CMP-U12

4K60P Professional PTZ Camera

4K60P / NDI®|HX2 / 12x Optical Zoom



Product Features

4K60P

Using 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. And downward compatible with 1080p, 720p and other resolutions.

12x Optical Zoom + 71 ° Wide-angle Lens

Using high-quality ultra-high-resolution 4K ultra-high-definition lens, the maximum horizontal field of view is up to 71° , while supporting classic 12x optical zoom.

Electro Mechanical PTZ

Built-in self-developed electro mechanical PTZ, the horizontal rotation range can reach ±170 ° , the rotation speed range is 1.7°～ 100° /s; the vertical rotation range can reach -30°～ 90° , and the rotation speed range is 1.7°～ 69.9° /s.

Multiple Interfaces

Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI or 3G-SDI, USB, LAN can output three HD digital signals at the same time.

Uncompressed Professionally video output

With HDMI2.0 and 3G-SDI interface, it can directly output uncompressed digital video.

Remote Control

Support variety of control methods, you can use RS232, RS485, network and USB to control the camera.

Low Illumination

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

AI Tracking

With the help of the AI computing power of the chip, the camera is equipped with advanced AI algorithms to realize monocular humanoid tracking, which can realize automatic tracking of scenes such as education, conferences and live broadcasts.

NDI®|HX2 [1]

NDI®|HX2 has the characteristics of low latency and plug and play and easy to be implemented and deployed. It has good ecology and supports the simultaneous transmission of audio, video and control commands. It is a new generation of network video transmission mode.

Gravity Sensor [1]

It supports automatic image flipping function, which is convenient for installation and use.

Remark:
1. This function is optional.
2. Device mode is not supported, but will be supported after firmware updates.

Product Specifications

Main Features

Uncompressed Professionally Video Output	**HDMI:**4K60P, 4K59.94P, 4K50P, 4K30P, 4K29.97P, 4K25P, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94; **3G-SDI:**1080P60,1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25; 1080I60, 1080I59.94, 1080I50; 720P60, 720P59.94;
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels
Scanning Mode	Progressive
Focal length	12x, f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital Zoom	16x(Max.)
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
SNR	⩾ 55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5°
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
PoE+	Support
Preset Position	255
Preset Accuracy	0.1°

Interfaces

HD Output	1x HDMI: Version 2.0; 1x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard
Network Interface	1x RJ45: 10M/100M/1000M adaptive Ethernet
Audio Interface	1 x Line In: 3.5mm Jack; 1 x Line Out: 3.5mm Jack;
USB Interface	1 x USB2.0,Type-A (Support Host or Device mode) [2]
Control Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P; 1 x RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P; 1 x RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only
Power Interface	JEITA type (DC IN 12V)

Network Features

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576 etc.
Second Stream Resolution	720x480, 320x240 etc.
Video Bit Rate	First Stream: 32kbps~51200kbps Second Stream: 32kbps~20480kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI®|HX2, SRT, TCP/IP,HTTP,RTSP, RTMP(s),Onvif,DHCP,Multicast, etc.

USB Features

Operating System Supported	Windows 7 (only supports UVC1.1 features), Windows 8 and above version, MacOS 10.5 and above version, Linux 2.4.6 and above version, Android needs to include the version of UVC-related drivers
Color System / Compression	YUY2 H.265 / H.264 / MJPEG
Video Format	YUY2 :Max.1080P5; H.264 : Max.2160P30; H.265 HEVC: Max.2160P30; MJPEG: Max.2160P30
USB Audio	Support
USB video Communication Protocol	UVC1.1 and UVC1.5
UVC PTZ Control	Support

General Specifications

Input Voltage	DC 12V/PoE+(802.3at)
Input current	2A (Max.)
Operating Temperature	0 ~ 40° C
Storage Temperature	-40 ~ 60°C
Power Consumption	18W (Max.)
Dimension	169mm x 142mm x 175mm
Net Weight	1.5Kg