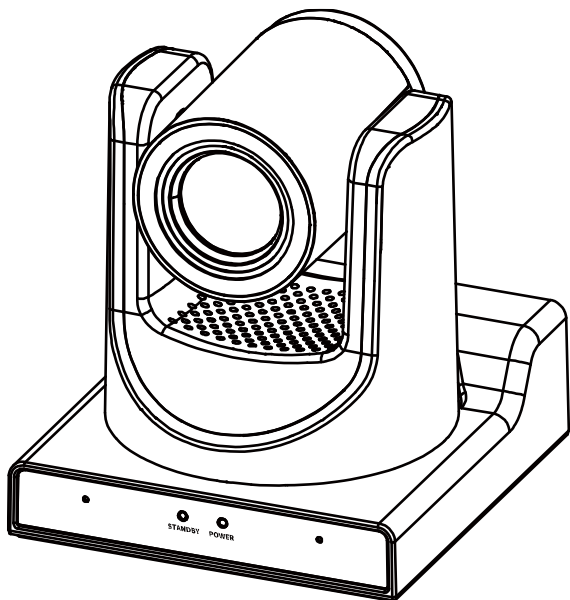


# **c-Stream Pro33 PTZ camera**



**User Manual**

**English (V1.0)**



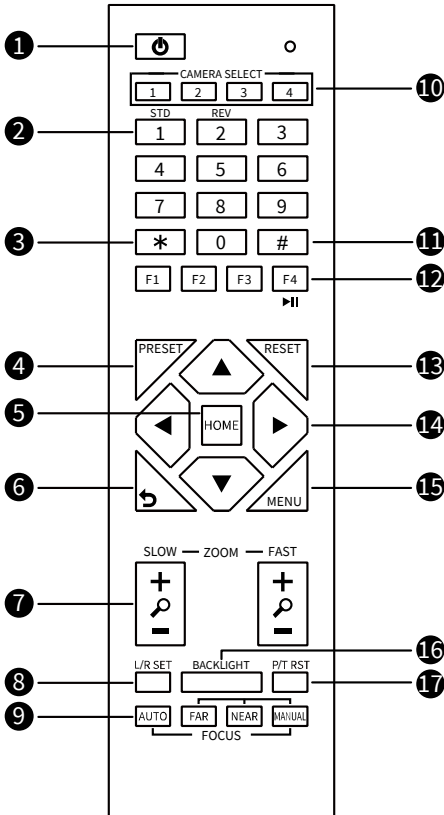
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# 1 Remote Control



## คำอธิบายปุ่มควบคุม

1. **ปุ่มสแตนด์บาย (Standby Key)**  
กดเพื่อเข้าสู่โหมดสแตนด์บาย
2. **ปุ่มตัวเลข (Number Key)**  
กดเพื่อตั้งค่าหรือเรียกการตั้งค่าล่วงหน้า (Preset)
3. **ปุ่ม \* (Star Key)**  
ใช้ร่วมกับปุ่มอื่นๆ
4. **ปุ่ม PRESET**  
ตั้งค่าล่วงหน้า: [PRESET] + ปุ่มตัวเลข (0-9)
5. **ปุ่ม HOME**  
ยืนยันการเลือกหรือนำ PTZ กลับไปยังตำแหน่งกึ่งกลาง

6. **ปุ่มย้อนกลับ (Return Key)**  
กดเพื่อกลับไปยังเมนูก่อนหน้านี้
7. **ปุ่ม ZOOM**
  - SLOW: ซูมเข้า [+] หรือซูมออก [-] อย่างช้า
  - FAST: ซูมเข้า [+] หรือซูมออก [-] อย่างเร็ว
8. **ปุ่ม L/R SET**
  - มาตรฐาน: กด L/R SET + 1 พร้อมกัน
  - กลับด้าน: กด L/R SET + 2 พร้อมกัน
9. **ปุ่ม FOCUS**  
โฟกัสอัตโนมัติ/แมนวล/ไกล/ใกล้
10. **ปุ่ม CAMERA SELECT**  
กดเพื่อเลือกและควบคุมกล้อง
11. **ปุ่ม # (Hash Key)**  
ใช้ร่วมกับปุ่มอื่นๆ
12. **ปุ่มควบคุม IR รีโมท**
  - [\*]+[#]+[F1]: ที่อยู่ 1
  - [\*]+[#]+[F2]: ที่อยู่ 2
  - [\*]+[#]+[F3]: ที่อยู่ 3
  - [\*]+[#]+[F4]: ที่อยู่ 4
13. **ปุ่ม RESET**  
ล้างค่าตำแหน่งที่ตั้งไว้: [RESET] + ปุ่มตัวเลข (0-9)
14. **ปุ่มควบคุม PTZ (PTZ Control Key)**  
เลือก PTZ ตามทิศทางที่ลูกศรระบุ
15. **ปุ่ม MENU**  
กดเพื่อเข้าสู่หรือออกจากเมนู OSD
16. **ปุ่ม BACKLIGHT**  
เปิด/ปิดแสงพื้นหลัง: กดซ้ำๆ เพื่อเปิดหรือปิดการแสดงผลแสงพื้นหลัง  
หมายเหตุ:
  - มีผลเฉพาะในโหมดการรับแสดงอัตโนมัติ
  - หากมีแสงอยู่ด้านหลังวัตถุ วัตถุอาจมืดลง กดปุ่ม Backlight
17. **ปุ่ม P/T RST (PTZ Reset Key)**  
กดเพื่อเริ่มต้นการทดสอบตัวเองของ PTZ

## การตั้งค่าทางลัด (Shortcut Set)

- [\*]+[#]+[1]: เมนู OSD คำเริ่มต้นเป็นภาษาอังกฤษ
- [\*]+[#]+[3]: เมนู OSD คำเริ่มต้นเป็นภาษาจีน
- [\*]+[#]+[4]: แสดงที่อยู่ IP ปัจจุบัน
- [\*]+[#]+[6]: กู้คืนการตั้งค่าเริ่มต้นอย่างรวดเร็ว
- [\*]+[#]+[8]: ดูเวอร์ชันของกล้อง
- [\*]+[#]+[9]: ตั้งค่าการกลับด้านอย่างรวดเร็ว
- [\*]+[#]+[MANUAL]: กู้คืนที่อยู่ IP เริ่มต้น

## GUI Settings

### เมนู (Menu)

กดปุ่ม [MENU] เพื่อแสดงเมนูหลักบนหน้าจอปกติ จากนั้นใช้ปุ่มลูกศร

(Arrow Key) เพื่อช่วยตัวชี้ไปยังหัวข้อที่ต้องการตั้งค่ากดปุ่ม

[HOME] เพื่อเข้าสู่เมนูย่อยที่เกี่ยวข้อง

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, 1080P25, 720P60, 720P50.

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

Exposure	
> AE	Auto
Flicker	50Hz
Expcomp Mode	On
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).

### 2.1 Color

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

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:** 0~1023 (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:** 0~200.

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

## 2.2 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 Mode	Auto
	Gamma Mode	Manual
	Gamma	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).

## 2.3 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.

## 2.4 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 Speed	23
	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, 4M, 5M, 6M, 8M, 10M, 15M, 20M (Effective only in Focus Limit to On).

**Far Focus Limit:** 15M, 20M, Infinity (Effective only



in Focus Limit to On).

**LR Mode:** STD, REV.

**Motion Sync:** On, Off.

**Horizontal Speed:** 0~23.

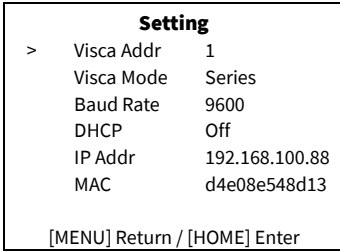
**Vertical Speed:** 0~19.

**Zoom Speed:** 0~7.

**PTbyZoom:** On, Off.

### 2.5 Setting

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



**Visca Addr:** 1~7 (Effective only in VISCA protocol).

**Visca Mode:** Serial, Paral.

**Baud Rate:** 2400, 4800, 9600, 19200, 38400, 57600, 115200.

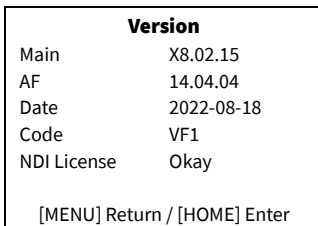
**DHCP:** On, Off.

**IP Addr:** 192.168.100.88.

**MAC:** d4e08e548d13.

### 2.6 Version

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



**Main:** Display the version number of the main program of the camera.

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

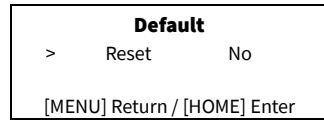
**Date:** Display the burning date of the main program version of the camera.

**Code:** Display the camera code.

**NDI License:** Display NDI license verification results.

### 2.7 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.

## 3 WEB Settings

### 3.1 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:



### 3.2 Control Camera

All pages include two menu bars:

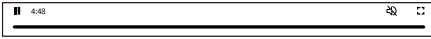
Real time monitoring: displaying video image

Parameter setup: with function buttons.

## A. Video Viewing Window

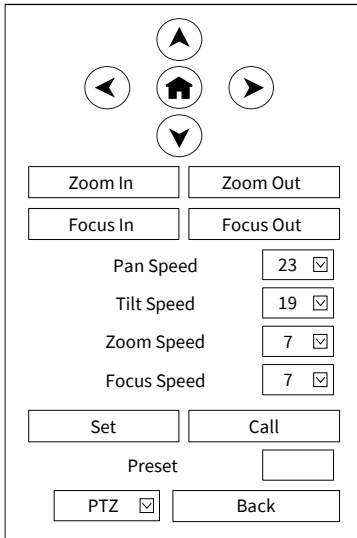
Video viewing window must be same as video resolution, the bigger the resolution is, the bigger the playing area is. Double click viewing window, will show full-screen, double click again, will return to initialized size.

Status bar in viewing window shown as below:



- 1) 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

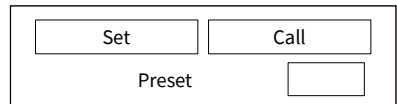
Focus In and Focus Out buttons allow for fine manual focus adjustment if the camera has any problems auto focusing on the difficult object.

### 4) PTZ Speeds

Pan speed can be set at any rate between 1 ~ 24, Tilt speed can be set at any rate between 1 ~ 20. Zoom and Focus speeds can be set at any rate between 1 ~ 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.

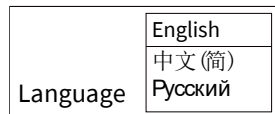


Preset: Optional items: 0 ~ 254.

### 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



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

### 3.3 Video Settings

Video Settings

Frac Rate  On  Off

First stream

Encode Level

Encode Protocol

Resolution

Bit Rate

Frame Rate

I Key Frame Interval

Bit Rate Control

Slice Split Enable

Slice Size

Second stream

Encode Level

Encode Protocol

Resolution

Bit Rate

Frame Rate

I Key Frame Interval

Bit Rate Control

Slice Split Enable

Slice Size

#### 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.

### 3.4 Image Settings



Brightness

Saturation

Contrast

Sharpness

Hue

Flip  On  Off

Mirror  On  Off

### 1) Brightness

Brightness of image: 0~99 (Default value is 50).

### 2) Saturation

Saturation of image: 0~200 (Default value is 100).

### 3) Contrast

Contrast of image: 0~99 (Default value is 50).

### 4) Sharpness

Sharpness of image: 0~99 (Default value is 20).

### 5) Hue

Hue of image: 0~99 (Default value is 50).

### 6) Flip

Turn On/Off the Flip function.

### 7) Mirror

Turn On/Off the Mirror function.

## 3.5 Audio Settings

Audio Settings	
Audio Switch	<input type="checkbox"/> On <input checked="" type="checkbox"/>
Audio Type	<input type="checkbox"/> AAC <input checked="" type="checkbox"/>
Sample Rate	<input type="checkbox"/> 48K <input checked="" type="checkbox"/>
Bit Rate	<input type="checkbox"/> 96K <input checked="" type="checkbox"/>
Input Type	<input type="checkbox"/> LINE IN <input checked="" type="checkbox"/>
Input Vol L	<input type="checkbox"/> 2 <input checked="" type="checkbox"/>
Input Vol R	<input type="checkbox"/> 14 <input checked="" type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="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.

## 3.6 System Settings

Initialize	
Reboot	<input type="button" value="Reboot"/>
User	
UserName	<input type="text" value="admin"/>
Passwd	<input type="password" value="*****"/> <input type="checkbox"/>
Guest	<input type="text" value="guest"/>
Passwd	<input type="password" value="*****"/> <input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	

### 1) Reboot

Click the “Reboot” button, system restart.

### 2) Username and Password

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

## 3.7 Network Settings

Lan Settings	
IP Configuration Type	<input type="checkbox"/> Manual <input checked="" type="checkbox"/>
IP Address	<input type="text" value="192.168.100.88"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.100.1"/>
DNS Address	<input type="text" value="8.8.8.8"/>
MAC Address	<input type="text" value="D4:E0:8E:A9:73:45"/>
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	
NTP Settings	
Time Zone	<input type="checkbox"/> (GMT+08:00) Fuzhou, China <input checked="" type="checkbox"/>
Server Address	<input type="text" value="cn.ntp.org.cn"/>
Time Show	<input type="radio"/> On <input checked="" type="radio"/> Off
Position	<input type="checkbox"/> X <input type="checkbox"/> 10 <input type="checkbox"/> Y <input type="checkbox"/> 100
Subtitle Display	<input type="radio"/> On <input checked="" type="radio"/> Off
Subtitle Content	<input type="text" value="Beijing Meeting Room"/>
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	
Port Settings	
HTTP Port	<input type="text" value="80"/>
RTSP Port	<input type="text" value="554"/>
TCP Port	<input type="text" value="5678"/>
UDP Port	<input type="text" value="1259"/>
Sony Visca	<input type="text" value="52381"/>

**RTMP(S) Settings**

First Stream  On  Off  
MRL

Second Stream  On  Off  
MRL

**SRT Settings**

SRT  On  Off  
SRT Port   
SRT Encryption    
SRT Password

**RTSP Settings**

RTSP Auth  On  Off

**ONVIF Settings**

ONVIF  On  Off  
ONVIF Auth  On  Off

### 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

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

#### 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.

## 3.8 NDI® Settings (Optional)

**NDI® Settings**

NDI®|HB  On  Off  
NDI License   
Server IP   
Group Name   
Key   
NDI® Firmware Version

### 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.

### 3.9 Device Information

Information	
Device ID	HD Camera
Device Type	V.F1
Software Version	X8.02.15
Webware Version	v1.5.5
Device Serial Number	X6v19260f6c9
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	

### 3.10 Download Upgrade Program

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



Note

WEB interface and parameters are subject to change without notice.

## 4 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. 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.

