

# 4K Ultra HD PTZ Camera UV417F0

The Information Communication HD Camera Series features comprehensive functions, excellent performance, and rich interfaces. Advanced ISP processing technology and algorithms ensure vivid and lifelike images, uniform brightness, strong color hierarchy, high clarity, and excellent color reproduction. It supports H.265/H.264/MJPEG encoding, making the picture smoother and clearer even under low bandwidth conditions.



## Product Feature:

- **4K UHD Resolution:** 8.29 million pixel high-quality SONY CMOS image sensor, the maximum resolution can reach 4K (3840×2160) at 30 frames per second. True-to-life Ultra HD video that vividly shows the expressions and movements of characters, delivering image quality with superb clarity and resolution.
- **Optical Zoom Lens:** 10X optical zoom 67.5°wide-angle lens.
- **Leading Auto Focus Technology:** Fast, accurate and stable auto focusing technology.
- **Low Noise and High SNR:** Super high SNR image is achieved with low noise CMOS. Advanced 2D/3D noise reduction technology further reduces the noise while ensuring high image clarity.
- **Multiple Video Output Methods:** Support HDMI、USB3.0、wired LAN Port; POE Optional, The standard product is not compatible, USB3.0 support dual streams.
- **Built in Gravity Sensor:** Built in gravity sensor, support gimbal automatic flip function ,convenient for engineering installation.
- **Multiple Network Protocol:** Support ONVIF、GB/T28181、RTSP、RTMP、VISCA OVER IP、IP VISCA、RTMPS、SRT protocols; Support RTMP push mode, easy to be connected to streaming server (Wowza, FMS); Support RTP multicast mode
- **Control Jack:** RS232-IN
- **Multi-functional USB2.0 interface:** According to user requirements, it can be configured as a U-disk storage mode, or it can be used to connect a USB omnidirectional microphone or a USB Bluetooth Dongle omnidirectional microphone.
- **Multiple Control Protocol :** Support VISCA、PELCO-D、PELCO-P protocols , Support automatic identification protocols.

- **Super Silent PTZ:** Utilizing high-precision stepper motors and a precision motor drive controller to ensure smooth operation at low speeds and minimal noise.
- **Low Power Sleep Mode:** Support low power sleep/awake mode, and the power consumption is less than 400mW.
- **Multiple Presets:** Up to 255 presets (10 presets via remote control).
- **Remote Control:** Infrared remote control.
- **AI Human Tracking:** Equipped with a high-speed processor and utilizing exclusive advanced image processing and analysis algorithms, users can choose between real-time tracking and area tracking according to the usage environment.
- **Versatile Applications:** Suitable for remote education, teaching recordings, conference systems, remote training, telemedicine, courtroom systems, emergency command systems, etc..

## Technical Specification:

Parameter	10X
<b>Device, Lens Parameter</b>	
<b>Image Sensor</b>	1/2.8 inch high quality CMOS sensor
<b>Effective Pixel</b>	829M、16: 9
<b>Video Signal</b>	<p><b>HDMI:</b> 4KP30、4KP25、1080P60、1080P50、1080P30、1080P25、720P60、720P50、1080P59.94、1080P29.97、720P59.94</p> <p><b>LAN:</b> Main Stream : 1920×1080/1280×720/640×480@30/25/20/15/10/5 fps; Sub Stream : 1280×720/640×360/640×480/320×240/320×180@30/25/20/15/10/5fps;</p> <p><b>The USB 3.0 output supports video formats including:</b> Main Stream : YUY2/NV12: 1920×1080/1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/320×180@30/25/20/15/10/5fps; MJPG/H264: 3840×2160/2560×1440/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps; Sub Stream : YUY2/NV12 : 1920 × 1080/1280 × 720/1024 × 576/800 × 600/800 × 448/640360/640 × 480/480 × 270/320×180@25/20/15/10/5fps; MJPG/H264: 3840×2160/2560×1440/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps;</p>

<b>Optical Zoom</b>	10X
<b>Viewing Angle</b>	H: 7.6° (N) ~67.5° (W)
<b>Iris Value</b>	F1.76 ~ F3.0±5%
<b>Digital Zoom</b>	16X
<b>Minimum Illumination</b>	0.5Lux(F1.8, AGC ON)
<b>DNR</b>	2D & 3D
<b>White Balance</b>	Auto/Manual/One-push/Specified color temperature
<b>Focus Mode</b>	Auto/Manual/One-push
<b>Exposure Mode</b>	Auto, manual, shutter priority, iris priority, brightness priority
<b>Aperture</b>	F1.8 ~ F11、CLOSE
<b>Shutter Speed</b>	1/25 ~ 1/20000
<b>BLC</b>	On/Off
<b>Dynamic Range</b>	Off、1 ~ 8
<b>Video Adjustment</b>	Brightness、Contrast、Saturation、W&B Mode、Horizontal flip、vertical flip、Digital Zoom、Minimum Illumination
<b>SNR</b>	>50dB

<b>Interface function performance</b>	
<b>Interface</b>	HDMI、LAN(Support POE- Optional)、USB3.0、USB2.0 IN RS232-IN、DC12V Power Supply
<b>Video output interface</b>	HDMI、LAN、USB3.0
<b>Video Compression Formats</b>	LAN: H.264、H.265 USB 3.0: MJPG、H264、YUY2、NV12
<b>Network Jack</b>	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
<b>Network Protocols</b>	RTSP、RTMP、ONVIF、GB/T28181、VISCA OVER IP、IP VISCA、RTMPS、SRT, support remote upgrade, remote restart, remote reset.
<b>Control Jack</b>	RS232-IN
<b>Serial Port Communication Protocols</b>	VISCA/Pelco-D/Pelco-P; Support Baud Rate 115200/38400/9600/4800/2400
<b>USB</b>	UVC (Video Communication Protocols) , UAC (Audio Communication Protocols)
<b>Power Supply</b>	HEC3800 Power Socket (DC12V)

<b>Power Adapter</b>	Input:AC110V~AC220V ; Output:DC12V/2A
<b>Input Voltage</b>	DC12V±10%
<b>Input current</b>	<1A
<b>Power Consumption</b>	<12W

<b>PTZ Parameter</b>	
<b>Pan Move</b>	-125° ~ +125°
<b>Tilt Move</b>	-30° ~ +30°
<b>Pan Speed</b>	0.1°/s ~ 65°/s
<b>Tilt Speed</b>	0.1°/s ~ 35°/s
<b>Preset Speed</b>	Pan: 65°/s, Tilt: 35°/s
<b>Preset Quantity</b>	Up to 255 preset (10 via remote control)

<b>Other Parameter</b>	
<b>Storage Temperature</b>	-10°C ~ +70°C
<b>Storage Humidity</b>	20% ~ 95%
<b>Working Temperature</b>	-10°C ~ +50°C
<b>Working Humidity</b>	20% ~ 80%
<b>Dimension</b>	151.64mmX154.5mmX131.25mm
<b>Weight</b>	1.0kg
<b>Environment</b>	Indoors

<b>Accessory</b>	
<b>Supplied Accessory</b>	Power Supply, RS232 Control Cable, USB3.0 Cable, IR Remote Control, User Manual, Warranty Card

<b>Optional Accessory</b>	Ceiling / Wall Mount (Extra Cost)
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<b>AI Function</b>	
<b>Real-time tracking</b>	The longest tracking distance can reach 6 to 7 meters, which can support the speaker to walk at a speed of 3 to 4 mph
<b>Zone tracking</b>	Support setting 4 tracking areas, support horizontal $-125^{\circ} \sim +125^{\circ}$ , vertical $-30^{\circ} \sim +30^{\circ}$

**Dimension:**

