MS-4K72-12S

4K PTZ Camera

Key Features:

- **4K UHD**
  The new generation Sony 1 / 2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 million pixels can realize 4K (3840x2160) ultra-high-resolution high-quality images. Downward compatible with 1080p, 720p and other resolutions.

- **71° Wide-angle lens + 12x optical zoom**
  Exclusively customized high-quality 8.51 million ultra-high resolution 4K super wide-angle lens, 12x optical zoom, horizontal field of view up to 71°.

- **HDMI2.0**
  Supports HDMU2.0 interface, which can directly output 4kp60 uncompressed digital video.

- **Low illumination**
  The new CMOS image sensor with ultra-high signal to noise ratio can effectively reduce image noise under low illumination. The application of 3D noise reduction algorithm can greatly reduce image noise. Even under ultra-low illumination, the picture remains clean and clear, and the image signal-to-noise ratio is more than 55dB.

- **NDI HX2**
  Has the characteristics of low delay and plug and play, which is convenient for project implementation and deployment. It has good ecology and supports the simultaneous transmission of audio, video and control commands. It is a new generation network video transmission mode.

- **Rich, perfect interfaces**
  Supports HDMI2.0 HD output, equipped with 3G-SDI interface, 3G-SDI effective transmission range up to 150m (1080p30). HDMI or 3G-SDI, USB and LAN can output three HD digital signals at the same time.

- **Remote control**
  Multiple control modes, RS232, RS485, network and USB can be used to control the camera

- **Gravity sensor (optional)**
  Supports automatic image flipping function, which is convenient for engineering installation and use.

M Solutions
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Technical Specifications:

Camera	
Video System	**HDMI:** 4K@60fps, 4K@59.94fps, 4K@50fps, 4K@30fps, 4K@25fps, 4K@29.97fps, 1080P@60fps, 1080P@50fps, 1080I@60fps, 1080I@50fp, 1080P@30fps, 1080P@59.94fps, 1080I@59.94fps, 1080P@29.97fps, 720P@60fps, 720P@59.94fps **3G-SDI:** 1080p/60, 1080p/50, 1080p/30, 1080p/29.97, 1080p/59.94, 1080p/25; 1080i/60, 1080i/50, 1080i/59.94fps; 720p/60, 720p/59.94
Sensor	1/2.5" high-quality UHD CMOS sensor with a maximum of 8.51 million pixels
Scanning Mode	Progressive scanning
Lens	12x, f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Automatic, indoor, outdoor, one touch, manual, VAR
Backlight Compensation	Supported
Digital Noise Reduction	3D Digital noise reduction
Video S/N	≥55dB
Horizontal Angle of View	71° ~ 8.2°
Vertical Angle of View	42.7° ~ 4.5°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Supported
Image Freeze	Supported
PoE	Supported
Number of Presets	255 (max)
Preset Accuracy	0.1°

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Technical Specifications:

USB Features – USB 2.0	
Operating Systems	Windows 7, Windows 8, Windows 10, Windows 11, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.264 / MJPEG / H.265
Video Format	YUY2 : Max to 1080@60fps H.264 AVC: Max to 2160@60fps H.264 SVC: Max to 2160@60fps MJPEG: Max to 2160@60fps H.265: Max to 2160@60fps
Audio on USB	Supported
USB Video Communication Protocol	UVC 1.1 - 1.5
UVC PTZ	Supported
Network Features	
Video Compression	H.265 / H.264 / MJEPG
Video Stream	First streaming, second streaming
Main Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576
Sub Stream Resolution	720x480, 320x240
Video Bit Rate	32kbps~51200kbps (Second Way: 32kbps~20480kbps)
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps
Supported protocols	NDI®, HX2, SRT, TCP/IP, HTTP, RTSP, RTMP/RTMPS, Onvif, DHCP, Multicast, GB/T28181

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Technical Specifications:

Input/Output Interface	
HD Output	1x HDMI: 2.0
	1x 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard
Network Interface	1x RJ45: 10M/100M/1000M Adaptive Ethernet
Audio Interface	1-ch, 3.5mm Audio interface, Line in 1-ch, 3.5mm Audio interface, Line out 1-ch, USB2.0, Type-A (can be configured as host or device by software)
USB	1x USB3.0: Type-A, up to 4K@60fps video and 1080p original video can be output
Communication Interface	1x RS-232 in: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
	1x RS-232 out: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1x RS-485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN: 12V)
Generic Specifications	
Installation Direction	Wall mounting, ceiling mounting
Tally Lamp	1PCS (red and green)
Power Indicator	1PCS (blue)
Status Indicator	1PCS (yellow)
IR Remote Control	Support
Dial	Support
Input Voltage	DC 12V/PoE+
Current Consumption	2A (Max)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	18W (Max)
Size	169mm x 142mm x 175mm
Net Weight	Approx. 1.5kg