HD Video Conference Camera

Embedded software: HD video conference camera embedded software V2.0

TV-6124HK

Description:

The UHD video conference camera has a 12x/71° wide-angle 4K lens. It adopts a new generation of ISP technology and supports UHD 4KP30. It supports HDMI, LAN, USB or 3G-SDI, LAN, USB can output 2 high-definition digital signals at the same time. It is suitable for various applications such as remote teaching, classroom recording, conference systems, remote training, remote medical care, court trial systems, emergency command systems and so on.

Feature:

* Adopt a new generation of SONY 1/2.5-inch UHD CMOS sensor with a maximum of 8.51 million pixels; realize 4K (3840x2160) UHD high-quality images; downward compatible with 1080P, 720P and other resolutions.
* Exclusive custom high-quality true 4K ultra wide-angle lens, 8 million ultra high resolution, 12× optical zoom, Horizontal field of view up to 71°.
* Support HDMI 1.4b specification, support direct output of 4K uncompressed digital video.
* Support low-power sleep/wake-up, the power consumption in sleep state is less than 400mW.
* The new CMOS image sensor with ultra-high SNR can effectively reduce image noise under low illumination conditions; 2D and 3D noise reduction algorithms can greatly reduce image noise, keeping the picture clean and clear even in ultra-low illumination conditions; the image SNR reaches 55dB or more.
* Support HDMI1.4b output; equipped with a 3G-SDI port, the effective transmission distance is up to 150 meters (1080p30) and also supports USB video output; support HDMI, LAN, USB or 3G-SDI, LAN, USB can output 2 high-definition digital signals at the same time.
* Various control methods: RS232, network and USB can be used to control the camera.
* Support the automatic image flip function, convenient for engineering and use.
* It can display information such as HDMI and SDI (SDI cannot support 4K) output resolution, frame rate and IP address.

Specification:

Model	TV-6124HK
Signal system	4K@30fps, 4K@29.97fps, 4K@25fps, 1080P@60fps, 1080P@50fps,1080I@60fps, 1080I@50fps,1080P@30fps, 1080@25fps,1080P@59.94fps, 1080I@59.94fps, 1080P@29.97fps, 720P@60fps, 720P@59.94fps, 720P@50fps
Sensor	1/2.5 inch, CMOS, effective pixel: 8.51 million
Scanning method	Progressive scanning
Lens zoom	12x, f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital zoom	16x
Minimum illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White balance	Automatic, Indoor, Outdoor, One-button, Manual
BLC	Support
Digital noise reduction	2D&3D digital noise reduction
SNR	≥55dB
Horizontal field of view	71°~ 8.2°
Vertical field of view	42.7°~ 4.5°
Horizontal rotation range	±170°
Vertical rotation range	±30°
Horizontal rotation speed	1.7°~ 76°/s
Vertical rotation speed	0.5°~ 15°/s
Horizontal and vertical flipping	Support
Image freeze	Support
PoE power supply	Support
Face recognition	Not support
Preset position quantity	255
Preset position accuracy	0.1°
Operating system	Windows 7, Windows 8, Windows 10, Mac OS X, Android
Color space/compression	YUY2/H.264/H.265/MJPEG
Video format	YUY2: Max 1080P@30fps H.264 AVC/SVC: Max 2160P@30fps MJPEG: Max 4KP30
USB video format	YUY2: Max 1080P@30fps H.264 AVC/SVC: Max 2160P@30fps MJPEG: up to 4KP30
USB audio	Support
USB video communication protocol	UVC 1.1~1.5
UVC PTZ control	Support
Video coding standard	H.264/H.265/MJPEG
Main stream resolution	3840x2160, 1920x1080, 1280x720, 1024x576, 720x480, 720x408, 640x480, 640x360, etc.
Auxiliary stream resolution	720x480, 720x408, 640x480, 640x360, 480x320, 320x240, etc.
Video bit rate	H264: ~60Mbps, MJPEG: ~200Mbps
Rate control	Variable bit rate, fixed bit rate
Frequency	50hz: 4k encoding supports a maximum of 30 frames, 1080p encoding supports a maximum of 50 frames,
	60hz: 4k encoding supports a maximum of 30 frames, and 1080p encoding supports a maximum of 60 frames
Audio compression standard	AAC, G711A
Audio code rate	48Kbps, 64Kbps, 96Kbps, 128Kbps
Communication protocol	TCP/IP, HTTP, RTSP, RTMP/RTMPS, Onvif, DHCP, SRT, GB/T28181, Multicast, etc.
HD output	1channel, HDMI: Version 1.4b; 1ch, 3G-SDI: BNC type, 800mVp-p, 75Ω, SMPTE 424M compliant
Network port	1 channel, RJ45: 10M/100M/1000M adaptive Ethernet, support POE
Audio port	1 channel, Line In/Mic In, 3.5mm audio port
USB port	1 channel, USB3.0, up to 4K@30fps compressed video and 1080P original video output
Communication port	1 channel, RS232 In: 8-pin mini DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol;
	1 channel, RS232 OUT: 8-pin mini 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)
Input voltage	DC 12V
Input current	1.0A (maximum)
Working temperature	-10℃ ~ 40℃
Storage temperature	-40℃~ 60℃
Power consumption	12W (maximum)
Dimension	238×166.35×131.8mm (W×H×D)
Net weight	1.35kg