

HDMI + SDI + IP + USB3.0 4 outputs
simultaneously



Main Features

- **1080P Full HD**

Equipped with 1/2.8", 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920 x 1080 high resolution and achieve quality image.

- **New Generation of ISP Image Processing Algorithm**

The new generation of ISP image processing algorithm provides more complete white balance and automatic exposure functions, which significantly improves the image output performance of the camera, and the imaging effect is also better. Widely used in education recording and broadcasting, distance education, video conferencing, live broadcasting, broadcasting and other industries.

- **Upgraded AI Technology**

Using upgraded AI technology, through face recognition, it can accurately determine the location of people, realize automatic tracking and automatic frame selection.

- **1080P60 NDI®|HB (Optional)**

It supports 1080P60 NDI®|HB technology, which brings us ultra-low latency high-quality audio and video signal transmission, which can achieve unparalleled ultra-high-resolution image quality and lossless effects that are closer to vision.

- **AAC Audio Encoding**

Support AAC audio encoding, better sound quality and smaller bandwidth.

- **Leading Auto Focus Technology**

Using advanced focusing algorithm, the lens can focus quickly, accurately and stably.

- **60° Wide-angle Lens + 20x Optical Zoom**

Use 60° wide-angle high quality lens, support 20x optical zoom.

- **Exclusive Audio Processing Algorithm**

The exclusive audio processing algorithm can eliminate reverberation, effectively reduce environmental noise, and support EQ adjustment to optimize sound effects; the device supports dual mic pickup, and can also be connected to external microphones, wireless bees, etc., to meet the pickup needs of most scenarios.

- **Low Illumination**

The application of 2D and 3D noise reduction algorithm greatly reduces image noise. Even under the condition of ultra-low illumination, it still keep the picture clean and clear, and the SNR of image is as high as 55dB.

- **Multiple Interfaces**

Support HDMI output, 3G-SDI interface, effective transmission distance up to 150 meters (1080p30). HDMI, SDI, Network, USB can output at the same time.

- **Remote Control**

Through the RS232, RS485 serial ports and USB, the camera can be controlled remotely.

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- **60.7° Wide-angle Lens + 30x Optical Zoom**

60.7° high-quality ultra-wide-angle lens, optical zoom up to 30x, support 8x digital zoom.

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Camera	EX420	EX430
Image		
Sensor	1/2.8-inch, CMOS	
Effective Pixel	2.07M	
Scanning Mode	Progressive	
Lens	20x, f = 4.42mm ~ 88.5mm, F1.8 ~ F2.8	30x, f=4.42mm ~ 132.6mm, F1.8 ~ F2.8
Digital Zoom	16x	
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)	
Shutter	1/30s ~ 1/10000s	
White Balance	Auto, VAR, Manual, One Push, Indoor, Outdoor	
Backlight Compensation	Support	
Digital Noise Reduction	2D&3D Digital Noise Reduction	
SNR	≥55dB	
Horizontal FOV	60.7° ~ 3.36°	60.7° ~ 2.28°
Vertical FOV	34.1° ~ 1.89°	34.1° ~ 1.28°
Pan Angle	±170°	
Tilt Angle	-30° ~ +90°	
Pan Speed	1.7° ~ 100°/s	
Tilt Speed	1.7° ~ 69.9°/s	
Image Flip	Support	
Image Freeze	Support	
Preset Position	255	
Preset Accuracy	0.1°	
USB Features		
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android	
Color System / Compression	MJPEG/YUY2/H.264	
Video Format	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50	
USB Audio	Support	
USB Video Protocol	UVC 1.1/UVC 1.5	
UVC PTZ Control	Support	

Interfaces	
USB Interface	1 x USB 3.0: Type A
LINE IN Interface	1 x LINE IN: 3.5mm Audio Interface
LINE OUT Interface	1 x LINE OUT: 3.5mm Audio Interface
Communication Interface	1 x RS232: 8pin Min DIN; Max. Distance: 30m
Protocol:	VISCA/Pelco-D/Pelco-P
	1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1 x RS485: 2pin phoenix port, Max Distance:1200m,
Network Interface	1 x LAN: 10M/100M Adaptive Ethernet Port
HDMI Interface	1 x HDMI: Version 1.3
3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 75Ω. Along to SMPTE 424M standard
Power Jack	JEITA type (DC IN 12V)
General Specifications	
Input Voltage	DC 12V
Input Current	Max. 1.2A
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	Max. 15W
Dimension	146mm x 169mm x 168mm
Net Weight	About 1.5Kg
Network Features	
Video Compression	H.264/H.265
Video Stream	First Stream, Second Stream
MainStream	1920x1080,1280x720,1024x576,960x540,640x480,640x360
Sub Stream	1280x720,1024x576,720x480,720x408,640x360,320x240, 320x180
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Control	CBR, VBR
Frame Rate	1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	NDI, TCP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF, DHCP, SRT, Multicast
Audio Features	
Microphone Array	Built-in dual microphones, 100Hz to 16KHz frequency response
Audio Input	Support LINE IN audio input
Audio Output	Support LINE OUT, HDMI, USB and other audio output