

# HDMI/NDI/SDI/USB AI Tracking PTZ CAMERA >> 30x Optical Zoom <<

# (User Manual V1.1)



# Technical Support:

- E-Mail: Sandy@chameye.net
- Website: www.chameye.net
- Phone: 0086-18588412232
- Please Note: Only NDI version cameras have NDI function.

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# Notice

Product specifications and information which were referred to in this document are for reference only. We may change, delete, or update any content at any time and without prior notice.

# FCC NOTICE (Class A)



This product complies with Part 15 of the FCC Rules. The operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

# **Note**

This product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

# Class A ITE

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:

# **M**w aming

Operating this equipment in a residential environment may cause radio interference.

# European Community Compliance Statement (Class A)



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2014/30/EU.

# Quick Start

#### Add Cameras to Your Network

Please do the connections as the following. You must have a router in your network, then router will assign IP address for the cameras automatic. If you don't have router in your network, cameras can't get IP address from your network.



Camera's screen will show its IP address, you can visit camera's webpage by camera's IP address. **Tips:** When you login the camera's webpage, you'd better change the IP from "Dynamic IP Address" to "Fixed IP Address", then camera will keep currently IP or when camera rebooted, router rebooted, router will assign a new IP address for the camera.

#### • Visit Camera's Webpage

Please use web browser such as: Google Chrome, Firefox or Safari to Visit camera's IP address User name: admin Password: admin

#### IP Streaming to Vmix or OBS

Tips: recommend to use VLC streaming in Vmix and OBS, it has lower latency.

Input Select	Stream Type	VLC (RTMP, UDP, RTP, RTSP	', TS) 🧹		
<b>O</b> 1VD	URL.	rtsp://192.168.0.100	× 1	Option	
List	Buffer			milliseconds	Choose VLC
Camera		rtsi	o://came	ra's IP	
NDI / Desktop Capture		100	si, / carrie		
🖄 Stream / SRT					
D					



If you want to use normal RTSP stream:

RTSP UDP Stream URL: rtsp://192.168.0.100:554/1

Please note, you need change the IP address to your camera's IP address.

#### IP Steam to Youtube or Facebook

Youtube , Facebook or other live broadcast platforms will supply Stream URL(server URL) and stream key for you.

#### Example for Youtube:

Stream URL: rtmp://a.rtmp.youtube.com/live2/

Stream Key: 8m8q-0yrp-w95f-spd0-ft55



Now go to camera's webpage ->network->RTMP Settings.

input the RTMP stream URL :

rtmp://a.rtmp.youtube.com/live2/8m8q-0yrp-w95f-spd0-ft55

(Format: Stream URL/Stream Key)

Save and reboot the camera, camera will stream to Youtube.



#### Example for Facebook:

Server URL: rtmps://live-api-s.facebook.com:443/rtmp/

Stream Key: FB-117626344422167-0-AbzhlyyXbQGNT47w



Now go to camera's webpage ->network->RTMP Settings.

input the RTMP stream URL:

rtmps://live-api-s.facebook.com:443/rtmp/FB-117626344422167-0-AbzhlyyXbQGNT47w

(Format: Stream URL/Stream Key)



Save and reboot the camera, it will stream to Facebook.

<u>Connect Camera to Controller Keyboard</u>

Some information you need:

User Name: adminPassword: adminSony Visca port: 52381IP Visca UDP port: 1259IP Visca TCP port: 5678Onvif Port: 2000

We recommend to use Sony Visca or IP Visca control protocols, the two protocols are more steady and work better.

Let's use Chameye IP controller for example:

- (1)Connection: Camera and the IP controller must be in the same LAN(connect to the same router/switch by network cable)
- (2) Enable controller's DHCP, then reboot the controller

Then, router will assign an IP address for the controller

- (3)Press "Setup" >Add:Sony Visca (or IP Visca) -> input your camera's IP ->input port:52381 (IP Visca UDP:1259) ->input camera control ID(1-255 numbers)
- (4) Press "enter" to add the camera to controller
- (5) If you have more than one cameras need to add to the controller, please press "IP" button to add the camera's IP address to controller one by one.

#### Simultaneous Video Out

- Simultaneous HDMI 3G-SDI IP three channels Video Outputs
- Simultaneous HDMI 3G-SDI USB3.0 three channels Video Outputs

-Simultaneous HDMI 3G-SDI IP and USB3.0 four channels Video Outputs

For four channels video outs at the same time, please use professional multimedia player such as "PotPlayer" to preview USB video, and use H.264 format video out. Otherwise ,it will affect IP streaming video out.

If you need more supports, please contact us at: <u>Sandy@chameye.net</u>, normally, we can reply you within 12hours.

Chameye Supports Team

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# 1 Safety Precautions

- During the installation and use of the equipment, all electrical safety regulations of the country and region of use must be strictly observed.
- Please use the power adapter that comes standard with this product.
- Please do not connect multiple devices to the same power adapter (exceeding the capacity of the adapter may generate excessive heat or cause a fire).
- Do not rotate head of the camera by hand, otherwise it may cause mechanical failure.
- When installing this product on a wall or ceiling, secure the device securely. When installing, make sure that there are no obstacles within the rotation range of the gimbal; do not turn on the power until all installations are completed.
- To avoid heat build-up, keep ventilation around the device smooth.

# **3** Quick Start

1) Please check connections are correct before starting.

- If the device emits smoke, smells, or makes noises, please turn off the power immediately and unplug the power cord, and contact the dealer in time.
- This device is not waterproof, please keep the device dry.
- This product has no user serviceable parts, damage caused by disassembly by the user is not covered by the warranty.

# A Notice

Specific frequencies of electromagnetic field

may affect the image of the camera!

# 2 Packing List

Name	Quantity
Camera	1
Power Adapter	1
Power Cable	1
RS232 Cable	1
USB Cable	1
(Optional)	
Remote Control	1
User Manual	1

#### Chameye

#### Professional Live Streaming PTZ Camera

www.chameye.net





- Connect the power adapter to the power connector on the rear panel of the camera. The power indicator on the front panel of the camera is on.
- After the camera is powered on, it starts to initialize, right up to the limit position, and then both horizontal and vertical go to the middle position, the motor stops running, and the initialization is completed.
- (Note: If preset 0 is saved, PTZ will be move to preset 0)

# 4 Video Format

Video Format					
0	1080P60	8	-		
1	1080P50	9	-		
2	2 1000100		1080P59.9		
2	1080160	A	4		
3	1080I50	В	1080I59.94		
4 720060		C	1080P29.9		
4	/20P60	-00 C	7		
5	720P50	D	-		
6	1080P30	E	-		
7	1080P25	F	720P59.94		

# 5 About Product

## 5.1 Features

# • 60.7° Wide-angle Lens + 30x Optical Zoom

60.7° high-quality ultra-wide-angle lens, optical zoom up to 30x, support 8x digital zoom.

## • 1080P Full HD

Using 1/2.8-inch high-quality HD CMOS sensor with effective 2.07 million pixels, it can achieve high-quality images with a maximum resolution of 1920x1080.

• New ISP Image Processing Algorithm The new generation of ISP image processing algorithm provides more complete white balance and automatic exposure functions, which significantly improves the image output performance of the camera, and the imaging effect is also better. Widely used in education recording and broadcasting, distance education, video conferencing, live broadcasting, broadcasting and other industries.

# • Upgraded AI Technology

Using upgraded AI technology, through face recognition, it can accurately determine the location of people, realize automatic tracking and automatic frame selection.

## • 1080P60 NDI®|HB(Optional)

It supports 1080P60 NDI®|HB technology, ultra-low latency high-quality audio and video signal transmission, and can achieve unparalleled ultra-high-resolution image quality and lossless effects that are closer to vision.

• Leading Auto Focus Technology Using advanced focusing algorithm, the lens can focus quickly, accurately and stably.

## • Audio Processing Algorithm

The exclusive audio processing algorithm can eliminate reverberation, effectively reduce environmental noise, and support EQ adjustment to optimize sound effects; the device supports dual mic pickup, and can also be connected to external microphones, wireless bees, etc., to meet the pickup needs of most scenarios.

## • Multiple Interfaces

Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI, 3G-SDI, LAN can output three HD digital signals at the same time. Professional Live Streaming PTZ Camera

• Remote Control

Through the RS232 and RS485 serial ports, the camera can be controlled remotely.

# 5.2 Specifications

Camera	
Signal System	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor	1/2.8 inch, CMOS, Effective pixels: 2.07M
Scanning Mode	Progressive
Lens	30x, f=4.42mm ~ 132.6mm, F1.8 ~ F2.8
Digital Zoom	8x
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, VAR, Manual, One Push, Indoor, Outdoor
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥55dB
Horizontal FOV	60.7° ~ 2.28°
Vertical FOV	34.1° ~ 1.28°
Pan Angle	±170°
Tilt Angle	-30° ~ +90°
Pan Speed	1.7° ~ 100°/s
Tilt Speed	1.7° ~ 69.9°/s
Image Flip	Support
Image Freeze	Support

ning PTZ Camera	www.cnameye.net	
Preset Position	255	
Preset	0.1°	
Audio Features		
Audo i catures	Puilt in dual	
Microphone Array	microphones, 100Hz to 16KHz frequency response	
Audio Input	Support LINE IN audio input	
Audio Output	Support LINE OUT, HDMI, USB and other audio output	
USB Features		
Operate System	Windows 7/8/10, Mac OS X, Linux, Android	
Color System / Compression	YUY2/MJPEG/H.264	
USB Audio	Support	
USB Video Protocol	UVC 1.1/UVC 1.5	
UVC PTZ Control	Support	
Network Features		
Video Compression	H.264/H.265	
Video Stream	First Stream, Second Stream	
First Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360	
Second Stream Resolution	1280x720, 1024x576, 720x480, 640x360, 480x272, 320x240, 320x180	
Video Bit Rate	32Kbps ~ 20480Kbps	
Bit Rate Control	CBR, VBR	
Frame Rate	1fps ~ 60fps	
Audio Compression	AAC	
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps	
Protocols	NDI(optional), TCP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF,	

Charmey	e Professional Live St			
	DHCP, SRT, Multicast			
Interfaces				
LINE IN Interface	1 x LINE IN: 3.5mm Audio Interface			
LINE OUT Interface	1 x LINE OUT: 3.5mm Audio Interface			
Communicati on Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA/ Pelco-D/Pelco-P 1 x RS232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/ Pelco-P 1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only			
Network	1 x LAN: 10M/100M Adaptive Ethernet Port			
HDMI	1 x HDMI: Version 1.3			
3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 75Ω. Along to SMPTE 424M standard			
USB Interface	1 x USB 3.0: Type A			
Power Jack	JEITA type (DC IN 12V)			
General Specific	cations			
Input Voltage	DC 12V			
Input Current	Max. 1.2A			
Operating Temperature	0°C ~ 40°C			
Storage Temperature	-40°C ~ 60°C			
Power Consumption	Max. 15W			
Dimension	146mm x 169mm x 168mm			
Net Weight	About 1.5Kg			



eaming PTZ Camera

Product specifications and parameters are subject to change without notice.

028 456 7

# 5.3 Interface and Switch



# 8 9 0 **0 0 0**

Item	Description	
1	LINE IN Interface	
2	LINE OUT Interface	
3	Security Slot	
4	System Select Switch	
5	RS485 Interface	
6	RS232 IN Interface	
7	RS232 OUT Interface	
8	LAN Interface	
9	HDMI Interface	
10	3G-SDI Interface	
11	USB 3.0 Interface	
12	DC 12V Interface	
13	Power Switch	

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5.4	<b>Dimension</b> Ø 70.	7	Ø100	3-м 3
		152	1200	Ø5 1/4"-20UNC ₹
				1200
		168		
		17		
	O O O Standast poy de			
	146			
	122	61		

# 5.5 Installation



**b**<sub>Not</sub> The installation diagram is for reference only. The brackets and screws are not standard.

For packing accessories, please refer to the actual product.

	Chameye	Professional Live Stream	ing PTZ Camera www.chameye.net
5.6	Remote Control		6. Return Key
			Press to return to the previous menu
_			7. ZOOM Key
0	<b>b</b> 0		• SLOW: Zoom In [+] or Zoom Out [-]
	CAM ERA SELECT		slowly
	STD REV	u w	• FAST: Zoom In [+] or Zoom Out [-]
2			
-			• Standard: Simultaneously press L/R
		J   1	SET + 1
-			Reverse: Simultaneously press L/R
3	* 0 #		SET + 2
	F1 F2 F3 F4		9. FOCUS Key
			Auto/Manual/Far/Near focus
			10. CAMERA SELECT Key
4	PRESET RESET	B	Press to select and control the camera
•			11. # Key
5			Use with other keys
		•	12. IR Remote Control Key
A	<b>—</b>	Æ	[*]+[#]+[F1]: Address 1
0	<u>S</u> <u>MENU</u>		[*]+[#]+[F2]: Address 2
			[*]+[#]+[F3]: Address 3
	SLOW ZOOM FAST	1	[*]+[#]+[F4]: Address 4
•	+   +		13. RESEI Key
U	<u>מן מן</u>		Clear preset position: [RESE1] +
		l <b>f</b>	14 PTZ Control Key
8	L/R SET BACKLIGHT P/T RS		PT7 moved according to the arrow
Š			indicates
9	FOCUS	1	15 MENII Key
			Press to enter or exit OSD Menu
			16. BACKLIGHT Key
			Backlight ON/OFF: Press repeatedly to
Vo	v Description		enable or disable the backlight
1	y Description		compensation.
<u> </u>	Standby Key		NOTE:
- 11	Number Kan		<ul> <li>Effective only in auto exposure</li> </ul>
_ <u></u>	Number Key		mode.
- 1		esei	<ul> <li>If there is a light behind the subject, the subject will become dark press</li> </ul>
<u> </u>	o with other kove		the backlight key to enable the
			backlight compensation. Press again
- <u>4</u> .	TRESET NEY	mbor kov	to disable this function.
0 0	-0)	iibei key	17. P/T RST (PTZ Reset) Key
5	HOME Kev		PTZ starts to self-test after pressed it
	nfirm selection or press t	o turn PT7	Shortcut Set
ha	ick to the middle position		[*]+[#]+[1]: OSD menu default English
	ten te sno midulo position		[*]+[#]+[3]: OSD menu default Chinese
			[*]+[#]+[4]: Display current IP address
			[*]+[#]+[6]: Quickly recover the default
			[*]+[ # ]+[8]: View the camera version

[\*]+[#]+[9]: Quickly set up inversion [\*]+[#]+[MANUAL]: Restore default IP address

# 6 GUI Settings

#### 6.1 Menu

Press [MENU] key to display the main menu on the normal screen, using arrow key to move the cursor to the item to be set. Press the [HOME] key to enter the corresponding sub-menu.

Menu				
ENG/中文	ENG			
AI MODE	Off			
Video Format	1080P60			
Style	Default			
Exposure	->			
Color	->			
Image	->			
Display	->			
PTZ Setting	->			
Setting	->			
Version	->			
Default	->			
[MENU] Return / [HOME] Enter				

#### ENG/中文: ENG, 中文.

AI MODE: Off, Single Track, Frame Track,

Demo Mode.

Video Format: 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P30, 1080P25, 720P60, 720P50.

**Style:** Default, Cold, Warm, Clear, Soft, User1, User2, User3.

#### 6.2 Exposure

Move the main menu cursor to [Exposure],

and press [HOME] key enter the exposure

page, as shown in the following figure.

Exposure			
>	AE	Auto	
	Flicker	50Hz	
	Expcomp	On	

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Exposure			Color		
Mode			>	AWB	Auto
Expmode	2			Sens	Low
Backlight	Off			R-Tuning	0
Gain Limit	15			<b>B-Tuning</b>	0
DRC Mode	Off			Hue	50
				Saturation	100
[MENU] Return / []	HOME]				
Enter			[M	[ENU] Return ,	[HOME]

AE: Auto, Manual, Iris Priority, Shutter Priority, Bright Priority.

Flicker: Off, 50Hz, 60Hz (Effective only in Auto, Iris Priority, Bright Priority mode).

Expcomp Mode: On, Off (Effective only in Auto, Iris Priority mode).

**Expmode:** -7~7 (Effective only in

Expcomp Mode to On).

Backlight: On, Off (Effective only in Auto, Iris Priority mode).

Bright: 0~99 (Effective only in Bright Priority mode).

Gain Limit: 0~32 (Effective only in Auto, Iris Priority, Bright Priority mode).

Iris: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11, Off (Effective only in Manual, Iris Priority mode).

Shutter: 1/30, 1/50, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 (Effective only in Manual, Shutter Priority mode).

Gain: 0~31 (Effective only in Manual, Shutter Priority mode).

DRC Mode: Manual, Auto, Off.

DRC: 0~14 (Effective only in DRC Mode to Manual).

# 6.3 Color

Move the main menu cursor to [Color], and press [HOME] key enter the color page, as shown in the following figure.

Color

	B-Tuning	0	
	Hue	50	
	Saturation	100	
	[MENU] Return Enter	/ [HOME]	
AWB: Auto, VAR, Manual, One Push			

Indoor, Outdoor.

Sens: Low, Middle, High.

R-Gain: 0~1023 (Effective only in

Manual.

One Push mode).

B-Gain: 0~1023 (Effective only in Manual.

One Push mode).

R-Tuning: -128~128 (Effective only in Auto, Temp, One Push mode).

B-Tuning: -128~128 (Effective only in Auto, Temp, One Push mode).

Hue: 0~99.

Saturation:  $0 \sim 200$ .

Temp: 2000 ~ 8500 (Effective only in Temp mode).

# 6.4 Image

Move the main menu cursor to [Image], and press [HOME] key enter the image page, as shown in the following figure.

Image					
>	Brightness	50			
	Contrast	50			
Sharpness Auto		Auto			
Mode					
Gamma Mode Manual					
Gamma Ext		Ext			
NR-2D Mode Auto					
NR-3D Mode Auto					
[MENU] Return / [HOME] Enter					

Brightness: 0~99. Contrast: 0~99.

Sharpness Mode: Manual, Auto. Sharpness: 0~25 (Effective only in Sharpness Mode to Manual). Gamma Mode: Manual, Auto. Gamma: Ext, 0.45, 0.5, 0.54, 0.56, 0.63 (Effective only in Gamma Mode to Manual). NR-2D Mode: Manual, Auto. NR-2D: 0~99 (Effective only in NR-2D Mode to Manual). NR-3D Mode: Manual, Auto.

**NR-3D:** 0~15 (Effective only in NR-3D Mode to Manual).

#### 6.5 Display

Move the main menu cursor to [Display], and press [HOME] key enter the display page, as shown in the following figure.

Display				
>	OSD-Dir	0		
	Frac Rate	Off		
	HDMI Mode	HDMI		
SDI Mode Level A				
Flip-H Off				
	Flip-V	Off		
	Freeze	Off		
[MENU] Return / [HOME] Enter				

OSD-Dir: 0, 90, 180, 270. Frac Rate: On, Off. HDMI Mode: HDMI, DVI. SDI Mode: Level A, Level B. Flip-H: On, Off. Flip-V: On, Off. Freeze: On, Off.

#### 6.6 P/T/Z Setting

Move the main menu cursor to [P/T/Z Setting], and press [HOME] key enter the P/T/Z setting page, as shown in the following figure.

P/T/Z Setting					
>	AF-Sense	High			
	AF-Zone	Front			
	Focus Limit	Off			
	LR Mode	STD			
	Motion Sync	Off			
	Horizontal	23			
	Speed				
	Vertical Speed	19			
	Zoom Speed	7			
	PTbyZoom	On			
[MENU] Return / [HOME]					
Enter					

AF-Sense: High, Normal, Low.
AF-Zone: Front, Top, Center, Bottom.
Focus Limit: On, Off.
Near Focus Limit: 1M, 1.5M, 2M, 3M,

Chameye	Professional Live Streaming PTZ	Camera	www.chameye.net	
4M, 5M, 6M, 8M, 10M, 15M	1, 20M		Version	
(Effective only in Focus Lim	nit to On).	Main	X8.02.15	
Far Focus Limit: 15M, 20M	, Infinity	AF	14.04.04	
(Effective only in Focus Lim	nit to On).	Date	2022-08-18	
LR Mode: STD, REV.		NDI	Okav	
Motion Sync: On, Off.		License	ondj	
Horizontal Speed: 0~23.				
Vertical Speed: 0~19.		[MENU] F	Return / [HOME]	
<b>Zoom Speed:</b> 0~7.			Enter	l
PTbyZoom: On, Off.	Main:	Display the	e version number o	of the
0.7 Ootting	main	program of	the camera.	

# 6.7 Setting

Move the main menu cursor to [Setting],

and press [HOME] key enter the setting page,

as shown in the following figure.

Setting					
	Visca	1			
^	Addr				
	Visca	Series			
	Mode				
	Baud	9600			
	Rate				
	DHCP	Off			
	IP	192.168.100.88			
	Addr				
	MAC	d4e08e548d13			
[MENU] Return / [HOME]					
Enter					

Visca Addr: 1~7 (Effective only in VISCA

protocol).

Visca Mode: Serial, Paral. Baud Rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200. DHCP: On, Off. IP Addr: 192.168.100.88. MAC: d4e08e548d13.

## 6.8 Version

Move the main menu cursor to [Version], and press [HOME] key enter the version page, as shown in the following figure.

Version

**AF:** Display the camera autofocus version number.

**Date:** Display the burning date of the main program version of the camera. **Code:** Display the camera code.

**NDI License:** Display NDI license verification results.(optional)

# 6.9 Default

Move the main menu cursor to [Default], press [HOME] key enter default page, as shown in the following figure.

Default				
>	Reset	No		
[ME]	NU] Return Enter	/ [HOME]		

Reset: Yes, No.



GUI menu and parameters are subject to change without notice.

# 7 WEB Settings

# 7.1 Access Camera

Access http://192.168.100.88 to pop up the login window, then input username (default: admin) and password (default: admin). After login, it will show as below:



# 7.2 Control Camera

All pages include two menu bars: Real time monitoring: displaying video image Parameter setup: with function buttons.

# A. Video Viewing Window

Video viewing window must be same as video resolution, the bigger the resolution is, the bigger the playing area is. Double click viewing window, will show full-screen, double click again, will return to initialized size.

Status bar in viewing window shown as below:



- Video playback pause button: control real-time video pause, stop the last picture, click recoverable video again.
- 2) Audio control buttons: can adjust the volume or set silent mode.
- 3) Full screen switch button.
- B. PTZ Setup



# 1) Pan and Tilt Control

Up, Down, Left and Right arrows and the home button allow you to manually drive the camera to the desired position.

#### 2) Zoom

Zoom In and Zoom Out buttons allow for wide or narrow view of the space.

#### 3) Focus

Focus In and Focus Out buttons allow for fine manual focus adjustment if the camera has any problems auto focusing on the difficult object.

#### 4) PTZ Speeds

Pan speed can be set at any rate between  $1 \sim 24$ , Tilt speed can be set at any rate between  $1 \sim 20$ . Zoom and Focus speeds can be set at any rate between  $1 \sim 7$ .

#### 5) PTZ Presets

After manually setting up a shot that you would like to return to later, you can save presets for quick recall of these positions. Type a number between 0 and 254 into the Preset box. Click the "Set" button to save the current location with that preset number. Click the "Call" button to cause the camera to return to that position. This enables smooth, quick and convenient control without the need to manually drive the camera.

You can set up preset that user want as below.

Method: Type preset number into the Preset box.

Set	Call
Preset	

Preset: Optional items:  $0 \sim 254$ .

# 6) PTZ/OSD Dropdown

From the dropdown menu, clicking the OSD option will open the on-screen display menu of the camera giving you control from within the IP interface.

#### C. Language Selection

English 中文(简) Русский Language

Click either "Chinese", "English" or "Russian" to change the language of the webpage. Professional Live Streaming PTZ Camera

# 7.3 Video Settings

Video Settings	
Frac Rate	O0n ●0ff
First stream	
Encode Level	m a in profile
En co de Proto co 1	H264
Resolution	1920x1080
BitRate	8192
Fram e Rate	60
IK ey Fram e Interval	50
Bit Rate Con tro 1	CBR
S lice Sp lit En ab le	off
S lice S ize	23
Second stream	
Encode Level	m a in profile
En co de Proto co 1	H264
Resolution	640x360
BitRate	1024
Fram e Rate	30
IK ey Fram e Interval	30
Bit Rate Con tro 1	CBR
S lice Sp lit En ab le	off
S lice S ize	23
	Subm it Cancel

#### 1) Frac Rate

Turn On/Off Frac Rate.

#### 2) Encode Level

Support baseline, mainprofile, highprofile and svc-t four levels.

#### 3) Encode Protocol

Support H.264 and H.265 protocols.

#### 4) Resolution

First stream support 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360. Second stream support 1280x720, 1024x576, 720x480, 640x360, 480x272, 320x240, 320x180; The bigger resolution is, the clearer the image will be, more network bandwidth will be taken.

#### 5) Bit Rate

The user can specify the bit rate.

Generally speaking, the larger of the bit rate, the clearer of the image. However, the configuration of the bit rate needs to be combined with the network bandwidth. When the network bandwidth is narrow and the bit rate is configured larger, the video stream cannot be transmitted normally, and the visual effect is worse.

#### 6) Frame Rate

User can specify the size of the frame rate, generally, the frame rate greater, the image more smooth; Frame rate is smaller, the more sense of beating.

#### 7) I Key Frame Interval

Set interval between 2 I frame, the bigger interval is the response will be lower from viewing window.

#### 8) Bit Rate Control

Code stream control way:

CBR (Constant Bit Rate): Video coder will be coding according to preset speed. VBR (Variable Bit Rate): Video coder will adjust the speed based on preset speed to gain the best image quality.

#### 9) Slice Split Enable

Enable or disable slice split function.

#### 10) Slice Size

Set the size of slice.

#### 7.4 Image Settings

#### Chameye

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www.chameye.net



#### 1) Brightness

Brightness of image:  $0 \sim 99$  (Default value is 50).

#### 2) Saturation

Saturation of image:  $0 \sim 200$  (Default value is 100).

## 3) Contrast

Contrast of image:  $0 \sim 99$  (Default value is 50).

#### 4) Sharpness

Sharpness of image:  $0 \sim 99$  (Default value is 20).

## 5) Hue

Hue of image:  $0 \sim 99$  (Default value is 50).

## 6) Flip

Turn On/Off the Flip function.

## 7) Mirror

Turn On/Off the Mirror function.

# 7.5 Audio Settings

Audio Settings	
Audio Switch	0 n
Audio Type	AAC
Sam ple Rate	48K
BitRate	96K
In put Type	LNE N
Input VolL	2
Input VolR	14
Su	bm it Cancel

# 1) Audio Switch

Turn On/Off audio switch.

2) Audio Type

Optional items: AAC.

3) Sample Rate

Optional items: 32K, 48K.

#### 4) Bit Rate

Optional items: 96K, 128K, 256K.

5) Input Type

Optional items: LINE IN, MIC.

6) Input Vol L

The volume of the left channel.

#### 7) Input Vol R

The volume of the right channel.

Chameye

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# 7.6 System Settings

In itia lize		
1	Reboot	Reboot
User		
U se	rNam e	adm in
F	assw d	••••• •
	Guest	guest
F	assw d	•••••
	Su	ubm it Cancel

#### 1) Reboot

Click the "Reboot" button, system restart.

#### 2) Username and Password

The user can modify the password (letters and Numbers only).

# 7.7 Network Settings

Lan Settings		
₽ Configuration Type	Manual	
₽ Address	192.168.100.88	
SubnetM ask	255.255.255.0	
Gateway	192.168.100.1	
DNS Address	8.8.8.8	
M AC Address	D4±0.8EA9.7345	
Suba à Cancel		
NTP Settings		
Tim e Zone	(GM T+08:00) Fuzhou, China	
ServerAddress	cn.ntp.org.cn	
Tim e Show	O 0n ● 0 ff	
Position	X 10 Y 100	
Sub title D isp lay	O 0n ● 0 ff	
Sub title Content	Beijing Meeting Room	
Subm it Cancel		
PortSettings		
HTTP Port	80	
RTSP Port	554	
TCP Port	5678	
UDP Port	1259	
Sony Visca	52381	

RTM P (\$) Settings	
FirstStream	<b>○</b> 0n ●0ff
M RL	rtm p://192.168.100.138/live/stream 0
Second Stream	O0n ●0ff
M RL	rtm p://192.168.100.138/live/stream 1
SRT Settings	
SRT	● 0 n O 0 ff
SRT Port	4578
SRT Encryp tion	None
SRT Password	1234564913131
RTSP Settings	
RTSP Auth	O0n ●0ff
0 N V IF Settings	
0 N V IF	<b>○</b> 0n ●0ff
0 N VIF Au th	O0n ●0ff
	Subm it Cancel

# 1) Lan Settings

Default the IP address is 192.168.100.88, the MAC address cannot be modified.

#### 2) NTP Settings

Setting NTP Time Zone and Server Address. Turn On/Off Time Show, set the position of the Time Show. Turn On/Off Subtitle Display, set the Subtitle Content of the camera screen.

- 3) Port Settings
- A. HTTP Port

IP address identifies network device, the device can run multiple web applications, each network program using network port to transmit data, so data transmission to be carried out between the port and port. Port setting is to set up web server program using which port to transmit. When port mapping, need to be consistent with the port number (default port: 80).

#### B. RTSP Port

The camera support RTSP protocol, use the VLC tools broadcast, default port: 554.

C. TCP Port

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Support TCP connection then control camera, default port: 5678.

Support UDP protocol, default port: 1259.

E. Sony Visca

D. UDP Port

Support Sony Visca, default value: 52381.

# 4) RTMP(S) Settings

Turn On/Off first stream or second stream, setting the MRL of RTMP.

#### 5) SRT Settings

Turn On/Off SRT, Setting the SRT Port, SRT Encry and SRT Password.

#### 6) RTSP Settings

Turn On/Off RTSP Auth.

#### 7) ONVIF Settings

Turn On/Off ONVIF and ONVIF Auth.

# 7.8 NDI® Settings (Optional)

ND IR Settings	
ND IR HB	<b>○</b> 0n ●0ff
ND ILicen se	ok
Server ₽	192.168.100.1
Group Nam e	Pub lic
Key	eFNN09JW
ND I <sub>R</sub> Fim ware Version	v5.1.1
	Subm it Cancel

## 1) NDI®|HB

Turn On/Off NDI®|HB.

2) NDI License

Display NDI License verification results.

3) Server IP

Setting NDI® Server IP address.

#### 4) Group Name

Setting NDI® Group Name.

5) Key

Setting NDI® Key.

#### 6) NDI® Firmware Version

Display NDI® Firmware Version.

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# 7.9 Device Information

Inform ation	
Device ID	HD Cam era
Device Type	V.F1
Software Version	X8.02.15
W ebw are Version	v1.5.5
Device SerialNum ber	X6v19260f6c9
Subm it Cancel	

# 7.10 Download Upgrade Program

If you need the camera upgrade program, please contact the manufacturer.



WEB interface and parameters are subject to change without notice.

#### 8 Troubleshooting

#### Image

- The monitor shows no image
- 1) Check that the camera power supply is connected, the voltage is normal, and the power indicator light is always on.
- 2) Turn off the power switch to check whether the camera is self-testing.
- 3) Check the cable of video platform and TV whether correct connection.
- The video image displayed by the camera lens is jittery
- 1) Check whether the camera installed position be stabled.
- 2) Check whether have vibrating machinery or object near the camera.

• There is no video image in Browser IE browser does not support H5, you need to use VLC plug-in to view videos. Please access VLC website

(http://www.videolan.org/vlc) download and install the 32-bit VLC media player, after it installed, access camera will have normal image display. Other mainstream browsers already support H5 and do not need to install the VLC plug-in.

- Unable to access camera through Browser
- 1) Using PC to access the network to test whether the network access can work properly, first of all, the network fault caused by the PC virus can be eliminated, until the PC and camera can communicate with each other Ping.
- 2) Disconnect the network, connect camera and PC separately, and reset the IP address of PC.
- 3) Check IP address, subnet mask, and gateway settings for camera.
- 4) Check whether the MAC address is conflicts.
- 5) Check whether the web port is modified.
- 6) The default web port is 80.
- Forget the IP address or login password

Please remember (The default IP address: 192.168.100.88; default user name: admin; default password: admin). Control

- Remote control cannot control
- 1) Check and replace the new battery for the remote controller.
- 2) Check whether the camera working mode is correct.
- 3) Check whether the address of remote control can match the camera.
- Serial port cannot control
- 1) Check whether the camera protocol, address and baud rate such is the same.
- 2) Check whether the control line is connected well.

