All users
BImageUrl	BImageUrl: Enter the image URL you want to display as a banner. When BEnable is 1[Enable] , enter the image URL. (1 --- 127 characters) ex) http://xxx.yyy.zzz/ppp.jpg Note that [Space],[",["],[&],[<],and [>] are not available.
BLinkUrl	BLinkUrl: Enter the target URL you want to display when clicking the banner. (0 --- 127 characters) ex) http://xxx.yyy.zzz/index.html Note that [Space],[",["],[&],[<],and [>] are not available.

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n ••••• 0: OK -n: Error

Example: Set Banner Display to Enable and the banner can be displayed for all users.

Image URL : http://xxx.yyy.zzz/ppp.jpg

Link URL : http://xxx.yyy.zzz/index.html

Set?Func=Banner&Kind=1&BEnable=1&BMethod=3

&BImageUrl=http://xxx.yyy.zzz/ppp.jpg

&BLinkUrl=http://xxx.yyy.zzz/index.html

*When the Banner Display is enabled, the camera access the Image URL every time the Single page is displayed.
The intermittent and continuous switching of the Single page burden the PC that stores the image linked with the URL.

When setting the images on the PC or the server that required to be authenticated to a Image URL, displaying the authentication window when displaying the Single Camera page.

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value BL-C10/C30 Not accessible during Privacy Mode	Check parameters Disable Privacy Mode
Return: -7	Invalid data value	Check the data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve Banner setting.

Accessible only for administrator

Parameters	Setting
Func	Banner(Fixed)
Kind	1 (Fixed)

Example:

Get?Func=Banner&Kind=1

(Return)
HTTP/1.0 200 OK
Content-type: text/plain
BEnable:1
BMethod:3
BImageUrl: http://xxx.yyy.zzz/ppp.jpg
BLinkUrl: http://xxx.yyy.zzz/index.html

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: Camera before **Cgii/fVer:1.06** is not supported this command and the return value is "Return:-17" or "Return:-4".

3.41 DDNS setting, retrieval (Set,Get) Func=DDNS

Set: Set DDNS .

Accessible only for administrator

Parameters	Setting
Func	DDNS(Fixed)
Kind	1 (Fixed)
Type	Type: Select DDNS Type. 0: Disable 1: Viewnetcam.com 2: User-specified DynamicDNS(except BL-C10/C30,KX-HCM280)

Type=2(User-specified DynamicDNS)

* BL-C10/C30 are not supported Type=2(User-specified DynamicDNS).

Parameters	Setting
DDNSUrl	DDNSUrl: DynamicDNS Server URL (1 to 255 Characters)
UpdateTime	UpdateTime: Updating time -1: At the time of starting 60000: 10 min 2160000: 6h 180000: 30 min 4320000: 12h 360000: 1h 8640000: 24h 1080000: 3h * settings will not be updated, if not specified.
UserID	UserID: get DynamicDNS information from the DynamicDNS service industry company. (0 to 63 Characters) Note that ["],and [:], are not available.
UserPassword	UserPassword: get DynamicDNS information from the DynamicDNS service industry company. (0 to 63 Characters) Note that ["],and [:], are not available.

Return value:

HTTP/1.0 200 OK¥r¥n

Content-type: text/plain¥r¥n¥r¥n

Return:0¥r¥n ••••• 0: OK -n: Error

Example: Set Viewnetcam.com to Enable.

Set?Func=DDNS&Kind=1&Type=1

* Default Gateway and DNS server addresses must be set to use DynamicDNS.

* It may take several minutes for the registered URL to connect.

Some DynamicDNS service is not connected.

*Confirming the Internet access

Due to the router specifications, the image may not be displayed even if you access the camera from your PC on the same LAN as the camera. In this case, access the camera in the following procedures.

-- Accessing from the PC on another network

-- Accessing from your cell phone

*When you change "Type" from "2" to "1", please change to "1" after it change to "0" once.

Upon error:

Return value	Symptom	Possible solution
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value BL-C10/C30 Not accessible during Privacy Mode	Check parameters Disable Privacy Mode
Return: -7	Invalid data value BL- C10 set Type=2	Check the data value Check parameters
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator
Return: -17	Unsupported feature	Retry using a model supporting the feature

Get: Retrieve DDNS setting.**Accessible only for administrator**

Parameters	Setting
Func	DDNS(Fixed)
Kind	1 (Fixed)

Example:

Get?Func=DDNS&Kind=1

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

Type:1

CamUrl:http://camxxx.viewxxx.com:50000

AccountLink:https://www.xxx-xx.com/registration/index.php?xxxxxx

Status:4

Type: DDNS Type 0: Disable 1: Viewnetcam.com 2: User-specified DynamicDNS

CamUrl: Personal Camera URL registered with the Viewnetcam.com service.

AccountLink: Your Account Link registered with the Viewnetcam.com service.

Status: Viewnetcam.com Status Information

-1: You have not registered for the service.

0: You have not registered for the service.

(The camera is not communicating with the Viewnetcam.com server.)

1: You have not registered for the service.

2: The camera has been registered successfully with Viewnetcam.com service.

Example2(Type=2):User-specified DynamicDNS

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

Type:2

DDNSUrl:http://xxx.xxx.xxx.xxx:xxxxx/

UpdateTime:60000

UserID:xxxxxx

DDNSUrl: DynamicDNS Server URL.

UpdateTime: Updating time.

UserID: User Name get from the DynamicDNS service industry company.

*For security, UserPassword cannot be retrieved.

*If Type=0 (Disable), displayed only "Type" parameter except BL-C10.

If Type=0 (Disable) at BL-C10, displayed "Type:0", "CamUrl:", "AccountLink:", and "Status:".

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: Camera before **Cgii/fVer:1.06** is not supported this command and the return value is "Return:-17" or "Return:-4".

3.42 Retrieving UPnP Status (Get) Func=UpnpStatus

Get: Retrieve UPnP Status.

Accessible only for administrator

Parameters	Setting
Func	UpnpStatus(Fixed)
Kind	1 (Fixed)

Example:

Get?Func=UpnpStatus&Kind=1

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

Status:1

Port:50000

Address:xxx.xxx.xxx.xxx

Status: UpnP Status Information
0: Disable 1: Enable 2: Setup on process
3: Deletion on process 4: Setup Failed
5: Deletion Failed 6: Port number refreshing failed
16: Failed to detect IDG 17: Access to outer DDNS on process

Port: Setting Port No.

Address: Global address set up to camera by UPnP

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: Camera before **Cgii/fVer:1.06** is not supported this command and the return value is "Return:-17" or "Return:-4".

3.43 Retrieving Error Log Information (Get) Func=ErrorLog

Get: Retrieve Error Log Information.

Accessible only for administrator

Parameters	Setting
Func	ErrorLog(Fixed)
Kind	1 (Fixed)

Example:

Get?Func=ErrorLog&Kind=1

(Return)

HTTP/1.0 200 OK

Content-type: text/plain

TotalErrorNum:17

Error1:2005/ 8/22 20:19,UPNP,10,100

Error2:2005/ 8/22 20:22,SMTP,6,1

Error3:2005/ 8/22 20:23,SMTP,6,1

Error4:2005/ 8/22 20:24,SMTP,1,1

Error5:2005/ 8/22 20:24,POP3,1,1

Error6:2005/ 8/22 20:27,SMTP,6,1

Error7:2005/ 8/22 20:27,POP3,4,1

Error8:2005/ 8/22 20:28,SMTP,6,1

Error9:2005/ 8/22 20:28,POP3,4,1

Error10:2005/ 8/22 20:29,SMTP,6,1

Error11:2005/ 8/22 20:29,POP3,4,1

Error12:2005/ 8/22 20:30,SMTP,6,1

Error13:2005/ 8/22 20:30,POP3,4,1

Error14:2005/ 8/22 20:31,SMTP,6,1

Error15:2005/ 8/22 20:31,POP3,4,1

Error16:2005/ 8/22 20:32,SMTP,6,1

Error17:2005/ 8/22 20:32,POP3,4,1

TotalErrorNum: Total Error Log Number.

Error1:2005/ 8/22 20:19,UPNP,10,100

Date of Error: 2005/ 8/22 20:19

Protocol of Error UPNP

Division of Error 10

Code of Error 100

*Retrieve Error Log on Camera Maintenance > Status Screen.

* Last 20 Error Log displayed.

*Error Log Protocol: SMTP,POP3,FTP,NTP,DNS,DDNS,SDDNS,DHCP,
UPNP,BOOTP,HTTP-NOTIFICATION ,AUTOCONFIG

*If Error Log is none ,only TotalErrorNum is only displayed.

*Error log Status Information : <http://panasonic.co.jp/pcc/products/en/netwcam/technic/index.html>

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: Camera before **Cgii/fVer:1.06** is not supported this command and the return value is "Return:-17" or "Return:-4".

3.44 Indicator setting, retrieval (Set,Get) Func=PowerLed

(Indicator setting supported models : except BL-C10)

Set: Set Indicator Display .

Accessible only for administrator

Parameters	Setting
Func	PowerLed(Fixed)
Kind	1 (Fixed)
Data	Data: Select Indicator operation. Indicator has four options. 0: Always on 1: Turn the indicator on when the camera is accessed. 2: Turn the indicator on during sensor reaction.(only BL-C30) 3: Always off

Return value:

HTTP/1.0 200 OK\r\n

Content-type: text/plain\r\n\r\n

Return:0\r\n•••••0: OK -n: Error

Example: Set turn the indicator on during sensor reaction.(BL-C30)

Set?Func=PowerLed&Kind=1&Data=2

* The pyroelectric effect sensor none supported camera cannot set Data=2(Turn the indicator on during sensor reaction).

Note: BL-C10 is not supported this command and the return value is "Return:-4".

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -3	No Data parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
	BL-C30	
	Not accessible during Privacy Mode	Disable Privacy Mode
	Setting Data=2 (Supported Only BL-C30)	Check the data value
Return: -7	Invalid data value	Check the data value
Return: -9	Administrator ID and password not set	Set Administrator ID and password
Return: -11	Not accessed by administrator	Retry as administrator

Get: Retrieve Indicator Display Information.

Accessible only for administrator

Parameters	Setting
Func	PowerLed(Fixed)
Kind	1 (Fixed)

Example:

Get?Func=PowerLed&Kind=1

(Return)

HTTP/1.0 200 OK\r\n

Content-type: text/plain\r\n\r\n

Data:0\r\n

(Always on)

Note: BL-C10 is not supported this command and the return value is "Return:-4".

Upon error:

<u>Return value</u>	<u>Symptom</u>	<u>Possible solution</u>
Return: -1	No Func parameter	Check parameters
Return: -2	No Kind parameter	Check parameters
Return: -4	Invalid Func value or invalid Kind value	Check parameters
Return: -11	Not accessed by administrator	Retry as administrator

Note: Camera before **Cgii/fVer:1.06** is not supported this command and the return value is "Return:-17" or "Return:-4".

4. ERROR CODES

4.1 Error codes during Set

Shown below are the typical Return values that appear when Set commands are issued.

Set

Func	Return value	Symptom	Possible solution
Common	Return: 0	Process completed successfully	
	Return: -1	No Func parameter	Check parameters
	Return: -2	No Kind parameter	Check parameters
	Return: -3	No Data parameter	Check parameters
	Return: -4	Illegal characters used for Func, Kind value Prohibited during Privacy Mode	Check parameters
	Return: -5	No characters entered	Check parameters
	Return: -6	Error while writing to flash memory	Retry
	Return: -7	Invalid setting value	Check parameters
	Return: -8	Abnormal response from upper APL	Retry after confirming parameters
	Return: -9	Admin setting not completed	Retry after setting Admin
	Return: -11	No authorization to access settings	Retry as authorized user
Admin	Return: -21	Admin ID already registered	Check parameters
	Return: -22	Admin ID not registered	Check parameters

4.2 Error codes during Get

Shown below are the typical Return values that appear when Get commands are issued.

Get

Func	Return value	Symptom	Possible solution
Common	Return: 0	Process completed successfully	
	Return: -1	No Func parameter	Check parameters
	Return: -2	No Kind parameter	Check parameters
	Return: -4	Illegal characters used for Func, Kind value	Check parameters
	Return: -8	Abnormal response from upper APL	Retry after confirming parameters
	Return: -11	No authorization to access settings	Retry as authorized user
	Administrator setting Screen output	Admin setting not completed	Retry after setting Admin

5. SAMPLE WEB PAGE

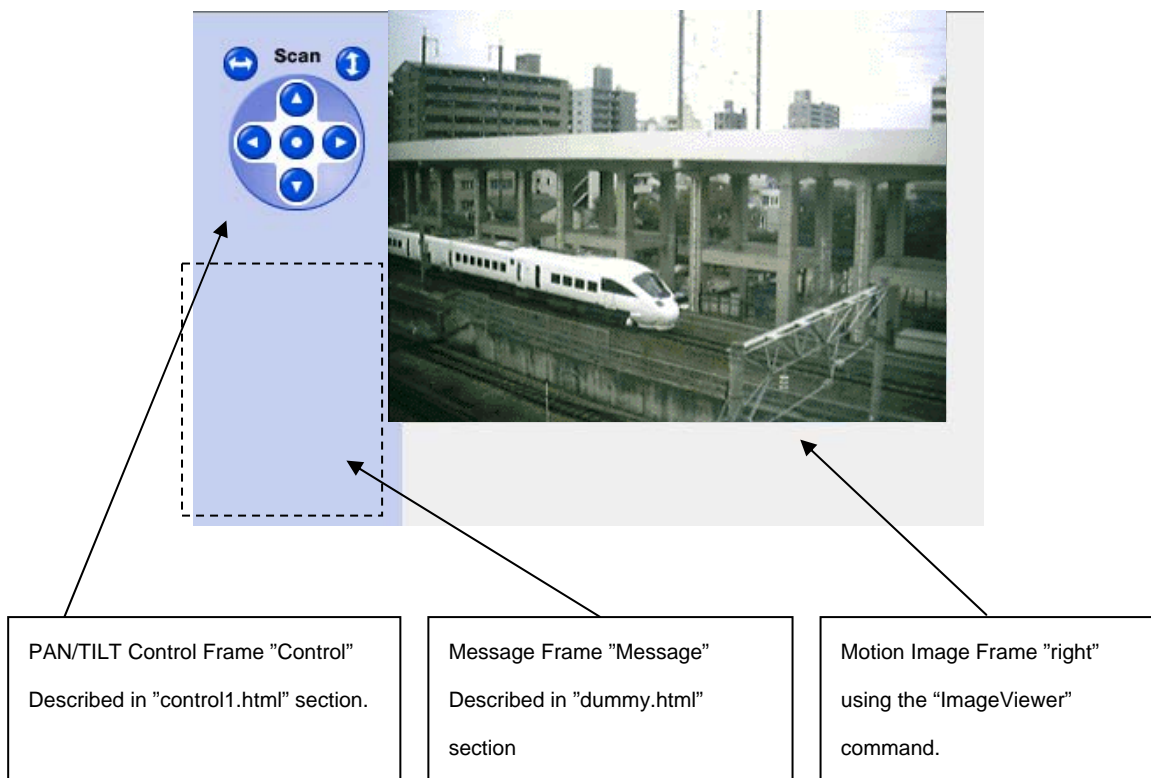
The following section shows an example of a web site which has embedded a live image from a Panasonic Network Camera. The sample web page consists of 3 frames:

- the live image frame
- the camera "Control" frame
- the "Message" frame which displays messages from the camera.

The Control Pad graphic can be customized. In this example, the file "pad.gif" is used. This file can be extracted from the Panasonic Network Camera screen by right clicking on the image in a web browser, and choosing "Save image..."

If ActiveX is not installed in your web browser, you will be asked to download and install it the first time you access the web page.

Sample Web page <sample1.html>



Source Code of Sample Web page <sample1.html>

```
<!-- This is Sample Code. Panasonic will not be held responsible for damages or loss incurred by using
this information. -->
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Frameset//EN">
<!-- sample1.html PAN/TILT Control Pad and Live Image Frame-->
<HTML>
<HEAD>
<TITLE>Sample1</TITLE>
</HEAD>
<FRAMESET COLS="123,*" FRAMEBORDER=0 BORDER=0 FRAMESPACING=0>
  <FRAMESET ROWS="175,*">
    <!--Upper Left: PAN/TILT Control Pad Display Frame -->
    <FRAME BGCOLOR="#C4CEEF" SCROLLING=no SRC="frame/control1.html" NAME="Control">
    <!--Lower Left: Dummy frame to respond to PAN/TILT Control -->
    <!-- Note: "Message" frame is used to show feedback from "frame/control1.html"-->
    <FRAME BGCOLOR="#C4CEEF" SCROLLING=no SRC="frame/dummy.html" NAME="Message">
  </FRAMESET>
  <!-- RIGHT: Live Image Frame -->
  <!--Type Camera's URL address in the field to replace "xx.xx.xx.xxx"-->
  <!--An Error Message will be displayed if the wrong URL is typed in for "xx.xx.xx.xxx". -->
  <FRAME
SRC="http://xx.xx.xx.xxx/ImageViewer?Mode=Motion&Resolution=320x240&Quality=Standard&Interval=10"
NAME="right">
  <NOFRAMES>
  <BODY>
    <!--Message for a viewer using an incompatible browser -->
    Please Use Appropriate Browser to View the Frame
  </BODY>
  </NOFRAMES>
</FRAMESET>
</HTML>
```


Source Code of Camera Control Pad <control1.html>

```
<!-- This is Sample Code. Panasonic will not be held responsible for damages or loss incurred by using
this information. -->
<!-- PAN/TILT Control pad Frame control1.html -->
<html>
<head>
<title>
Control1 Frame
</title>
</head>
<body BGCOLOR="#C4CEEF">
<center>
<!-- Display PAN/TILT Control Pad-->
<table><tr><TD BGCOLOR="#C4CEEF" ALIGN=center>

</TD></tr></table>
<!-- Clickable Image Map for PAN/TILT -->
<!--Type Camera's URL address in the field to replace "xxx.xxx.xxx.xxx"-->
<map name="pad">
<area shape="circle" coords="12,12 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=PanScan&Resolution=320x240&Quality=Standard
&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="PanScan"
TITLE="PanScan">
<area shape="circle" coords="78,12 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=TiltScan&Resolution=320x240&Quality=Standard
&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="TiltScan"
TITLE="TiltScan">
<area shape="circle" coords="45,33 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=TiltUp&Resolution=320x240&Quality=Standard&
RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="TiltUp" TITLE="TiltUp">
<area shape="circle" coords="20,58 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=PanLeft&Resolution=320x240&Quality=Standard
&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="PanLeft"
TITLE="PanLeft">
<area shape="circle" coords="45,58 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=HomePosition&Resolution=320x240&Quality=Sta
ndard&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="HomePosition"
TITLE="HomePosition">
<area shape="circle" coords="70,58 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=PanRight&Resolution=320x240&Quality=Standar
d&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="PanRight"
TITLE="PanRight">
<area shape="circle" coords="45,83 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=TiltDown&Resolution=320x240&Quality=Standar
d&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="TiltDown"
TITLE="TiltDown">
</map>
</center>
</body>
</html>
```

Source Code of Message Frame <dummy.html>

```
<!-- This is Sample Code. Panasonic will not be held responsible for damages or loss incurred by using
this information. -->
<html>
<head>
<title>
Dummy Frame
</title>
</head>
<body BGCOLOR="#C4CEEF">
</body>
</html>
```

The sample with audio function (HCM3xx)

The following section shows an example of a web site which has embedded a live image and audio from a Panasonic Network Camera. The sample web page consists of 4 frames:

- the live image frame
- the camera "Control" frame
- the "Message" frame which displays messages from the camera
- the audifo frame.

If ActiveX is not installed in your web browser, you will be asked to download and install it the first time you access the web page.

Sample Web page <sample2.html>

Audio Frame "Audio"
Described in "CgiTitle.html" section.

PAN/TILT Control Frame "Control"
Described in "control1.html" section.

Message Frame "Message"
Described in "dummy.html" section

Motion Image Frame "right"
using the "ImageViewer" command.

Please click here when gray color screen displayed
In case of no audio, please click here.
<http://panasonic.co.jp/pcc/products/en/netwcam/technic/sound/index.html>
Running in IPv4 mode.

Source Code of Sample Web page <sample2.html>

```
<!-- This is Sample Code. Panasonic will not be held responsible for damages or loss incurred by using
this information. -->
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Frameset//EN">
<!-- sample2.html PAN/TILT Control Pad, Audio Frame, and Live Image Frame -->
<HTML>
<HEAD>
<TITLE>sample2</TITLE>
</HEAD>
<FRAMESET FRAMEBORDER=0 BORDER=0 FRAMESPACING=0 Scrolling="no" Cols="123,*">
  <FRAMESET ROWS="175,*">
    <!--Upper Left: PAN/TILT Control Pad Display Frame -->
    <FRAME BGCOLOR="#C4CEEF" SCROLLING=no SRC="frame/control1.html" NAME="Control">
    <!--Lower Left: Dummy frame to respond to PAN/TILT Control -->
    <!-- Note: "Message" frame is used to show feedback from "frame/control1.html" -->
    <FRAME BGCOLOR="#C4CEEF" SCROLLING=no SRC="frame/dummy.html" NAME="Message">
  </FRAMESET>
  <FRAMESET Rows="24,*">
    <!--Upper Right: Audio Frame -->
    <FRAME Src="frame/CgiTitle.html" NAME="audio">
    <!-- RIGHT: Live Image Frame -->
    <!--Type Camera's URL address in the field to replace "xx.xx.xx.xxx"-->
    <!--An Error Message will be displayed if the wrong URL is typed in for "xx.xx.xx.xxx". -->
    <FRAME
Src="http://xx.xx.xx.xxx/ImageViewer?Mode=Motion&Resolution=320x240&Quality=Standard&Interval=10
&Size=STD&RPeriod=0&Sound=Enable" NAME="right">
  <NOFRAMES>
  <BODY>
  <!--Message for a viewer using an incompatible browser -->
  Please Use Appropriate Browser to View the Frame
  </BODY>
  </NOFRAMES>
</FRAMESET>
</HTML>
```

Source Code of Camera Control Pad <control1.html>

```
<!-- This is Sample Code. Panasonic will not be held responsible for damages or loss incurred by using
this information. -->
<!-- PAN/TILT Control pad Frame control1.html -->
<html>
<head>
<title>
Control1 Frame
</title>
</head>
<body BGCOLOR="#C4CEEF">
<center>
<!-- Display PAN/TILT Control Pad-->
<table><tr><td BGCOLOR="#C4CEEF" ALIGN=center>

</td></tr></table>
<!-- Clickable Image Map for PAN/TILT -->
<!--Type Camera's URL address in the field to replace "xxx.xxx.xxx.xxx"-->
<map name="pad">
<area shape="circle" coords="12,12 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=PanScan&Resolution=320x240&Quality=Standard
&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="PanScan"
TITLE="PanScan">
<area shape="circle" coords="78,12 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=TiltScan&Resolution=320x240&Quality=Standar
d&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="TiltScan"
TITLE="TiltScan">
<area shape="circle" coords="45,33 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=TiltUp&Resolution=320x240&Quality=Standard&
RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="TiltUp" TITLE="TiltUp">
<area shape="circle" coords="20,58 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=PanLeft&Resolution=320x240&Quality=Standard
&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="PanLeft"
TITLE="PanLeft">
<area shape="circle" coords="45,58 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=HomePosition&Resolution=320x240&Quality=Sta
ndard&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="HomePosition"
TITLE="HomePosition">
<area shape="circle" coords="70,58 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=PanRight&Resolution=320x240&Quality=Standar
d&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="PanRight"
TITLE="PanRight">
<area shape="circle" coords="45,83 10"
href="http://xx.xx.xx.xxx/nphControlCamera?Direction=TiltDown&Resolution=320x240&Quality=Standar
d&RPeriod=0&Size=STD&PresetOperation=Move&Language=1" TARGET="Message" ALT="TiltDown"
TITLE="TiltDown">
</map>
</center>
</body>
</html>
```

Source Code of Message Frame <dummy.html>

```
<!-- This is Sample Code. Panasonic will not be held responsible for damages or loss incurred by using
this information. -->
<html>
<head>
<title>
Dummy Frame
</title>
</head>
<body BGCOLOR="#C4CEEF">
</body>
</html>
```

Source Code of Audio Frame <CgiTitle.html>

```
<! This is Sample Code. Panasonic will not be held responsible for damages or loss incurred by using
this information. >
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Frameset//EN">
<HTML>
<HEAD>
<TITLE>CgiTitle</TITLE>
<META HTTP-EQUIV="expires" CONTENT="0">
<META HTTP-EQUIV="Pragma" CONTENT="no-cache">
<META HTTP-EQUIV="Cache-Control" CONTENT="no-cache">
<META NAME="ROBOTS" CONTENT="NONE">
<META NAME="ROBOTS" CONTENT="NOINDEX,NOFOLLOW">
<META HTTP-EQUIV="Content-type" CONTENT="text/html; charset=Shift_JIS">
</HEAD>
<BODY BGCOLOR="#efefef" TEXT="#000000" LINK="#000000" VLINK="#000000" ALINK="#000000" TOPMARGIN=0
MARGINHEIGHT=0 leftmargin="0" marginwidth="0">
<!-- Type Camera's URL address in the field to replace "xx.xx.xx.xxx" -->
<!-- You check the "Version No." from the source of
http://xx.xx.xx.xxx/CgiTitle?Resolution=320x240&Size=STD&Sound=Enable&Language=1, and then you
wirite it in this program-->
<TABLE cellSpacing="0" cellPadding="0" border="0" width="320" height="24" style="text-align: left;">
<TR bgcolor="#C5D0F0">
<TD width="40" height="24"><IMG src="http://xx.xx.xx.xxx/image/SnapShotButton.jpg" style="cursor:
pointer;"
onClick="window.open('http://xx.xx.xx.xxx/CgiSnapshot?Resolution=320x240&Quality=Precision&Langu
age=1','_blank' , 'width=340, height=360')" alt="Capture image" title=" Capture image "></TD>
<TD width="120" height="24"><OBJECT ID="AudioClient" WIDTH="120" HEIGHT="24"
CLASSID="CLSID:B9940246-4344-4D1B-BD82-DBAF7E657FF9"
CODEBASE="http://xx.xx.xx.xxx/SysCamInst.cab#Version=1,0,0,15">
  <PARAM NAME="Width" VALUE="120">
  <PARAM NAME="Height" VALUE="24">
  <PARAM NAME="AudioPath" VALUE="http://xx.xx.xx.xxx/nphAudio?Mode=Mixed">
  <PARAM NAME="RedirectPath"
VALUE="http://xx.xx.xx.xxx/CgiTitle?Resolution=320x240&Size=STD&Language=1">
  <PARAM NAME="RedirectTarget" VALUE="_self">
</OBJECT>
</TD>
<TD width="160" height="24"><FONT style="font-size: 13px; text-align: left;" face="Arial"
color="#000000">NetworkCamera</FONT></TD>
</TR>
</TABLE>
</BODY></HTML>
```