USB3.0 HD Color Video Camera User Manual



(English)

Preface:

Thanks for using our HD color video conference camera.

This manual introduces the function installation and operation of the HD camera. Prior to installation and usage, please read the manual thoroughly.

Warning

This product can be only used in specified range in order to avoid any damage or danger;

•Don't expose the camera to rain or moisture place

•Don't remove the cover to reduce the risk of electric shock. Refer servicing to qualified personnel.

•Never operate the camera under unqualified temperature , humidity and power supply;

•Please use the soft cloth to clean the camera. Use neuter cleanser if bad smeared .Don't use the strong or cleanser avoiding scuffing.

Notes

Electromagnetic fields at the specific frequency may affect the image quality.

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Notes

Electric Safety

Installation and operation must accord with electric safety standards.

Caution to transport

Avoid stress, vibration and soakage in transport, storage and installation.

Polarity of power supply

The power supply of the product is $\pm 12V$; the max electrical current is 2A. Polarity of the power supply as the following drawing

Install Carefully

Never move the camera by seizing the camera head. Don't rotate camera head by hand; otherwise, mechanical trouble will occur.

This series item must put on the smooth desk or platform, and it can not be installed slantways;

If the camera is installed on TV or computer, the base can be fixed by three double-sided adhesive trays. Don't apply in corrosive liquid, gas or solid environment to avoid the cover which is made up of organic material. To make sure no obstacle in rotation range Never power on before installation is not completed

Don't dispatch discretionarily

We are not responsible for any unauthorized modification or dismantling.



Accessories

When you open the box, check that all the supplied accessories are included:

Camera	1
Power adapter	1
Power cable	1
USB 3.0 data cable	1
RS232 cable	1
Remote controller	1
User manual	1
Double-side glue shim	4

Fast Installation

- 1、The system platform is Win7 or Win8;
- Interface of computer main board is equipped with a USB3.0
 Recommended configuration cpu : core i3 3.4GHz; Display card: Nvidia GT630;
 Internal storage: 6GB, better to use desktop;

3、Computer hardware device manager of universal serial bus (usb) controller are "USB3.0 Root Hub" and "USB3.0Extensible host controller"

1. Please check the connection before turning on the power.



2. Dial switch setting at the bottom

Two DIP switch is set to ON; Namely select normal work mode.

SW1SW2				
		SW2-2	SW2 -1	instruction
	1	ON	OFF	Undefined
	2	OFF	OFF	Updating mode
	3	OFF	ON	Debugging mode
	4	ON	ON	Working mode

3.rotary switch setting

The choice of 16 rotary switch video formats

Dial-up		
0	1080P60	
1	1080P50	
2	1080P30	
3	1080P25	
4	720P60	
5	720P50	
6	720P30	
7	720P25	
8		
9		
A		
В		
С		
D		
E		
F	Display the video format set via OSD menu	

Note: need to restart the camera after switching video format.

4. When the power supply switch is "on", the indicator light is open (red color)

5. Confirm the computer device manager has the image device "Cyt-FX3" device, and then you can find the "Cyt-FX3" device in the video client-side.

6. Confirm the computer installed USB3.0 driving. Computer hardware device manager of universal serial bus (usb) controller are "USB3.0 Root Hub"and "USB3.0Extensible host controller" If not, please install "Intel(R)_USB_3.0_extensible_Host_Controller_Driver



7. When testing the local video, software "e - CAMView" is available.

8.Test PC PTZ control with "AMCAP_PTZ" software to realize the dual function of video and control.Select "Preview" in the menu "Options" and click "PTZ Control" window through menu "PTZ". Source code control protocol will be provided in the attachment.

	🚵 AI	MCAP_MIN	NRRAY_PT2	Zv1			
	File	Devices	Options	Capture	Help	PTZ	
Í	PTZ						×
		ZOOM	-TELE	ZOOM-WI	DE	ZOOM-STOP	
	1	Pan Speed			RIGHT	UP LE STOP LE DOWN	FT

9.When the camera is power-on and begin initialize, horizontally to the left turn to the limit position, vertically turn to the bottom; finally both horizontal and vertical turn to the middle position. The motor stops running, and initialization is completed. (Note: If the power-on mode is opened and saved preset position 0 or 1, then the pan/tilt will be set to 0 or 1 preset position)

10. Factory Default : entry OSD menu by pressing the menu key of remote controller, 【MENU】-> 【RESET】-> 【ALL RESET】, moving the left/right key to select 【Yes】, then confirm by 【HOME】 key as the following form,



Camera Highlights

1. Chinese / English menu, convenient to use.

2. Provide high speed transmission USB3.0 interface, DVI-I interface(including the HDMI and YPbPr signal) 3. IR remote controller signal transparent transmission function: camera can receive both its own remote controller signal and the one from terminal equipment, by transmitting the signal through VISCA IN to terminal equipment IR receiver.

Camera Specifications:

- 1. video format : 1080P60/50/30/25 720P60/50/30/25
- 2. Video Output Interface : USB3.0, DVI-I (including the HDMI and YPbPr signal)
- 3. Image Sensor : 1/2.8 inch 2 Megapixels high quality HD CMOS Sensor
- 4. Lens: f4.7mm-84.6mm, (18×optical zoom), F1.8-2.8, angle of view: 62°- 3.2°.
- 5. Rotation: $\pm 170^{\circ}$ for pan rotation, and $-30^{\circ} \sim +90^{\circ}$ for tilt rotation, support up-side down installation.
- 6. Speed: 0.1°-180°/sec for pan rotation, 0.1°-80°/sec for tilt rotation.
- 7. Presets : 10 preset positions (can reach to128 presets by serial command), precision error less than 0.2°.
- 8. Support auto/ manual white balance/indoors/ out doors/ controller auto/ auto-track white balance , auto/manual exposure (iris , shuttle) , auto/manual/One Push focus
- 9. support WDR function: with performance \geq 100dB,
- 10. Control Signal interface : 8 pins mini DIN, RS232/RS485, VISCA/Pelco-D/Pelco-P protocol
- 11. Power interface : HEC3800 power jack , Power supply adapter: 12VDC/2A
- 12. Max power consumption: 12W
- 13. working temperature: -5° C to $+45^{\circ}$ C
- 14. Storage temperature:-20℃ to +60℃
- 15. Weight: 1.3KG

Camera Interface Explanation



Remote Controller Explanation:



Definition of IR controller

0、Standby key

After pressing the standby key, the camera will step into standby mode.Press again,the camera will open again.(Note: Standby mode power consumption is about half of the normal mode)

1.Number key

Setting or locating presets

2.* key

Key combination use

3.Set preset key:

Set preset:

Set preset key + 0-9 number key: Clear preset key: Clear preset key + 0-9 number key or: #+#+#: clear all the presets

4.BLC control key

BLC ON: open black light compensation (only work when exposure mode setting is Auto)

BLC OFF: close black light compensation (Only available in the exposure mode effective for Auto)

5.Focus control key

Focus+: focus length far from near Focus-: focus length near from far Auto focus: the camera focus mode is auto Manual focus: the camera focus mode is manual

6.Camera address selection

Select the camera which want to be controlled

7. # key Key combination use

8.pan/tilt control key

Press ▲ key : up Press ▼ key : down Press ◀ key : left Press ▼ key: right "HOME" key: Return to the middle position

9.Menu setting

Open or close the OSD menu

10.Zoom Control key

zoom ▼: lens near zoom▲: lens far

11.Camera IR remote control address selection

[*] + [#] + [F1]: Camera Address No.1
[*] + [#] + [F2]: Camera Address No. 2
[*] + [#] + [F3]: Camera Address No. 3
[*] + [#] + [F4]: Camera Address No. 4

Usage of IR Remote Controller

Finishing initialization, it can receive and execute the IR commands. Users can control the pan/tilt/zoom, setting and running preset positions via the IR remote controller.

Key Instruction:

1. In this instruction, "press the key" means a click rather than a long-press, and a special note will be given if a long-press for more than one second is required.

2、When a key-combination is required, do it in sequence. For example, "【*】+【#】+【F1】"means press"【*】"first and then press"【#】" and press"【F1】"at last.

1.Pan/Tilt Control



Press and hold the up/down/left/right key, the pan/tilt will keep running, from slow to fast, until it run to the endpoint; The pan/tilt running stops as soon as the key is released.

2. Zoom Control



ZOOM OUT: press 【ZOOM **▼**】 key

ZOOM IN: press 【ZOOM 4】 key

Press and hold the key, the camera will keep zooming in or zooming out and stops as soon as the key is released.

Support Auto and Manual focus

3. Focus Control



Focus (far): Press [focus+] key Focus (near): Press [focus-] key

Auto Focus: Press 【auto】 Manual Focus: Press 【manual】 Press and hold the key, the action of focus continues and stops as soon as the key is released.

4.BLC Setting



BLC ON / OFF :not support

5. Presets setting



1. Preset setting : to set a preset position, the users should press the **[**SET PRESET**]** key first and then press the number key 0-9 to set a relative position, 10 preset positions in total are available.

2、Preset clearing : to clear a preset position, the user can press the 【CLEAR PRESET】 key first and then press the number key 0-9 to clear the relative position;

Note : press the **[#]** key three times continually to cancel all the presets.

6、Preset Running



Press a number key 0-9 directly to run a relative preset. **Note:** Action in vain if a relative preset position does not exist.

7、Camera Selection



Select the camera number to control.

8、Camera Remote Controller Address Setting



RS-232C Interface (Pin Specs)



Camera	Windows DB-9
1.DTR 2.DSR 3.TXD1 4.GND ~ 5.RXD1 6.RS485 7.IR OUT 8.RS485	1.CD 2.RXD 3.TXD 4.DTR 5.GND -A 6.DSR 7.RTS -B 8.CTS 9.RI
	•

No.	Function
1	DTR
2	DSR
3	TXD 1
4	GND
5	RXD 1
6	RS485-A
7	IR OUT
8	RS485-B

Camera	RS485
1.DTR	
2.DSR	
3.TXD1	
4.GND	
5.RXD1	
6.RS485-A-	→ A
7.IR OUT	
8.RS485-B-	→ B
9.GND	

Camera	Mini	DIN
Gamora		

COM Control

In normal working mode, the camera is able to be controlled via RS-232C/RS485 command (VISCA IN) . The parameter of the RS232C/RS485 COM is as following :

Baud Rate : 2400/4800/9600/115200 bit/s

Start bit: 1bit ; Data bit: 8bit ;

Stop bit : 1bit;

Code: None

Connected to power, the camera runs to the down left, then back to middle, with the farthest zoom rate in the auto focus and auto iris mode. After initialization, the camera runs to the preset No.0 or 1 if it is saved. Then the users can control the camera via serial command.

VISCA Protocol

Part1. Camera Return Command

Ack/Completion Message		
	Command Packet	Note
ACK	z0 41 FF	Returned when the command is accepted.
Completion	z0 51 FF	Returned when the command has been executed.
= - Comoro Address I O		

z = Camera Address + 8

Error Messages			
	Command Packet	Note	
Syntax Error	z0 60 02 FF	Returned when the command format is different or when a command with illegal command parameters is accepted	
Command Not Executable	z0 61 41 FF	Returned when a command cannot be executed due to current conditions. For example, when commands controlling the focus manually are received during auto focus.	

Part 2 Camera Control Command

Command	Function	Commad Packet	Note
AddressSet	Broadcast	88 30 01 FF	Address setting
IF_Clear	Broadcast	88 01 00 01 FF	I/F Clear
CommandCancel		8x 21 FF	
	On	8x 01 04 00 02 FF	Power ON/OFF
CAM_Power	Off	8x 01 04 00 03 FF	
	Stop	8x 01 04 07 00 FF	
	Tele(Standard)	8x 01 04 07 02 FF	
CAM Zoom	Wide(Standard)	8x 01 04 07 03 FF	
CAM_200m	Tele(Variable)	8x 01 04 07 2p FF	n = O(low) = Z(high)
	Wide(Variable)	8x 01 04 07 3p FF	-p = O(IOW) - T(IIIgII)
	Direct	8x 01 04 47 0p 0q 0r 0s FF	pqrs: Zoom Position
	Stop	8x 01 04 08 00 FF	
	Far(Standard)	8x 01 04 08 02 FF	
CAM_Focus	Near(Standard)	8x 01 04 08 03 FF	
	Direct	8x 01 04 48 0p 0q 0r 0s FF	pqrs: Focus Position
	One Push AF	8x 01 04 18 01 FF	
CAM_ZoomFocus	Direct	8x 01 04 47 0p 0q 0r 0s 0t 0u 0v 0w FF	pqrs: Zoom Position tuvw: Focus Position
	Auto	8x 01 04 35 00 FF	Normal Auto
	Indoor	8x 01 04 35 01 FF	
CAM_WB	Outdoor	8x 01 04 35 02 FF	
	OnePush	8x 01 04 35 03 FF	
	Manual	8x 01 04 35 05 FF	

Reset 8x 01 04 03 00 FF Manual Control of R Gain Up 8x 01 04 03 02 FF Manual Control of R Gain Down 8x 01 04 03 03 FF P; R Gain Direct 8x 01 04 04 00 FF P; R Gain CAM_Bgain Up 8x 01 04 04 02 FF Manual Control of B Gain Down 8x 01 04 04 02 FF Manual Control of B Gain Down 8x 01 04 04 03 FF Manual Control of B Gain Direct 8x 01 04 04 03 FF Manual Control of B Gain Down 8x 01 04 43 00 00 p0 q FF p; B Gain Direct 8x 01 04 39 03 FF Manual Control mode Manual 8x 01 04 39 03 FF Manual Control mode Shutter priority 8x 01 04 39 00 FF Iris Priority Automatic Exposure mode Iris priority 8x 01 04 39 00 FF Iris Priority Automatic Exposure mode Bright 8x 01 04 39 00 FF Bright mode(Manual control) CAM_Shutter Up 8x 01 04 0A 02 FF Bright mode(Manual control) Down 8x 01 04 0A 03 FF Direct 8x 01 04 0A 03 FF Down 8x 01 04 0A 03 FF	Command	Function	Commad Packet	Note		
CAM_RGainUp8x 01 04 03 02 FFManual Control of R GainDown8x 01 04 03 03 FFDirect8x 01 04 43 00 00 0p 0q FFpq: R GainDirect8x 01 04 04 00 FFManual Control of B GainCAM_BgainUp8x 01 04 04 02 FFManual Control of B GainDirect8x 01 04 44 00 00 0p 0q FFpq: B GainDirect8x 01 04 44 00 00 0p 0q FFpq: B GainDirect8x 01 04 44 00 00 0p 0q FFpq: B GainManual8x 01 04 39 00 FFAutomatic Exposure modeManual8x 01 04 39 03 FFManual Control modeShutter priority8x 01 04 39 0A FFShutter Priority Automatic Exposure modeIris priority8x 01 04 39 0D FFBright mode(Manual control)Bright8x 01 04 39 0D FFBright mode(Manual control)CAM_ShutterUp8x 01 04 0A 02 FFDown8x 01 04 0A 03 FFShutter SettingDown8x 01 04 0A 03 FFShutter SettingDirect8x 01 04 0A 03 FFShutter SettingCAM_ShutterUp8x 01 04 0A 03 FFDirect8x 01 04 0A 03 FFShutter SettingDown8x 01 04 0A 03 FFShutter PrositionCAM_IrisUp8x 01 04 0B 0FFIris SettingCAM_IrisUp8x 01 04 0B 07 FFIris Setting		Reset	8x 01 04 03 00 FF			
CAM_RGain Down 8x 01 04 03 03 FF pq: R Gain Direct 8x 01 04 43 00 00 p0 q FF pq: R Gain Reset 8x 01 04 04 02 FF Manual Control of B Gain Down 8x 01 04 04 03 FF Pq: B Gain Direct 8x 01 04 43 00 00 p0 q FF pq: B Gain Down 8x 01 04 43 00 00 p0 q FF pq: B Gain Direct 8x 01 04 39 00 FF Automatic Exposure mode Manual 8x 01 04 39 03 FF Manual Control mode CAM_AE Shutter priority 8x 01 04 39 03 FF Manual Control mode Iris priority 8x 01 04 39 00 FF Shutter Priority Automatic Exposure mode Iris priority 8x 01 04 39 00 FF Iris Priority Automatic Exposure mode Bright 8x 01 04 39 0D FF Bright mode(Manual control) Reset 8x 01 04 0A 02 FF Bright mode(Manual control) Up 8x 01 04 0A 02 FF Shutter Setting Down 8x 01 04 0A 03 FF Direct Ipric 8x 01 04 40 00 00 p0 qFF Pq: Shutter Position CAM_Shutter Up 8x 01 04 0B 00 FF Iris		Up	8x 01 04 03 02 FF	Manual Control of R Gain		
Direct 8x 01 04 43 00 00 p0 qFF pq: R Gain CAM_Bgain Reset 8x 01 04 04 00 FF Manual Control of B Gain Down 8x 01 04 04 03 FF Manual Control of B Gain Direct 8x 01 04 44 00 00 0p 0q FF pq: B Gain Direct 8x 01 04 44 00 00 0p 0q FF pq: B Gain CAM_AE Full Auto 8x 01 04 39 00 FF Automatic Exposure mode Manual 8x 01 04 39 03 FF Manual Control mode Shutter priority 8x 01 04 39 00 FF Shutter Priority Automatic Exposure mode Iris priority 8x 01 04 39 00 FF Iris Priority Automatic Exposure mode Bright 8x 01 04 39 0D FF Bright mode(Manual control) Reset 8x 01 04 0A 02 FF Bright mode(Manual control) Qp 8x 01 04 0A 02 FF Shutter Setting Down 8x 01 04 0A 03 FF Shutter Position Direct 8x 01 04 0A 03 FF Pq: Shutter Position Qp 8x 01 04 0A 03 FF Shutter Position Down 8x 01 04 0B 02 FF Pq: Shutter Position CAM_Iris Up 8x 01 04 0B 02 FF	CAM_RGain	Down	8x 01 04 03 03 FF			
CAM_Bgain Reset 8x 01 04 04 00 FF Manual Control of B Gain Down 8x 01 04 04 03 FF Manual Control of B Gain Direct 8x 01 04 44 00 00 0p 0q FF pq: B Gain Full Auto 8x 01 04 39 00 FF Automatic Exposure mode Manual 8x 01 04 39 03 FF Manual Control mode CAM_AE Shutter priority 8x 01 04 39 00 FF Shutter Priority Automatic Exposure mode Iris priority 8x 01 04 39 00 FF Shutter Priority Automatic Exposure mode Bright 8x 01 04 39 0D FF Bright mode(Manual control) Reset 8x 01 04 0A 02 FF Bright mode(Manual control) Reset 8x 01 04 0A 02 FF Shutter Setting Down 8x 01 04 0A 03 FF Direct Down 8x 01 04 0A 03 FF Shutter Setting Down 8x 01 04 4A 00 00 0p 0q FF pq: Shutter Position Reset 8x 01 04 0B 02 FF Iris Setting Direct 8x 01 04 0B 02 FF Iris Setting Direct 8x 01 04 0B 02 FF Iris Setting		Direct	8x 01 04 43 00 00 0p 0q FF	pq: R Gain		
CAM_Bgain Up 8x 01 04 04 02 FF Manual Control of B Gain Down 8x 01 04 04 03 FF pq: B Gain Direct 8x 01 04 44 00 00 0p 0q FF pq: B Gain Automatic Exposure mode Manual 8x 01 04 39 00 FF Automatic Exposure mode Manual 8x 01 04 39 03 FF Manual Control mode Manual CAM_AE Shutter priority 8x 01 04 39 0A FF Shutter Priority Automatic Exposure mode Iris priority 8x 01 04 39 0B FF Iris Priority Automatic Exposure mode Iris priority Bright 8x 01 04 39 0D FF Bright mode(Manual control) CAM_Shutter Reset 8x 01 04 0A 00 FF Bright mode(Manual control) Up 8x 01 04 0A 02 FF Shutter Setting Shutter Setting Down 8x 01 04 0A 03 FF Direct 8x 01 04 0A 03 FF Shutter Position CAM_Iris Up 8x 01 04 0B 00 FF Iris Setting Iris Setting		Reset	8x 01 04 04 00 FF			
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CAM_AEShutter priority8x 01 04 39 0A FFShutter Priority Automatic Exposure modeIris priority8x 01 04 39 0B FFIris Priority Automatic Exposure modeBright8x 01 04 39 0D FFBright mode(Manual control)Reset8x 01 04 0A 00 FFBright mode(Manual control)Up8x 01 04 0A 02 FFShutter SettingDown8x 01 04 0A 03 FFDirectDirect8x 01 04 4A 00 00 0p 0q FFpq: Shutter PositionReset8x 01 04 0B 00 FFIris SettingUp8x 01 04 0B 02 FFIris SettingDown8x 01 04 0B 03 FFIris Setting		Manual	8x 01 04 39 03 FF	Manual Control mode		
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Bright 8x 01 04 39 0D FF Bright mode(Manual control) Reset 8x 01 04 0A 00 FF Bright mode(Manual control) CAM_Shutter Up 8x 01 04 0A 02 FF Shutter Setting Down 8x 01 04 0A 03 FF Direct 8x 01 04 4A 00 00 0p 0q FF pq: Shutter Position Reset 8x 01 04 0B 00 FF Up Iris Setting Iris Setting		Iris priority	8x 01 04 39 0B FF	Iris Priority Automatic Exposure mode		
Reset 8x 01 04 0A 00 FF Shutter Up 8x 01 04 0A 02 FF Shutter Setting Down 8x 01 04 0A 03 FF Direct Direct 8x 01 04 4A 00 00 0p 0q FF pq: Shutter Position Reset 8x 01 04 0B 00 FF Iris Setting Up 8x 01 04 0B 02 FF Iris Setting		Bright	8x 01 04 39 0D FF	Bright mode(Manual control)		
Up 8x 01 04 0A 02 FF Shutter Setting Down 8x 01 04 0A 03 FF Direct Direct 8x 01 04 4A 00 00 0p 0q FF pq: Shutter Position Reset 8x 01 04 0B 00 FF Iris Setting Up 8x 01 04 0B 02 FF Iris Setting		Reset	8x 01 04 0A 00 FF			
CAM_Shutter Down 8x 01 04 0A 03 FF Direct 8x 01 04 4A 00 00 0p 0q FF pq: Shutter Position Reset 8x 01 04 0B 00 FF Iris Setting CAM_Iris Down 8x 01 04 0B 03 FF Iris Setting		Up	8x 01 04 0A 02 FF	Shutter Setting		
Direct 8x 01 04 4A 00 00 0p 0q FF pq: Shutter Position Reset 8x 01 04 0B 00 FF Iris Setting Up 8x 01 04 0B 02 FF Iris Setting	CAM_Shutter	Down	8x 01 04 0A 03 FF			
Reset 8x 01 04 0B 00 FF Iris Setting CAM_Iris Down 8x 01 04 0B 03 FF Iris Setting		Direct	8x 01 04 4A 00 00 0p 0q FF	pg: Shutter Position		
Up 8x 01 04 0B 02 FF Iris Setting Down 8x 01 04 0B 03 FF Iris Setting		Reset	8x 01 04 0B 00 FF			
CAM_Iris		Up	8x 01 04 0B 02 FF	Iris Setting		
	CAM_Iris	Down	8x 01 04 0B 03 FF			
Direct 8x 01 04 4B 00 00 0p 0g FF pg: Iris Position		Direct	8x 01 04 4B 00 00 0p 0g FF	pg: Iris Position		
Reset 8x 01 04 0C 00 FF		Reset	8x 01 04 0C 00 FF			
Up 8x 01 04 0C 02 FF Gain Setting		Up	8x 01 04 0C 02 FF	Gain Setting		
CAM_Gain Down 8x 01 04 0C 03 FF	CAM_Gain	Down	8x 01 04 0C 03 FF			
Direct 8x 01 04 0C 00 00 0g FF pg: Gain Positon		Direct	8x 01 04 0C 00 00 0p 0g FF	pg: Gain Positon		
CAM Bright Direct 8x 01 04 4D 00 00 0p 0q FF pq: Bright I Positon	CAM Bright	Direct	8x 01 04 4D 00 00 0p 0g FF	pq: Bright Positon		
On 8x 01 04 3E 02 FF		On	8x 01 04 3E 02 FF			
Off 8x 01 04 3E 03 FF Exposure Compensation ON/OFF		Off	8x 01 04 3E 03 FF	Exposure Compensation ON/OFF		
Reset 8x 01 04 0E 00 FF		Reset	8x 01 04 0E 00 FF			
CAM_ExpComp Up 8x 01 04 0E 02 FF Exposure Compensation Amount Setting	CAM_ExpComp	Up	8x 01 04 0E 02 FF	Exposure Compensation Amount Setting		
Down 8x 01 04 0E 03 FF		Down	8x 01 04 0E 03 FF			
Direct 8x 01 04 4E 00 00 0p 0q FF pq: ExpComp Position		Direct	8x 01 04 4E 00 00 0p 0q FF	pq: ExpComp Position		
Reset 8x 01 04 02 00 FF		Reset	8x 01 04 02 00 FF			
Up 8x 01 04 02 02 FF Aperture Control		Up	8x 01 04 02 02 FF	Aperture Control		
CAM_Aperture Down 8x 01 04 02 03 FF	CAM_Aperture	Down	8x 01 04 02 03 FF			
Direct 8x 01 04 42 00 00 0p 0q FF pq: Aperture Gain		Direct	8x 01 04 42 00 00 0p 0q FF	pq: Aperture Gain		
Reset 8x 01 04 3F 00 0p FF p: Memory Number(=0 to 127)		Reset	8x 01 04 3F 00 0p FF	n: Memory Number(=0 to 127)		
CAM_Memory Set 8x 01 04 3F 01 0p FF Corresponds to 0 to 9 on the Remote	CAM_Memory	Set	8x 01 04 3F 01 0p FF	Corresponds to 0 to 9 on the Remote		
Recall 8x 01 04 3F 02 0p FF Commander		Recall	8x 01 04 3F 02 0p FF	Commander		
On 8x 01 04 61 02 FF		On	8x 01 04 61 02 FF			
Off 8x 01 04 61 03 FF	CAM_LR_Reverse	Off	8x 01 04 61 03 FF	- Image Flip Horizontal ON/OFF		
On 8x 01 04 66 02 FF		On	8x 01 04 66 02 FF			
Off 8x 01 04 66 03 FF	CAM_PictureFlip	Off	8x 01 04 66 03 FF	Image Flip Vertical ON/OFF		
VideoSystem Set 8x 01 06 35 00 0p FF P: Video format 1:1080P60 2:1080P50 4:720P60 5:720P50 6:1080P30 7:1080P25 8:720P30 9:720P25	VideoSystem Set		8x 01 06 35 00 0p FF	P: Video format 1:1080P60 2:1080P50 4:720P60 5:720P50 6:1080P30 7:1080P25 8:720P30 9:720P25		
CAM_IDWrite 8x 01 04 22 0p 0q 0r 0s FF pqrs: Camera ID (=0000 to FFFF)	CAM_IDWrite		8x 01 04 22 0p 0q 0r 0s FF	pqrs: Camera ID (=0000 to FFFF)		
SYS_Menu OFF 8x 01 06 06 03 FF Turn off the menu	 SYS_Menu	OFF	8x 01 06 06 03 FF	Turn off the menu		

Command	Function	Commad Packet	Note
	On	8x 01 06 08 02 FF	
IR_Receive	Off	8x 01 06 08 03 FF	IR(remote commander)receive ON/OFF
	On/Off	8x 01 06 08 10 FF	
	On	8x 01 7D 01 03 00 00 FF	IR(remote commander)receive message via
IK_Receivereturn	Off	8x 01 7D 01 13 00 00 FF	the VISCA communication ON/OFF
	Up	8x 01 06 01 VV WW 03 01 FF	
	Down	8x 01 06 01 VV WW 03 02 FF	
	Left	8x 01 06 01 VV WW 01 03 FF	
	Right	8x 01 06 01 VV WW 02 03 FF	
	Upleft	8x 01 06 01 VV WW 01 01 FF	
	Upright	8x 01 06 01 VV WW 02 01 FF	VV: Pan speed 0x01 (low speed) to 0x18 (high
Pan tiltDrive	DownLeft	8x 01 06 01 VV WW 01 02 FF	WW: Tilt speed 0x01 (low speed) to 0x14 (high
	DownRight	8x 01 06 01 VV WW 02 02 FF	speed)
	Stop	8x 01 06 01 VV WW 03 03 FF	ZZZZ: Tilt Position(TBD)
	AbsolutePosition	8x 01 06 02 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	
	RelativePosition	8x 01 06 03 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	
	Home	8x 01 06 04 FF	
	Reset	8x 01 06 05 FF	
Pan tiltl imitSet	Set	8x 01 06 07 00 0W 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	W:1 UpRight 0:DownLeft
Pan-liilLimilSet	Clear	8x 01 06 07 01 0W 07 0F 0F 0F 07 0F 0F 0F FF	ZZZZ: Tilt Limit Position(TBD)

Part3 Inquiry Command

Command	Command Packet	Return Packet	Note
CAM PowerIng	8x 09 04 00 FF	y0 50 02 FF	On
	82.03.04.0011	y0 50 03 FF	Off(Standby)
CAM_ZoomPosInq	8x 09 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs: Zoom Position
CAM FocusModelng	8x 09 04 38 FF	y0 50 02 FF	Auto Focus
	82 03 04 3011	y0 50 03 FF	Manual Focus
CAM_FocusPosInq	8x 09 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs: Focus Position
		y0 50 00 FF	Auto
		y0 50 01 FF	Indoor mode
	8x 09 04 35 FF	y0 50 02 FF	Outdoor mode
	0,000,04,0011	y0 50 03 FF	OnePush mode
		y0 50 04 FF	ATW
		y0 50 05 FF	Manual
CAM_RGainInq	8x 09 04 43 FF	y0 50 00 00 0p 0q FF	pq: R Gain
CAM_BGainInq	8x 09 04 44 FF	y0 50 00 00 0p 0q FF	pq: B Gain
		y0 50 00 FF	Full Auto
		y0 50 03 FF	Manual
CAM_AEModeInq	8x 09 04 39 FF	y0 50 0A FF	Shutter priority
		y0 50 0B FF	Iris priority
		y0 50 0D FF	Bright
CAM_ShutterPosInq	8x 09 04 4A FF	y0 50 00 00 0p 0q FF	pq: Shutter Position
CAM_IrisPosInq	8x 09 04 4B FF	y0 50 00 00 0p 0q FF	pq: Iris Position
CAM_GainPosiInq	8x 09 04 4C FF	y0 50 00 00 0p 0q FF	pq: Gain Position
CAM_ BrightPosiInq	8x 09 04 4D FF	y0 50 00 00 0p 0q FF	pq: Bright Position
CAM_ExpCompModeInq	8x 09 04 3E FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_ExpCompPosInq	8x 09 04 4E FF	y0 50 00 00 0p 0q FF	pq: ExpComp Position
CAM_ApertureInq	8x 09 04 42 FF	y0 50 00 00 0p 0q FF	pq: Aperture Gain
CAM_MemoryInq	8x 09 04 3F FF	y0 50pp FF	pp: Memory number last operated.
SYS_MenuModeInq	8x 09 06 06 FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_LR_ReverseInq	8x 09 04 61 FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_PictureFlipInq	8x 09 04 66 FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_IDInq	8x 09 04 22 FF	y0 50 0p 0q 0r 0s FF	pqrs: Camera ID
CAM_VersionInq	8x 09 00 02 FF	y0 50 ab cd	

Command	Command Packet	Return Packet	Note
		mn pq rs tu vw FF	
VideoSystemInq	8x 09 06 23 FF	y0 50 0p FF	P: 4~9 Video format 4:720P60 5:720P50 6:1080P30 7:1080P25 8:720P30 9:720P25
			On
	8x 09 00 08 FF	y0 50 03 FF	Off
		y0 07 7D 01 04 00 FF	Power ON/OFF
		y0 07 7D 01 04 07 FF	Zoom tele/wide
		y0 07 7D 01 04 38 FF	AF On/Off
		y0 07 7D 01 04 33 FF	CAM_Backlight
		y0 07 7D 01 04 3F FF	CAM_Memory
		y0 07 7D 01 06 01 FF	Pan_tiltDrive
Den tiltMaxSnoodlag	8× 00.06 11 FF		ww: Pan Max Speed
Fan-univiaxSpeeding	0X 09 00 11 FF	yu 50 ww 22 FF	zz: Tilt Max Speed
Pan tiltPosing	8× 00 06 12 FE	y0 50 0w 0w 0w 0w	wwww: Pan Position
	0x 03 00 12 FF	0z 0z 0z 0z FF	zzzz: Tilt Position

Note : [x] means the camera address you want to control, $[y] = [x + 8]_{\circ}$

Pelco-D Protocol Command List

Function	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7
Up	0xFF	Address	0x00	0x08	Pan Speed	Tilt Speed	SUM
Down	0xFF	Address	0x00	0x10	Pan Speed	Tilt Speed	SUM
Left	0xFF	Address	0x00	0x04	Pan Speed	Tilt Speed	SUM
Right	0xFF	Address	0x00	0x02	Pan Speed	Tilt Speed	SUM
Upleft	0xFF	Address	0x00	0x0C	Pan Speed	Tilt Speed	SUM
Upright	0xFF	Address	0x00	0x0A	Pan Speed	Tilt Speed	SUM
DownLeft	0xFF	Address	0x00	0x14	Pan Speed	Tilt Speed	SUM
Upleft	0xFF	Address	0x00	0x0C	Pan Speed	Tilt Speed	SUM
Zoom In	0xFF	Address	0x00	0x20	0x00	0x00	SUM
Zoom Out	0xFF	Address	0x00	0x40	0x00	0x00	SUM
Focus Far	0xFF	Address	0x00	0x80	0x00	0x00	SUM
Focus Near	0xFF	Address	0x01	0x00	0x00	0x00	SUM
Set Preset	0xFF	Address	0x00	0x03	0x00	Preset ID	SUM
Clear Preset	0xFF	Address	0x00	0x05	0x00	Preset ID	SUM
Call Preset	0xFF	Address	0x00	0x07	0x00	Preset ID	SUM
Query Pan Position	0xFF	Address	0x00	0x51	0x00	0x00	SUM
Query Pan Position Response	0xFF	Address	0x00	0x59	Value High Byte	Value Low Byte	SUM
Query Tilt Position	0xFF	Address	0x00	0x53	0x00	0x00	SUM
Query Tilt Position Response	0xFF	Address	0x00	0x5B	Value High Byte	Value Low Byte	SUM
Query Zoom Position	0xFF	Address	0x00	0x55	0x00	0x00	SUM
Query Zoom Position Response	0xFF	Address	0x00	0x5D	Value High Byte	Value Low Byte	SUM

Pelco-P Protocol Command List

Function	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Up	0xA0	Address	0x00	0x08	Pan Speed	Tilt Speed	0xAF	XOR
Down	0xA0	Address	0x00	0x10	Pan Speed	Tilt Speed	0xAF	XOR
Left	0xA0	Address	0x00	0x04	Pan Speed	Tilt Speed	0xAF	XOR
Right	0xA0	Address	0x00	0x02	Pan Speed	Tilt Speed	0xAF	XOR
Upleft	0xA0	Address	0x00	0x0C	Pan Speed	Tilt Speed	0xAF	XOR
Upright	0xA0	Address	0x00	0x0A	Pan Speed	Tilt Speed	0xAF	XOR

Function	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
DownLeft	0xA0	Address	0x00	0x14	Pan Speed	Tilt Speed	0xAF	XOR
DownRight	0xA0	Address	0x00	0x12	Pan Speed	Tilt Speed	0xAF	XOR
Zoom In	0xA0	Address	0x00	0x20	0x00	0x00	0xAF	XOR
Zoom Out	0xA0	Address	0x00	0x40	0x00	0x00	0xAF	XOR
Focus Far	0xA0	Address	0x00	0x80	0x00	0x00	0xAF	XOR
Focus Near	0xA0	Address	0x01	0x00	0x00	0x00	0xAF	XOR
Set Preset	0xA0	Address	0x00	0x03	0x00	Preset ID	0xAF	XOR
Clear Preset	0xA0	Address	0x00	0x05	0x00	Preset ID	0xAF	XOR
Call Preset	0xA0	Address	0x00	0x07	0x00	Preset ID	0xAF	XOR
Query Pan Position	0xA0	Address	0x00	0x51	0x00	0x00	0xAF	XOR
Query Pan Position Response	0xA0	Address	0x00	0x59	Value High Byte	Value Low Byte	0xAF	XOR
Query Tilt Position	0xA0	Address	0x00	0x53	0x00	0x00	0xAF	XOR
Query Tilt Position Response	0xA0	Address	0x00	0x5B	Value High Byte	Value Low Byte	0xAF	XOR
Query Zoom Position	0xA0	Address	0x00	0x55	0x00	0x00	0xAF	XOR
Query Zoom Position Response	0xA0	Address	0x00	0x5D	Value High Byte	Value Low Byte	0xAF	XOR

Menu Setting

1. Main Menu

In normal working mode, press [MENU] key to display the menu, using scroll arrow to point at or highlight the selected items.



LANGUAGE: Language setting, Chinese / English SYSTEM OPTION: system setting CAMERA OPTION: camera setting PT OPTION: pan tilt setting V. FORMAT: video format setting RESET: reset setting HELP: for help

2. SYSTEM OPTION

Move the pointer to the (SYSTEM SET) in the Main Menu, click the **[**HOME**]** and enter the (SYSTEM SET) as follow,

SYSTEM S	SET
PROTOCOL	VISCA
ADDR	01
B. RATE	9600
RS485	OFF
ARM. VER	1.0A
FPGA.VER	1.0
CAM. VER	010404
MODEL	UH-S

PROTOCOL: Reset Condition VISCA Protocol type:VISCA/Pelco-P/Pelco-D ADDR: Reset Condition: 01 VISCA=1~7 Pelco-P/Pelco-D = 1~63 B. RATE: Reset Condition:9600 2400/4800/9600/115200

RS485: Reset Condition:off

It is ON when using RS485 communication

A R M VER./F P G A VER/CAM VER: version information, it will upgrate synchronously with the software

Machine Model: Machine internal identified code UH-S

3. CAMERA OPTION

Move the pointer to the (CAMERA SET) in the Main Menu, click the [HOME] and enter the (CAMERA SET) as follow,



EXPOSURE: exposure setting **COLOR:** color setting **LEN:** lens setting

3.1 EXPOSURE SETTING

Move the pointer to the (EXPOSURE) in the Main Menu, click the [HOME] and enter the (EXPOSURE SET) as follow,

EXPOSU	RE SET
=======================================	=======
EXP. MODE	Auto
SHUTTER	
IRIS	
GAIN	
BRIGHT	5
EV. MODE	off
LEVEL	
WDR	off
LEVEL	
BACK / MENU	

EXP. MODE: Reset Condition: Auto

Available mode: Auto, Manual, Shutter, Iris

SHUTTER: Reset Condition: Default

Available selections: 1/60、1/90、1/100、1/125、1/180、1/250、1/350、1/500、1/500、1/725、1/1000、1/1500、1/2000、1/3000、1/4000、1/6000、1/10000(only available in Manual Shutter mode)

IRIS: Reset Condition: Default

Available:0~13 (only available in Manual Iris mode)

BRIGHT: Reset Condition: 5

Available: 0~9

GAIN: Reset Condition: Default

Available: 0~15 (only available in Manual mode)

EV MODE: Reset Condition: off

Available: On/Off (only available in non manual model)

LEVEL: Reset Condition: Default

Available Setting: -3~3

WDR : Reset Condition: off

Available: On/Off

LEVEL: Reset Condition: Default

Available Setting: 0~5

3.2 COLOR SETTING

Move the pointer to the (COLOR SET) in the Main Menu, click the **[**HOME**]** and enter the (COLOR SET) as follow,

COLOR	
======================================	ATW 0 3 5 Off 2 3

WB MODE: Reset Condition: ATW

White balance mode setting: Auto、Indoor、Outdoor、OnePush、ATW、Manual **R.GAIN:** Reset Condition:Default Red gain setting: 0~50 (only available in Manual mode) B.GAIN: Reset Condition:Default Blue gain setting: 0~50 (only available in Manual mode) GAMMA: Reset Condition:0 GAMMA setting: 0~3 **SATURATION:** Reset Condition:3 SATURATION setting: 0~9 APERTURE: Reset Condition:5 APERTURE setting: 0~9 FLICK: Reset Condition:off FLICK setteing50HZ/60HZ/OFF NR LEVEL: Reset Condition:2 NR LEVEL setting: 0~9 CONTRAST: Reset Condition:3

CONTRAST setting:0~9

3.3 LENS SETTING

Move the pointer to the (LEN SET) in the Main Menu, click the [HOME] and enter the (LEN SET) as follow,

FOCUS: Auto, Manual, OnePush

4. PAN TILT SETTING

Move the pointer to the (PT SET) in the Main Menu, click the [HOME] and enter the (PT SET) as follow,

PT SI	ET
POWER. ACT	Off
SPEEDBYZ	On
MOUNT. MODE	Up
IR M.SPEED	16
IR Z.SPEED	07
MIN.SPEED	0
SCAN. SPEED	10
BACK / MEN	U V

POWER ACT: Reset Condition: OFF

0/1(the camera will move to no.0/1 preset position after 12 seconds without control since power on), Off

SPEEDBYZ: Reset Condition: On only work for IR remote control: On (when the camera zoom becomes larger, rotation speed comes down), Off

MOUNT.MODE: Reset Condition: Up		
	UP, DOWN	
IR M.SPEED:	Reset Condition: 16	
	IR remote control move speed: 5~24	
IR Z.SPEED:	Reset Condition: 07	
	IR remote control zoom speed: 1~7	
MIN.SPEED:	Reset Condition: 0	
	Minimum start speed for serial command: 0~9	
SCAN. SPEED: Reset Condition: 10		
	move speed: 4~15	

5. RESET

Move the pointer to the (SET) in the Main Menu, click the [HOME] and enter the (SET) as follow,

RESET		
SYSTEM. RESET	NO	
CAM.RESET	NO	
PT. RESET	NO	
ALL. RESET	NO	
BACK / M E N U		

SYS. RESET: system reset:Protocol: VISCA; Address: 1; baud rate:9600; RS485:Off **CAM. RESET:** camera parameter reset

PT. RESET: power action: Off; speed by zone: On; mount mode:Up;

IR move speed:16; IR zoom speed: 7;MIN.SPEED 0;SCAN. SPEED 10

ALL RESET: reset above 3 items

6. HELP

Show instruction of the OSD menu operation

HELP			
=====			
\land \lor	SELET MENU		
< >	CHANGESETTING		
HOME	ENTER		
MENU	RETURN		
BACK / M E N U			

7. EXIT

In main menu, press the key [MENU] again will show the exit window as follows:

SAVE? : to save settings: Yes, No.

Notice: press [HOME] key to confirm; press [MENU] key to return to the main menu

Troubleshooting

Camera Maintains

If camera is not used for long time, please turn off power adapter switch and AC plug.

Use soft cloth or tissue to clean the camera cover.

Use soft cloth to clean the lens; Use neuter cleanser if bad smeared. No use strong or corrosive cleanser or corrosive cleanser avoiding scuffing.

Unqualified Application

No shooting extreme light object, such as sunlight, lamplight etc.

No operating in unstable light environment, otherwise image will twinkle

No operating in radio wave with great power environment, such as TV station or Wireless Launcher etc.

Image effective will not be good when the light is not accordant with camera's lux.

Troubleshooting

Image

No image

- 1, Check whether the power cord, voltage is OK, power indicator light is ON.
- 2, Turn off the power supply to check whether the camera can auto configure.
- 3, Check the dial switch in bottom and make sure the two dial position are all on OFF.
- 4, Check video and TV wire is connected correctly.

Abnormal display of image

Check whether the video connecting wires is well and other connecting sockets and camera flat wires are well.

The camera can only works at one focus, other position can not be focused. Change the position to see if this phenomenon still exists. If yes, it may be caused by Camera control drive focus control system trouble.

Image dithering when at Maximum Zoom

- 1, Check whether camera is fixed correctly.
- 2, If there is vibrative mechanical object.

Remote Controller

- 1, Change the battery
- 2, Check the camera operation mode is right.

Terminal

- 1, Check the camera operation mode is right.
- 2, Check control wire is connected correctly.