EXPLORE SE

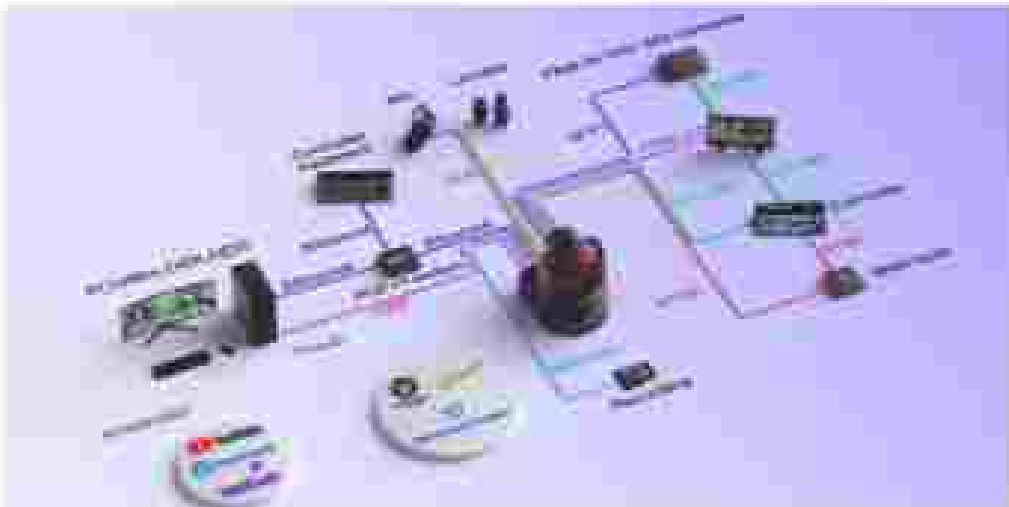Advanced 4K/8p PTZ Camera for immersive broadcast VR video production

Broadcast Level PTZ Camera Disrupts AV Industry

30X | 4K | AUTO-TRACKING
FREED | GENLOCK

SFP+/12G-SDI/HDMI/NDI®/NDI®HX/XLR

High-Performance Sensor and Image Processor

The Explore SE boasts a Sony 1/1.8-inch 8MP CMOS sensor and a state-of-the-art image processor, to deliver stunning UHD images that capture realistic colors and maintain rapid focus.
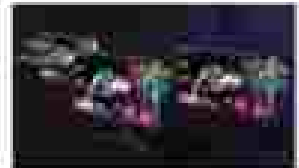
Versatile Output Options

The Explore SE offers diverse output options, enduring 4K60 output through NDI®, NDI®HX, 12G-SDI, HDMI, and SFP+. It provides great flexibility and compatibility to Telycam users.

Genlock Functionality

The Explore SE features Genlock for better synchronization. This allows it to function as the main camera, ensuring precise video synchronization with sub-cameras in broadcasting and live streaming setups.

Robust Audio Capabilities

The Explore SE features 3.5mm line-in and Mini XLR with Phantom power, providing compatibility with various microphones and audio equipment.
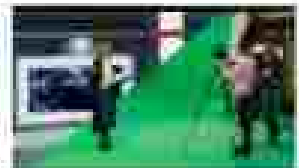
Native AI-Based Auto-Tracking

The Explore SE features AI-based auto-tracking, automatically following subjects to enhance ease of use and capture the moments flawlessly.

FreeD Technology Integration

The Explore SE integrates Free D technology for versatile shooting angles, ideal for both real-world and virtual applications.

MicroSD Card Slots

MicroSD card slots—one for firmware upgrades and the other for local recording. Record directly onto the camera for instant backup during network issues or quick access, ideal for prompt event replay.

Specifications

Camera — Explore 5E

Part NO.:	TLC-900-IP-30-4K(NDI)-AB
Sensor:	1/1.8 inch, 8MP UHD CMOS sensor
Zoom:	30x optical zoom
Lens:	f=6.91~214.64mm, F1.55~F3.6
Horizontal View Angle:	60°(Wide)~2°(Tele)
Vertical Viewing Angle:	34.14°~1.13°
Diagonal Viewing Angle:	67.02°~2.27°
Minimum Working Distance:	Wide: 30cm; Tele: 150cm
S/N Ratio:	≥50dB
Video Format	12G-SDI: 3840*2160P60/50/30/25/29.94/29.97/24/23.98; 1920*1080P60/50/30/25/29.94/29.97/24/23.98; 1920*1080i60/50/29.94, 1280*720P60/50/30/25/29.94/29.97 3G-SDI: 1920*1080P60/29.94/30/25/29.97/23/24/23.98; 1920*1080i60/29.94/30, 1280*720P60/59.94/50/30/29.97/23 HDMI 2.0: 3840*2160P60/50/30/25/29.94/29.97/24/23.98; 1920*1080P60/50/30/25/29.94/29.97/24/23.98; 1920*1080i60/50/59.94, 1280*720P60/50/30/25/29.94/29.97 NDI® / NDI®HX: Main Stream 3840*2160P15~60, 1920*1080P15~60; 1280*720P15~60, 1024*576P15~60; Sub Stream: 640*360P15~30 SRT: 3840*2160P60/50/30/25/29.94/29.97/24/23.98; 1920*1080P60/50/30/25/29.94/29.97/24/23.98; 1920*1080i60/50/59.94, 1280*720P60/50/30/25/29.94/29.97 USB Type-C: NV12: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30 YUY2: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30 MJPG: 3840*2160P30; 1920*1080P60; 1280*720P60; 1024*576P60; 800*448P60; H.264/H.265: 3840*2160P30; 1920*1080P60; 1280*720P60; 1024*576P60; 800*448P60

Image Parameters

Noise Reduction	2D&3D
Minimum lux	0.3 lux(30 IRE Max AGC, 1/30, F1.8)
White Balance	Auto/Manual/ATW/Push/Indoor/Outdoor/Color Temperature
Exposure	Auto/Manual/Shutter Priority/Iris Priority/Brightness Priority
Anti-Flicker	OFF, 50Hz, 60Hz
Image Flip/Mirroring	Supported
Focus Iris Electronic Shutter	Auto/Manual
Gamma	Supported
Backlight Compensation	Supported

IP Streaming

Video Encoding	H.264/H.265
Bitrate Control	Variable bitrate(VBR), Constant bitrate(CBR)
Bitrate Range	1024Kbps~113800Kbps
Network Port Speed	1000M
Protocol	NDI®,NDI®HX, SRT, HTTP, RTSP, RTMP, ONVIF, VISCA over IP(TCP&UDP), VISCA, PELCO-P/D, SSDP, FreeD, NTP, RTP Multicast, WebRTC

Pan/Tilt Movement

Preset	Remote controller, 10; Serial port, 256; Accuracy: 0.1°
Pan Rotation Angle	-170°~+170°
Tilt Rotation Angle	-40°~+90°
Pan Rotation Speed	0.1°~90°/s
Tilt Rotation Speed	0.1°~90°/s

I/O Interface

Control Port	RS232, RS485, RS-22, RJ45, USB, NDI®HX
Video Port	NDI®, NDI®HX, HDMI 2.0, 12G-SDI, 3G-SDI, SRT+, USB Type-C
Audio Port	Mini XLR(with phantom power), stereo 3.5mm line in
Tally	Supported
POE++	Supported
Daisy Chain	Supported

General

Input Voltage	DC12V, POE++(IEEE802.3bt)
Operating Temperature	-10°C~50°C
Operating Humidity	48%
Dimension (L×W×H)	211.5mm×96mm×93mm
Net Weight	4.5kg(4.2LB)
Color	Black/White

Audio Input
3.5mm stereo line in
Mini XLR with phantom power

Remote control port
RS232, RS422, RS485

Power Switch

microSD Card Slot
Support local recording

FW Upgrade

Video Output
SRT, SDI, IP, USB-SDI, 12G-SDI, HDMI, USB Type-C
NDI, NDI-HX

Power Supply
POE++, DC12V