

VX701RA

4K30P Professional PTZ Camera

4K / 12x Optical Zoom / HDMI+3G-SDI+LAN



Product Features

● 4K UHD

Use 1/2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 million pixels can realize 4K (3840x2160) ultra-high-resolution high-quality images. And downward compatible with 1080p, 720p and other resolutions.

● 71° Wide-angle Lens + 12x Optical Zoom

Customized high quality real 8 million ultra high resolution 4K lens, 12x optical zoom, maximum 71° viewing angle.

● HDMI 1.4b

It supports HDMI 1.4b version, and can output 4K uncompressed original video.

● Multiple Interfaces

Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI, LAN or 3G-SDI, LAN can output 2 high-definition digital signals at the same time.

● Low Power Sleep

It supports low-power sleep/wake-up and consumes less than 400mW in sleep mode.

● Low Illumination

The application of 3D noise reduction algorithm greatly reduces image noise. Even under the condition of ultra-low illumination, it still keep the picture clean and clear, and the SNR of image is as high as 55dB.

● Remote Control

Support variety of control methods, you can use RS232, RS485, network and USB to control the camera.

● Built-in OLED Screen

It can display HDMI and SDI (SDI cannot display 4K) output resolution, IP address and other information.

● USB3.0¹

The optional USB3.0 interface can transmit uncompressed original video images and is backward compatible with USB2.0.

Remark:

1. This function is optional.

Product Specifications

Camera

Signal System	HDMI: 4K/30, 4K/29.97, 4K/25; 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 750p/50; 3G-SDI: 1080p/60, 1080i/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels
Scanning Mode	Progressive
Focal length	12x, f=4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital Zoom	16x
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
SNR	≥ 55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5°
Pan Angle	±170°
Tilt Angle	±30°
Pan Speed	1.7° ~ 76° /s
Tilt Speed	0.5° ~ 15° /s
Image Flip	Support
Image Freeze	Support
PoE+	Support
Preset Position	255
Preset Accuracy	0.1°

General Specifications

Input Voltage	DC 12V/PoE
Input Current	1.0A (Max.)
Operating Temperature	-10° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Power Consumption	12W (Max.)
Dimension	238mm x 166.35mm x 131.8mm
Net Weight	1.35Kg

USB Features

Operating System Supported	Windows 7, Windows 8, Windows 10, Windows 11, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.265 / H.264 / MJPEG
Video Format	YUY2 : Max. 1080p/30(USB3.0) ¹ ; YUY2 : Max. 1080p/5(USB2.0); H.264 : Max. 2160p/30; H.265 HEVC: Max. 2160p/30; MJPEG: Max. 2160p/30
USB Audio	Support
USB video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

Interfaces

HD Output	1 x HDMI: Version 1.4b; 1x 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard
Network Interface	1x RJ45: 10M/100M/1000M adaptive Ethernet, PoE Support
Jack	1x Line In/Mic In, 3.5mm Jack
USB Interface	1 x USB2.0, Type-B (Optional upgrade to USB3.0)
Communication Interface	1 x RS485: 2pin 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)
Reset Interface	Restore factory settings

Network Features

Video Compression	H.264 / MJPEG / H.265
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576 etc.
Second Stream Resolution	720x480, 720x408, 640x480, 640x360, 480x320, 320x240 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, G711A
Audio Bit Rate	96kbps, 128kbps
Protocol	TCP/IP, HTTP, RTSP, RTMP/RTMPS, Onvif, DHCP, SRT, GB/T 28181, Multicast, etc.