

SDC0G5-B12 (N) 4K PTZ Video Camera

User Manual V1.0



COPYRIGHT INFORMATION

- Copying, reproducing or transmitting this file is not allowed if a license is not provided by our company. Unless copying this file is for the purpose of backup after purchasing this product.
- In order to keep improving the product. Our company reserves the right to make changes to product specifications without prior notice. The information in this file is subject to change without prior notice.
- To fully explain or describe how this product should be used, this manual may refer to names of other products or companies without any intention of infringement.
- Disclaimer of warranties: Our company is neither responsible for any possible technological, editorial errors or omissions, nor responsible for any incidental or related damages arising from providing this file, using, or operating this product.

SYMBOL CONVENTIONS

The symbols that may be found in this document are defined as follows.

Symbol	Description	
Explanation	Provides additional information to emphasize or supplement important points of the main text.	
Caution indicates that the user is reminded of some important operations or to prevent potential injury or property loss.		
⚠Warning	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.	
⚠Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.	

SAFETY NOTES - IMPORTANT

The following important notes must be followed carefully to run the camera and respective accessories. The camera and relative accessories are called video system in this section.

- Before installing the camera, please read this manual carefully. Please follow installation instructions indicated in this manual during installation. Please keep this manual for future use.
- The installation must be performed by qualified service installers in accordance with local rules.
- Before powering on the camera, please check the power voltage carefully. Make sure that you are using the correct power source.
- Please put the power cable, video cable and control cable in a safe place.
- Do not operate beyond the specified temperature and humidity. Working temperature range of the camera is between 0°C and +40°C. The ambient humidity range is less than 90 % RH.
- During transportation, avoid violent shaking or force the camera.
- To prevent electric shock, do not remove screws or housing of the camera. There are no selfservice parts inside. Refer to qualified service personnel for servicing.
- Video cables and RS232 cables should be kept far away from other cables. Shielded and independent wiring is necessary for video and control cables.
- Never aim the lens of the camera at the sun or other extremely bright objects.
- When cleaning the camera, please use soft cloth. If the camera is very dirty, wipe it off gently with a soft cloth moistened with a weak solution of water and a neutral kitchen detergent.

 Wring all liquid from the cloth before wiping the camera, then wipe off all remaining dirt with a soft, dry cloth. Use lens cleaning paper to clean the lens.
 - Do not move the camera head manually. In doing so would result in malfunction of the camera.

 Do not hold the camera head when carrying the video camera.
- This camera is for indoor use only. It is not designed for outdoor use.
- Make sure the camera is not directly exposed to rain and water.
- Make sure the camera is far away from area where radiation, X-rays, strong electric waves, or magnetism is generated.

CONTENTS

1.	ABOUT THE PRODUCT	1
1.1.	. QUICK GUIDE	1
1.2.	. RTSP	1
2.	FEATURES	2
2.1.	. CHARACTERISTICS & FUNCTIONS	2
2.2.	. APPLICATION SCENARIOS	2
3.	PRODUCT COMPONENTS	3
3.1.	. LIST OF PARTS & ACCESSORIES	3
3.2.	. MAIN PARTS & INTERFACES	4
3.3.	. REMOTE CONTROL	5
4.	INSTALLATION	6
4.1.	. SIZE AND DIMENSION	6
4.2.	. INSTALLATION	7
4.3.		
5.	WEBUI INSTRUCTION	10
6.	CAMERACMS	16
6.1.	. TRACKING SETTING	16
6.2.	. LECTURER TRACKING	16
7.	DEVICE MANGEMENT	19
7.1.	. CAMERACMS INSTRUCTION	19
7.2.	. REMOTE CONFIGURATION	21
8.	MENU SETTINGS	29
8.1.	. MENU CONFIGURATION	29
8.2.	. MENU EXPLANATION	33
9.	TECHNICAL SPECIFICATIONS	36
10	TROUBLESHOOTING	38

1. ABOUT THE PRODUCT

1.1 Quick Guide

The camera can be accessed and controlled via the following ways:

- WebUI: Camera control, network setting.
- CameraCMS: camera search and control, network setting.
- VLC: watch the camera two streams.

ONVIF: version 2.1 supported
 Name: admin

Initial password: leave empty

Network pass-through: recommended connection mode with recording or streaming device.

1.2 RTSP

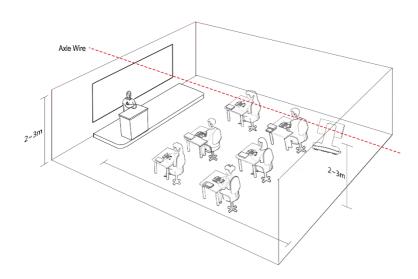
- 1) Make sure PC and the camera are in the same LAN.
- 2) Two channel streams, URL: RTSP://IP/chx, x=1, 2. 1 is the main stream, 2 is the sub stream.
- 3) Default RTSP port is 554.

2. FEATURES

2.1 Characteristics & Functions

- 1/2.8"4K CMOS. 8.46MP.
- 4K ultra-HD lens, 12x optical zoom, up to 81° FOV.
- Built in the industry-leading Al image algorithm for human body detection and locking tracking, which can realize a wide range of automatic detection and continuous tracking.
- H.264/H.265 video compression, up to 4K60 video output, and support POE.
- HDMI 2.0 video output, up to 4K60 video output.
- USB 2.0 with UVC and UAC protocols, up to support 4K60 video output.
- 3G-SDI video output.
- Support RS232 IN/ RS232 OUT control interface and VISCA protocol.
- 1 channel LINE IN.
- Fast, accurate and smooth focusing.
- High precision, smooth rotation, quiet PTZ.

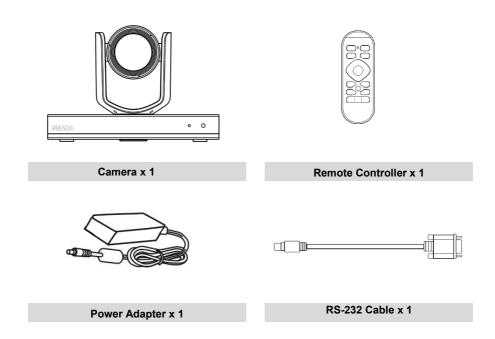
2.2 Application Scenarios



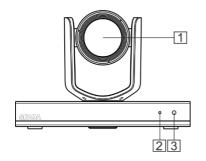
3. PRODUCT COMPONENTS

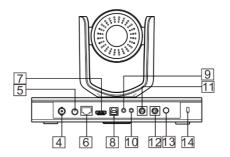
3.1 List Of Parts & Accessories

When you open the box, check all accessories according to the packing list.



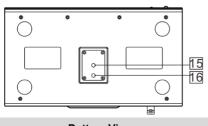
3.2 Main Parts & Interfaces





Front View

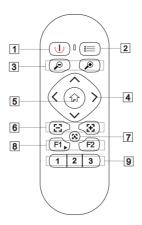
Rear View



Bottom View

NO.	Interface	NO.	Interface
1	Camera Module	9	REF
2	Status Indicator	10	LINE IN
3	IR Receiver	11	RS232-IN
4	3G-SDI	12	RS232-OUT
5	SW	13	DC12V
6	LAN	14	Kensington Security Slot
7	HDMI	15	Mounting Hole, 1/4"-20UNC
8	USB	16	Locating Hole, Φ5mm

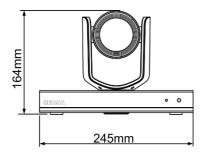
3.3 Remote Control

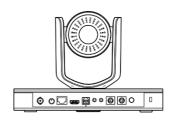


No.	Name	Function	
1	Power	After the camera has been connected to power source, press the	
'	1 ower	button, camera will be standby or running.	
2	Menu	Open/close the OSD menu.	
3	Zoom	⊕ zoom in, ⊙zoom out.	
4	Direction	In menu mode, set menu options; In non-menu mode, V (used for vertical adjustment of the screen.	
5	Home	In non-menu mode, the screen returns to the original position.	
6	Focus	☐ focus near, ☐ focus far.	
7	Autofocus	[A] auto adjust the camera focus.	
8	F1/F2	F1: After pressing the button for 5 seconds, press the digital button to set the IR address. Or press for a short time to turn on tracking. F2: Press for a short time to turn off tracking.	
9	Number	Press for three seconds to set the preset, and press for a short time to call the preset.	

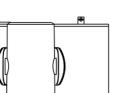
4. INSTALLATION

4.1 Size And Dimension

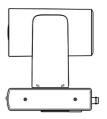




Front

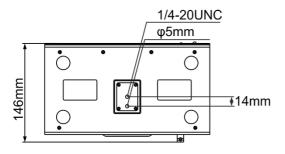


Rear



Тор

Side

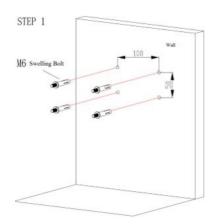


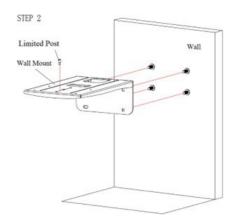
Bottom

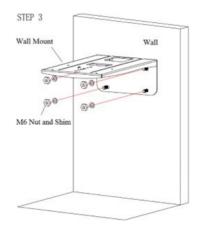
4.2 Installation

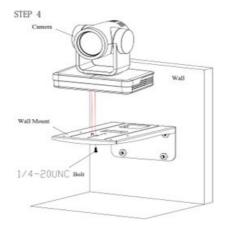
Ceiling or wall mounting brackets can only be mounted on template and concrete wall. For safety reasons, plasterboard is not recommended.

4.2.1 Wall Mount

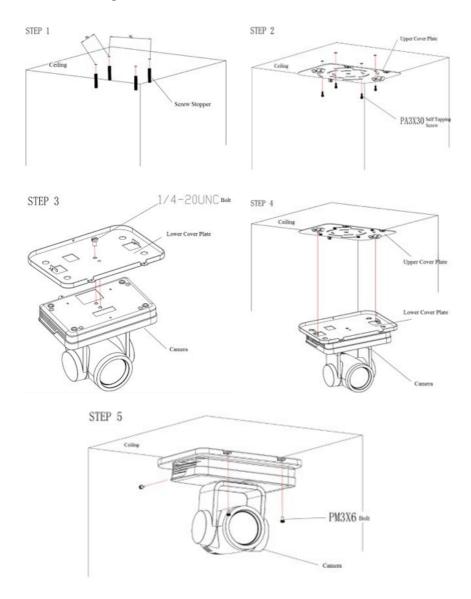








4.2.2 Ceiling Mount



4.3 DIP Switches Settings

Before installing and operating the camera, set the camera video output format through DIP switches, The camera has 16-digit DIP switches, as below:



No. 0~9 are used to set different video formats; No.A~E are reserved for future use; No. F is used to set video format custom.

sw				
0	1080P60	8	4K50	
1	1080P50	9	4K60	
2	720P60	Α		
3	720P50	В		
4	1080P30	С		
5	1080P25	D		
6	4K25	Е		
7	4K30	F	Custom	

□ Note

Please reboot the camera after adjusted the settings.

5. WebUI Instruction

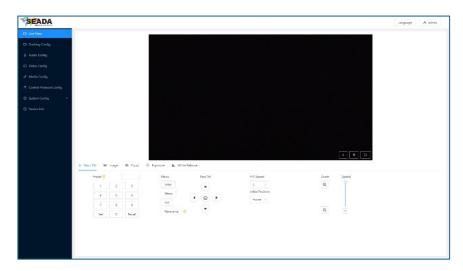
5.1 Web Client

To Access the Web Client Interface, type the device's IP address (default = 192.168.5.163) in the address field of your internet browser and press enter to access the Web Client login page. You can log in as a standard user or as an administrator. When logging in as an administrator (**Default Username:** admin; **Password:** admin), administrators can preview the camera image and configure the camera settings; If logging in



as a 'standard operator', users cannot access the option for the firmware upgrade; If logging in as a 'standard user', users can only preview image from the camera.

5.2 Live View

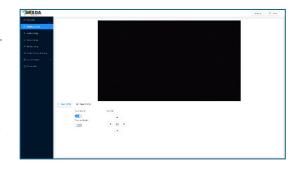


After successful login into the management interface, it enters the video preview interface. In the preview screen, users can control PTZ, zoom, focus, full screen, rotate, change image parameter, call menu and set the preset position and recall, and other operations.

5.3 Tracking Config

Users can Control PTZ and enable/disable tracking of the camera. Enable and change of tracking height will confirm the activated zone for the camera to track.

Users can also change the sensitivity, speed and target lost time of the tracking and decide whether the camera tilts during tracking.



5.4 Audio Config

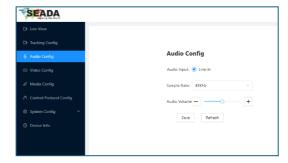
Audio Input: Line-in only.

Sample Rate: Sampling frequency.

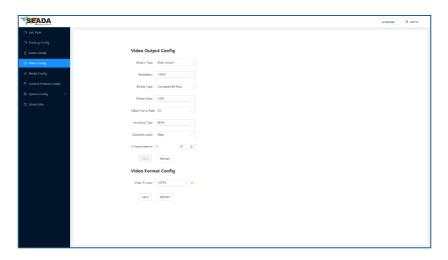
(48KHz)

Input Volume: Set the input audio

volume.



5.5 Video Config



Stream Type: Different video output mode setting, use different streams. (Main stream, Sub stream)

Resolution: Set video image resolution. (Main stream default 1920*1080, 640*360, 1280*720 and 3840*2160 as option; Sub stream default 1280*720, 640*320, 1920*1080 as option)

Bitrate Type: Set rate control mode. (Main/Sub stream default constants bit rate, variable bit rate as option).

Bitrate Kbps: Set the video bit rate. (Main/Sub stream default 4000Kb/s, 2000 - 12000Kb/s as option)

Video Format Rate: Set the video frame rate. (Main/sub stream default 30 Frame/s, 1-60 Frame/s as option)

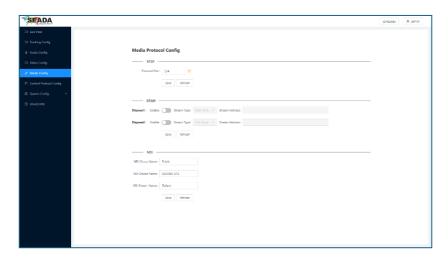
Encoding Type: Set the video compression format. (Main/Sub stream default: H.264, H.265 as option)

Encoding Level: Set the image quality. (Main/Sub stream default: High, Base/Main as option)

I-Frame interval: Set the key frame interval. (Main/Sub stream default 30, Main/Sub 1 – 255 as option.)

Video Format: Set the HDMI output resolution. (Default 4K60, 720P50/60, 1080P25/30/50/60, and 4K25/30/50/60.)

5.6 Media Config

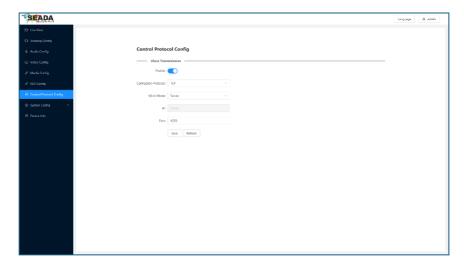


Protocol Port: Change the port for the RTSP protocol. (Default 554)

RTMP: Set RTMP stream for camera.

NDI: Set NDI parameters for the camera, including NDI Group Name, NDI Device Name and NDI Stream Name.

5.7 Control Protocol Config



Enable/Disable: Enable/Disable transparent transmission.

Connection Protocol: Choose TCP/UDP protocol.

Work Mode: Choose Client or Server.

IP: When the camera is set as client, the IP address of the transmitted camera is needed. When the camera is set as server, the IP address can be left as blank.

Port: Choose from 1-65535 as transparent transmission port.

5.8 User Manage

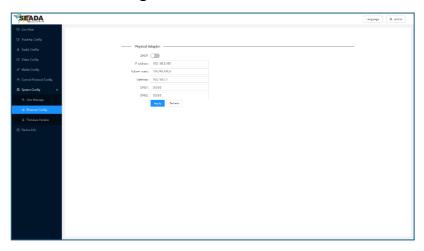
User Role:

Admin - Access to all functions.

Operator – Access to all functions except firmware upgrade.

User - Access to preview only.

5.9 Ethernet Config



DHCP: Enable or disable obtain IP automatically can be set.

IP Address: Set the IP address. (Default 192.168.5.163). Note: This IP address is the same as the one used to login to the Web page.

Subnet Mask: Set the subnet mask. (Default 255.255.255.0)

Default Gateway: Set the default gateway. (Default 192.168.5.1)

DNS1/DNS2: Set the server prior. (Default 0.0.0.0)

5.10 Firmware Update

Reset: Factory reset the camera.

Reboot: Reboot the camera.

5.11 Device Info

Device Type: Device name.

Firmware Version: Device firmware version.

Device MAC Address: Device MAC Address.

6. CameraCMS

6.1 Software Connection

Install "CameraCMS" on your PC, open "CameraCMS", connect and add camera to the management device list, and enter the user interface. Select one of a camera to do the following settings:

6.1.1 Tracking Settings



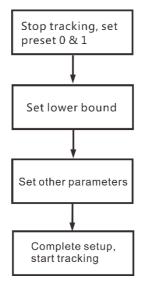
Start: Turn on tracking. Using a controller or software to recall preset 80 can also turn on tracking.

Stop: Turn off tracking. Using a controller or software to recall preset 81 can also turn off tracking.

Settings: Click this button to get into advanced tracking parameters for configuration.

6.2 Lecturer Tracking

6.2.1 Setting Process



Preset 0: It is a position that can be configured to have the camera move to once tracked object gets lost, recommended to set at a full view image of the lecturing area. See basic parameter settings for details.

Preset 1: Preset 1 is the position where tracking starts, preferred to be set at Podium; to configure it, move the camera's Pan/Tilt/Zoom to put the lecturer in the appropriate size and position in the image, then set it as preset 1. In some other cases, preset 1 is also useful: after camera finishes calibration, it will sit at preset 1; once tracking object gets lost, the camera can be configured to move to preset 1; when the camera starts auto zooming, its zooming times is also based on preset 1's zooming times.

6.2.2 Tracking Setting





6.2.3 Basic Parameters Setting

6.2.3.1 Basic 1



Lower Bound: It is used to adjust the lower boundary of the lowest detecting position.

Debug: Enable and disable display current status of body detection of tracking camera.

6.2.3.2 Tracking Setting



Tilt Motion: When it's enabled, the camera will automatically adjust tilt angle during tracking. When it's disabled, the camera will track as per the tilt angle of preset 1.

If the lecturer does not walk into the student area, it's suggested to disable auto zoom and tilt motion.

6.2.3.3 Tracking Parameters



Track Sens: Set sensitivity of tracking based on speed of movement. High sensitivity will track at small movement.

Track Speed: Set pan speed for tracking.

Lost Timeout: Set the interval before Object Lost Action will be performed, (go to preset 1 or 0). Default is 5 seconds.

6.2.3.4 Power On State

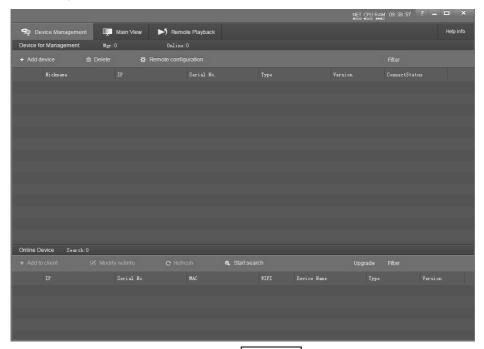


Power On State: Default status is tracking or non-tracking when powering on the camera.

7. DEVICE MANAGEMENT

7.1 CameraCMS Instruction

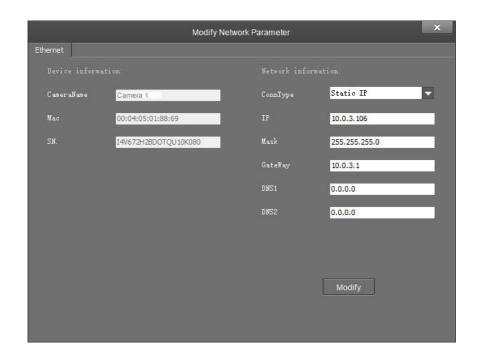
Install and open CameraCMS on PC, enter the user interface:



If the camera and PC are in the same LAN, click Start Search, then search starts and all online devices will be listed, as the picture shown below:



To modify the device's network information, enter the IP address, mask, gateway in the Modify Network column.



To control and preview a camera, first choose the device, modify its IP address as the IP address of the same LAN, then click Add To Client as the picture shown below.

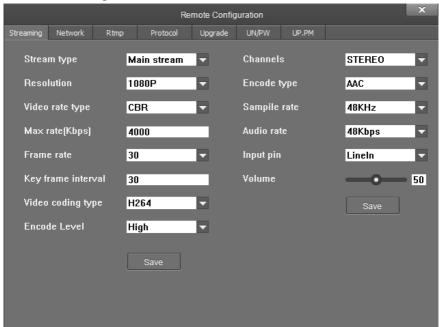


Please check that all IP addresses are in the same LAN.

7.2 Remote Configuration

Choose the camera in the device list, click Remote Configuration to upgrade or config the camera.

7.2.1 Streaming



- Stream Type: Set the parameters of main stream, sub stream.
- Resolution: Set among 4K (3840*2160), 1080P (1920*1080), 720P (1280*720), 360P (640*360), choose resolutions based on actual requirements and capability of device. The higher the resolution is, the better network requirements will be needed.
- Video Rate type: Choose CBR or VBR.
- Max Rate: Configure max stream rate or adjustable stream rate.
- Frame Rate: Choose from different frames per second.
- Key Frame interval: Configure the number of frames between the two key frames. The larger
 the key frame interval is, the smaller the fluctuation of the byte will be, but the image quality is

relatively poor. Vice versa, the larger the fluctuation of the byte will be, the higher the image quality will be.

◆ Video Coding type: Choose H.264 or H.265.

• Encode Level: Choose from Base, Main and High.

Channels: STEREO.

● Encode Type: AAC.

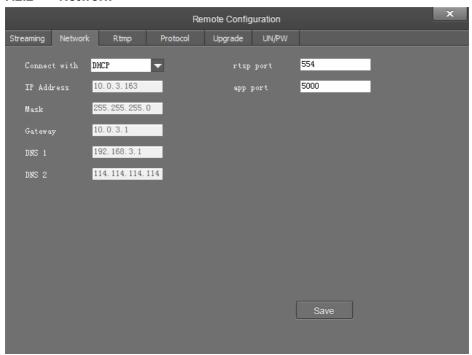
Sampile Rate: 48KHz.

Audio Rate: Choose from 48Kbps, 64Kbps, 96Kbps and 128Kbps.

• Input Pin: LineIn.

● Volume: The range of volume is 0~100.

7.2.2 Network



• Connect With: Choose from Static IP or DHCP address.

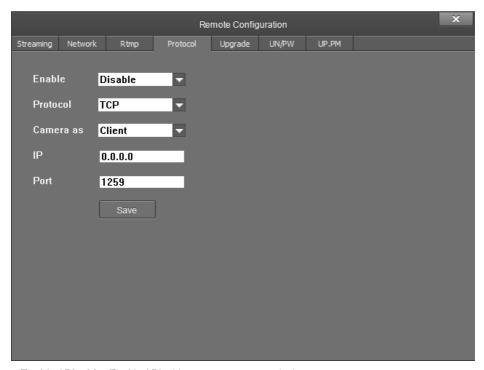
- IP Address: IP address for the camera.
- Mask: Mask address for the camera.
- Gateway: Gateway IP address.
- **DNS 1:** Server-prior, DNS address for the device.
- DNS 2: It will be used in case the DNS1 server is not working.
- **Port:** Streaming port (RTSP) and application port (SDK connection) can be configured. The range of stream ports is 3479~7999 and 554, default is 554. The range of application ports is 3479~7999, default is 5000.
- Click the Save button after setting is completed.
- Camera will connect to ethernet after above-mentioned operations.

7.2.3 RTMP



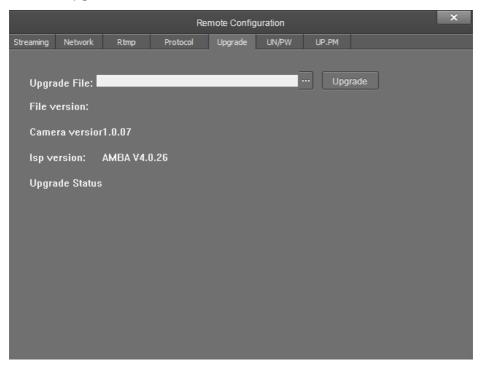
In RTMP1 and RTMP2, main stream, sub stream can be chosen to stream.

7.2.4 Protocol



- Enable / Disable: Enable / Disable transparent transmission.
- Protocol: Choose TCP or UDP protocols.
- Camera As: Choose Client or Server.
- IP: When the camera is set as client, the IP address of the transmitted camera is needed. When the camera is set as server, the IP address can be left as black.
- Port: Choose from 1-65535 as transparent transmission port.

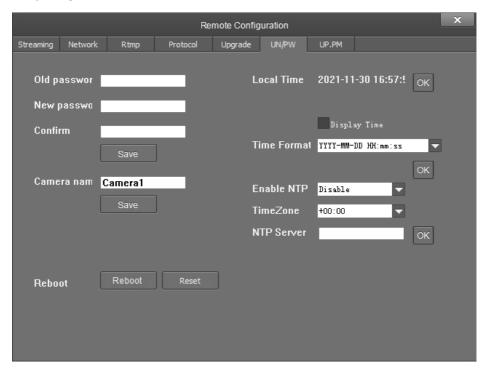
7.2.5 Upgrade



Click Upgrade menu to enter the main interface, as the picture shown above.

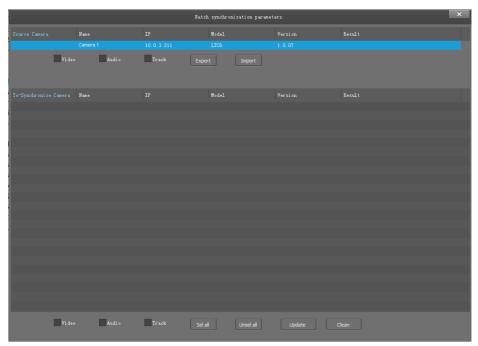
Click ... to search and load the updating firmware, then click Upgrade to start upgrading. Do not power off the camera during upgrading. After the upgrading is completed, the camera will reboot.

7.2.6 UP/PW



- Password setting: When a password is required, the camera can be accessed only after a correct password is entered.
- Reboot: Reboot the camera.

7.2.7 UP.PM



After selecting the same model of the device to be synchronized that is now managed and unchecked, tick any or more of the video parameters, audio parameters, and trace parameters, and when you click the UP.PM, the device that you are currently synchronizing will synchronize with the source device parameters.

Parameter import, parameter export: only for source device operations, you can export camera parameters to a file, or you can import parameters from a file into the camera.

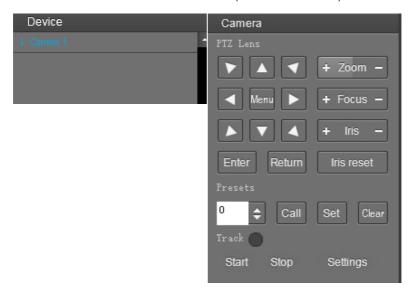
Bulk synchronization: Only for synchronous device operations.

7.2.8 Preview

Click Main View to get into camera control and preview part as below.

This interface includes three main parts: Device List, Device Control, Video Preview.

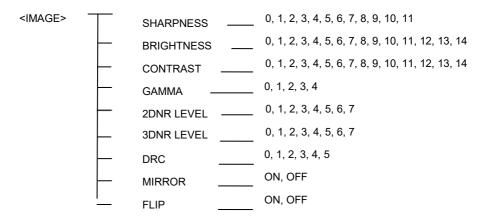
- Device: It displays all online cameras added to "Device Management".
- Device Control: Get control of the selected camera (camera name in blue).

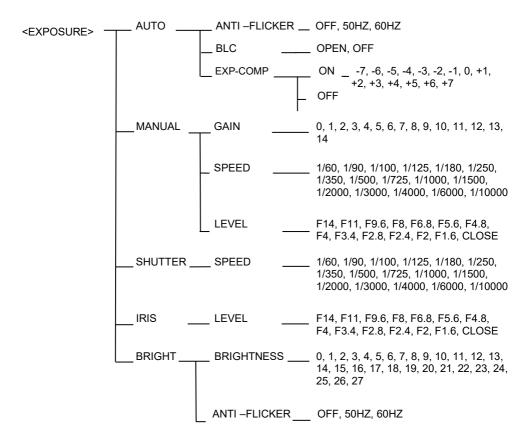


• Video Preview: Double click the camera in the list, main camera stream will be displayed in the preview window; or right click the selected camera from the left column to get its main or sub stream video. Video preview mode can be a single video or four videos. When in four video mode, select one of the four videos and then choose the bottom right icon to enlarge this selected video to a big single window.

8. MENU SETTINGS

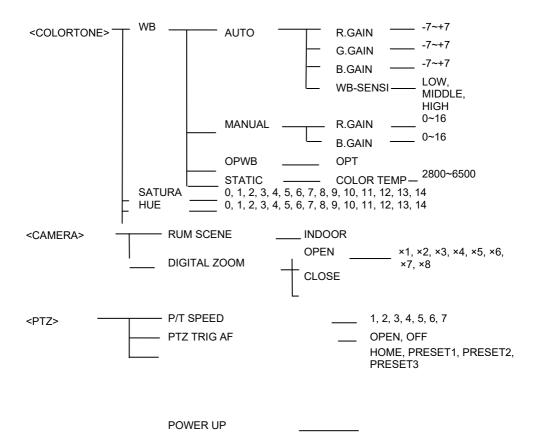
8.1 Menu Configuration

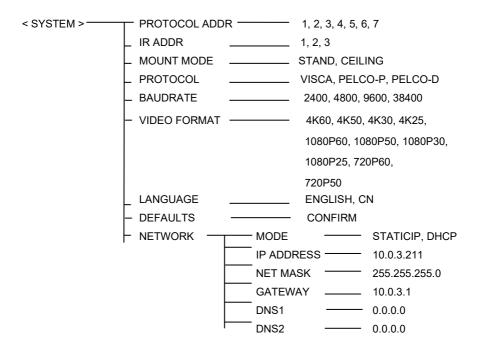




□Note

The shutter speed in this exposure parameter is a reference value at 30/60 FPS.





□Note

The video format is set with the DIP switch.

<DEVICE INFO> — FIRM VERSION

8.2 Menu Explanation

- 1)Press Menu button to enter / exit menu.
- 2)Press ▲ ▼ button to select options, it is selected when the font is enlarged, press Enter to enter the menu.
- 3)Press **◄►** to change the value.

Menu	Options	Function Descriptions	
	Sharpness	Adjust the sharpness of image and image edge	
		sharpness. The higher this number is, the more	
		contrast the detail in the plane of the image will be,	
		making it look clearer.	
	Brightness	Adjust the brightness of the image.	
		Refers to the ratio between the brightest and darkest	
	Combinat	areas of the image. The greater the ratio, the more	
	Contrast	gradation levels from black to white will be, thus the	
		richer the color performance, the clearer the image is.	
	Gamma	Adjust the permeability of the image.	
		When the camera is a color image, it is recommended	
	ODND	that the user turn off the digital noise reduction	
Image	2DNR	function, otherwise the image sharpness will be	
		affected.	
	3DNR	By comparing several adjacent images, the noise is	
		automatically filtered out, so that the image noise is	
		significantly reduced, the image is more thorough, and	
		the picture is more pure and delicate. The higher the	
		noise reduction level of the picture, the finer the	
		picture quality and the smaller the jitter feeling. The	
		lower the noise reduction level of the picture, the	
		higher the picture quality and the greater the jitter	
	DRC	It refers to the adaptability of the camera to strong	
		light, specifically refers to the variation range of	
		brightness (contrast) and color temperature (contrast).	

	Mirror	The camera image is turned 180 ° horizontally.	
	Flip	The camera image flips 180 ° vertically.	
	Auto Exposure	According to the ambient brightness prototype to automatically generate exposure parameters and adjust the picture brightness.	
	Manual Exposure	The user manually sets the exposure parameters and adjusts the picture brightness.	
Exposure	Iris Priority	Gain and shutter speed value are adjusted automatically according to working environment; Iris value is adjustable manually.	
	Shutter Priority	The aperture is fixed, and the picture brightness is adjusted by adjusting the shutter.	
	Bright Priority	The shutter is fixed, and the brightness level of the picture is adjusted by adjusting the analog gain or aperture.	
Color Tone	WB Mode	It refers to the working mode of restoring white object to white under different color temperature environments. It is divided into automatic, manual, or key white balance and other modes.	
	WB-Sensi	White balance sensitivity is the threshold of environmental change conditions that trigger white balance convergence. The higher the sensitivity, the easier it is to trigger.	
	Saturation	Refers to the purity and brightness of image color, the higher the saturation, the color effect is bright and beautiful.	
	Hue	Adjust the overall color of the image.	
PTZ	P/T Speed	Set camera's Pan / Tilt speeds.	
	PTZ Trig AF	When the camera moves horizontally, vertically and multiplies, it automatically focuses.	

	Power UP	This operation is performed when the camera is powered on and doesn't receive the control command.
	Protocol Address	Change camera's address through menu settings.
	IR Address	Set the IR control address for the camera.
	Mount Mode	The camera image flips 180° vertically and horizontally.
	Protocol	Set the camera control protocol.
System	Baud Rate	View and set the current baud rate of the camera.
	Video Format	View and set the current video format of the camera.
	Language	View and set the current language of the camera.
	Defaults	Used to restore all menu parameter settings to factory default settings.
	Network	View and set the current camera network.
Device Info	Firm Version	The version number of the firmware, including the update of the software program.

9. TECHNICAL SPECIFICATIONS

Camera		
Image Sensor	1/2.8"4K CMOS, 8.46MP	
Focal Length	f=3.4mm-40.3mm	
Iris	F1.8 ~ 3.6	
Optical Zoom	12x	
Horizontal Viewing	81°~7.6°	
Focus System	Auto / Manual	
White Balance	Auto, Manual, OPWB, Static	
Exposure Control	Auto, Manual, Shutter Priority, Iris Priority, Bright Priority	
S/N	≥50dB	
DNR	2D/3D	
BLC	Support	
PTZ		
Pan Angle	-130°~+130°	
Tilt Angle	-30°~+90°	
Pan Speed	0.2°/s ~80°/s	
Tilt Speed	0.2°/s~60°/s	
Preset Number	64	
Image Flip	Support	
Interface		
HDMI	1 channel HDMI 2.0 Support 4K60/50/30/25, 1080P60/50/30/25, 720P60/50	
Network	RJ45 (10M/100M), POE 1. Support 4K60/30/25, 1080P30/P25, 720P30/P25, 360P30/P25 2. Image compression H.264, H.265	

USB	1 channel USB2.0 1. Support UVC 1.1 2. Image compression H.264/MJPEG; support 4K60, 1080P60/50, 720P60/50.	
3G-SDI	1 x 3G-SDI, support 1080P60/50/30/25, 720P60/50	
Audio Interface	1 channel LINE IN, 3.5mm audio interface	
Control Interface	1 channel RS-232 IN, 1 channel RS-232 OUT	
DIP Switch	Rotating DIP switch to set video format	
Power	DC12V	
General		
Protocol	VISCA/PELCO-D/ PELCO-P	
Power Consumption	<18W	
Operating Temperature	0°C ~ + 40°C	
Storage Temperature	-20°C ~ + 60°C	
Operating Humidity	10%RH ~ 90 %RH	
Storage Humidity	10%RH ~ 95 %RH	
Dimensions (W×H×D)	245mm×146mm×164mm	
Weight	< 2kg	
Color	Gray	

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
	Power supply failure	Check power supply
No action or image after powered on	Power adapter damaged	Replace power adapter
and powered on	Power cable connection got loosen	Check & reconnect
No self-testing after	Power cable is too long	Use a shorter cable
powered on, or with	Power adapter damaged	Replace power adapter
motor noise	Mechanical failure	Repair
Not controllable from	Low battery of remote controller	Change battery for remote controller
remote controller	Exceeding remote control distance	Control within distance of 8M
After power on, self- test successfully, but	Wrong address / protocol / baud rate	Check & set again
not controllable	Wrong connection or open circuit of RS-232 cable	Check & reconnect
	Power cable is too long	Use a shorter cable
Video loss when pans / tilts / zooms	Power adapter damaged	Replace power adapter
	Video cable not properly connected	Replace with a good video cable
Video captured after connected to digital video interface of a capture device is not good as the video captured after connected directly analog video interface of the capture device	Different video capture devices have different video capturing performance, image quality maybe worse after it has been converted from analog to digital	Consult video capture device supplier for more information