HDR10 4K UHD PTZ Camera
VX720L

4K HDR

50MP — 50 Megapixel sensor
120FPS — 1080P/120fps
20x Optical Zoom
PDAF (Phase Detection Autofocus)
HDR10

As a revolution of Pro AV camera, VX720L camera integrates 10-bit color depth and BT2020 wide color gamut technology, delivering images with exceptionally rich details and stunning effects. Featuring a 50MP sensor and a 20X optical lens, it captures intricate details, from the nuanced expressions of educators in online classes to the intricate paths of light particles on stage. Enhanced with AI-driven intelligent tracking, it effortlessly tracks fast-moving subjects, excelling in complex shooting scenarios like live broadcasting, virtual meetings, educational settings, and remote command operations, ensuring every frame is captured with precision.

Features

▼ 50MP Ultra-High-Resolution Sensor
Equipped with a 1/1.55-inch 50MP CMOS sensor for unmatched clarity and cinematic video output. Support various video output resolutions, maximum 4K60fps and lower resolution like 1080P, 720P and etc.

▼ 120fps High Frame Rate
Supports 1080P at 120fps for smooth, high-quality video capture, perfect for fast-moving scenes like live sports broadcasts, significantly enhances video fluidity and real-time performance.

▼ PDAF(Phase Detection Autofocus)
Built-in PDAF (Phase Detection Autofocus) technology, can accurately calculate the focus position using optical phase differences, enabling very fast and precise Auto focus.

▼ HDR10: A Comprehensive Revolution in Lighting and Color
Supporting the BT.2020 color standard, which doubles the color gamut range compared to BT.709, this technology offers a more realistic representation of light and dark contrasts. It can depict colors that are closer to human perception, with light and dark contrasts that more accurately reflect the real world, defining the colors of the future.

▼ 20X Optical Zoom+ 60° HFoV Lens
Featuring a premium ultra-high resolution lens with 60° HFoV and up to 20x optical zoom. this system delivers crystal-clear imaging across all distances - from intimate close-ups to expansive distant shots.

▼ Multiple interfaces
Support simultaneous streaming of high-definition digital signals via HDMI, 12G-SDI(Optional), 3G-SDI, USB and LAN; Support multiple ways of control, RS422, RS485, IP and USB, widely used in various scenarios such as virtual studios, live streaming, broadcasting, virtual education and etc.

▼ Tally light
Equipped with 1 front and 1 rear Tally lights, enables operators to effortlessly access the camera's live status, with visual indicators helping users quickly grasp the camera's working status.

▼ AI-Powered Presenter Tracking
Featuring proprietary ReID and FaceID AI algorithms, the camera precisely identifies and focuses on subjects based on skeletal structure, body shape, posture, and clothing. Even in complex environments, it accurately tracks and captures moving targets, keeping them in clear focus and at the center of the frame.

▼ Built-in Filter Mount for One-Touch Switching
The camera body features a pre-installed filter mount, compatible with Neutral Density (ND) and Circular Polarizing (CPL) filters for immediate use. With a single touch, effortlessly address issues like strong light overexposure and reflective interference, easily achieving dynamic light and shadow control along with color depth optimization. Even photography beginners can capture cinematic-quality footage.

Product Specification

▼ Camera

Signal System	HDMI: 4KP60、4KP50、4KP30、4KP25、4KP59.94、4KP29.97、1080P120、1080P60、1080P50、1080P59.94、1080P30、1080P29.97、720P60、720P59.94 3G-SDI: 1080P60、1080P50、1080P30、1080P29.97、1080P59.94、1080P25、1080I60、1080I50、1080I59.94、720P60、720P59.94
Sensor	1/1.55", CMOS, Total pixel: 50MP
Scanning model	Progressive
Lens	20X, f=6.55~126mm, F1.8~4.5
Digital Zoom	16X
Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Automatic, indoor, outdoor, one-key operation, manual, specified color temperature
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
SNR	≥ 55dB
Horizontal FoV	60.5° ~3.49°
Vertical FoV	36.6° ~ 1.99°
Tilt Aange	±170°
Pan Aange	-30° ~ +90°
Pan Speed Range	1.7° ~100° /S
Tilt Speed Range	1.7° ~69.9° /S
Horizontal Flip & Vertical Flip	Support
Image Freeze	Support
PoE+	Support
Preset Positions Number	255
Preset Position Accuracy	0.1°

▼ USB

Support Operating System	Windows8, Windows10, Windows11, MacOSX, Linux2.4.6 and later versions, Android versions that include UVC-related driver programs.
Color Space/Compression	YUY2/H.264/MJPEG
Video Format	YUY2: Upto 1080P30 H.264: Upto 4KP60 MJPEG: Upto 4KP60
USB Audio	Support
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support

▼ Network

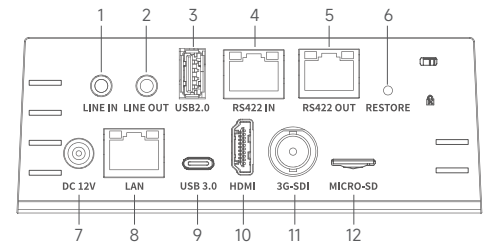|	
Video Compression	H.264 / H.265 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840*2160、1920*1080、1280*720、1024*576、720*480、720*408、640*480、640*360
Second Stream Resolution	720*480、720*408、640*480、640*360、480*320、320*240
Bit Rate	First stream: 32kbps~51200kbps second stream: 32kbps~20480kbps
Bit Rate Control	Variable Bit Rate, Fixed Bit Rate
Frequency	1fps~60fps, 120fps(1080P and below only)
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps
Support Protocols	NDI6、TCP/IP、HTTP、RTSP、RTMP、ONVIF、DHCP、SRT、Multicast and etc.

▼ Input/Output Interface

HD Output	1 x HDMI: 2.0; 1 x 3G-SDI: BNC type, 800mVp-p, 75Ω, Comply with SMPTE 424M standard;
Network	1 x LAN: 10M/100M/1000Mbps adaptive ethernet
USB	1 x USB2.0, Type-A, Host Interface(Reserved) 1 x USB3.0, Type-C(for audio and video signal transmission)
Audio	1 x Line in: 3.5mm Audio Interface; 1 x Line out: 3.5mm Audio Interface;
Communication interface	1 x RS422 IN/RS485: RJ45, VISCA/Pelco-D/Pelco-P protocol 1 x RS422 OUT: RJ45, VISCA/Pelco-D/Pelco-P protocol
SD Card	1 Micro SD
RESTORE button	Support
Power Interface	JEITA type（DC IN 12V)

▼ Generic

Input Voltage	DC 12V/PoE+（802.3at)
Input Current	2A
Working Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Dimension (W x D x H)	170 × 196 × 228mm
Net weight	2.3KG

Interface Diagram

1 —— LINE IN		8 —— LAN	
2 —— LINE OUT		9 —— USB 3.0	
3 —— USB 2.0		10 —— HDMI	
4 —— RS422 IN		11 —— 3G-SDI	
5 —— RS422 OUT		12 —— MICRO SD	
6 —— RESTORE			
7 —— DC 12V			