## Chameye

# HDMI/NDI/SDI/USB AI Tracking PTZ CAMERA

>> 20x Optical Zoom <<
(User Manual V1.1)



## **Technical Support:**

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■ Website: www.chameye.net

Phone: 0086-18588412232

Please Note: Only NDI version cameras have NDI function.

## Copyright

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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.



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:



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

## **Quick Start**

#### **♦** Add Cameras to Your Network

Please do the connections as the following. You'd better have a router in your network, then router will assign IP addresses for the cameras automatic.

(If you don't have router in your network, cameras can't get IP address from your network. Then, the camera's default IP address is: 192.168.100.88. You should do network settings in computer, please contact us for PDF instruction in this situation).



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, otherwise when camera/ router rebooted, router will assign a new IP address for the camera.

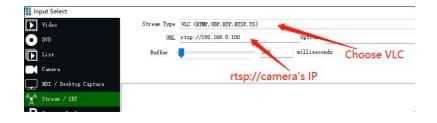
#### ♦ Visit Camera's Webpage

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.





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.

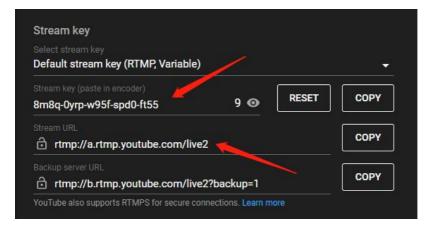
## ♦ IP Steam to Youtube or Facebook

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



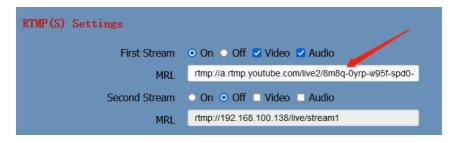
Now go to camera's webpage ->network->RTMP Settings.

input the RTMP stream URL:

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

(Format: Stream URL/Stream Key)

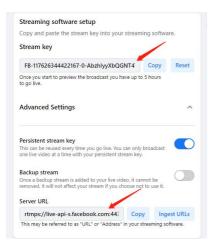
Save and reboot the camera, camera will stream to Youtube.



**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.

- **♦** Connect Camera to Controller Keyboard
- information you need:
- ♦ User Name: admin Password: admin
- ♦ Sony Visca port: 52381 IP Visca UDP port: 1259
- ♦ IP Visca TCP port: 5678 Onvif 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, and 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.

- 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.



Specific frequencies of electromagnetic field

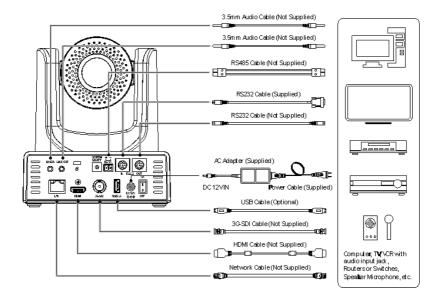
may affect the image of the camera!

## 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

## 3 Quick Start

1) Please check connections are correct before starting.



- 2) 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.
- 3) 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.
- 4) (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.	1080160	Δ	1080P59.9
	1000100	А	4
3	1080I50	В	1080I59.94
1	720P60	С	1080P29.9
4	4 /20P60		7
5	720P50	D	-
6	1080P30	E	-
7	1080P25	F	720P59.94

## 5 About Product

#### 5.1 Features

## • 60.7° Wide-angle Lens + 20x Optical Zoom

60.7° high-quality ultra-wide-angle lens, optical zoom up to 20x, support 16x 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.

	Chameye
•	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	20x, f = 4.42mm ~ 88.5mm, F1.8 ~ F2.8	
Digital Zoom	16x	
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° ~ 3.36°	
Vertical FOV	34.1° ~ 1.89°	
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	

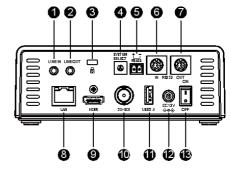
Duff of 11	01	: DT7.0		
Professional Live	Stream		www.chameye.net	
		Preset	255	
485 serial		Prosition		
ontrolled		Preset	0.1°	
		Accuracy		
		Audio Features		
			Built-in dual	
		Microphone	microphones, 100Hz to	
1080P59.94,		Array	16KHz frequency	
1080160,			response	
4, 1080I50,		Audio Input	Support LINE IN audio	
1080P29.97,			input	
720P60,		Andia Ontont	Support LINE OUT,	
, 720P50		Audio Output	HDMI, USB and other	
, CMOS,			audio output	
oixels: 2.07M		USB Features		
		Operate	Windows 7/8/10, Mac	
re		System	OS X, Linux, Android	
42mm ~		Color System		
f1.8 ~ F2.8		/	YUY2/MJPEG/H.264	
		Compression		
(F1.8, AGC		USB Audio	Support	
(11.0, 1100		USB Video	10.00 1 1 10.00 1 5	
		Protocol	UVC 1.1/UVC 1.5	
/10000s		UVC PTZ	Commont	
, Manual,		Control	Support	
Indoor,		Network Features		
		Video		
		Compression	H.264/H.265	
Digital Noise	-	Video Stream	First Stream,	
rigital ivolse			Second Stream	
		Einst Cl	1920x1080, 1280x720,	
		First Stream	1024x576, 960x540,	
36°		Resolution	640x480, 640x360	
		Cocond	1280x720, 1024x576,	
89°		Second Stream	720x480, 640x360,	
		Resolution	480x272, 320x240,	
20		170201011011	320x180	
)°		Video Bit Rate	32Kbps ~ 20480Kbps	
)°/s		Bit Rate		
9°/s		Control	CBR, VBR	
<i>J</i> / S		Frame Rate	1fps ~ 60fps	
			11h2 - ooth2	
		Audio	AAC	
	Audio Bit Rate  Protocols	Compression	Ockhaa 120khaa	
		Audio Bit Rate	96Kbps, 128Kbps,	
			256Kbps	
		NDI(optional), TCP/IP,		
		HTTP, RTSP, RTMP/RTMPS, ONVIF,		
	4		KIMP/KIMPS, UNVIF,	

Chamey	Professional Live	
	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 Interface	1 x LAN: 10M/100M Adaptive Ethernet Port	
HDMI Interface	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	



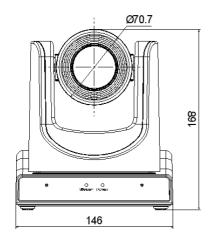
Product specifications and parameters are subject to change without notice.

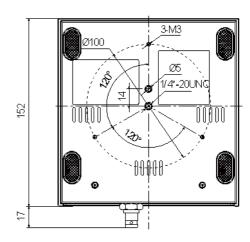
## 5.3 Interface and Switch

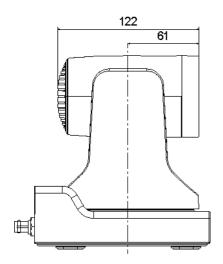


Item	Description	
1	LINE IN Interface	
2	LINE OUT Interface	
3	Security Slot	
4	System Select Switch	
5	RS485 Interface	
6	RS232 IN Interface	
7	RS232 OUT Interface	
8	LAN Interface	
9	HDMI Interface	
10	3G-SDI Interface	
11	USB 3.0 Interface	
12	DC 12V Interface	
13	Power Switch	

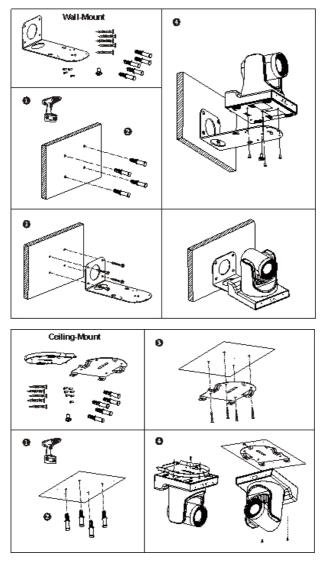
## 5.4 Dimension







## 5.5 Installation

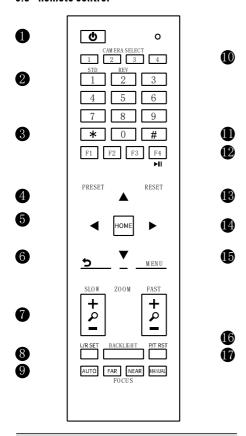




The installation diagram is for reference only. The brackets and screws are not standard.  $\ensuremath{\mathsf{T}}$ 

For packing accessories, please refer to the actual product.

#### 5.6 Remote Control



#### **Key Description**

#### 1. Standby Key

Press to enter standby mode

#### 2. Number Key

Press to set preset or call preset

#### 3. \*Key

Use with other keys

#### 4. PRESET Key

Set preset: [PRESET] + Number key (0-9)

#### 5. HOME Kev

Confirm selection or press to turn PTZ back to the middle position

#### 6. Return Key

Press to return to the previous menu

#### 7. ZOOM Key

- SLOW: Zoom In [+] or Zoom Out [-] slowly
  - FAST: Zoom In [+] or Zoom Out [-] fast

#### 20011 Out [-] las

#### 8. L/R SET Key

#### Standard:

Simultaneously press L/R SET + 1

• Reverse:

Simultaneously press L/R SET + 2

#### 9. FOCUS Key

Auto/Manual/Far/Near focus

#### 10. CAMERA SELECT Key

Press to select and control the camera

#### 11. # Key

Use with other keys

#### 12. IR Remote Control Key

[\*]+[#]+[F1]: Address 1 [\*]+[#]+[F2]: Address 2

[\*]+[#]+[F3]: Address 3

[\*]+[#]+[F4]: Address 4

#### 13. RESET Key

Clear preset position: [RESET] + Number key (0-9)

#### 14. PTZ Control Key

PTZ moved according to the arrow indicates

#### 15. MENU Key

Press to enter or exit OSD Menu

#### 16. BACKLIGHT Key

Backlight ON/OFF: Press repeatedly to enable or disable the backlight compensation.

#### NOTE:

- Effective only in auto exposure mode.
- If there is a light behind the subject, the subject will become dark, press the backlight key to enable the backlight compensation. Press again to disable this function.

#### 17. P/T RST (PTZ Reset) Key

PTZ starts to self-test after pressed it

#### Shortcut Set

[\*]+[#]+[1]: OSD menu default English

[\*]+[#]+[3]: OSD menu default Chinese

[\*]+[#]+[4]: Display current IP address [\*]+[#]+[6]: Quickly recover the default

[\*]+[#]+[0]: 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			

ENG/中文: ENG, 中文.

AI MODE: Off, Single Track, Frame

Track.

Demo Mode.

Video Format: 1080P60, 1080P50, 1080I60, 1080I50, 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				

Chameye	Profession		
Exposure			
Mode			
Expmode	2		
Backlight	Off		
Gain Limit	15		
DRC Mode	Off		
[MENU] Return / [HOME]			
Enter			

**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

Z Calli	cia www.c	nameye.net	
Color			
>	AWB	Auto	
	Sens	Low	
	R-Tuning	0	
B-Tuning		0	
	Hue	50	
Saturation		100	
[MENU] Return / [HOME] Enter			

**AWB:** Auto, VAR, Manual, One Push, Indoor, Outdoor.

Sens: Low, Middle, High.

**R-Gain:**  $0 \sim 1023$  (Effective only in

Manual,

al Live Streaming PT

One Push mode).

**B-Gain:**  $0 \sim 1023$  (Effective only in

Manual,

One Push mode).

**R-Tuning:**  $-128 \sim 128$  (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:**  $2000 \sim 8500$  (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.

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

Brightness:  $0 \sim 99$ . Contrast:  $0 \sim 99$ .

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]

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 PT	Z Camera	www.chameye.net		
4M, 5M, 6M, 8M, 10M, 15	M, 20M		Version		
(Effective only in Focus Lin	mit to On).	Main	X8.02.15		
Far Focus Limit: 15M, 20N	A, Infinity	AF	14.04.04		
(Effective only in Focus Lin	mit to On).	Date	2022-08-18		
LR Mode: STD, REV.	,	Code NDI	VF1 Okav		
Motion Sync: On, Off.		License	Ondy		
Horizontal Speed: $0 \sim 23$ .					
Vertical Speed: 0~19.		[MENU] Return / [HOME]			
Zoom Speed: 0~7.			Enter		

 $\boldsymbol{\mathsf{Main:}}$  Display the version number of the

main program of the camera.

## 6.7 Setting

PTbyZoom: On, Off.

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.

	rs	

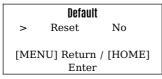
**AF:** Display the camera autofocus version number.

**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.



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

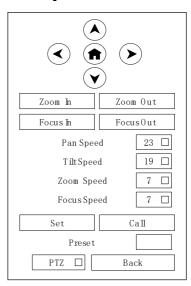
Video viewing window must be same as video resolution, the bigger the resolution is, the bigger the playing area is. Double click viewing window, will show full-screen, double click again, will return to initialized size.

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.
- 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.



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.

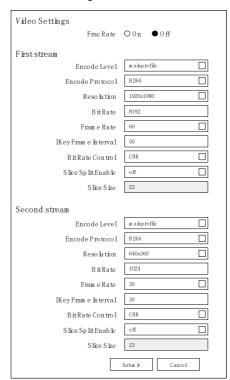
#### C. Language Selection

Спаппеуе	Profess		
	English 中文(简)		
Language	平文 (町) Русский		

Click either "Chinese", "English" or "Russian" to change the language of the webpage.

#### 7.3 Video Settings

ional Live Streaming PTZ Camera



www.chameve.net

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.

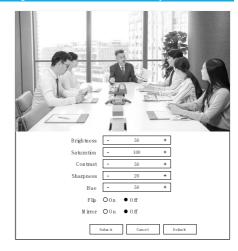
#### 9) Slice Split Enable

Enable or disable slice split function.

#### 10) Slice Size

Set the size of slice.

#### 7.4 Image Settings



#### 1) Brightness

Brightness of image:  $0\sim99$  (Default value is 50).

#### 2) Saturation

Saturation of image:  $0\sim200$  (Default value is 100).

#### 3) Contrast

Contrast of image:  $0\sim99$  (Default value is 50).

#### 4) Sharpness

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

#### 5) Hue

Hue of image:  $0\sim99$  (Default value is 50).

#### 6) Flip

Turn On/Off the Flip function.

#### Mirror

Turn On/Off the Mirror function.

#### 7.5 Audio Settings

#### 1) Audio Switch

Turn On/Off audio switch.

#### **Audio Type** 2)

Optional items: AAC.

#### Sample Rate 3)

Optional items: 32K, 48K.

#### Bit Rate 4)

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

#### Input Type

Optional items: LINE IN, MIC.

#### Input Vol L

The volume of the left channel.

#### Input Vol R

The volume of the right channel.

## 7.6 System Settings



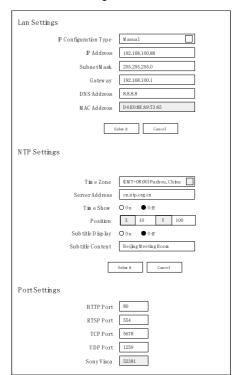
#### 1) Reboot

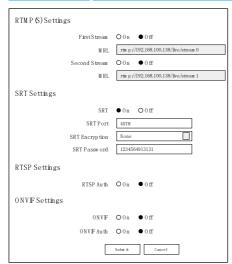
Click the "Reboot" button, system restart.

#### Username and Password 2)

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

#### 7.7 Network Settings





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

#### 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

#### D. UDP Port

Support UDP protocol, default port: 1259.

E. Sony Visca

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.

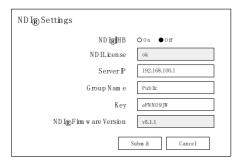
#### 6) RTSP Settings

Turn On/Off RTSP Auth.

#### 7) ONVIF Settings

Turn On/Off ONVIF and ONVIF Auth.

## 7.8 NDI® Settings (Optional)



#### 1) NDI®|HB

Turn On/Off NDI®|HB.

#### 2) NDI License

Display NDI License verification results.

#### Server IP

Setting NDI® Server IP address.

#### 4) Group Name

Setting NDI® Group Name.

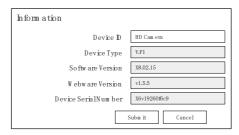
#### 5) Key

Setting NDI® Key.

#### 6) NDI® Firmware Version

Display NDI® Firmware Version.

#### 7.9 Device Information



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

