

PUAS



PUS-UHD720

Professional 4K60 Ultra HD Broadcast PTZ Camera

4K60 | 1/2.5" CMOS | 20X Optical Zoom | AI Tracking | Supports MicroSD | NDI/HX3 optional

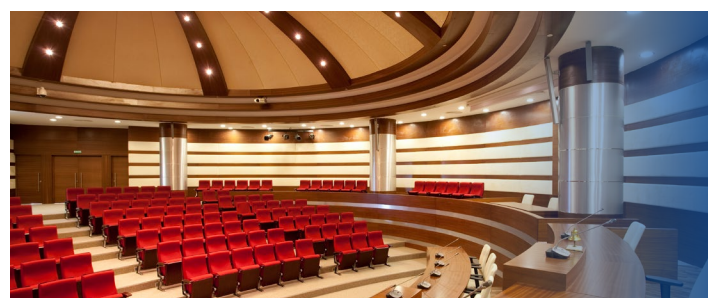
A New Milestone in Professional Imaging

The UHD700 4K60 Ultra HD Broadcast PTZ Camera features an all-new design for professional imaging applications. Equipped with 4:2:2 10-bit color depth, 20× optical zoom, and AI intelligent framing, the UHD700 also features built-in MicroSD card recording. With outstanding image quality and a compact design, it delivers an exceptional on-site production experience for professional video content creation.



Abundant Interfaces & Wide application

Equipped with HDMI 2.0, Type-C (USB3.0) and IP interfaces, it simultaneously outputs ultra HD digital signals and 3G-SDI HD video signals. Supports RS-232, RS-485, LAN, and USB control, making it suitable for a wide range of applications such as virtual studios, auditorium live streaming, conferences, and remote education.



Video Conference

Suitable for medium and large conference scenarios, such as government & enterprise meetings, multi-function halls, emergency command, and converged media video conference systems. With ultra-HD PTZ camera shooting and auto-tracking functions, it realizes multi-camera remote live broadcasting, providing online audiences and users with a clearer and smoother video experience.



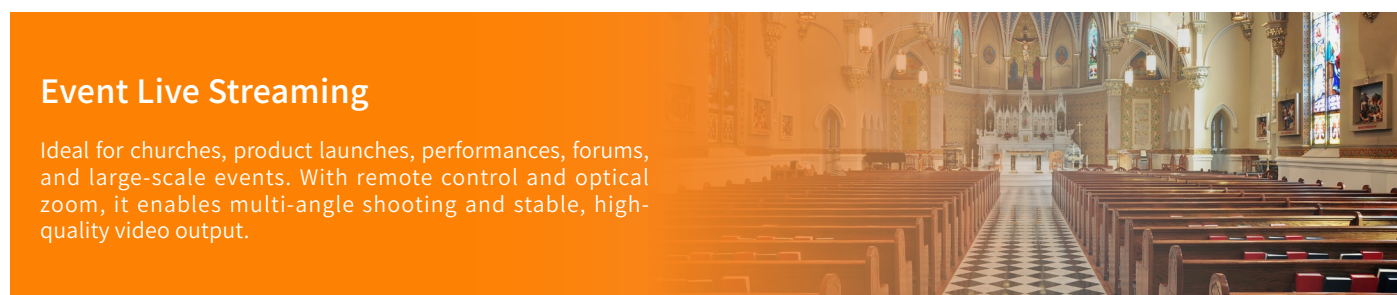
Education Recording & Streaming

Supports automatic classroom recording and intelligent lecturer tracking. Enables high-definition capture of the entire teaching process and remote learning applications, enhancing educational informatization and content delivery efficiency.



Virtual Production

Supports Free-D protocol for seamless integration with virtual studio systems. Enables real-time synchronization of camera spatial positioning and virtual scenes, widely used in XR virtual production and virtual studios.



Event Live Streaming

Ideal for churches, product launches, performances, forums, and large-scale events. With remote control and optical zoom, it enables multi-angle shooting and stable, high-quality video output.



Telemedicine

Supports various IP network transmissions and multiple video protocols with rich interfaces. It is suitable for clinical consultations and surgical demonstrations, with ultra-HD detail restoration and adaptability to extreme environments, supporting real-time live streaming and recording.

4K60 Ultra HD Quality

Supports 4K 60fps Ultra HD output with a resolution of up to 3840×2160 . Compared to traditional Full HD, it presents 4 times more image detail. The 60fps high frame rate dynamic video makes the picture smoother and more natural.



Adopt Multi-Color Tally Light

The Tally light provides performers and crew in multi-camera setups with clear information about the camera's status, enabling smooth and efficient collaboration. It supports user-defined Tally light colors, up to 256 colors.



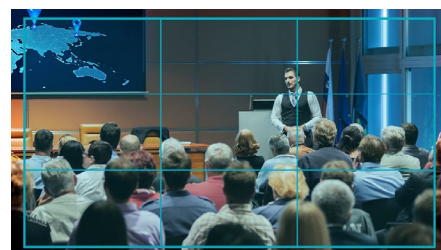
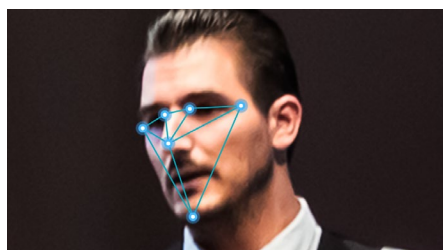
20X Optical Zoom

Captures images in stunning detail across a 20× optical zoom range.



Built-in AI Intelligent Framing

The integrated AI analysis module automatically recognizes and tracks subjects by analyzing body posture, head position, facial features, and clothing. Suitable for applications such as athlete tracking in sports events, the system ensures precise subject detection while minimizing interference from non-target objects.



IP and Free-D,NDI,SRT Protocol Compatibility for Extended Creative Possibilities

Supports the Free-D protocol commonly used in virtual production for AR/VR applications. Accurately outputs camera tracking data (pan, tilt, zoom, focus, and iris) to 3D production software, enabling seamless integration of live footage with 3D virtual backgrounds and characters for realistic compositing.

Ideal for news studios, large-scale events, and advanced virtual productions. Supports SRT, RTMP, RTMPS, RTSP, and optional NDI|HX3, allowing 4K60P output and remote control over IP networks.



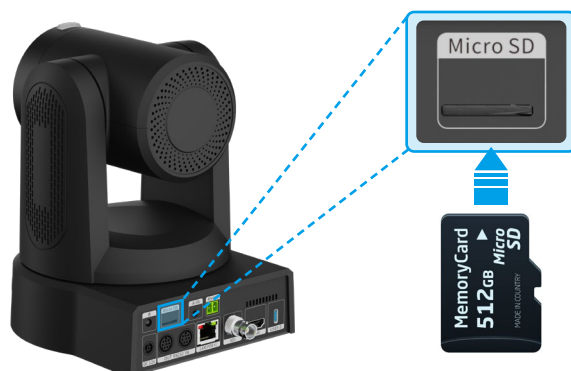
Real-time OLED Display

The built-in OLED display allows quick access to key information such as IP address, resolution, and protocol status, providing convenient on-site monitoring and operation.



Built-in Micro-SD Card Recording

Supports up to 512GB Micro-SD card for convenient on-site or temporary video recording.



Max: 512GB

Product Specifications

PUS-UHD720 Camera	
Effective Pixels	8.46 Megapixels
Image Sensor	1/2.5" Sony CMOS Sensor
Video Format	2160P60/59.94/50/29.97/25 1080P60/59.94/50/30/29.97/25 1080i60/59.94/50/720P60/59.94/50/29.97/25
Scan Mode	Progressive/Interlaced
Focus Length	f 5.5mm ~ 110.0mm
Iris	F1.6 ~ F3.6
Optical Zoom	20x
Digital Zoom	12x
Min Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter Speed	1/30s ~ 1/10000s
White Balance	Manual / Auto / One Push/3000K/4000K/5000K/6500K
Backlight Compensation (BLC)	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Signal-to-Noise Ratio (SNR)	≥ 55dB
Tally	Support
Horizontal Field of View (HFOV)	55.8° ~ 2.9°
Vertical Field of View (VFOV)	32.2° ~ 1.6°
Image Freeze	Support
I/O Parameters	
Video Output Interface	HDMI2.0,3G-SDI,RJ45,Type-C(USB3.0)
Video Compression Format	H.264, H.265, MJPEG
Control Interface	1X RS232 IN, 1X RS232 Out, 1X RS485 ,RJ45 (UDP)
Control Protocol	VISCA/PELCO-D/PELCO-P,VISCA OVER IP,ONVIF,UVC (ONLY FOR Type-C)
Baud Rate	2400/4800/9600/19200/38400bps
Audio Input	Dual channel 3.5mm line input
Audio Compression Format	AAC, G711A, G711U
Network Interface	1000M Internet Access(10/100BASE-TX)
Network Protocol	RTSP,RTMP,ONVIF,NDI HX3,SRT,GB28181,VPN,Free-D
Storage	MicroSD Card, up to 512GB
Power Interface	DC-038 Outlet(DC12V),POE
Pan/Tilt Mechanical Parameters	
Horizontal Rotation Range	±170°
Vertical Rotation Range	+90° ~ -30°
Horizontal Rotation Speed Range	0.1° ~ 100° /s
Vertical Rotation Speed Range	0.1° ~ 80.0° /s
Pan/Tilt Flip	Support
Preset Positions	Max Support 255 Presets
Preset Accuracy	0.1°
General Parameters	
Power Adapter	AC100V~AC240V Input, DC12V/2A Output
Input Voltage	DV12V
Working Environment	-10° C ~ +50° C / 20% ~ 80%
Storage Environment	-10° C ~ +60° C / 20% ~ 95%
Power Consumption	15W (Max)
Mean Time Between Failures (MTBF)	>30000 hours

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