

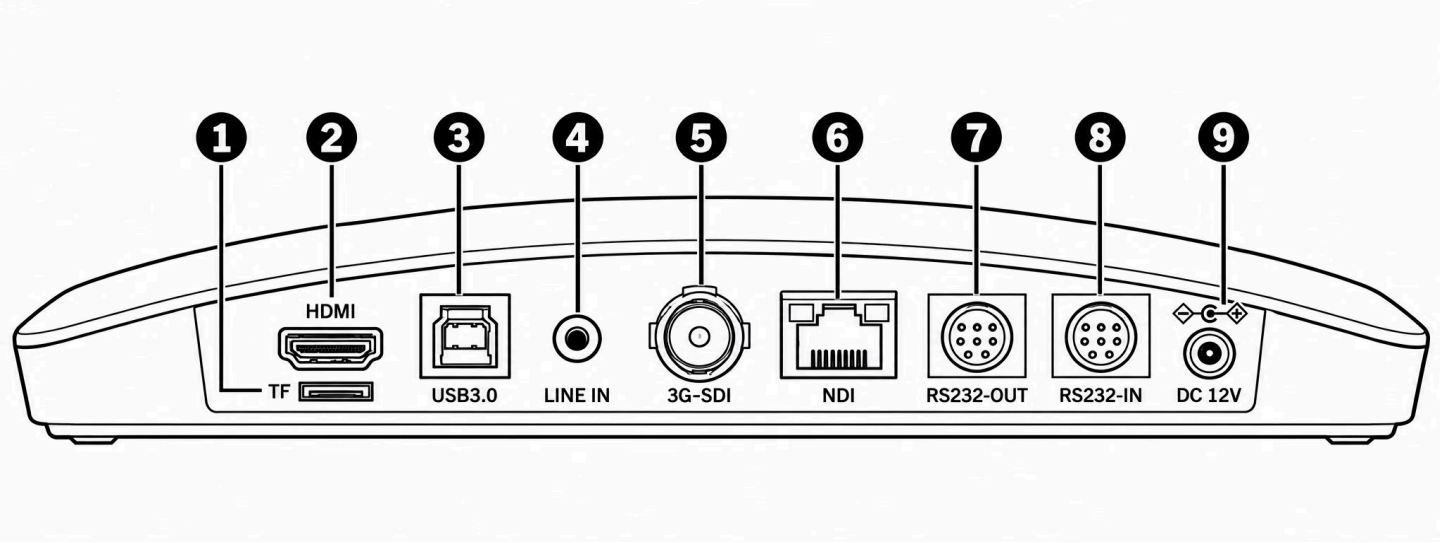
PTZOptics SimplTrack3

Technical Specifications

Technical Specs

Model Information

Feature	Value
Official SKU	`HC20X-SIMPLTRACK3`
Model Name	`SimplTrack3`



SimplTrack3 Connection List

1. TF (MicroSD) Card Slot
2. HDMI 2.0 Output
3. USB 3.0 (Type-B)
4. 3.5mm Audio Input
5. 3G-SDI Output
6. NDI / LAN (RJ45)
7. RS-232 Output
8. RS-232 Input
9. DC 12V Power

Camera & Lens

Feature	Specification
Main Lens Resolution & Frame Rate HDMI, SDI, NDI	**1080p** - 60/50/30/25 **720p** - 60/50
Main Lens Resolution & Frame Rate USB 3.0	**1080p60** **1080p30** **720p30** **360p30**
Sensor	Sony 1/2.8 inch, CMOS, Effective pixels: 2.14M
Scanning Mode	Progressive
Main Lens Focal Length (Zoom)	20X Optical Zoom f = 4.7mm ~ 94mm
Iris	F1.6 - F3.5
Reference Camera	8X Digital Zoom, 1/2.8” Exmore sensor, 2.14 Mega Pixel, 2.4mm
Video Based Auto-Tracking	Supported
Maximum Tracking Distance (w/ Reference Camera)	55 feet / 16.8 meters
Maximum Tracking Distance (w/o Reference Camera)	100 feet / 33 meters
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/1 ~ 1/10,000s
White Balance	Auto Mode, Manual Mode, Indoor Mode, Outdoor Mode, One Push WB, Static
Backlight Compensation	Supported
Horizontal Field of View	3° ~ 59.5°

Feature	Specification
Vertical Field of View	2° ~ 36°
Reference Horizontal Field of View	86°
Reference Vertical Field of View	52°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	120°/second down to ultra slow 0.1°/second
Tilt Speed Range	90°/second down to ultra slow 0.1°/second
Image Flip	Supported
Image Mirror	Supported
Image Freeze	Not Supported
POE	Supported 802.3af

Video Output Reference

Feature	HDMI	3G-SDI
Maximum Resolution	**1080p @ 60fps** (1920 × 1080)	**1080p @ 60fps** (1920 × 1080)
Connector	HDMI	BNC (locking)
Signal Type	Uncompressed Digital	3G-SDI (Level-A or Level-B)
Embedded Audio	✅ Yes	✅ Yes
Typical Cable Length	~49 ft (15 m) without extenders	~200–328 ft (60–100 m)

Connections

Feature	Specification
Operating System	Windows 7 / 8.1 / 10 / 11 / Mac OS X+, Linux, Android (Tracking Software is Windows Only)
Color System/Compression	H.264 & MJPEG & YUY2
Video Format	H.264: Max resolution: 1920x1080@30, MJPEG: Max resolution: 1920x1080@30, YUY2: Max resolution: 1920x1080@30
USB Audio	Supported
UVC Version	UVC 1.1 ~ 1.5
UVC Control	Supported
Video Compression	H.264, H.265
Video Stream	**Optical Lens:** First Stream, Third StreamP, **Digital Reference Camera:** Second Stream
First Stream Resolutions	1920x1080, 1280x720, 640x360, Note: Resolutions and frame rates can be adjusted within the Web UI.
Second Stream Resolutions	1280x720, 640x360
Third Stream Resolutions	1920x1080, 1280x720, 640x360
Video Bit Rate	First Stream: 32kbps ~ 62000kbps, Second Stream: 32kbps ~ 62000kbps
Bit Rate Type	Constant Bit Rate (CBR), Variable Bit Rate (VBR)
Frame Rate	**50Hz:** 1 ~ 50 fps, **60Hz:** 1 ~ 60 fps
Audio Compression	AAC
Audio Bit Rate	48kbps, 64kpbs, 96kbps, 128kbps

Feature	Specification
Supported Protocols	TCP or UDP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF, NDI, Multicast, etc.

Input & Output Interface

Feature	Specification
HD Output	1x RJ45: 10/100/1000M Adaptive Ethernet Port, 1x HDMI: Version 2.0, 1x USB 3.0: Type B, 1x 3G-SDI: BNC type, 800mVP-p, 75Ω, Along to SMPTE 424M standard
Audio Interface	1x 3.5mm Line level Input
Communication Interface	1x 8-pin Mini DIN RS232 Input, Max distance: 98.5ft / 30m, Protocol: VISCA / Pelco-D / Pelco-P, 1x 8-pin Mini DIN RS232 Output, Max distance: 98.5ft / 30m,Protocol: VISCA / Pelco-D / Pelco-P
IR	4x IR Addresses, Max distance 30ft / 9m
Power Jack	JEITA Type (DC IN 12V 2.5A)

Front Status LED Indicators

The camera front panel features a blue **Power LED** and a green **Standby Status LED**:

Camera State	Power LED (Blue)	Standby LED (Green)
Power-on (initial boot)	On	On
Normal operation (idle, no control)	Steady On	Off
Receiving IR remote signal	Steady On	Flashes once
Standby mode	On	On

Camera State	Power LED (Blue)	Standby LED (Green)
Privacy Mode	On	Flashes continuously

Physical Specifications

Feature	Specification
Dimensions(L x W x H)	9.6” L x 6.1” W x 6.4” H / 243mm L x 157mm W x 163mm H
Weight	5.7 lbs, 2.59 kg
Input Voltage	DC 12V / PoE(802.3af)
Current Consumption	Max 1.0A
Power Consumption	Max 12W
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Humidity Range	10% - 80%
Mounting Insert	1/4 20”

Compliance

The SimplTrack3 is an NDAA Compliant camera.

Covered by one or more claims of the HEVC patents listed at patentlist.accessadvance.com



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