



# EXPLORE SE

ADVANCED 4K60P PTZ CAMERA FOR IMMERSIVE BROADCAST VR VIDEO PRODUCTION



30x

4K60

Auto-tracking

Free-D

SFP+/12G-SDI/HDMI/NDI|HX/XLR

## Broadcast Level PTZ Camera Disrupts AV Industry

The Explore SE is a versatile broadcast-level PTZ camera equipped with a Sony 1/1.8-inch 9MP CMOS sensor and cutting-edge image processor. It delivers ultra-high-definition images with true-to-life colors and lightning-fast focus capabilities.

The Explore SE offers 4K60p resolution output via NDI|HX, 12G-SDI, HDMI, and SFP+ connections. With Genlock functionality, the Explore SE can serve as the primary camera, ensuring seamless video synchronization with other sub-cameras in broadcast video production and live streaming systems.

Explore SE supports native AI-based auto-tracking and FreeD technology, enabling flexible operation in a wide range of scenarios, both in the real and virtual worlds.

# Application



# Key features

## ◆ High-Performance Sensor and Image Processor

The Explore SE boasts a Sony 1/1.8-inch 9MP CMOS sensor and a state-of-the-art image processor, to deliver stunning ultra-high-definition images that capture realistic colors and maintain rapid focus. This feature ensures that your audience experiences content with the highest level of realism.

## ◆ Versatile Output Options

This Explore SE offers diverse output options, including 4K60p resolution through NDI|HX, 12G-SDI, HDMI, and SFP+ connections. Users can choose the output method that best suits their production needs, ensuring flexibility and compatibility.

## ◆ Genlock Functionality

The Explore SE features Genlock, a valuable synchronization feature, which makes it to function as a primary camera, ensuring precise video synchronization with other sub-cameras in complex broadcast video production and live streaming setups.

## ◆ Robust Audio Capabilities

The Explore SE features with a 3.5mm line-in input and a Mini XLR audio input. Moreover, the XLR input supports phantom power, providing compatibility with a wide range of microphones and audio equipment.

## ◆ Native AI-Based Auto-Tracking

The Explore SE incorporates native AI-based auto-tracking technology, this intelligent feature automatically follows subjects, enhancing ease of use and ensuring that important moments are captured flawlessly.

## ◆ FreeD Technology Integration

The Explore SE seamlessly integrates FreeD technology, empowering users to explore dynamic shooting angles and perspectives, making it ideal for versatile real-world and virtual-world applications.

# Specification

Camera	Explore SE
Part NO.	TLC-900-IP-30-4K(NDI)-AB
Sensor	1/1.8-inch, 9MP UHD CMOS sensor
Zoom	30X optical zoom
Lens	f = 6.91 ~ 214.64mm, F1.35 ~ F4.6
Horizontal View Angle	60° (Wide) ~ 2° (Tele)
Vertical viewing angle	34.14° ~ 1.12°
Diagonal viewing angle	67.08° ~ 2.27°
Minimum Working Distance	Wide: 1.5m; Tele: 1.5m
S/N Ratio	≥50dB
Video Format	12G-SDI: 3840*2160 P60/50/30/25/29.97/24/23.98; 1920*1080P60/50/30/25/59.94/29.97/24/23.98; 1920*1080i60/50/59.94; 1280*720P60/50/30/25/59.94/29.97
	HDMI2.0: 3840*2160 P60/50/30/25/29.97/24/23.98; 1920*1080P60/50/30/25/59.94/29.97/24/23.98; 1920*1080i60/50/59.94; 1280*720P60/50/30/25/59.94/29.97
	NDI® HX: Main Stream: 3840*2160P15~60; 1920*1080P15~60; 1280*720P15~60; 1024*576P15~60 Sub Stream :640*360P15~30
	SFP+: 3840*2160 P60/50/30/25/29.97/24/23.98; 1920*1080P60/50/30/25/59.94/29.97/24/23.98; 1920*1080i60/50/59.94; 1280*720P60/50/30/25/59.94/29.97
	USB Type-C: NV12: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30 YUYV: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30 MJPG: 3840*2160P30; 1920*1080P60; 1280*720P60; 1024*576P60; 800*448P60 H264/H265: 3840*2160P30; 1920*1080P60; 1280*720P60; 1024*576P60; 800*448P60
Image Parameters	
Noise Reduction	2D&3D
Minimum lux	0.5Lux (50 IRE Max AGC, 1/30, F1.8)
White Balance	Auto/Manual/Auto tracking/Push/Indoor/Outdoor/Color Temperature
Exposure	Auto/Manual/Shutter Priority/Iris Priority/Brightness Priority
Anti-Flicker	OFF, 50Hz, 60Hz
Image Flip/Mirroring	Support
Focus/Iris/Electronic-shutter	Auto/Manual
Gamma	Support
Backlight Compensation	Support

IP Streaming	
Video Encoding	H.264/H.265
Bitrate Control	Variable bitrate(VBR), Constant bitrate(CBR)
Bitrate Range	1024Kbps~61440Kbps
Network Port Speed	1000M
Protocol	NDI® HX,SRT, HTTP, RTSP, RTMP, ONVIF, VISCA over IP(TCP&UDP), VISCA, PELCO P/D
Pan/Tilt Movement	
Preset	Remote controller: 10; Serial port: 256; Accuracy: 0.1°
Pan Rotation Angle	-170°~+170°
Tilt Rotation Angle	-90°~+90°
Pan Rotation Speed	0.1°~80°/s
Tilt Rotation Speed	0.1°~60°/s
I/O Interface	
Control Port	RS232,RS485,RS422,RJ45,USB, NDI® HX
Video Port	NDI® HX, HDMI2.0, 12G-SDI, USB Type-C
Audio Port	Min XLR(with phantom power), stereo 3.5mm line in
Tally	Support
POE++	Support
Daisy Chain	Support
General	
Input Voltage	DC12V, POE++(IEEE802.bt)
Operating Temperature	-10℃~50℃
Operating Humidity	≤80%
Color	Black/White
Dimension (LxWxH)	232.5mm×264mm×269mm
Net Weight	4.6KG(10.15LBS)



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