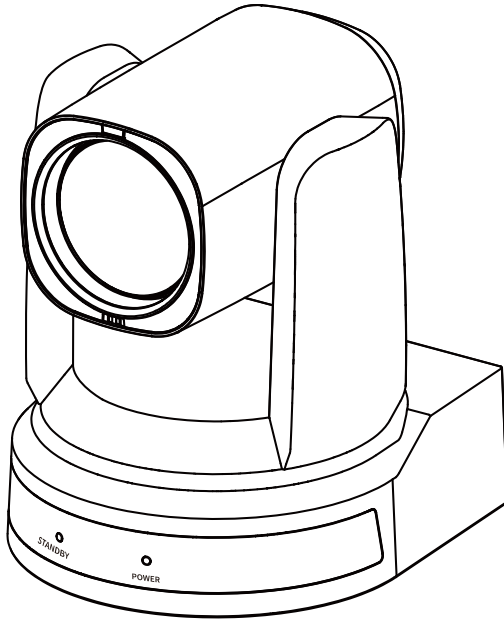# ROCWARE®

RC821U 1080P Video Conferencing PTZ Camera

STANDBY

POWER

User Manual

English (V1.0)

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 device 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 equipment 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:

Warning

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.

Catalogue

1 Safety Precautions

- During the installation and operation, 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.
- Do not connect multiple devices to the same power adapter (exceeding capacity of the adapter may generate excessive heat or cause fire).
- Do not rotate the camera by hand, otherwise it may cause mechanical failure.
- When installing this product on a wall or ceiling, make sure the device securely and there are no obstacles within the rotation range; Do not power on until all installations are completed.
- To avoid heat build-up, please keep smooth ventilation around the device.

- If the device smokes, smells, or makes noises, please turn off the power and unplug the power cord immediately, then 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.

⚠ **Notice**

Electromagnetic field at specific frequencies may affect the image quality.

2 Packing List

Name	Quantity
Camera	1
Power Adapter	1
Power Cable	1
Remote Control	1
USB Cable	1
User Manual	1

3 Quick Start

1) Please check connections are correct before starting.
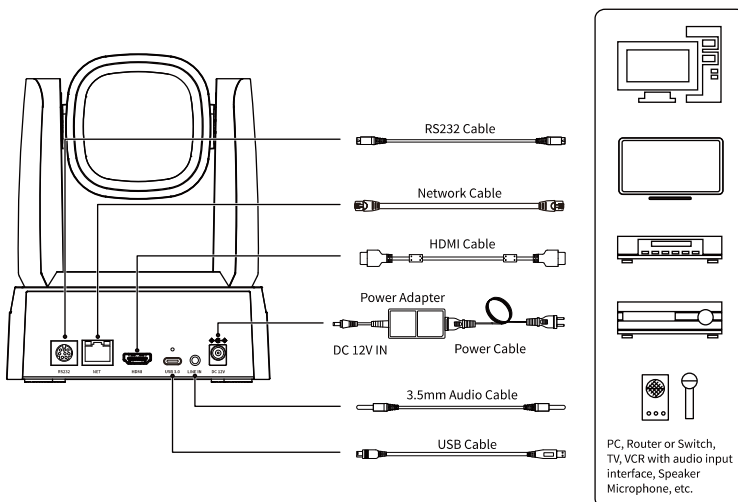
2) Connect the power adapter to the power interface on the rear panel of the camera. The power indicator on the front panel of the camera is on.

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 About Product

4.1 Features

● **Full Function USB Interface**

Full function USB interface, compatible with USB 3.0 and USB 2.0, support UVC 1.1 and UAC 1.0 protocol, support video raw image and encoding output.

● **1080P Full HD**

High-quality HD CMOS sensor with 2.07 million effective pixels for high-quality images up to 1920x1080.

● **72.5° Wide-angle-lens +16x Digital Zoom**

The exclusively customized 72.5° high-quality ultra-wide-angle lens, support 12x optical zoom and 16x digital zoom.

● **Low Illumination**

The new CMOS image sensor with ultra-high SNR can effectively reduce the image noise under low illumination. The application of 2D and 3D noise reduction algorithm greatly reduces the image noise even under the condition of ultra-low illumination, it keeps the picture clean and clear, and the SNR of image is as high as 55dB.

● **PoE**

The wired network supports PoE power supply, the control, power supply, video and audio can be completed with a network cable.

● **Remote Control**

The camera can be controlled remotely through the RS232, network and USB port.

● **H.264 Slice**

The H.264 stream supports Slice encoding modes, and suitable for high-end USB conference video applications.

● **Dual Stream**

Support two stream output (YUY2, MJPEG, H.264 each of both) to reduce the host codec pressure.

● **Multiple & Complete Interfaces**

Support 1080P video output through HDMI, USB 3.0 and network simultaneously.

● **Three Power Supply Modes**

Simultaneously support USB 5V, DC 12V power adapter and PoE power supply.

● **High Frame Rate**

1080P output frame rate up to 60fps.

4.2 Product Specifications

Camera	
Video System	1080P60, 1080P50，1080P30, 1080P25, 720P60, 720P50
Sensor	1/2.8 inch, CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x, f=3.5mm~42.3mm, F1.8~F2.8
Digital Zoom	16x
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s~1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Signal Noise Ratio	≥55dB
Horizontal FOV	72.5°~6.9°
Vertical FOV	44.8°~3.9°
Pan Angle	±170°
Tilt Angle	-30°~+90°
Pan Speed	2.7°~35.7°/s

Tilt Speed	2.7°~31.5°/s
Image Flip	Support
Image Freeze	Support
Preset Position	255
Preset Accuracy	0.1°
Network Features	
Video Compression	H.264/MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second Stream Resolution	1280x720, 1024x576, 720x576 (50Hz), 720x480 (60Hz), 720x408, 640x360, 480x272, 320x240, 320x180
Video Bit Rate for First Stream	32kbps~20480kbps
Video Bit Rate for Second Stream	32kbps~6144kbps
Bit Rate Control	CBR, VBR
Frame Rate	50Hz: 1fps~50fps 60Hz: 1fps~60fps
Audio Type	AAC
Audio Bit Rate	96kbps, 128kbps, 256kbps
Protocols	TCP/IP, HTTP, RTSP, RTMP(S), ONVIF, DHCP, SRT (MJPEG format is not supported), Multicast, etc.
USB Features	
Operate System	Windows 7/8/10, Mac OS X, Linux, Android
Color System/ Compression	MJPEG/YUY2/H.264
Video Format	● YUY2: 1080P60 (max.) ● H.264 AVC: 1080P60 (max.) ● MJPEG: 1080P60 (max.)
USB Audio	Support
USB Protocol	UVC 1.1
UVC PTZ Control	Support

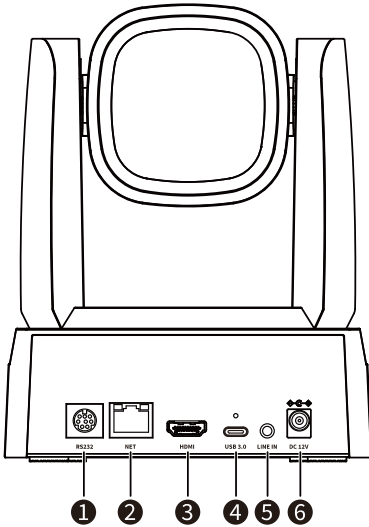| **Interface**	
Network Interface	1 x NET: 10M/100M Adaptive Ethernet Port
USB Interface	1 x USB 3.0: Type-C
Audio Interface	1 x LINE IN: 3.5mm Interface
Communication Interface	1 x RS232: 8pin Min DIN; Max. Distance: 30m; Protocol: VISCA/Pelco-D/Pelco-P
Video Interface	1 x HDMI 1.4b
Power Interface	JEITA type (DC 12V)/ USB Type-C (USB 5V)/PoE
General Specifications	
Input Voltage	DC 12V/USB 5V/PoE (802.3af)
Input Current	12V 1.0A (max.) /5V 1.5A (max.)
Operating Temperature	0℃~40℃
Storage Temperature	-40℃~60℃
Power Consumption	12W (max.)
Dimension	142.2 x 151.9 x 177.7 (mm)
Net Weight	About 1.5Kg

Note

Product features and specifications are subject to change without notice.

4.3 Interfaces and Buttons

No.	Name
1	RS232 Interface
2	NET Interface
3	HDMI Interface
4	USB 3.0 Interface
5	LINE IN Interface
6	DC 12V Interface

4.4 RS232 Interface
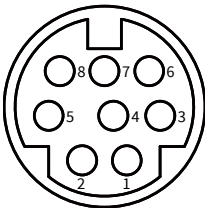
No.	Function	No.	Function
1	DTR	5	RXD
2	DSR	6	GND
3	TXD	7	IR OUT
4	GND	8	NC

The correspondence between RS232 and DB-9:

RS232	DB-9
1.DTR	1.CD
2.DSR	2.RXD
3.TXD	3.TXD
4.GND	4.DTR
5.RXD	5.GND
6.GND	6.DSR
7.IR OUT	7.RTS
8.NC	8.CTS
	9.RI

The correspondence between RS232 and Mini DIN:

RS232	Mini DIN
1.DTR	1.DTR
2.DSR	2.DSR
3.TXD	3.TXD
4.GND	4.GND
5.RXD	5.RXD
6.GND	6.GND
7.IR OUT	7.NC
8.NC	8.NC

4.5 Dimension

Unit: mm

4.6 Installation

| Install Bracket | Wall-mounted |

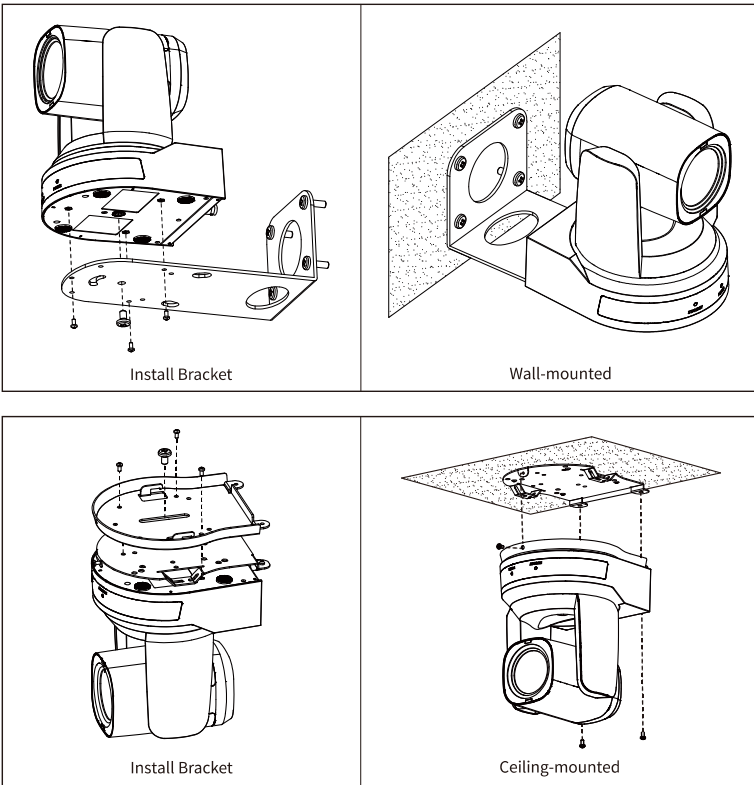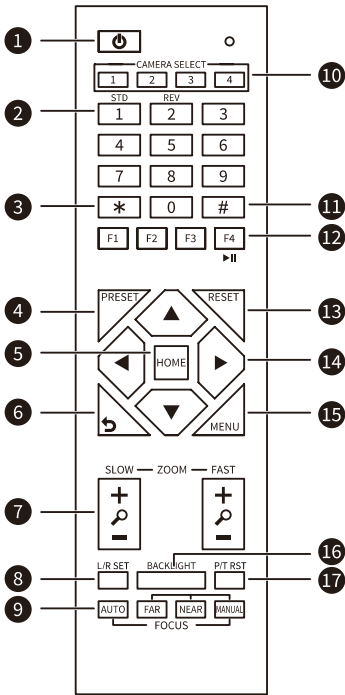| Install Bracket | Ceiling-mounted |
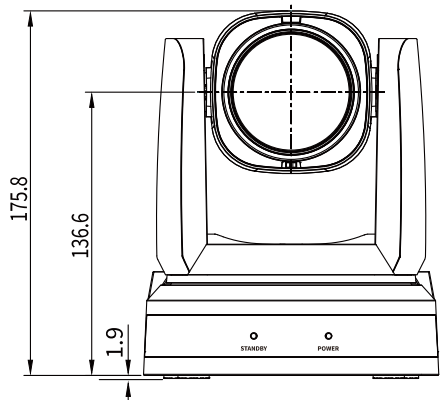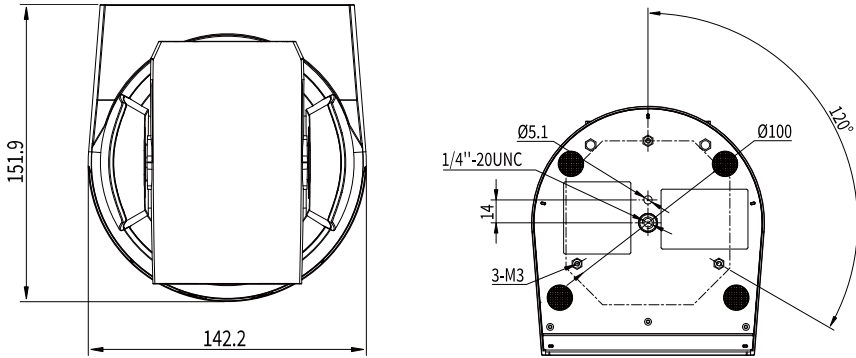
Note

The installation diagram is for reference only, please refer to the actual product for installation accessories.
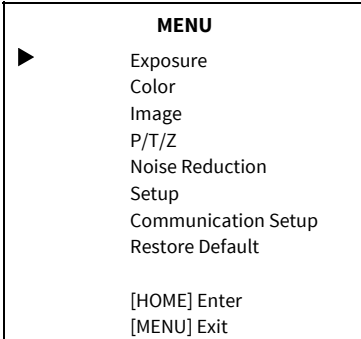
4.7 Remote Control

Key Description

1. ⏻ (Standby) Key

Press to enter standby mode

2. Number Keys

To set preset or call preset

3. * Key

Use with other keys

4. PRESET Key

Successively press [PRESET] + Number key (0-9)
to set preset position

5. HOME Key

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

6. ↩ (Return) Key

Press to return to the previous menu

7. ZOOM Keys

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

8. L/R SET Key

- Standard: Simultaneously press [L/R SET] + 1
- Reverse: Simultaneously press [L/R SET] + 2

9. FOCUS Keys

Auto/Manual/Far/Near focus

10. CAMERA SELECT Keys

Press to select and control camera

11. # Key

Use with other keys

12. IR Remote Control Keys

Successively press [*] + [#] + [F1/F2/F3/F4] to set
address 1/2/3/4

13. RESET Key

Successively press [RESET] + Number key (0-9)
to clear preset position

14. PTZ Control Keys

PTZ moved according to the arrow indicates

15. MENU Key

Enter or exit OSD menu

16. BACKLIGHT Key

Backlight On/Off
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

Press to preset Pan/Tilt self-test

Shortcut Set

Successively press [#] + [*] + [F4]:
Enable or disable the Image Freeze function
Successively press [*] + [#] + [1]:
OSD menu default English
Successively press [*] + [#] + [3]:
OSD menu default Chinese
Successively press [*] + [#] + [4]:
Display current IP address
Successively press [*] + [#] + [6]:
Quickly recover the default
Successively press [*] + [#] + [8]:
Check the camera version
Successively press [*] + [#] + [9]:
Quickly set up inversion
Successively press [*] + [#] + [MANUAL]:
Restore to default IP address
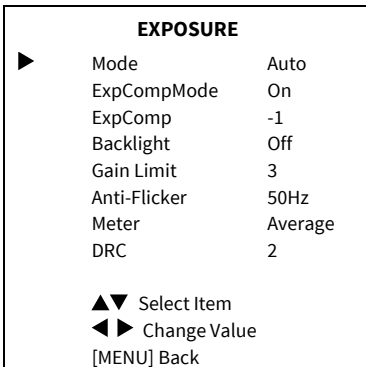
5 GUI Settings

5.1 MENU

Press [MENU] key to display the main menu on the screen. Use the arrow key to move the cursor to desired item and press the [HOME] key to confirm to enter the corresponding sub-menu.

```
                    MENU
  ▶        Exposure
           Color
           Image
           P/T/Z
           Noise Reduction
           Setup
           Communication Setup
           Restore Default

           [HOME] Enter
           [MENU] Exit
```

5.2 EXPOSURE

When in main menu page, move the cursor to [Exposure] and press [HOME] key to confirm to enter the Exposure page as below.

```
                 EXPOSURE
  ▶       Mode            Auto
          ExpCompMode     On
          ExpComp         -1
          Backlight       Off
          Gain Limit      3
          Anti-Flicker    50Hz
          Meter           Average
          DRC             2

          ▲▼  Select Item
          ◀ ▶  Change Value
          [MENU] Back
```
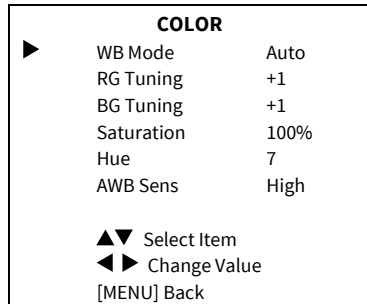
Mode: Auto, Manual, SAE, AAE, Bright.
ExpCompMode (Exposure Compensation Mode): On, Off (Effective only in Auto mode).
ExpComp (Exposure Compensation Value): -7~+7 (Effective only in ExpCompMode On).
Backlight: On, Off (Effective only in Auto mode).

Bright: 0~17 (Effective only in Bright mode).
Gain Limit: 0~15 (Effective in Auto, SAE, AAE, Bright mode).
Anti-Flicker: Off, 50Hz, 60Hz (Effective in Auto, AAE, Bright mode).
Meter: Average, Center, Smart, Top (Effective in Auto, SAE, AAE, Bright mode).
Iris: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11.0, Close (Effective in Manual, AAE mode).
Shutter: 1/30, 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 in Manual, SAE mode).
Gain: 0~7 (Effective only in Manual mode).
DRC: 0~8.

5.3 COLOR

When in main menu page, move the cursor to [Color] and press [HOME] key to confirm to enter the Color page as below.

```
                  COLOR
  ▶       WB Mode         Auto
          RG Tuning       +1
          BG Tuning       +1
          Saturation      100%
          Hue             7
          AWB Sens        High

          ▲▼  Select Item
          ◀ ▶  Change Value
          [MENU] Back
```

WB-Mode (White Balance Mode): Auto, Indoor, Outdoor, One Push, Manual, VAR.
RG Tuning (Red Gain Tuning): -10~+10 (Effective only in Auto, One Push, VAR mode).
BG Tuning (Blue Gain Tuning): -10~+10 (Effective in Auto, One Push, VAR mode).
Saturation: 60%~200%.
Hue: 0~14.
AWB Sens (The White Balance Sensitivity): Low, Middle, High (Effective in Auto, One Push mode).
RG (Red Gain): 0~255 (Effective in Manual mode).
BG (Blue Gain): 0~255 (Effective in Manual mode).
Color Temp: 2500K~8000K (Effective only in VAR mode).

5.4 IMAGE

When in main menu page, move the cursor to [Image] and press [HOME] key to confirm to enter the Image page as below.

```
                    IMAGE
   ▶    Luminance        7
        Contrast         7
        Sharpness        4
        Flip-H           Off
        Flip-V           Off
        B&W-Mode         Off
        Gamma            Ext
        Style            Default

        ▲▼  Select Item
        ◀ ▶  Change Value
        [MENU] Back
```

Luminance: 0~14.
Contrast: 0~14.
Sharpness: Auto, 0~15.
Flip-H: On, Off.
Flip-V: On, Off.
B&W-Mode: On, Off.
Gamma: Ext, Default, 0.45, 0.5, 0.56, 0.63.
Style: Default, Norm, Clarity, Bright, PC.

5.5 P/T/Z

When in main menu page, move the cursor to [P/T/Z] and press [HOME] key to confirm to enter the P/T/Z page as below.

```
                    P/T/Z
   ▶    SpeedByZoom      On
        AF-Zone          Front
        AF-Sense         High
        Display Info     On
        Image Freeze     Off
        Digital Zoom     Off
        Call Preset Speed   22
        Pre Zoom Speed   5

        ▲▼  Select Item
        ◀ ▶  Change Value
        [MENU] Back
```

SpeedByZoom (The Depth of Field Ratio): On, Off.
AF-Zone (Auto Focus Area): Front, Top, Center, Bottom.
AF-Sense (Auto Focus Sensitivity): Low, Normal, High.
Display Info: On, Off.
Image Freeze: On, Off.
Digital Zoom: Off, 2x, 4x, 8x, 16x.
Call Preset Speed: 1~24.
Pre Zoom Speed: 0~7.

5.6 NOISE REDUCTION

When in main menu page, move the cursor to [Noise Reduction] and press [HOME] key to confirm to enter the Noise Reduction page as below.

```
              NOISE REDUCTION
   ▶    NR2D-Level          Auto
        NR3D-Level          Auto

        ▲▼  Select Item
        ◀ ▶  Change Value
        [MENU] Back
```

NR2D Level (2D Noise Reduction): Auto, Off, 1~5.
NR3D Level: (3D Noise Reduction): Auto, Off, 1~8.

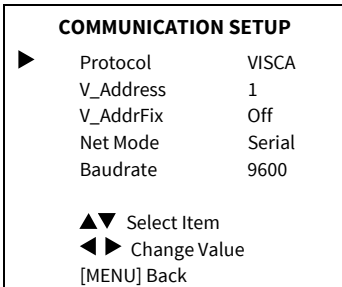## 5.7 SETUP

When in main menu page, move the cursor to [Setup] and press [HOME] key to confirm to enter the Setup page as below.

```
                    SETUP
   ▶    Language         EN
        Video Format     1080P30
        USB Mode         ISOC
        OSD Flip         Off
        USB Audio        On
        UVC H264         On

        ▲▼  Select Item
        ◀ ▶  Change Value
        [MENU] Back
```

Language: EN, Chinese, Russian.
USB Format: 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50.
USB Mode: BULK, ISOC.
OSD Flip: On, Off.
USB Audio: On, Off.
**UVC H264**: On, Off.

5.8 COMMUNICATION SETUP

When in main menu page, move the cursor to [Communication Setup] and press [HOME] key to confirm to enter the Communication Setup page as below.

```
          COMMUNICATION SETUP
    ▶     Protocol        VISCA
          V_Address       1
          V_AddrFix       Off
          Net Mode        Serial
          Baudrate        9600

          ▲▼  Select Item
          ◀ ▶  Change Value
          [MENU] Back
```

Protocol: Auto, VISCA, PELCO-D, PELCO-P.
V_Address: 1~7 (Effective in Auto, VISCA protocol).
V_AddrFix: On, Off (When set to On, the 88 30 01 FF command does not work. Effective in Auto and VISCA protocol).
P_D_Address: 0~254 (Effective in Auto, PELCO-D protocol).
P_P_Address: 0~31 (Effective in Auto, PELCO-P protocol).
Net Mode: Serial, Paral (Effective in Auto, VISCA protocol).
Baudrate: 2400, 4800, 9600, 38400.

5.9 RESTORE DEFAULT

When in main menu page, move the cursor to [Restore Default] and press [HOME] key to confirm to enter the Restore Default page as below.

```
          RESTORE DEFAULT
    ▶     Restore?           No

          ◀ ▶  Change Value
          [HOME] OK
          [MENU] Back
```
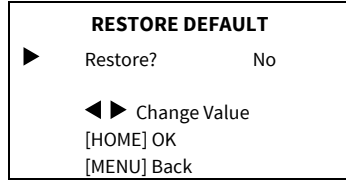
Restore: Yes, No.

⚠ **Notice**

When selected "Yes" and confirm with [HOME] key, all parameters will restore to default, include the IR Remote address and VISICA address.
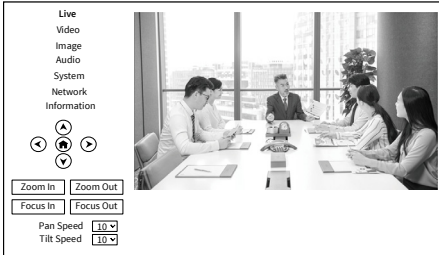
📄 **Note**

GUI menu and device information are subject to change without notice.

6 WEB Settings

6.1 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:

6.2 Control Camera

All pages include two menu bars:

Real Time Monitoring: Video image displaying with function buttons.

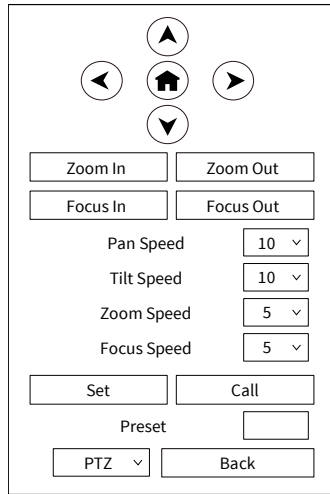Parameter Setup: Parameter configurating.

A. Video Viewing Window

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

Status bar in viewing window shown as below:
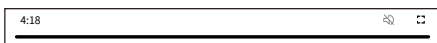
⊡: Full screen switch button

B. PTZ Setup

1) Pan and Tilt Control

The direction arrows and home button allow you to manually drive the camera to 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 button allow for fine manual focus adjustment if the camera has any auto focusing problems on difficult object.

4) PTZ Speeds

Pan speed rate can be set to 1~24, Tilt speed rate can be set to 1~20. Zoom and Focus speed rate can be set to 1~7.

5) PTZ Presets

When the PTZ turns to the position that you would like to return to later, you can set presets for quick recall.

Type a number (0~254) into the preset box and click "Set" button to save.

When the PTZ turn to other position, input the preset number and click "Call" button to turn the PTZ back to the preset position.

6) PTZ / OSD Dropdown

Move the cursor to dropdown menu, select and click "OSD" to open the on-screen menu and do menu settings on the interface.

C. Language Selection

Language	English
	中文(简)
	Русский
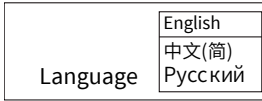
Click to select "Chinese", "English" or "Russian" to change the language of the webpage.

6.3 Video Settings

```
Video Settings
        Video Format      50Hz              ⌄
        Encode Level      mainprofile       ⌄

First Stream
        Encode Codec      H264              ⌄
        Resolution        1920x1080         ⌄
        Bit Rate          4096
        Frame Rate        25                ⌄  fps
        I Key Frame Interval  25
        Bit Rate Control  CBR               ⌄
        Slice Split Enable  Off             ⌄
        Split Mode        Fixed bytes       ⌄
        Slice Size        32                    blocks/bytes

Second Stream
        Encode Codec      H264              ⌄
        Resolution        640x360           ⌄
        Bit Rate          1024
        Frame Rate        25                ⌄  fps
        I Key Frame Interval  25
        Bit Rate Control  CBR               ⌄
        Slice Split Enable  Off             ⌄
        Split Mode        Fixed bytes       ⌄
        Slice Size        65535                 blocks/bytes

                    Submit          Cancel
```

1) Video Format

Support 50Hz (PAL) and 60Hz (NTSC) formats.

2) Encode Level

Support baseline, mainprofile and highprofile.

3) Encode Codec

Support H264 and MJPEG.

4) Resolution

First stream support 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360. Second stream support 1280x720, 1024x576, 720x576 (50Hz), 720x480 (60Hz), 720x408, 640x360, 480x272, 320x240, 320x180; The bigger the resolution, the clearer the image, and the larger the code stream, the more network bandwidth will be taken.

5) Bit Rate

You can specify the bit rate, the larger of the bit rate, the clearer of the image. 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 will be worse.

6) Frame Rate

You can specify the size of the frame rate, the greater the frame rate, the smoother the image, the smaller the frame, the more sense of beating.

7) I Key Frame Interval

Set the interval between two I frames, the bigger the interval, the slower the response when opening the image for the first time.

8) Bit Rate Control

Two modes for bit rate control:
CBR (Constant Bit Rate): Video coder will be coding according to the 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
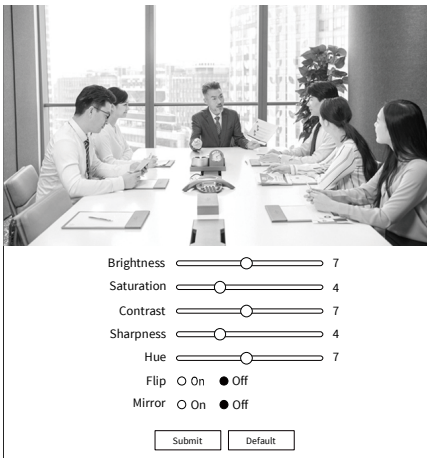
Enable or disable the Slice Split function.

10) Split Mode

Split Mode Fixed bytes.

11) Slice Size

Size for slice.

6.4 Image Settings

1) Brightness

Image Bright: 0~14 (Default is 7).

2) Saturation

Image Saturation: 0~14 (Default is 4).

3) Contrast

Image Contrast: 0~14 (Default is 7).

4) Sharpness

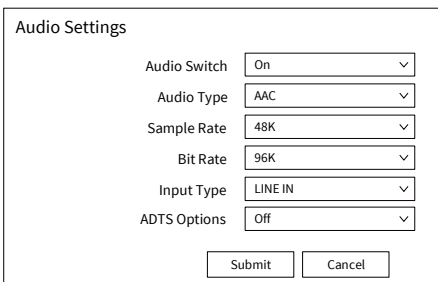Image sharpness: 0~16 (Default is 4).

5) Hue

Image Hue: 0~14 (Default is 7).

6) Flip & Mirror

Flip: Enable or disable the Flip function.
Mirror: Enable or disable the Mirror function.

6.5 Audio Settings

1) Audio Switch

Enable or disable audio switch.

2) Audio Type

Audio type AAC.

3) Sample Rate

Sample rate 48K.

4) Bit Rate

Bit rate 96K, 128K and 256K selectable.

5) Input Type

Input type Line in.

6) ADTS Options

Options: On, Off.

6.6 System Settings
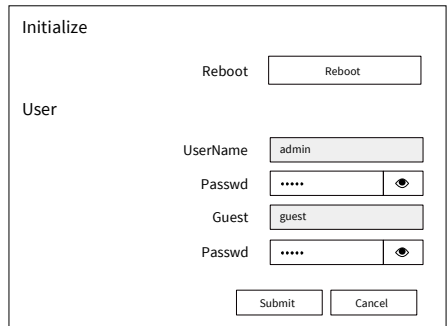
1) Reboot

Click "Reboot" to restart system.

2) Username and Password

Modify the password of username and guest
(only use letters and numbers, the max length is
32 bits).

6.7 Network Settings

Lan Settings

IP Configuration Type	Fixed IP Address ∨
IP Address	192.168.100.88
Subnet Mask	255.255.255.0
Gateway	192.168.100.1
DNS Address	8.8.8.8
MAC Address	D4:E0:8E:A9:73:45

Submit   Cancel

Port Settings

HTTP Port	80
RTSP Port	554
TCP Port	5678
UDP Port	1259
Sony Visca	52381

RTMP(S) Settings

First Stream	○ On ● Off ☐ Video ☐ Audio
MRL	rtmp://192.168.100.138/live/stream0
Second Stream	○ On ● Off ☐ Video ☐ Audio
MRL	rtmp://192.168.100.138/live/stream1

SRT Settings

SRT	○ On ● Off
SRT Port	4578
SRT Encryption	None ∨
SRT Password	1234567890

RTSP Settings

RTSP Auth	○ On ● Off

ONVIF Settings

ONVIF	○ On ● Off
ONVIF Auth	○ On ● Off

Multicast Settings

Multicast	○ On ● Off
Address	224.1.2.3
Port	6688

NTP Settings

NTP Time Sync	○ On ● Off
Time Zone	(GMT+08:00) Beijing, Cho ∨
Server Address	cn.ntp.org.cn
Time Interval (min)	1440
Main Time Show	○ On ● Off
Position	X 0 Y 0
Sub Time Show	○ On ● Off
Position	X 0 Y 0

Submit   Cancel

1) Lan Settings

The default the IP address is 192.168.100.88, the MAC address cannot be modified.

2) Port Settings

 A. HTTP Port

The IP address identifies a network device and multiple network programs can run on the device, each network program uses the network port for data transmission. The port setting on this page is to set up which port the WEB SERVER program uses to transmit. During port mapping, it needs to be consistent with the port number (default is 80).

 B. RTSP Port

Set up the RTSP port, default is 554.

 C. TCP Port

Set up the TCP port, default is 5678.

 D. UDP Port

Set up the UDP port, default is 1259.

 E. Sony Visca

Sony Visca 52381.

3) RTMP(S) Settings

Set the MRL of RTMP(S) and select "on", "off", "video" and "audio" functions to enable or disable video and audio in the two streams.

4) SRT Settings

Turn On/Off SRT and set up the SRT Port, Encryption and Password.

5) RTSP Settings

Turn On/Off the RTSP Auth.

6) ONVIF Settings

Turn On/Off the ONVIF and ONVIF Auth.

7) Multicast Settings

Turn On/Off Multicast, set up the Multicast Address (default is 224.1.2.3) and Port (default is 6688; 6688 is the multicast port of the first stream and 6690 is the multicast port of the second stream).

8) NTP Settings

Turn On/Off NTP time sync, Main time show and Sub time show; select the Time Zone; set up the Server address, Time interval and the Time Show Position of the two streams.

6.8 Device Information

Information	
Device ID	HD Camera
Device Type	G46.V
Software Version	SOC v9.0.38 - ARM v7.3.44S
Webware Version	v1.5.5
	Submit Cancel

6.9 Download the Upgrade Program

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

Note

WEB interface and device information are subject to change without notice.

7 Troubleshooting

Image

● The monitor shows no image

1) Ensure that the camera power supply is connected, the voltage is normal, and the power indicator is always on.
2) Turn off the power switch to check whether the camera is self-testing.
3) Ensure the cable of video platform and TV that is in correct connection.

● Image jitters after the camera is properly connected

1) Ensure that the camera installation position is stable.
2) Check that any vibrating machinery or object near the camera.

● There is no video image in browser

IE browser and IE core browser are not supported, the camera video image will be displayed normally when use Google, Firefox and Edge etc.

● Unable to access through the browser

1) Using PC to access the network to test that the network access can work properly to eliminate the network fault caused by cable and PC virus until the PC and camera can ping each other.
2) Disconnect the network, connect camera with PC separately and reset the IP address of PC if necessary.
3) Ensure that the IP address, subnet mask and gateway settings is correct.
4) Check that the MAC address is conflicts.
5) Check that the web port is modified, the default setting is 80.

● Forget the IP address or login password

The default IP address is: 192.168.100.88; the default username and password are: admin.

Control

● Remote control does not work

1) Check and replace with new batteries.
2) Ensure that the camera working mode is correct.
3) Ensure that the address key of remote control can match the camera.

● Serial port cannot control

1) Ensure that the protocol, address and bit rate of the camera are consistent.
2) Ensure that the control cable is properly connected.

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