promark®
MARK OF PROFICIENCY

4k Ultra HD
Auto Frame Camera

4k/Auto Frame/ HDMI + IP + USB /12x

Model: PRO-VCC-10XP

Auto Frame	**4k 60 fps**	**12x Optical Zoom**	**Full- Featured USB**	**Support HDMI 1.4 b**	**3 Ways of Power Supply**
Low illumination	**Support POE**	**Remote Control**	**Dual Stream**		

Features

⊘ Auto Frame
The Camera will auto zooming by the participants movements

⊘ Full-Featured USB
Compatible with USB3.0 & USB 2.0 supports audio, encoding output, UVC 1.1~1.5 protocols

⊘ 4K Ultra HD
Sony 1/2.5" UHD CMOS sensor 8.51 m pixels, resolution 4K (3840x2160)

⊘ HDMI 1.4b (optional)
Support HDMI 1.4, can directly output uncompressed 4k original video

⊘ 71° wide-angle lens + 12x optical zoom
Real 8 million ultra-high resolution 4K lens, 12x optical zoom, horizontal FOV 71°

⊘ Low illimination
Image noise reduce CMOS sensor in low illumunation conditions, 2D and 3D Noise reduction algorithms, Image signal- to-noise ratio is above 55bB

supply power, video & audio transmission through a network cable

⊘ Remote Control
Multi way to control, using RS232(RS485 optional) serial ports, internet and USB to control the camera

⊘ H.264 Slice/H.264 SVC encoding Suppo
Output H.264 stream supports slice and SVC encodin modes, suitable for USB video conference

Support two-channel code stream output(any two of YUV2, MJPEG, H.264) to reduce the pressure of

⊘ Rich and complete interface
can be output at the same time.

Support USB 5V power supply, 12v adapter and POE power supply

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Product Specification

CAMERA		
Video Resolution	HDMI(Optional):4K60fps, 4KP29.97fps, 4KP25, 1080P30, 1080P29.29, 1080P25	
Sensor	1/2.5", CMOS, Effective Pixel: 8.5M	
Scanning Mode	Progressive Scan	
Lens	12x, f4.4mm ~ 52.8mm, F1.8 ~ F2.6	
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)	
Shutter	1/30s ~ 1/10000s	
White Balance	Automatic, indoor, outdoor, one-button, manual, specified color temperature	
Backlight Compensation	Support	
Digital Noise Reduction	2D & 3D Digital Noise Reduction	
Signal-to-noise ratio	≥55dB	
Vertical Angle of View	71˚ ~ 8.2˚	
Horizontal Rotation Range	42.7˚ ~ 4.5˚	
Vertical Rotation Range	±170°	
Pan Speed Range	-30˚ ~ +90˚	
Tilt Speed Range	1.7˚ ~ 100˚/s	
H & V Flip	1.7˚ ~ 69.9˚/s	
Image Freeze	Support	
PoE power Supply	Support	
Humanoid Tracking	Support (optional)	
Number of Preset	255	
Preset Accuracy	0.1˚	

USB Features		
Support Operating System	Window 7, Window 8, Window 10, Mac OS X, Linux, Android	
Color space/compression	YUY2/MJPEG/H.264/H.265	
Video Format	YUY2:up to 1080p/30; H.264 AVC: up to 2160p/60; H.264 SVC: up to 2160p/60; MJPEG: up to 2160p/30; H.265: up to 2160/60;	
USB Audio	Support	
USB Video Communication Protocol	UVC 1.1 ~ 1.5	
UVC PTZ Control	Support	

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Product Specification

Network Characteristics		
	Video Coding Standard	H.264/H.265/MJPEG
	Video Stream	The first stream, the second stream
	Resolution of the second stream	3840x2160, 1920x1080, 720x576, 720x480, 320x240
	Video bitrate	32 kbps ~ 102400 kbps
	Rate Control	Variable bit rate, fixed bit rate
	Frequency	50 Hz: 1fps ~ 50fps,60 Hz: 1 fps ~ 60fps
	Audio compression Standard	AAC, G711A
	Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
	Supporting Agreement	TCP/IP, HTTP, RTSP, RTMP/RTMPS, Onvif, DHCP, SRT, GB/T28181, multicast etc

Input/output Interface		
	HD Output	1 channel, HDMI: version 2.0;
	Network interface	1 Channel, RJ45:10M/100M/1000M, adaptive Ethernet: support PoE power supply:
	Audio Port	1 channel, 3.5mm, Audio In; 1 way, Line Out;
	USB Interface	1way, Type-C socket, can output up to 4k@60fps compressed video and 1080p orignal video;
	Communication Interface	1 channel, RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol;
		1 channel, RS232 Out:8-pin small DIN, maximum distance 30 meters, VISCA protocol networking:
		1 channel, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol;
	Power connector	JEITA type (DC IN 12V)

Generic Specification		
	Input voltage	DC 12V/PoE (802.3af)
	Input current	1.0A (max)
	Operating temperature	-10 ~ 40˚ C
	Stored temperature	-40 ~ 60˚ C
	Power consumption	12W (max)
	Size	169mm x 142mm x 164mm
	Weight	1.35Kg

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