

4K-Auto Tracking Video Conferencing Camera.

4K-PTZ Digital Camera

Model: VCS-VD20X-4K



SUMMARY

• The VD-20X-4K is a new intelligent digital camera, ideal for video conferencing, tracking & discussing conference systems. Advanced ISP processing technology and algorithms produce vivid and realistic image effects, uniform brightness, strong light and color depth, high clarity, and excellent color reproduction. The camera supports H.265/H.264 encoding, which ensures smoother and clearer images even under low bandwidth conditions.

FEATURES

1. **Ultra HD Resolution** : Adopts 1/2.8-inch 8.42 million pixel high-quality image sensor, with a maximum resolution of 3840x2160 and an output frame rate of up to 60 frames per second
2. **Multiple Optical Zoom**: Optical Zoom 20X and Digital Zoom 16X
3. **Built in OLED Display** : Displays output resolution, IP address.
4. **Multiple Preset Positions**: Supports up to 255 Preset Positions
5. **Image Sensor** : 1 / 2.5 Inch high quality CMOS sensor.
6. **Effective Pixel** : 8.5 Million pixel with 16 :9 aspect ratio. transmission technology, 48KHz audio sampling frequency, and frequency response of 20Hz-20KHz;
7. Industry Leading wide Dynamic CMOS sensor.
8. Multiple camera interface comprising of HDMI, SDI, USB, LAN
9. 2D & 3D digital noise reduction.
10. **Dynamic Range** : Off/ Dynamic range adjustment.
11. **SNR** : >50dB
12. **Audio Output Interface** : HDMI, LAN, USB 3.0, SDI
13. **Audio Input Interface** : Dual Channel 3.5mm linear input
14. **Codec** : H.264 with Unicast or multicast video streaming
15. **Tracking Modes**: Off, Real-time tracking, stage tracking, Area Tracking & Intelligent Tracking.
16. **Video Interface** : HDMI (3840x2160), SDI, USB, LAN

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SPECIFICATIONS

Model No.	VCS-VD20X-4K
Optical Zoom	20X
Digital Zoom	16X
Focal Length	F=5.05 ~91.49mm
FOV	3.93° ~ 67.35° (D) 3.81° ~ 60.05° (H) 1.96° ~ 35.07° (V)
Aperture Ratio	F1.8 –F2.9
Image Sensor	1/ 2.5 CMOS Sensor
Effective Pixel	Around 8.5 Million Pixel with 16 : 9 Aspect Ratio
Video Signal	HDMI 3840x2160/1920x1080P60/59.94/50/30/29.97/25; 1280x720P60/59.94/50 SDI 1920x1080P60/59.94/50/30/29.97/25;1920x1080I60/50/59.94; 1280x720P60/59.94/ 50 USB YUY2/NV12: 1920x1080/1280x720/1024x576/800x600/800x448/640x480/ 640x360/480x270/320x180P30/25/20/15/10/5fps H264/H265/MJPEG: 3840x2160/1920x1080/1600x896/1280x720/ 1024x576/960x540/800x600/800x448/720x576/720x480/640x480/ 640x360/480x270/352x288/320x240 @60/30/25/20/15/10/5fps LAN Master Code Stream: H264/H265: 3840x2160/2592x1944/2304x1296/1920x1080/1280x720 @60/30/25/20/15/10/5fps; Sub Code Stream : H264/H265: 1920x1080/1280x720/640x360/640x480/320x240/320x180 @60/30/25/20/15/10/5fps;
Minimum Illumination	0.5 Lux (F1.8, AGC On)
Digital Noise Reduction	2D & 3D
White Balance	Auto/Manual/one-key white balance/specified color temperature (2400K – 7100K, adjustable 100K steps)
Focus	Auto/Manual/One button focus
Aperture	Auto / Manual

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Electronic Shutter	Auto / Manual
Back Light Compensation	On / Off
Dynamic Range	Off / Dynamic Range Adjustment
Video Adjustment	Brightness, Contrast, Sharpness, Horizontal Flip, Vertical Flip, Black & White mode, Gamma Curve, Electronic Zoom, DCI, Ultra Low Light Mode.
SNR	50 dB
Camera Interface	HDMI, SDI, LAN (Supports POE+), USB 3.0, A-IN, RS-232, RS-232 Out, RS-485, DC-12V, Power Supply, Power Switch
Video Compression Format	LAN : H.264 , H.265 USB 3.0 : MJPG, H.264, H.265, YUY2,NV12
Video Bit rate	64-40960
Bitrate Control	Fixed Bitrate, Variable Bitrate
Frequency	50 Hz – 1 fps ~ 50 fps 60 Hz – 1fps ~ 60 fps
Audio Input Interface	Dual channel 3.5mm Linear input
Audio Output Interface	HDMI, LAN, USB3.0, SDI
Audio Bitrate	32KbPS, 48Kbps, 64Kbps, 96Kbps, 128Kbps
Audio Compression Format	AAC, G.711A
Network Interface	1000M Ethernet Port, Optional POE+ power supply, supports audio & video output
Network Protocol	RTSP, RTMP, ONVIF, GB/T28181,SRT; NDI(Optional), Dante AV (optional), supports network VISCA control protocol, supports remote upgrade, remote reboot, and remote reset
Control Interface	RS232-IN, RS232-OUT, RS485
Serial Communication Protocol	VISCA/Pelco-D/Pelco-P;Supports baud rate. 115200/38400/9600/4800/2400
USB Communication Protocol	UVC (Video Communication Protocol), UAC (Audio Communication Protocol)
Power Interface	HEC3800 power socket (DC 12V)
Power Adapter	Input AC 110V~AC220V ;Output DC 12V/1.5A
Input Voltage	DC 12V±10%
Input Current	≤1.5 A
Total Power Consumption	≤18 W

Codec	H.264
Video Format	1920*1080/1280*720P60/50/30/25
Video Streaming	Unicast or Multicast
Delay	≤120ms@1080p60
Bandwidth	4-8Mbps@1080p60
Pan Rotation	-170° ~ +170°
Tilt Rotation	-30° ~ +90°
Pan Control Speed	0.1°/s ~ 60°/s
Tilt Control Speed	0.1°/s ~ 30°/s
Preset Speed	Pan: 60°/s, Tilt: 30°/s
Number of Presets	Users can set up to 255 preset positions (The remote Control is set to call up to 10)
Tracking Modes	Off, Real-time Tracking, Stage Tracking, Area Tracking, and Intelligent Framing
Storage Temperature	-10℃ ~ +70℃
Storage Humidity	20% ~ 95%
Working Temperature	-10℃ ~ +50℃
Dimensions	150 (L) mm×150mm (W) ×167.5mm (H)
Weight (Approximately)	1.4kg