VC-12AT

4K 60P Professional PTZ Camera VC12AT





Features

- **4K60P:** Using 1/2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 million pixels can realize 4K (3840×2160) ultra-high-resolution high-quality images. And downward compatible with 1080p, 720p and other resolutions.
- **12x Optical Zoom + 80.8 ° Wide-angle Lens:** It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 12x optical zoom, and the maximum field angle is 80.8° .
- **Electro Mechanical PTZ:** Built-in self-developed electro mechanical PTZ, the horizontal rotation range can reach ±162.5 ° , the rotation speed range is 1.8 ° ~ 80 ° /s; the vertical rotation range can reach -30°~ 90° , and the rotation speed range is 1.5°~ 49° /s.
- **Built-in Dual Microphones:** Built-in dual microphones use the beamforming algorithm to accurately pick up the sound. The unique noise suppression algorithm makes the speaker's voice clearer and more realistic, and the pickup distance is up to 6 meters.
- **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.
- **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.
- **Voice Tracking:** The built-in intelligent AI algorithm uses dual microphones to accurately locate the sound source. The camera can automatically find and track the speaker. When different speakers speak, the camera can switch among different speakers.
- **NDI®\|HX2:** NDI®\|HX2 has the characteristics of low latency and plug and playand 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.
- **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.
- **Gravity Sensor:** It supports automatic image flipping function, which is convenient for installation and use.

Specifications

Main Features	
Uncompressed Video Output	HDMI :4K60P, 4K59.94P, 4K50P, 4K30P, 4K29.97P, 4K25P, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94, 720P50; 3G-SDI :1080P60, 1080P59.94, 1080P50, 1080P30,1080P29.97; 1080P25, 1080I60, 1080I59.94; 1080I50, 720P60, 720P50
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels
Scanning Mode	Progressive
Lens	12x, f=3.47mm ~ 41.65mm, F 1.84 ~ F 3.72
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

Specifications

SNR	≥ 55dB
Horizontal FOV	80.8° ~ 7.5°
Vertical FOV	49.9° ~ 4.3°
Pan Angle	±162.5°
Tilt Angle	-30° ~ +90°
Pan Speed	1.8° ~ 80° /S
Tilt Speed	1.5° ~ 49° /S
Image Flip	Support
Image Freeze	Support
PoE+	Support
Preset Position	255
Preset Accuracy	0.1°

Specifications

Network Features	
Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576 etc.
Second Stream Resolution	720×576, 720×480, 320×240 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.

Specifications

USB Features	
Operating System Supported	Windows 7, Windows 8, windows 10, windows 11, MacOS 11.6.6 or higher versions, Ubuntu 18.04.4 lts or higher versions, Android 8.0.0 or higher versions
Color System / Compression	YUY2 H.265 / H.264 / MJPEG
Video Format	YUY2 :Max.1080P30(USB3.0) 2; YUY2 :Max.1080P5(USB2.0); H.264 : Max.2160P30; H.265 HEVC: Max.2160P30; MJPEG: Max.2160P30
USB Audio	Support
USB video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

Specifications

Interfaces	
HD Output	1 x HDMI: Version 2.0; 1 x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard
Network Interface	1 x RJ45: 10M/100M/1000M adaptive Ethernet
Audio Interface	1 x LINE IN: 3.5mm Jack
USB Interface	1 x USB2.0,Type-C (Optional upgrade to USB3.0)
Control Interface	1 x RS485: 3pin 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)

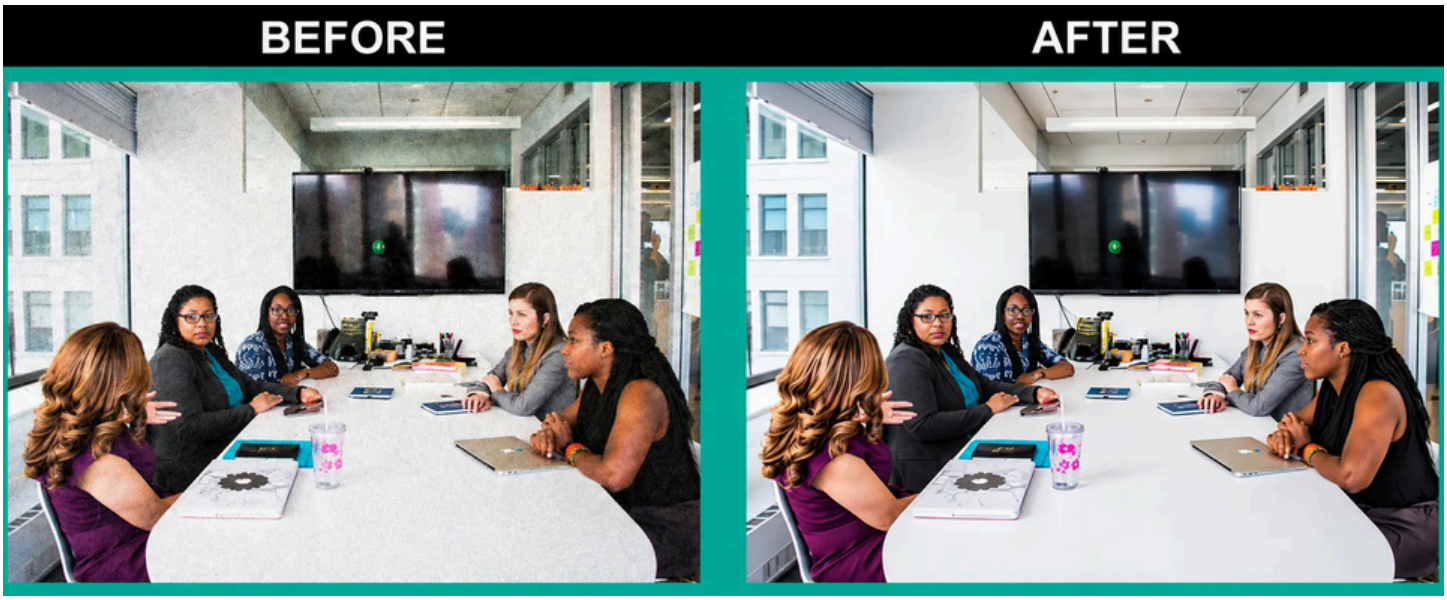
Specifications

General Specifications	
Input Voltage	DC 12V / PoE+(802.3at)
Operating Temperature	0 ~ 40° C
Storage Temperature	-40 ~ 60° C
Power Switch/ Recovery key/ IR Remote Input	Support
Indicator lamp	Power State, Run State, TALLY Lamp
Power Consumption	18W (Max.)
Dimension	223 x 154.8 x 165 (mm)
Net Weight	About 1.8kg



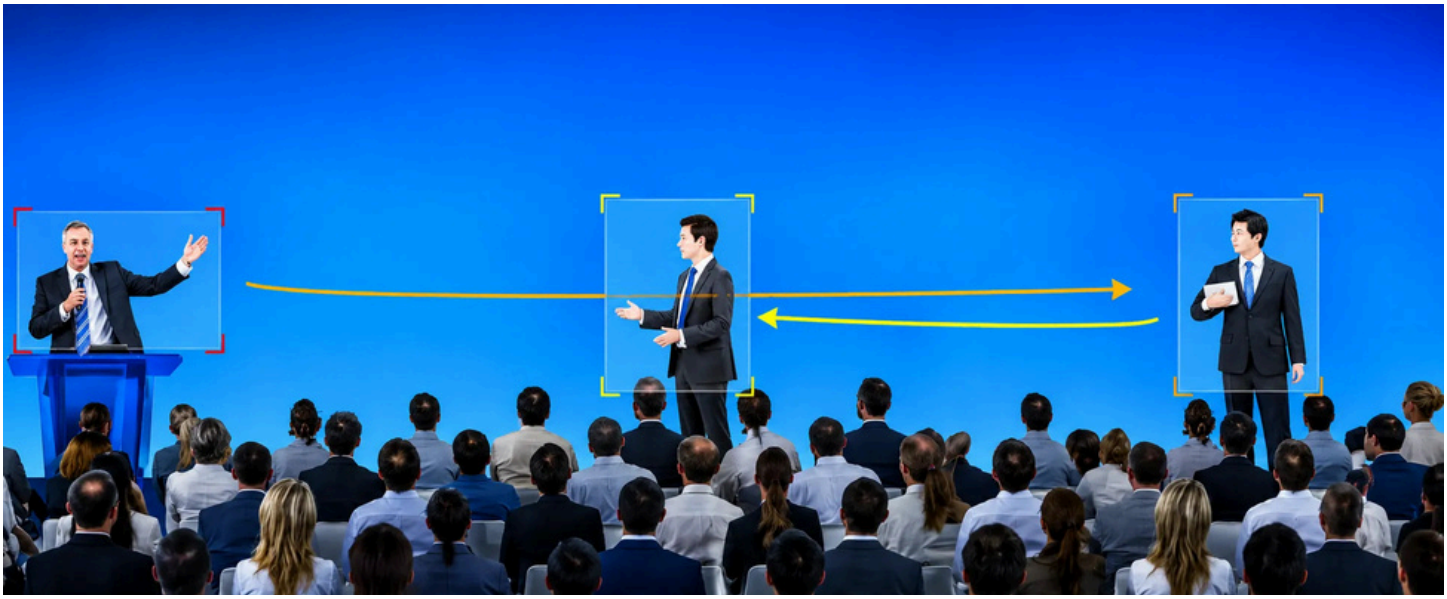
AI Smart Tracking

With the built-in AI capability and algorithms, camera can support multiple tracking modes, including body tracking, hybrid tracking and etc.



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.



Presenter Tracking

It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 12x optical zoom, and the maximum field angle is 80.8°.



Gravity Sensor

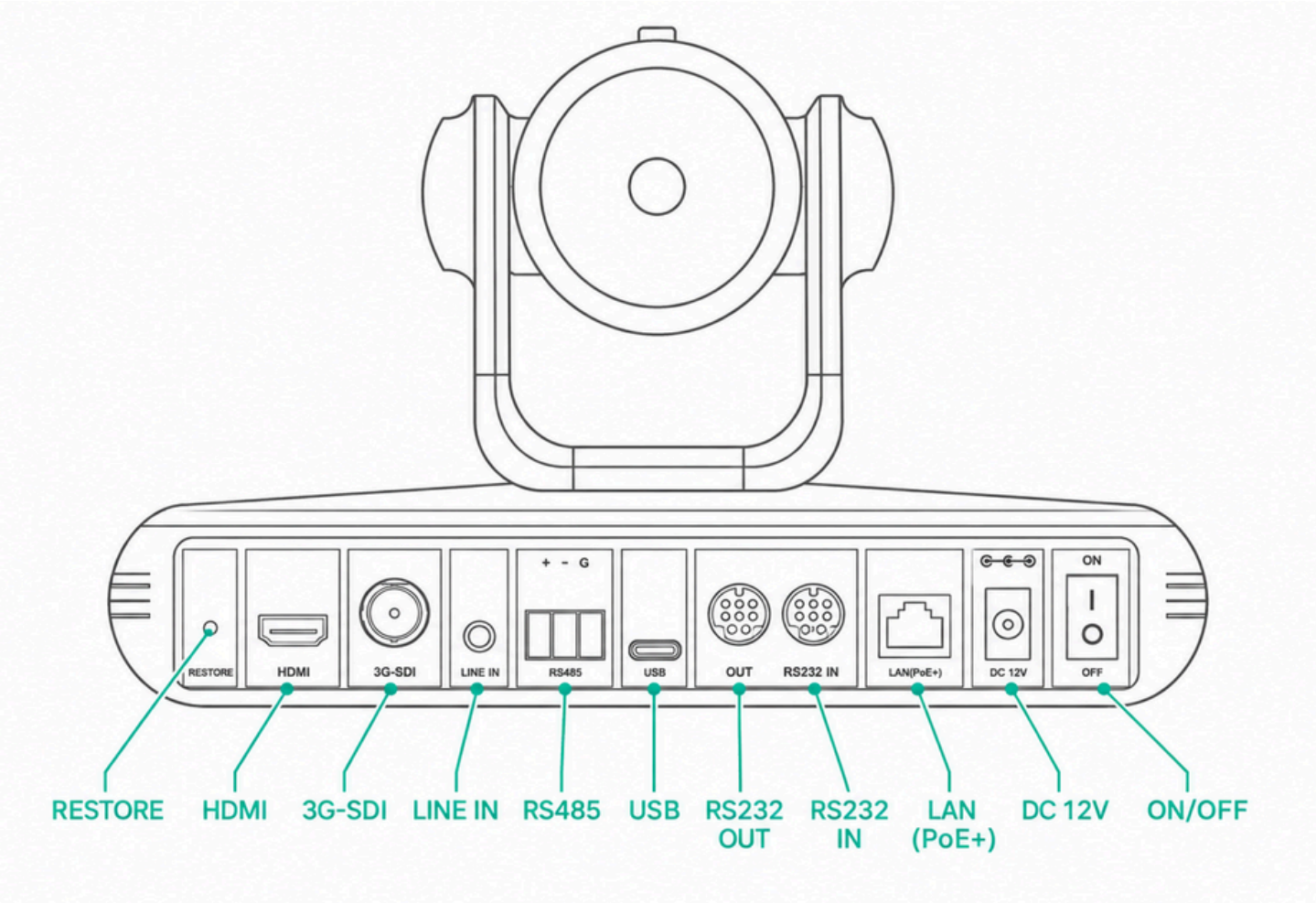
Support image flipping, apply to head-up/head-down installation.



Optical Zoom + Wide-angle Lens

It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 12x optical zoom, and the maximum field angle is 80.8°.

Ports Diagram



Dimension Diagram

