



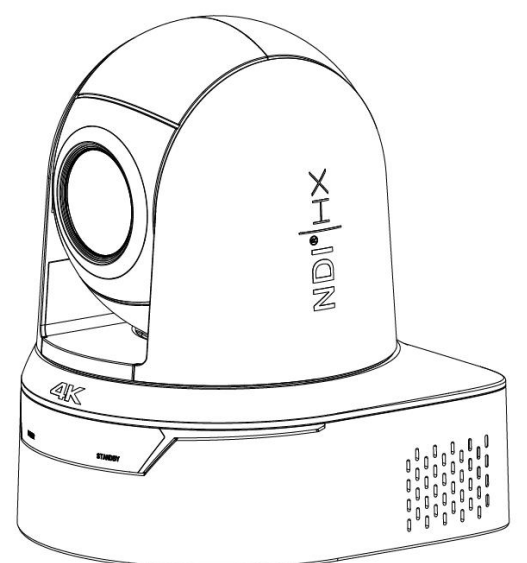
## UH7100-25 4K Broadcast-Level PTZ Camera

25x optical zoom | 4K 60fps | Fiber(SFP28)

Genlock | Free-D | AI tracking | NDI®|HX3

OLED | PoE

SFP28/HDMI/LAN/12G-SDI/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.



### Supports multiple output interfaces

Includes 12G-SDI, 3G-SDI, HDMI, LAN, and SFP28 interfaces. HDMI/12G-SDI/LAN/SFP28 support 4Kp60, while 3G-SDI supports 1080p60.



### 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.



### GENLOCK

Genlock (GEN-LOCK) input synchronizes multiple cameras for seamless multi-source video production.



# 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
	SFP+	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
	12G-SDI	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

## 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

## 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® HX3 (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
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)

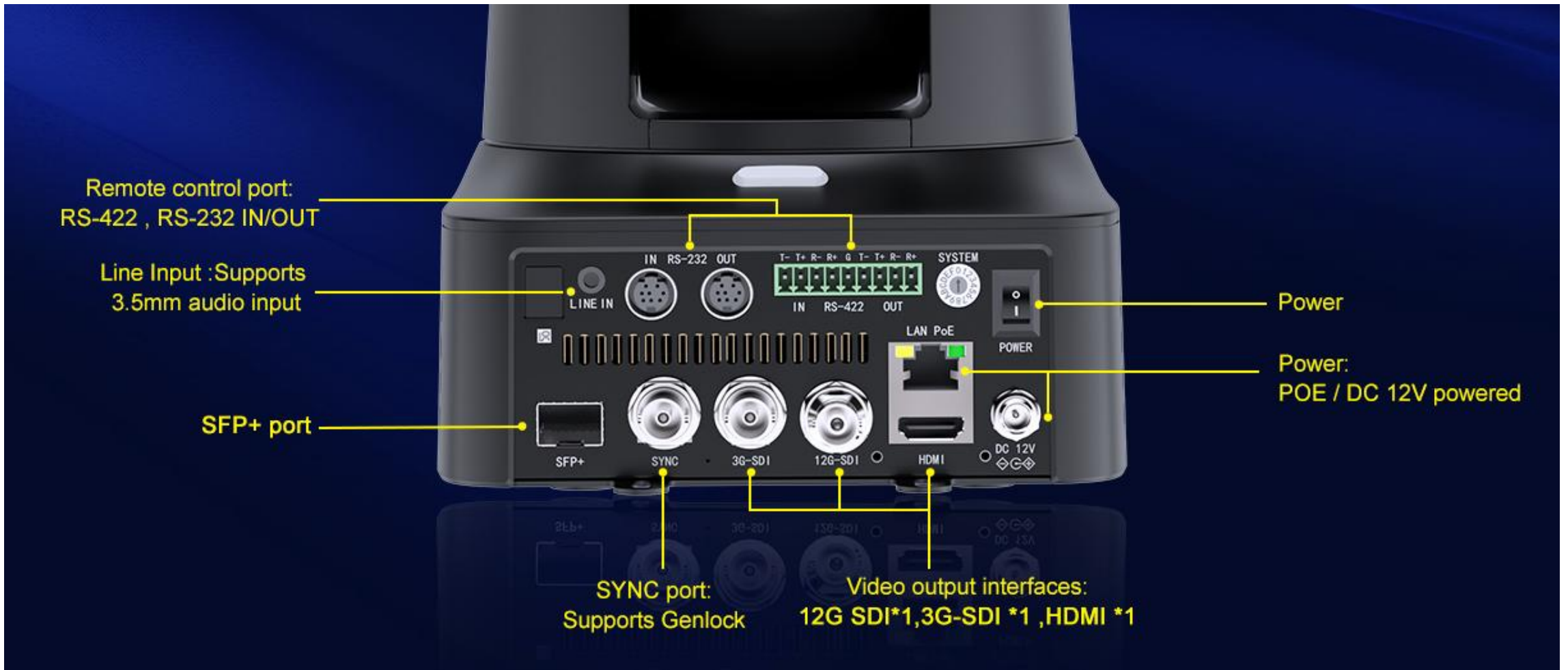
## Input/Output

HDMI port	HDMI: Version 2.0 *1 channel
SFP+ port	Fiber(SFP28)*1 channel
SDI port	12G-SDI*1 channel、3G-SDI*1 channel、SYNC(Genlock)*1 channel
Communication Interface	RS422/485 IN/OUT: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
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、wall mount/ceiling mount bracket (choose one of the two)

# Interface Diagram



# Structural dimensions

