



**NETWORK CAMERA Protocol Spec.
HTTP WebView Protocol Specifications
(Differences from VB-C60)
VB-C500 Firmware Ver. 1.0**

Ver. 1.0

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Change Tracking List

Version	Date	Page	Note
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Contents

1	Overview.....	1
2	WV-HTTP Specifications (New Commands)	2
2.1	Video Retrieval Commands.....	2
2.1.1	image.cgi	2
2.1.2	panorama.cgi.....	2
2.2	Camera Control Commands.....	2
2.2.1	control.cgi	2
3	WV-HTTP Specifications (Compatible Commands)	3
3.1	Information Reference Commands	3
3.1.1	GetCameraServerInfo	3
3.1.2	GetCameraInfo	3
3.1.3	GetPresetList.....	3
3.1.4	GetPanoramaList.....	3
3.1.5	GetPanoramaInfo	3
3.1.6	GetPanoramalmage	4
3.2	Event Retrieval Commands.....	4
3.2.1	GetNotice.....	4
3.3	Camera Control Related Commands	4
3.3.1	GetPTZSpeedInfo.....	4
3.3.2	SetPTZSpeed	5
3.3.3	OperateCamera.....	5
3.3.4	OperateCameraEx.....	5
3.3.5	OperateCameraOnScreen	5
3.3.6	Exposure	6
3.3.7	CameraPosition / CameraControl	6
4	VB-C500 Information Retrieval Items	7
5	JPEG Header Specifications	9
6	HTTP Uploading Specifications	10

1 Overview

The HTTP Webview protocol (referred to as “WV-HTTP” hereafter) is a protocol that provides network cameras’ video transmission and camera control functions via HTTP.

This document describes **only differences** in VB-C500 WV-HTTP from VB-C60 WV-HTTP. Thus, any other specifications than those described in this document are the **same as those of VB-C60**.

For whole information, see VB-C500 HTTP WebView Protocol Specifications.

2 WV-HTTP Specifications (New Commands)

2.1 Video Retrieval Commands

2.1.1 image.cgi

Changes

- Since VB-C500 is a fixed camera, the camera control parameters are ignored.
Pan and tilt of the parameter cannot be used for VB-C500.

2.1.2 panorama.cgi

Changes

- VB-C500 does not have this function, since VB-C500 is a fixed camera.
VB-C500 returns HTTP 404.

2.2 Camera Control Commands

2.2.1 control.cgi

Changes

- Pan and tilt-related control cannot be used for VB-C500, since VB-C500 is a fixed camera.
me.iris, is, focus, focus.value, pan, pan.speed, pan.speed.pos, pan.speed.dir, tilt, tilt.speed, tilt.speed.pos, tilt.speed.dir, view.restriction of the paramter cannot be used for VB-C500.

3 WV-HTTP Specifications (Compatible Commands)

3.1 Information Reference Commands

3.1.1 GetCameraServerInfo

Changes

- VB-C500 returns “VB-C500D” for the modelNumber.

3.1.2 GetCameraInfo

Changes

- VB-C500 does not return the **focus_value**.

3.1.3 GetPresetList

Changes

- VB-C500 returns number_of_camera_positions=0 for the message body since VB-C500 is a fixed camera.

3.1.4 GetPanoramaList

Changes

- VB-C500 returns number_of_panorama_images=0 for the message body since VB-C500 is a fixed camera.

3.1.5 GetPanoramaInfo

Changes

- VB-C500 returns the same value as when no panorama image exists, since VB-C500 is a fixed camera.
VB-C500 returns HTTP 200, Livescope-Status 403.

3.1.6 GetPanoramamImage

Changes

- VB-C500 does not have this function since VB-C500 is a fixed camera.
VB-C500 returns HTTP 404.

3.2 Event Retrieval Commands

3.2.1 GetNotice

Changes

- VB-C500 returns **focus_mode=none** for Event41: Camera Control. It does not return **focus_value**.
- VB-C500 returns **focus_mode=none** for Event42: Camera Control. It does not return **focus_value**.

3.3 Camera Control Related Commands

3.3.1 GetPTZSpeedInfo

Changes

- VB-C500 retrieves the zoom movement speed and range the range, since pan and tilt control cannot be used for VB-C500.
VB-C500 returns the following message body.

```
camera_id=<camera number>
point_z=<position specification's zoom speed >
point_z_min=<position specification's minimum zoom speed>
point_z_max=<position specification's maximum zoom speed>
direction_z=<operation specification's zoom speed>
direction_z_min=<operation specification's minimum zoom speed>
direction_z_max=<operation specification's maximum zoom speed>
allow_diagonal_move=<0|1>
```

3.3.2 SetPTZSpeed

Changes

- It specifies the movement speed of zoom only, since pan and tilt cannot be used for VB-C500.

Pan and tilt of the parameter cannot be used for VB-C500.

3.3.3 OperateCamera

Changes

- Only camera control (zoom, backlight compensation) is available for VB-C500, since pan, tilt and focus cannot be used for VB-C500.

pan, tilt, focus_mode, focus_value of the paramter cannot be used for VB-C500.

3.3.4 OperateCameraEx

Changes

- About operations that can be specified at one time
It has been changed from 'multiple specifications are not possible' to 'multiple operations should not be specified'.
- Only camera control (zoom, shutter speed, white balance, backlight compensation, AE lock) is available, since pan, tilt and focus cannot be used for VB-C500.

pan_tilt, focus, mode of the parameter cannot be used for VB-C500.

3.3.5 OperateCameraOnScreen

Changes

- VB-C500 always returns error messages to the OperateCameraOnScreen command, since pan and tilt cannot be used for VB-C500.

VB-C500 returns HTTP 200OK, Livescope-Status 401 Unknown operator to the requests, in which a connection identifier is specified.

VB-C500 returns HTTP 200 OK, Livescope-Status 406 Parameter Missing to requests with no connection identifier.

3.3.6 Exposure

Changes

- VB-C500 does not return **iris**.

3.3.7 CameraPosition / CameraControl

Changes

- Pan, tilt and focus control cannot be used for VB-C500.
pan, tilt, focus_mode, focus_value of the parameter cannot be used for VB-C500.
- If sending a command to the camera without specifying any parameter, VB-C500 returns fixed values of **pan_current_value=0, tilt_current_value=0, focus_mode=none.**

4 VB-C500 Information Retrieval Items

- The following items have been eliminated from VB-C500 information retrieval items.

c.<c>.me.iris	Aperture value
c.<c>.me.iris.min	Aperture values' minimum value
c.<c>.me.iris.max	Aperture value's maximum value
c.<c>.is	Image stabilization

c.<c>.focus	Focus mode
c.<c>.focus.list	Focus model list
c.<c>.focus.value	Focus value

c.<c>.pan	Pan position
c.<c>.pan.min	Camera platform left side control limit
c.<c>.pan.max	Camera platform right side control limit
c.<c>.pan.limit.min	Camera platform left side movement limit
c.<c>.pan.limit.max	Camera platform right side movement limit
c.<c>.pan.speed.pos	Position-specified pan speed
c.<c>.pan.speed.dir	Operation-specified pan speed
c.<c>.pan.speed.min	Minimum pan speed
c.<c>.pan.speed.max	Maximum pan speed
c.<c>.tilt	Tilt position
c.<c>.tilt.min	Camera platform bottom side control limit
c.<c>.tilt.max	Camera platform top side control limite
c.<c>.tilt.limit.min	Camera platform bottom side movement limit
c.<c>.tilt.limit.max	Camera platform top side movement limit
c.<c>.tilt.speed.pos	Position-specified tilt speed
c.<c>.tilt.speed.dir	Operation-specified tilt speed
c.<c>.tilt.speed.min	Minimum tilt speed
c.<c>.tilt.speed.max	Maximum tilt speed
c.<c>.view	Visible range
c.<c>.view.restriction	Restriction on Visible range

c.<c>.panorama.1.view	Panorama image view field information
c.<c>.panorama.1.image	Panorama image information

c.<c>.panorama.1.timestamp	Panorama image time stamp

p.<P>.name.asc	Preset <P> name (ASCII)
p.<P>.name.utf8	Preset <P> name (UTF-8)
p.<P>.name.lang	Preset <P> name (UTF-8) setting language
p.<P>.c	Preset <P> camera number
p.<P>.pan	Preset <P> pan value
p.<P>.tilt	Preset <P> tilt value
p.<P>.zoom	Preset <P> zoom value
p.<P>.focus	Preset <P> focus value
p.<P>.ae.brightness	Preset <P> backlight compensation value

- VB-C500 retrieves the following values for zoom.limit.min.
Digital zoom OFF: zoom.limit.min=152
Digital zoom ON: zoom.limit.min=38
- c.<c>.panorama.count for VB-C500 is fixed to 0.
- p.count for VB-C500 is fixed to 0.

5 JPEG Header Specifications

● JPEG Header Specifications

- Pan (Pan)

VB-C500 returns fixed value 4650h (18000), which represents front (0 degree).

- Tilt (Tilt)

VB-C500 returns fixed value 4650h (18000), which represents front (0 degree).

- Zoom (Zoom)

VB-C500 returns fixed value 0098h, which represents the optical telephoto end.

- Model (Mdl)

VB-C500 returns fixed value 0Ch.

6 HTTP Uploading Specifications

- About % characters that can be used for parameters

The following % characters have been changed for VB-C500.

%P	Pan position	Fixed to 0 for VB-C500
%T	Tilt position	Fixed to 0 for VB-C500
%Z	Zoom position	38 ~ 152 for VB-C500
%V	Model name	VB-C500D

