



## Camera TV-620XH

### 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 built-in dual mic pickup, and also 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.
- \* Auto focus and <0.5 lux low light performance
- \* 340 degree Pan / 120 degree Tilt
- \* Support HDMI, SDI, and IP streaming outputs ports / Support for RTSP, RTMP, HLS for live streaming Power over Ethernet (POE) for simplified cabling, along with standard AC power options



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### Specification

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



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