

# EXPLORE SE

Advanced 4K60p PTZ Camera for immersive broadcast VR video production



Broadcast Level PTZ Camera Disrupts AV Industry

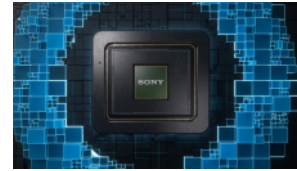
**30X | 4K | AUTO-TRACKING  
FREED | GENLOCK**

**SFP+/12G-SDI/HDMI/NDI®/NDI®HX3/XLR**



## 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 UHD images that capture realistic colors and maintain rapid focus.



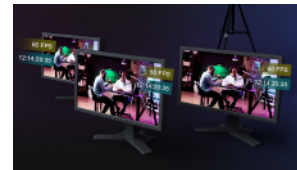
## Versatile Output Options

This Explore SE offers diverse output options, delivering 4K60p output through NDI®, NDI®HX3, 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.



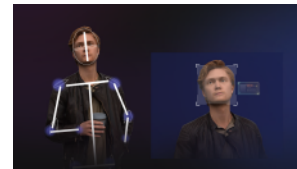
## Robust Audio Capabilities

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 FreeD technology for versatile shooting angles, ideal for both real-world and virtual applications.



## MicroSD Card Slots

The Explore features two 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 review.



## Specifications

| Camera                   | Explore SE                                                                                                                                                                                                                                                                                       |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number              | 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    | 63°(Wide)~2°(Tele)                                                                                                                                                                                                                                                                               |
| Vertical Viewing Angle   | 34.14°~1.12°                                                                                                                                                                                                                                                                                     |
| Diagonal Viewing Angle   | 67.08°~2.27                                                                                                                                                                                                                                                                                      |
| Minimum Working Distance | Wide: 30cm; Tele: 150cm                                                                                                                                                                                                                                                                          |
| S/N Ratio                | ≥50dB                                                                                                                                                                                                                                                                                            |
| Video Format             | 12G-SDI:<br>3840*2160P60/50/30/25/59.94/29.97/24/23.98;<br>1920*1080P60/50/30/25/59.94/29.97/24/23.98;<br>1920*1080I60/50/59.94; 1280*720P60/50/30/25/59.94/29.97                                                                                                                                |
|                          | 3G-SDI:<br>1920*1080P60/59.94/50/30/29.97/25/24/23.98;<br>1920*1080I60/59.94/50; 1280*720P60/59.94/50/30/29.97/25                                                                                                                                                                                |
|                          | HDMI2.0:<br>3840*2160P60/50/30/25/59.94/29.97/24/23.98;<br>1920*1080P60/50/30/25/59.94/29.97/24/23.98;<br>1920*1080I60/50/59.94; 1280*720P60/50/30/25/59.94/29.97                                                                                                                                |
|                          | NDI® / NDI®HX3:<br>Main Stream: 3840*2160P15~60; 1920*1080P15~60;<br>1280*720P15~60; 1024*576P15~60;<br>Sub Stream: 640*360P15~30                                                                                                                                                                |
|                          | SFP+:<br>3840*2160P60/50/30/25/59.94/29.97/24/23.98;<br>1920*1080P60/50/30/25/59.94/29.97/24/23.98;<br>1920*1080I60/50/59.94; 1280*720P60/50/30/25/59.94/29.97                                                                                                                                   |
|                          | USB Type-C:<br>NV12: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30<br>YUYV: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30<br>MJPG: 3840*2160P30; 1920*1080P60; 1280*720P60;<br>1024*576P60; 800*448P60<br>H264/H265: 3840*2160P30; 1920*1080P60; 1280*720P60;<br>1024*576P60; 800*448P60 |

## Image Parameters

|                               |                                                                |
|-------------------------------|----------------------------------------------------------------|
| Noise Reduction               | 2D&3D                                                          |
| Minimum lux                   | 0.5 lux(50 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~122800Kbps                                                                                                                                   |
| Network Port Speed | 1000M                                                                                                                                                 |
| Protocol           | NDI®, NDI®HX3, SRT, HTTP, HTTPS, RTSP, RTMP, RTMPS, ONVIF, VISCA over IP(TCP&UDP), VISCA, PELCO P/D, SSDP, FreeD, NTP, RTP Multicast, WebRTC, MPEG-TS |

## Pan/Tilt Movement

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Preset              | Remote controller: 10; Serial port: 256; Accuracy: 0.1° |
| Pan Rotation Angle  | -176°~+176°                                             |
| 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®, NDI®HX3, HDMI 2.0, 12G-SDI, 3G-SDI, SFP+, USB Type-C |
| Audio Port   | Mini XLR(with phantom power), stereo 3.5mm line in         |
| Tally        | Supported                                                  |
| POE++        | Supported                                                  |
| Daisy Chain  | Supported                                                  |

## General

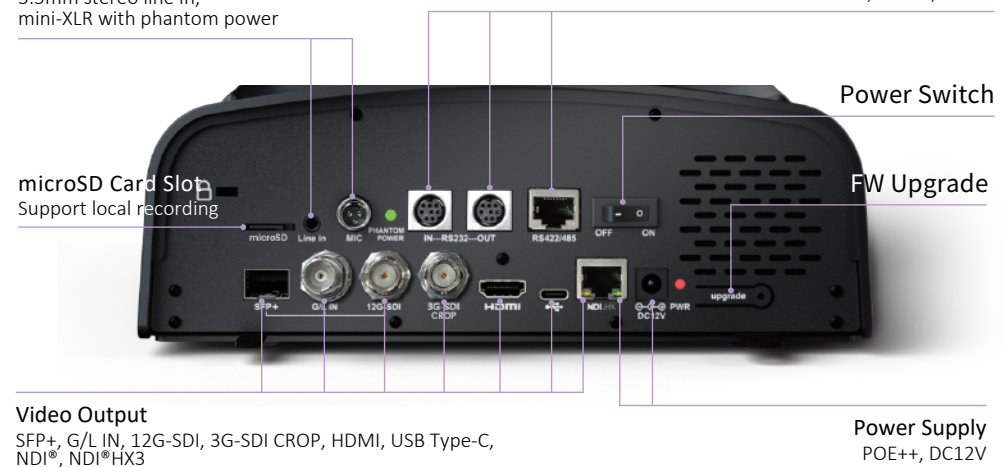
|                       |                           |
|-----------------------|---------------------------|
| Input Voltage         | DC12V, POE++(IEEE802.3bt) |
| Operating Temperature | -10℃~50℃                  |
| Operating Humidity    | ≤80%                      |
| Dimension (L×W×H)     | 232.5mm×264mm×269mm       |
| Net Weight            | 4.6kg(4.2LBS)             |
| Color                 | Black/White               |

## Audio Input

3.5mm stereo line in,  
mini-XLR with phantom power

## Remote control port

RS232, RS422, RS485



## Video Output

SFP+, G/L IN, 12G-SDI, 3G-SDI CROP, HDMI, USB Type-C,  
NDI®, NDI®HX3

## Power Supply

POE++, DC12V