

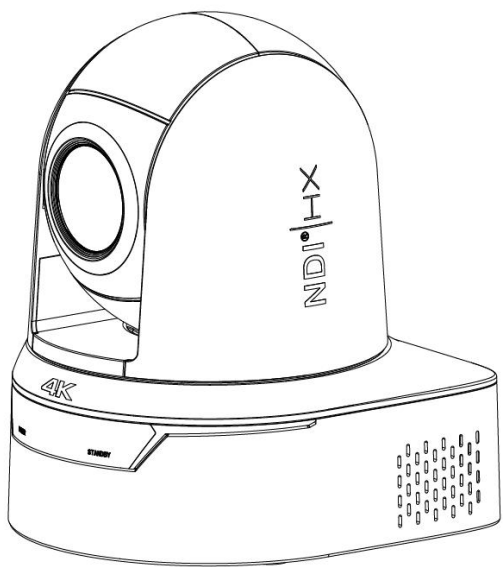


UH7110-25 4K Broadcast-Level PTZ Camera

25x optical zoom | 4K 60fps | AI tracking

Gesture Recognition | Free-D | PoE+ | OLED Display

HDMI/LAN/USB3.0/3G-SDI



Core Performance

4K 60fps video

Features a 1/1.8-inch Sony CMOS sensor for superior performance in various lighting conditions. Delivers up to 4K60 video output for exceptionally vivid and dynamic detail.



Free-D

Built-in Free-D protocol outputs real-time spatial data, enabling dynamic camera angle control for virtual production and AR applications.



25x optical, 16x digital zoom

25x optical zoom and 16x digital zoom with a 59.2° horizontal view, ideal for capturing fine details in large venues and classrooms.



NDI®|HX3 Protocol

Supports NDI®|HX3 for transmitting HD video, audio, and control signals over a single network cable with low latency.



Multiple output interfaces

Rich video output interfaces include HDMI, LAN, USB3.0 and 3G-SDI. HDMI, LAN and USB support 4K@60fps output, while 3G-SDI outputs 1080P@60fps.



AI tracking

Multi-mode AI algorithm tracks people and gestures for automatic framing, reducing manual operation in lectures, meetings, and classrooms.



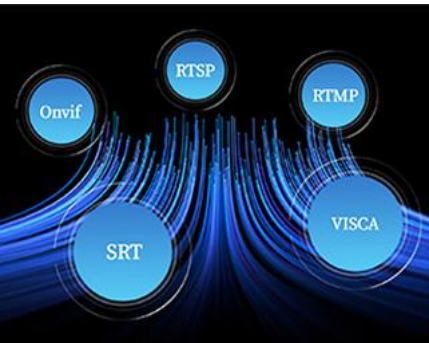
Privacy Mask

Real-time multi-face detection with automatic mosaic masking for head areas when required.



Multi-format Encoding Multi-protocol Support

Supports multiple encoding formats including YUY2, MJPG, H.264 and H.265. It is compatible with transmission protocols such as ONVIF, SRT, RTSP, RTMP(S) and FreeD, suitable for live streaming and professional production. It also supports control protocols of VISCA, PELCO P/D, NDI and ONVIF with automatic protocol recognition, enabling easy system integration and unified control.



Product Specifications

Camera parameters

Sensor		1/1.8-inch SONY CMOS sensor, approximately 8.29 million effective pixels
Zoom	Optical zoom	25X
	Digital zoom	16X
Lens		f=7.1(wide-angle)~171.95mm(telephoto), F1.61~F5.19
Horizontal field of view		59.2°(W)~2.5°(T)
Vertical field of view		34.6°(W)~1.4°(T)
Output format	HDMI	3840*2160 p60/59.94/50/30/29.97/25; 1920*1080 p60/59.94/50/30/29.97/25; 1280*720 p60/59.94/50; 1920*1080 i60/59.94/50
	3G-SDI	1920*1080 p60/59.94/50/30/29.97/25; 1280*720 p60/59.94/50; 1920*1080 i60/59.94/50
	USB	MJPEG: 3840*2160,2560*1440,1920*1080,1280*720,960*540,480*270, 384*216, 320*180, 256*144;
		YUY2: 1920*1080, 1280*720, 960*540, 640*360, 480*270, 384*216, 320*180, 256*144;
		NV12: 1920*1080,1280*720,960*540,640*360,480*270,384*216,320*180,256*144

Gimbal

Preset	Remote controls: 10, Keyboards: 255, Accuracy: 0.1° ±10%
Gimbal Acceleration Curve	Gentle, Standard, Swift
Horizontal rotation angle	-174°~ +174°
Vertical rotation angle	-30°~ +90°
Horizontal rotation speed	0.01°~ 180°/S
Vertical rotation speed	0.01°~ 180°/S

Image Parameters

Noise reduction	2D & 3D
Exposure	Automatic, Manual, Aperture Priority, Shutter Priority
White Balance	Auto, Indoor, Outdoor, One-touch White Balance, Auto Tracking, Manual, Color Temperature
Low light	0.1Lux
Anti-flicker	Off, 50Hz, 60Hz
Focusing method	Automatic, Manual
Gamma	Standard, Linear, Pattern, Custom
Inversion/Image Freeze	Support
Backlight compensation	Support
Flip/Mirror	Support
Defog	Support
Shutter	1/60S ~ 1/10000S
S/N Ratio	≥50dB

Online streaming

Video encoding format	H.264, H.265,MJPEG
Rate Control	Variable bit rate, constant bit rate
Bitrate	Stream 0 3840*2160, 1920*1080, 1280*720
	Stream 1 640*360
	Stream 2 1920*1080, 1280*720
Supported Protocol	TCP/IP, HTTP, RTSP, RTMP(S), SRT, ONVIF, DHCP, VISCA Over IP, Free D, NDI（Optional）

Audio information

Compression Standard	AAC
Audio Bitrate	128kbps

AI composition

Smart Tracking	Single-person tracking, multi-person tracking, Zone tracking, hybrid tracking, gesture recognition
Gesture recognition	Turn on/off, switch target,Zoom In,Zoom Out
Composition size	Half body / Full body
Composition mode	Custom, Center, Left, Right
Composition position	Current position, preset position, initial position
Pan Lock	Support(Only Single-person tracking)
Tilt Lock	Support(Only Single-person tracking)
Zoom Lock	Support(Only Single-person tracking)

Input/Output

HDMI port	HDMI: Version 2.0 *1 channel
USB port	USB3.0, Type-B port *1 channel
SDI port	3G-SDI*1 channel
Communication Interface	RS422:9 Phoenix connector,maximum distance 1200 meters, VISCA/Pelco-D/Pprotocol *1 channel; RS232 IN/OUT: 8-pin mini DIN, maximum distance 30 meters, VISCA/Pelco-D/P protocol *1 channel
Network Interface	RJ45: 1000M adaptive Ethernet port ×1 channel (Supports PoE+ (IEEE 802.3at))
Audio Interface	3.5mm Line In audio port ×1 channel
Power connector	IEC 60130-10 Type A

Basic Parameters

Input voltage	DC 12V
Input current	Up to 1.5A
Operating Temperature	0~40℃
Power consumption	Up to 18W
Color	Black、White（Optional）
Specifications	158*193*208mm

Weight	1.9KG
Accessory List	DC 12V power adapter、IR remote control、 user manual、 RS-232 serial cable (optional)、 HDMI cable (optional)、 HDMI bracket、 USB 3.0 video cable、 wall mount/ceiling mount bracket (choose one)

Interface Diagram



Structural dimensions

