CI-22H

Full HD PTZ conference Camera 20X

Quick Installation Guide │ English

Preface

This manual introduces the function installation and operation of the Camera.
Prior to installation and usage, please read the manual thoroughly.

1. Warning

(1) This product can be only used in specified range in order to avoid any damage or danger;
(2) Don't expose the camera to rain or moisture place
(3) Don't remove the cover to reduce the risk of electric shock. Refer servicing to qualified personnel.
(4) Never operate the camera under unqualified temperature , humidity and power supply;
(5) Please use the soft cloth to clean the camera. Use neuter cleanser if bad smeared .Don't use the strong or cleanser avoiding scuffing.

2. Electric Safety

Installation and operation must accord with electric safety standard.

3. Caution to transport

Avoid stress,vibration and soakage in transport,storage and installation.

4. Polarity of power supply

This product uses DC 12V power supply.

5. Careful of installation

(1) This series item must put on the smooth desk or platform,and it can not be installed slant ways.
(2) Don't apply in corrosive liquid,gas or solid environment to avoid the cover which is made up of organic material.
(3) This product has a heating device inside, please keep ventilated.
(4) Never power on before installation is completed.

6. Don't disassemble discretionarily

We are not responsible for any unauthorized modification or dismantling.
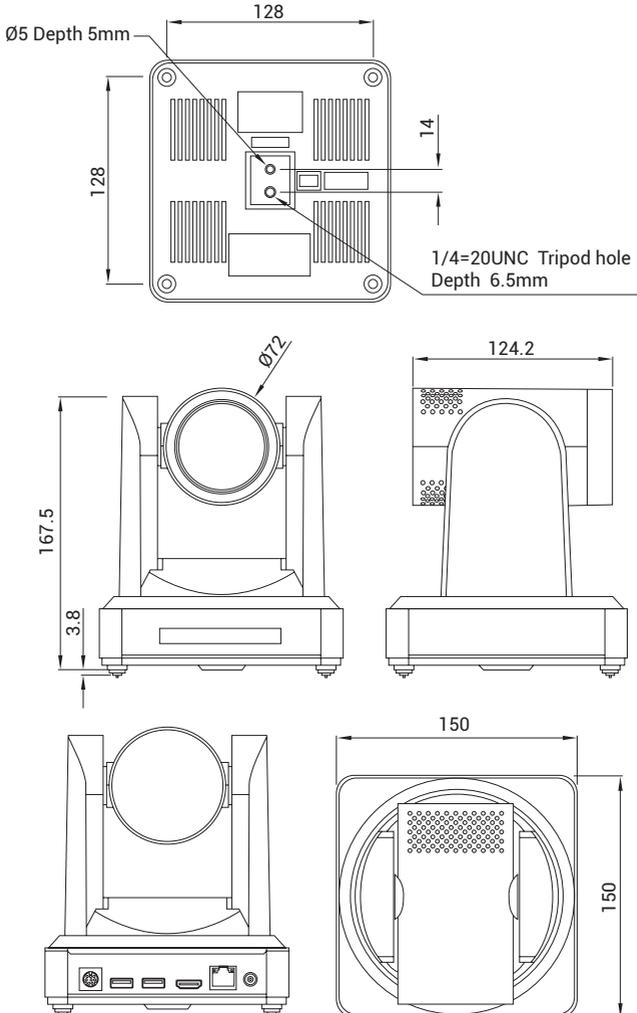
7. Attention

Electromagnetic filed under certain rate may affect camera image!

Product Overview

AREC CI-22H PTZ Conference Camera embedded with 20X optical zoom lens, and also supports HDMI, USB 3.0, and IP video output. Coming with superior ISP video processing algorithm, CI-22H provides 1080p60, Full HDh high resolution and high quality video image.

1. Dimension

2. Accessory

No.	CI-22H
1	Power Adaptor
2	RS-232 Cable
3	USB2.0 Cable
4	USB3.0 Cable
5	Remote Controller
6	Quick Installation Guide

3. Camera performance

The camera offers perfect functions, superior performance and versatile interfaces. The features include advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution and fantastic color rendition. It supports H.264/H.265 encoding which makes motion video fluent and clear even with less than ideal bandwidth conditions. By adopting high accuracy step driving motor mechanism, it works extremely quiet and moves smoothly and very quickly to designated position. Product works stable and reliable, and it is easy to use, installation and maintenance.

4. Technical specification

Camera Parameter	
Optical Zoom	20X, f = 5.2 ～ 98mm
Sensor	1/2.8 inch high quality full HD CMOS sensor
Effective Pixels	16:9 2.07 megapixel
Video Format	**HDMI video format** 1080P60/50/30/25/59.94/29.97;1080I60/50/59.94; 720P60/50/30/25/59.94/29.97 **U3 video format** (1) U3: 1920X1080P60/50/30/25;1280X720P60/50/30/25;960X540P30; 640X360P30;640X480P30;352X288P30;960X540P30; (2) U3 compatible with U2: 960X540P30; 640X360P30; 1280X720P10/15; 720X576P50; 720X480P60; 640X480P30; 352X288P30. **U2 video format** 176x144/320x240/320x180/352x288/640x480/720x576/640x360/ 800x600/960x540/1024x576/1024x768/1600x896/1920x1080/1280x720; P30/25/20/15/10/5
View Angle	3.2°(tele)--55.8°(wide)
Iris	F1.5--F3.0
Digital Zoom	10X
Minimum Illumination	0.5Lux (F1.8,AGC ON)
DNR	2D & 3D DNR
White Balance	Auto /Manual / One Push / 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K / 7000K
Exposure	Auto / Manual / Shutter Automatic Exposure / Aperture Automatic Exposure / Brightness priority
Focus	Auto / Manual / One Push
Aperture	Auto / Manual
Electronic Shutter	Auto / Manual
BLC	ON / OFF
WDR	OFF / Dynamic level adjustment
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve
SNR	>55dB
Input/ Output Interface	
Video Interfaces	RS232(INPUT), LAN, HDMI, USB3.0, USB2.0

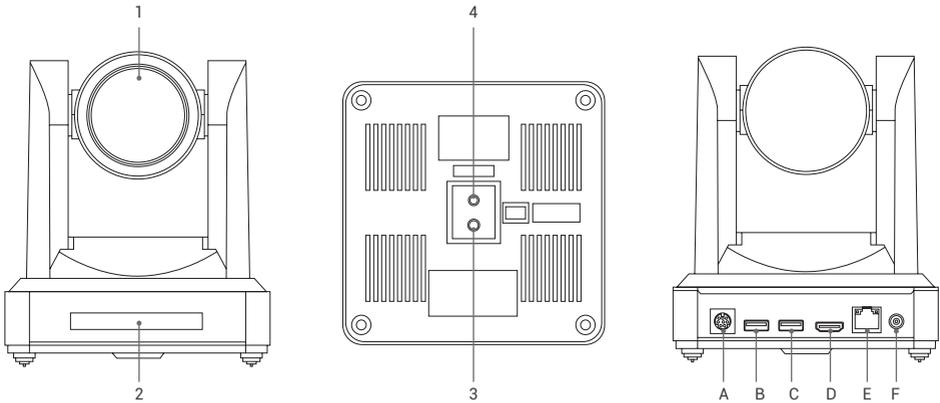|	
Image Code Stream	Dual stream output
Image Output Multiple Code Source	Dual Code Source output (HDMI/USB3.0, LAN)
Video Compression Format	H.264, H.265
Audio Output	HDMI/LAN output together with video
Audio Compression Format	AAC, MP3, G.711A
HD IP Interface	100M IP port (100BASE-TX)
Network Protocol	RTSP/RTMP, ONVIF, GBT28181; Support IP Visca control protocol; Distance update, Distance restart, Distance reset
Control Interface	RS232
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate: 115200/9600/4800/2400 bps
Power Interface	HEC3800 outlet (DC12V)
Supply Adapter	AC110V-AC220V to DC12V/2A
Input Voltage	DC12V±10%
Input Current	2A (Max)
Power Consumption	24W (Max)
PTZ Parameter	
Pan Rotation	±170°
Tilt Rotation	-30°~+90°
Pan Control Speed	0.1-60°/sec
Tilt Control Speed	0.1-30°/sec
Preset Speed	Pan: 60°/sec, Tilt: 30°/sec
Preset Number	Preset Number 255 presets (10 presets by remote controller)
Other Parameter	
Store Temperature	-10°C ~ +60°C
Store Humidity	20% - 95%
Working Temperature	-10°C ~ +50°C
Working Humidity	20% - 80%
Dimension (L x W x H)	150 x 150 x 167.5 mm
Weight	1.4 kg
Using Environment	Indoor

Quick Installation Instructions

1. Camera interface and indicators description

No.	CI-22H
1	Camera Lens
2	Remote Controller Receiver
3	Bottom Dial Switch
4	Tripod Screw Hole (¼ UNC 20, Depth 6.5mm)
A	RS232 Control Interface (Input)
B	USB2.0 interface
C	USB3.0 interface
D	HDMI interface
E	LAN interface
F	DC12V Input Power Supply Socket

No.	LED Color	Glow Rule	Operation
2	Red/ Green dual-color light	Red light blinking	Power Adaptor plug to Socket
		Green light turns on	Power on
		Green light blinking	Receive remote control signal

1.1 Power on initial configuration

(1) Power on: Connect DC12V power supply adapter with power supply socket.

(2) Initial configuration: Power on with power indicator light on and remote control receiver light blinking, camera head moves from bottom left to the bottom, and then goes to the HOME position (intermediate position of both horizontal and vertical), while the camera module stretches. When remote control receiver light stops blinking, the self-checking is finished.
NOTE:
 1. The default address of the remote controller is the 1# address.
 2. If you set preset 0, when Power on self-test is completed, the camera automatically moves to the preset 0 position.

1.2 Video output

(1) Video Output from LAN

    a. Network Cable Connection Port: Connect this product and your computer through network cable, the device LAN interface refer to item E in Figure 1.1.

    b. Webpage Login: Open your browser and enter 192.168.11.202 in the address bar (factory default); press Enter to enter into the login page; click on the "player is not installed, please download and install!" and follow the installation steps for installation. Then enter the user name admin and password admin (factory default); press Enter to enter into the preview page, users can carry out PTZ control, video recording, playback, configuration and other operations.
(NOTE: If you forget your user name, password, IP address, you can manually restore the default by the remote controller key combination * #)

(2) HDMI Video Output

    a. HDMI Video Cable Connection: CI-22H refer to item D in Figure 1.1

    b. Connect the camera and the monitor via HDMI video cable; video output is available after camera self-test.

(3) USB3.0 video output

    a. USB3.0 video cable connection: CI-22H refer to item C in Figure 1.1

    b. Connect the camera and the monitor via USB3.0 video cable, open video player software, select video device, and then video output will be available.
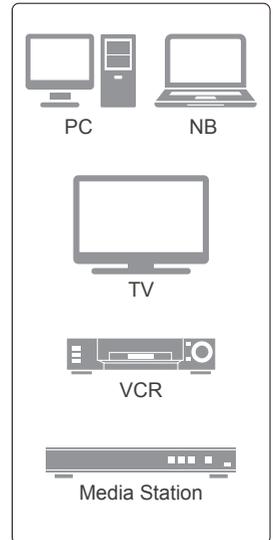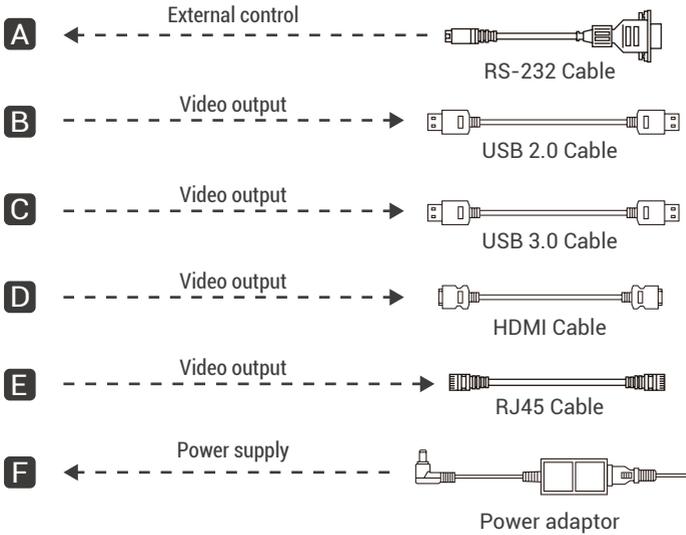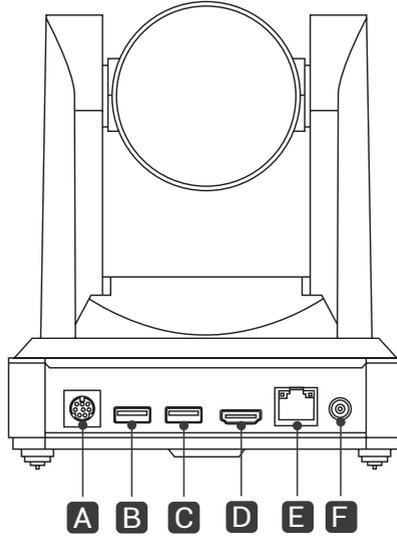
(4) USB3.0 compatible USB2.0 video output

    a. USB3.0 video cable connection: CI-22H refer to item C in Figure 1.1

    b. Connect the camera and the monitor via USB3.0 video cable, open video player software, select video device, and then video output will be available.

(5) USB2.0 video output

    a. USB2.0 video cable connection: CI-22H refer to item B in Figure 1.1

    b. Connect the camera and the monitor via USB2.0 video cable, open video player software, select video device, and then video output will be available.

Connection

A	External control	RS-232 Cable
B	Video output	USB 2.0 Cable
C	Video output	USB 3.0 Cable
D	Video output	HDMI Cable
E	Video output	RJ45 Cable
F	Power supply	Power adaptor

PC
NB
TV
VCR
Media Station