

HZ-VX60 4K Ultra HD Camera

4K / HDMI+IP+SDI+USB / 20X



Features

■ 4K Ultra HD

Adopting a 1/1.8-inch high-quality UHD CMOS sensor with a maximum of 8.42 million pixels, it can achieve 4K (3840x2160) ultra-high-resolution high-quality images. And backward compatible with multiple resolutions such as 1080P and 720P.

■ 20x optical zoom

It adopts a high-quality, ultra-high-resolution 4K ultra-telephoto lens, 20x optical zoom, and a 60-degree field of view.

■ Low illumination

The new CMOS image sensor with ultra-high signal-to-noise ratio can effectively reduce image noise under low illumination conditions, while applying 2D and 3D noise reduction algorithms to greatly reduce image noise, even in ultra-low illumination conditions, still maintaining a clean and clear picture. The image signal-to-noise ratio is up to 55dB or more.

■ HDMI2.0

Support HDMI 2.0, can directly output 4K uncompressed digital video.

■ AI humanoid tracking

Built-in NNE hardware unit, using deep learning technology, by extracting target features, it can achieve smooth human figure tracking no matter where the face is facing, which is suitable for automatic tracking of speakers in lectures, speeches and other scenes.

■ NDI | HX2 transmission protocol

It can realize low-latency, high-quality, accurate frame audio and video transmission, and real-time discovery, interactive control, flexible IP production and broadcasting work mode, excellent response to network video production needs.

■ Rich and complete interface

It supports HDMI2.0 high-definition output, and is equipped with a 3G-SDI interface, with an effective transmission distance of up to 150 meters (1080p30). HDMI, 3G-SDI, USB3.0, LAN can output 4 high-definition digital signals at the same time.

■ Built-in gravity sensor

Support image automatic flip function, convenient for engineering installation and use.

■ Low-power sleep function

Support low-power sleep/wake-up, low power consumption of 400mW in sleep state.

■ Smart exposure

Effectively solve the impact of projectors, televisions and other equipment on shooting people.

■ remote control

A variety of control methods, RS232, RS485, network and USB can be used to control the camera.

Product Specification Video Camera

Video resolution	HDMI: 4k/60, 4k/50, 4k/30, 4k/25, 4k/59.94, 4k/29.97; 1080p/60, 1080p/50, 1080p/59.94, 1080p/30, 1080p/29.97; 1080i/60, 1080i/50, 1080i/59.94; 720p/60, 720p/59.94; 3G-SDI: 1080p/60, 1080p/50, 1080p/30, 1080p/29.97, 1080p/59.94, 1080p/25; 1080i/60, 1080i/50, 1080i/59.94; 720p/60, 720p/59.94;
sensor	1/1.8 inch, CMOS, effective pixels: 8.42 million
scanning method	progressive scan
lens focal length	20x, f = 6.25mm ~ 125mm, F1.58 ~ F3.95
Digital zoom	16x
Minimum illumination	0.5 Lux @ (F1.8, AGC ON)
shutter	1/30s ~ 1/10000s
White balance	Automatic, indoor, outdoor, one-button, manual, specified color temperature
BLC	support
Digital noise reduction	2D&3D digital noise reduction
Signal-to-noise ratio	≥55dB
Horizontal field of view	60° ~ 3.5°
Vertical field of view	35.7° ~ 2.0°
Horizontal rotation range	±170°
Vertical rotation range	-30° ~ +90°
Pan speed range	1.7° ~ 100° /s
Vertical rotation speed range	1.7° ~ 69.9°/s
Flip horizontally and vertically	support
image freeze	support
PoE power supply	support
Humanoid tracking	Support (optional)
Number of preset positions	255
Preset position accuracy	0.1°
General specification	
input voltage	DC 12V/PoE (802.3af)
input Current	1.0A(max)
Operating temperature	-10 ~ 40°C
stored temperature	40 ~ 60°C
Power consumption	12W(max)
size	169mm x 142 mm x 164mm
weight	1.35Kg

Network characteristics

Video coding standard	H.264 / H.265 / MJPEG
Video stream	The first stream, the second stream
Resolution of the first stream	3840x2160, 1920x1080, 1280x720, 1024x576
Resolution of the second stream	1920x1080, 1280x720, 720x576, 720x480, 320x240
Video bitrate	32kbps ~ 51200kbps
Rate control	Variable bit rate, fixed bit rate
frequency	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio compression standard	AACG711A
Audio bit rate	96Kbps, 128Kbps, 256Kbps
supporting agreement	TCF/IR HNR RTSP, RTMP/RTMPS, Onvif DHCP, SRT, GB/T28181, multicast, etc.

Input and output interface

HD output	1 channel, HDMI: version 2.0; 1 channel, 3G-SDI: BNC type, 800mV-p-p, 75Ω, follow SMPTE 424M standard;
Network Interface	1 channel, RJ45: 10M/100M/1000M adaptive Ethernet; support PoE power supply;
audio port	1 channel, 3.5mm, Audio In; 1 way, Line Out;
USB interface	1 way, Type-C socket, can output up to 4K@60fps compressed video and 1080P original video;
Communication interface	1 channel, RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/ Pelco-D/Pelco-P protocol; 1 channel, RS232 Out: 8-pin small 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)

USB features

Support operating system	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color space/ compression	YUY2 / MJPEG / H.264 / H.265
Video format	YUY2: up to 1080p/30; H.264 AVC: up to 2160p/60; H.264 SVC: up to 2160p/60; MJPEG: up to 2160p/30; H.265: up to 2160/60; support
USB audio	
USB video communication protocol	UVC 1.1~1.5
JVC PTZ control	support