Camera TV-620XM

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





Description

This camera adopts a new generation of ISP image processing algorithm to provide a more perfect white balance and auto exposure function, so that the image output performance has been significantly improved, and the imaging effect is also better. It supports H.265/H.264 encoding, which makes the picture smoother and clearer even under low bandwidth. Characterized by complete functions, excellent performance, and diversified interfaces, it is widely used in educational recording, distance teaching, video conference, live streaming and broadcasting, etc.

Feature

* Full HD image: Using 1/2.8-inch high-quality image sensor, the maximum resolution reaches 1920x1080, and the output frame rate reaches 60 frames per second.
* Using 60.7° high-quality optical lens, it supports 20× optical zoom, and 16× digital zoom.
* Using AI technology and pedestrian re-identification technology, it can accurately detect the location of each person based on information such as the dress, body shape, hairstyle, and facial features of the participants, and realize automatic identification and tracking of speakers, automatic selection, and intelligent privacy blurring of the meeting.
* Support the extension of 1080P60 NDI®|HB technology to achieve ultra-high-resolution image quality and closer to lossless visual effects through network transmission.
* All video output interfaces have achieved low latency indicators. Support 4-channel video simultaneous output of HDMI, 3G-SDI, USB 3.0, and network, and support 1080P60.
* The advanced focusing algorithm is used to make the lens focus quickly, accurately and stably.
* Use exclusive audio processing algorithm to eliminate reverberation; adopt advanced 2D and 3D noise reduction technology to further reduce noise; support EQ adjustment to optimize sound effects; support external microphones, wireless speakers, etc. With a 3.5mm audio input interface to meet the sound pickup needs of most scenes.
* Equipped with 1 channel of 3.5mm audio output interface.
* Support HDMI, USB 3.0 and network audio output, AAC audio encoding, realizing better sound quality, less bandwidth occupation.
* The camera can be controlled via RS232 and RS485 serial ports.
* Use exclusive audio processing algorithm to eliminate echo and reverberation; adopt advanced 2D and 3D noise reduction technology to further reduce noise; support EQ adjustment to optimize sound effects; support external microphones, wireless speakers, etc. With a 3.5mm audio input interface to meet the sound pickup needs of most scenes

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Specification

Model	TV-620XM
Video signal system	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor type	1/2.8 inches, CMOS, effective pixels: 2.07 million, progressive
Scanning method	Progressive scanning
Lens	20x, f4.42mm~88.5mm, F1.8~F2.8 [35mm equivalent focal length: 34mm-674mm]
Digital zoom	16x
Minimum illumination	0.5Lux @ (F1.8, AGC ON)
Electronic shutter	1/30s~1/10000s
White balance	Auto, manual, one-touch, specified color temperature, indoor, outdoor
Digital noise reduction	2D, 3D digital noise reduction
BLC	Support
SNR	≥55dB
Horizontal field of view	72.5°~6.9°
Vertical field of view	44.8°~3.9°
Horizontal rotation range	±170°
Vertical rotation range	-30°~+90°
Horizontal rotation speed	1.7°~100°/s
Vertical rotation speed	1.7°~69.9°/s
Horizontal and vertical flipping	Support
Image freeze	Support
Presets quantity	255
Presets accuracy	0.1°
Audio parameters	
Analog audio input	Support 3.5mm Line-In
Digital audio output	Support HDMI, USB, LAN and other audio output
Analog audio output	Support 3.5mm Line-Out
USB parameters	
Color space/Compression	YUY2/MJPEG/H.264
Video format	Support various video formats with different frame rates and resolutions, up to 1080P60 YUY2 output USB video communication protocol UVC 1.1 or UVC1.5 USB audio 32K sampling rate, support UAC2.0 UVC PTZ control, support IPC features (IP Camera)
Video coding standard	H.264/H.265
Video stream	First code stream, Second code stream
First stream resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second stream resolution	1280x720, 1024x576, 720x576, 720x480, 720x408, 640x360, 480x270, 320x240, 320x180
Video bit rate	32Kbps~102400Kbps
Bit rate control	Variable bit rate, fixed bit rate
Frame rate	1fps~60fps
Audio compression standard	AAC
Audio bit rate	96Kbps, 128Kbps, 256Kbps
Network protocol	NDI | HB，NDI | HX, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, SRT, etc.
Input and output interface	USB interface, 1 USB 3.0: Type A socket
HD output	1CH, HDMI: Version 1.3 1CH, 3G-SDI: BNC type, 800mVp-p, 75Ω, in line with SMPTE 424M standard
Network interface	1CH, RJ45: 10M/100M/1000M adaptive Ethernet port, support PoE
Audio interface	1CH, Line In, 3.5mm audio jack; 1CH, Line Out, 3.5mm audio jack
Communication interface	1CH, RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1CH, RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking 1CH, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol

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Power interface	JEITA type (DC IN 12V)
Input voltage	DC 12V, PoE (802.3af)
Input current	1000mA
Working temperature	0°C~40°C
Storage temperature	-40°C~60°C
Power consumption	12W
Dimension (L×W×H)	146×169×168mm
Net weight	About 1.5kg
MTBF	30000H