EP510A series HD Video Camera

Full HD, Wide View Angle, Multiple Video Interfaces, Multi-protocols, Multi-lens

The EP510A series camera offers perfect functions, superior performance and rich 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 more fluent and clear under low bandwidth conditions.

Key Features

- **Superb High-definition Image**
  EP510A adopts **1/2.8 inch,** 2.07 megapixel high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60fps.
- **Multiple Optical Zoom Lens**
  5X,10X,12X,20X and other optical zoom lens for options. The lens adopts 83.7° wide angle without distortion.
- **Leading Auto Focus Technology**
  Leading auto focus algorithm makes lens auto focus more quickly, accurately and stably.
- **Low Noise and High SNR**
  Low Noise CMOS effectively ensure high SNR of camera video. The adoption of advanced 2D/3D noise reduction technology not only further reduces the noise, but also ensuring image sharpness.
- **Multiple Audio Output Interfaces**
  Support HDMI, SDI, USB, Wired LAN, Wireless LAN (optional 5G WiFi module). SDI supports to transmit 100 meters under the 1080P60 format.
- **Multiple Audio/Video Compression Standard**
  Support H.264/H.265 video compression, AAC, MP3 and G.711A audio compression and 1920x1080 resolution with frame rate up to 60fps compression.
- **Audio Input Interface**
  Support 8000,16000,32000,44100,48000 sampling frequency and AAC,MP3,PCM audio coding.
- **Multiple Network Protocols**
  Support ONVIF, GB/T28181, RTSP、RTMP protocols , RTMP push mode, which is easy to link streaming media server (Wowza,FMS), RTP multicast mode and network full command VISCA control protocol.
- **Control Interface**
  RS485,RS232. RS-232 supports cascade function, which is convenient for installation.
- **Multiple Control Protocol**
  Support VISCA、PELCO-D、PELCO-P protocols and Automatic identification protocol.
- **Extremely Quiet PTZ**
  Adopting step driving motor mechanism and motor drive controller with high precision is to ensure PTZ works smoothly with low speed and without noise.
- **Low-Power Sleep Function**
  Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.
- **Multiple Preset**
  Support 255 preset positions (the remote controller is set to 10 preset positions).
- **Multiple Remote Controller**
  Users can choose infrared remote controller or wireless remote controller according to the environmental conditions. 2.4G wireless remote controller is not affected by the angle, distance, infrared interference.
- **Wide Application**
  Tele-education,Lecture Capture,Webcasting, Videoconferencing,Tele-training,Tele-medicine, Interrogation and Emergency command systems.

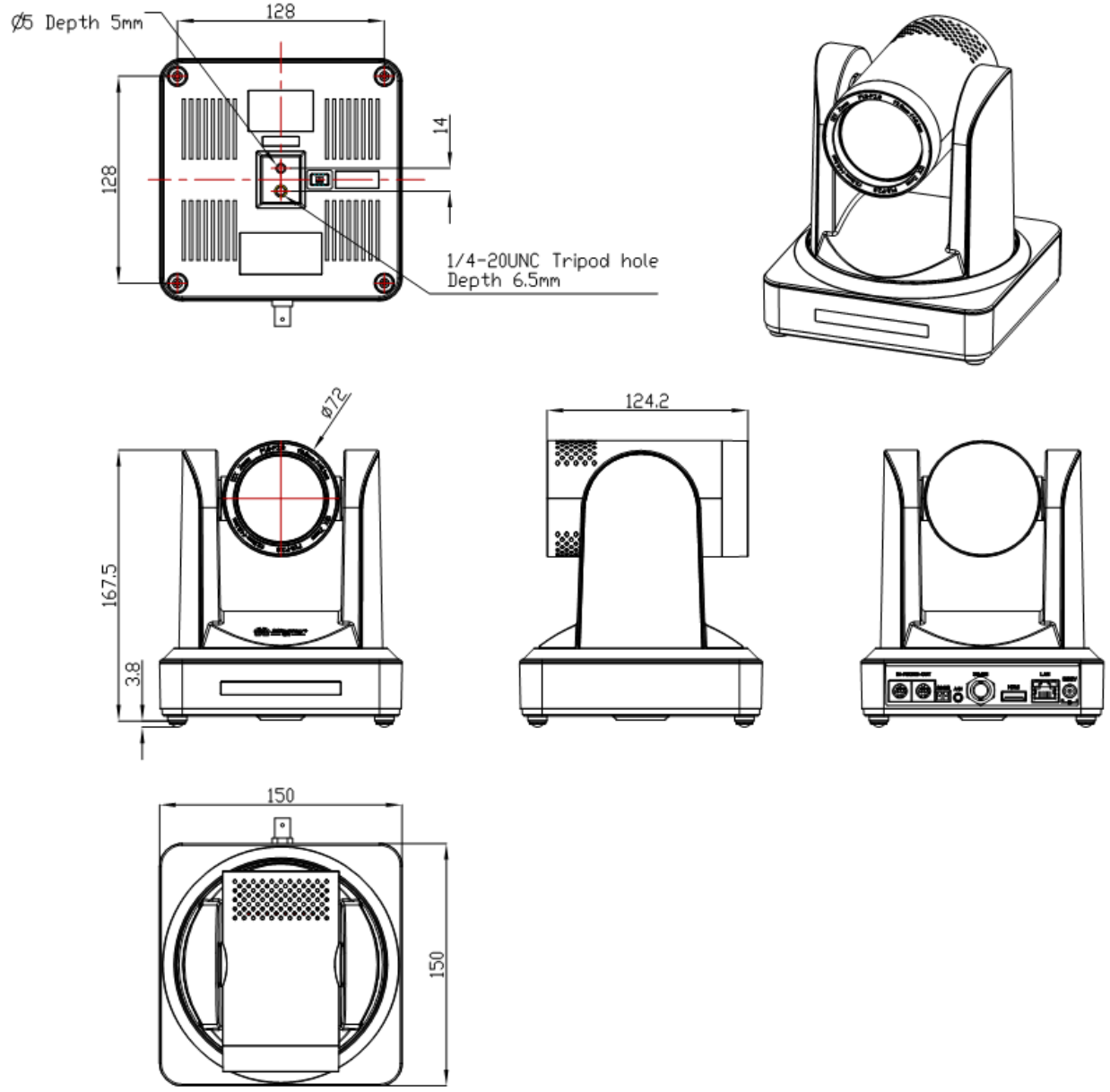
Technical Specification

Model	EP510A-05	EP510A-10	EP510A-12	EP510A-20
Camera，Len Parameter				
Sensor	1/2.8 inch high quality HD CMOS sensor			
Effective Pixels	16: 9, 2.07 megapixel			
Video Format	**DVI(HDMI)/SDI video format** 1080P60/50/30/25/59.94/29.97；1080I60/50/59.94；720P60/50/30/25/59.94/29.97 **U3 interface video format** 1) U3: 1920X1080P60/50/30/25 ； 1280X720P60/50/30/25 ； 960X540P30 ； 640X360P30； 640X480P30 ； 352X288P30 ； 960X540P30 ； 800X600P30 ； 2) U3 compatible with U2: 960X540P30；640X360P30；1280X720P10/15；720X576P50； 720X480P60； 640X480P30 ； 352X288P30 ； 800X600P30 ； **U2 interface video format:** 176x144/320x240/320x180/352x288/640x480/720x480/720x576/ 640x360/800X600/960X540/1024X576/1024X768/1280X720/1920X1080P30/25/20/15/10/5			
Optical Zoom	5X f＝3.1～15.5mm	10X f＝4.7～47mm	12X f＝3.9～46.8mm	20X f＝5.5～110mm
View Angle	20°(tele)-- 83.7°(wide)	6.43°(tele)--60.9°(wide)	6.3°(tele)--72.5°(wide)	3.3°(tele)--54.7°(wide)
AV	F1.8 – F2.8	F1.6 – F3.0	F1.8 – F2.4	F1.6 – F3.5
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			
Focus	Auto/Manual/A key focus			
Aperture/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	EP510A-05/10/12/20-ST Model:HDMI,SDI,LAN, RS232（Ring through RS232 output）、RS485、A-IN EP510A-05/10/12/20-U2 Model:USB2.0,LAN,RS232（Ring through RS232 output）A-IN EP510A-05/10/12/20-U3 Model:USB3.0,LAN,RS232（Ring through RS232 output、A-IN
Video Output Interfaces	HDMI、SDI、LAN、USB3.0、USB2.0
Image Stream	Double stream output
Video Compression Format	H.264, H.265
Control Protocol	VISCA/Pelco-D/Pelco-P;Baud Rate:115200/9600/4800/2400bps
Audio Input Interface	A-IN：Double track 3.5mm linear input
Audio Compression Format	AAC/MP3/G.711A
Network Interface	100M IP port(100BASE-TX) 5G WiFi (optional) .
Network Protocol	RTSP,RTMP,ONVIF,GB/T28181,Network VISCA Control Protocol, Support remote upgrade, reboot and reset.
Control Interface	RS232（Ring through RS232 output）, RS485
Power Interface	HEC3800 outlet (DC12V)
Power Adapter	Input: AC110V-AC220V. Output: DC12V/1.5A
Input voltage	DC12V±10%
Input current	1A (Maximum)
Power Consumption	12W(Maximum)
PTZ Parameter	
Pan/TiltRotation	±170°,-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	255 presets (10 presets by remote controller)
Other Parameter	
Storage Temperature	-10℃～+60℃
Storage Humidity	20%～95%
Working Temperature	-10℃～+50℃
Working Humidity	20%～80%
Dimension	150mmX150mmX167.5mm
Weight (around)	1.4KG
Using environment	Indoor

Accessory	
Random Accessory	12V/1.5A power supply, RS232 control line, USB3.0 connection line (U3 model), USB2.0 connection line (U2 model), remote controller, Manual, warranty card
Optional Accessories	Mounting bracket

Dimension Pictures: (unit:mm)



Enrico Pietrosanti
Tel. 06 916505771 cell. 340 6938456
Via Remo La Valle, 105 – 00054 Fiumicino- Roma (RM)
info@enricopietrosanti.com Fax 06 233233289