

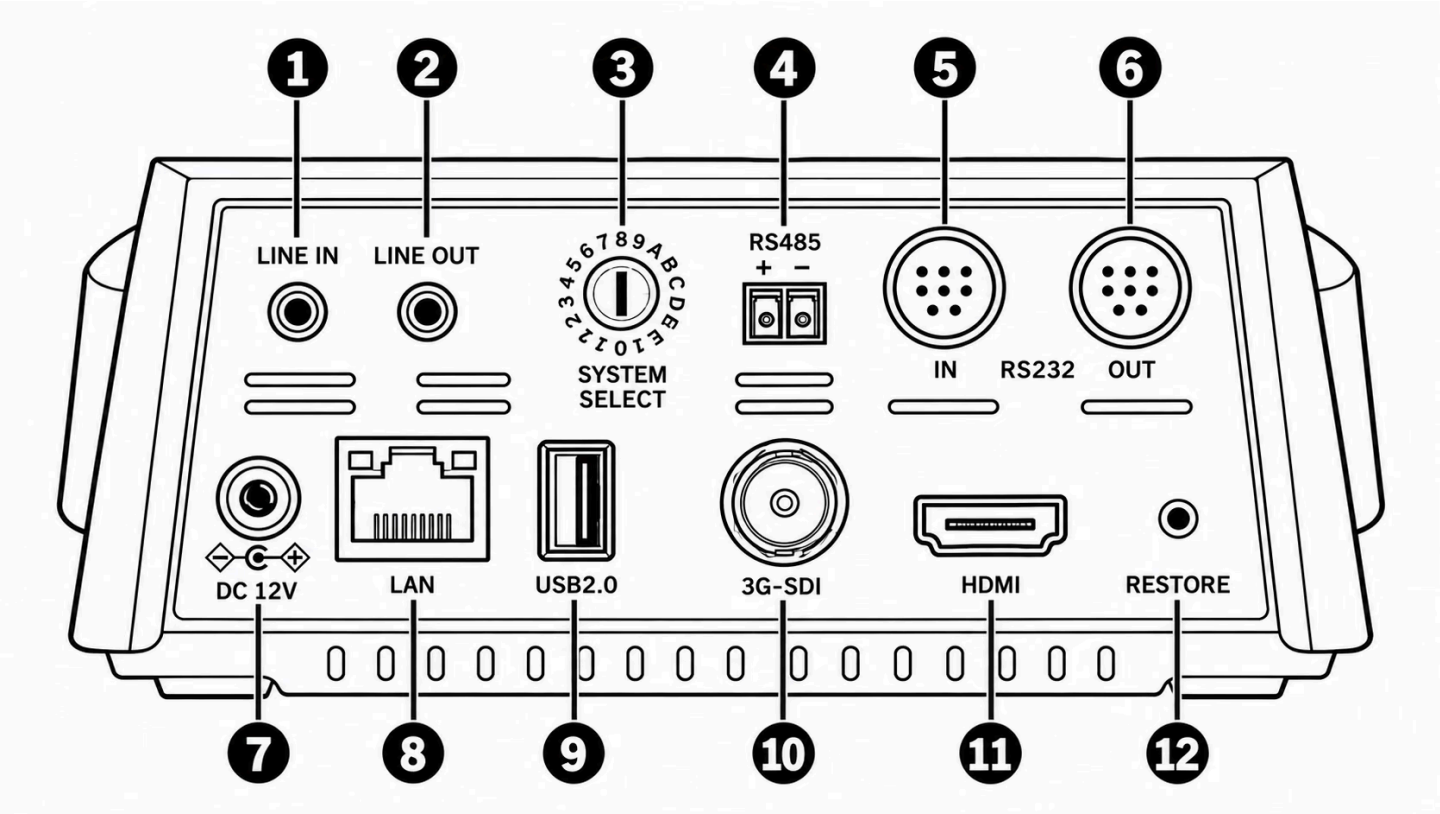
PTZOptics Move 4K

Technical Specifications

Technical Specs

Model Information

Feature	Value
Official SKU	`PT12X-4K-GY-G3`, `PT12X-4K-WH-G3`, `PT20X-4K-GY-G3`, `PT20X-4K-WH-G3`, `PT20X-4K-RD-G3`, `PT30X-4K-GY-G3`, `PT30X-4K-WH-G3`
Model Name	`Move 4K`



Move 4K Connection List

1. 3.5mm Audio Input
2. 3.5mm Audio Output
3. Resolution Dial
4. RS-485 Interface
5. RS-232 Input

6. RS-232 Output
7. DC 12V Power
8. NDI HX LAN
9. USB 2.0
10. 3G-SDI
11. HDMI 2.0 Output
12. Restore Button

Camera & Lens

Feature	Specification
Resolution & Frame Rate HDMI	**3840x2160p** - 60/59.94/50/30/29.97/25 **1920x1080p** - 60/59.94/50/30/29.97/25 **1920x1080i** - 60/59.94/50 **1280x720p** - 60/59.94 **1024x576** **720x480** **720x408** **640x480** **640x360** - 60/59.94/50/30/29.97/25
Resolution & Frame Rate 3G-SDI	**1920x1080p** - 60/59.94/50/30/29.97/25 **1920x1080i** - 60/59.94/50 **1280x720p** - 60/59.94 **1024x576** **720x480** **720x408** **640x480** **640x360** - 60/59.94/50/30/29.97/25
Resolution & Frame Rate USB	**3840x2160p** - 30/25/24/20/15/10/7.5/5 **1920x1080p** - 30/25/24/20/15/10/7.5/5 **1280x720p** - 30/25/24/20/15/10/7.5/5 **1024x576** - 30/25/24/20/15/10/7.5/5 **720x480** - 30/25/24/20/15/10/7.5/5 **720x408** - 30/25/24/20/15/10/7.5/5

Feature	Specification
	640x480 - 30/25/24/20/15/10/7.5/5 **640x360** - 30/25/24/20/15/10/7.5/5
Resolution & Frame Rate NDI Stream 1:	3840x2160, 1920x1080, 1280x720, 1024x576, 720x480, 720x408, 640x480, & 640x360. **ALL capable of 1 ~ 60 FPS**
Resolution & Frame Rate NDI Stream 2:	720x480, 720x408, 640x480, 640x360, 480x320, 320x240. **ALL capable of 1 ~ 60 FPS**
Lens	**(12X)** Sony 1/2.5 inch, CMOS
	(20X) Sony 1/1.8 inch, CMOS
	(30X) Sony 1/1.8 inch, CMOS
Image Sensor	**(12X)** 8.51MP, Effective Pixels: 8.29M
	(20X) 8.42MP, Effective Pixels: 8.29M
	(30X) 8.42MP, Effective Pixels: 8.29M
Optical Lens Focal Length (Zoom)	**(12X)** f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6
	(20X) f = 6.25mm ~ 125mm, F1.58 ~ F3.95
	(30X) f = 7.1mm ~ 210mm, F1.61 ~ F5.19
Maximum Tracking Distance	**(12X)** 202' (61.57m)
	(20X) 264' (80.47m)
	(30X) 334' (101.80m)
Optical Lens Field of View Horizontal & Vertical	**(12X)** H 6.9° ~ 72.5° V 3.9° ~ 44.8°
	(20X) H 3.5° ~ 60.7° V 1.9° ~ 34.1°
	(30X) H 2.5° ~ 59.2° V 1.4° ~ 34.6°

Feature	Specification
Display Field of View	**(12X)** 82.8°
	(20X) 66.6°
	(30X) 66.7°
Min Lux	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
Pan Movement Range	±170°
Tilt Movement Range	-30° ~ +90°
Pan Speed	0.7°/s ~ 100°/s
Tilt Speed	0.7°/s ~ 69.9°/s
Presets	255 Presets
Preset Accuracy	0.1º
Image Flip, Mirror, and Freeze	Supported

Video Output Reference

Feature	HDMI	3G-SDI
Maximum Resolution	**4K @ 60fps** (3840 × 2160)	**1080p @ 60fps** (1920 × 1080)
Connector	HDMI 2.0	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)

Physical Specifications

Feature	Specification
Dimensions (L x W x H)	**(12X)** 6.65” L x 5.57” W x 7.91” H / 169mm L x 141.5mm W x 201mm H
	(20X) 6.65” L x 5.57” W x 7.91” H / 169mm L x 141.5mm W x 201mm H
	(30X) 7.12” L x 6.69” W x 8.98” H / 181mm L x 170mm W x 228mm H
Weight	**(12X)** 3.25 lbs (1.47 kg)
	(20X) 3.25 lbs (1.47 kg)
	(30X) 4.41lbs (2.0 kg)
Working Environment	Indoor
Humidity Range	10% - 80%
Operating Temperature	14°F ~ 104°F (-10°C ~ 40°C)
Storage Temperature	-40°F ~ 140°F (-40°C ~ 60°C)

Connections

Feature	Specification
RJ45	10/100/1000M Adaptive Ethernet Port, NDI HX enabled
HDMI	Version 2.0
3G-SDI	BNC Type, 800mVP-p, 75Ω, Along to SMPTE 424M,standard
USB 2.0	Type A

Feature	Specification
Compression Standards	YUY2 / MJPEG / H.264 / H.265
Audio Interface	3.5mm Line level Input & Output
RS232 Input	8-pin Mini DIN RS232 Input, Max distance: 98.5ft / 30m, **Protocol**: VISCA / Pelco-D / Pelco-P
RS232 Output	8-pin Mini DIN RS232 Output, Max distance: 98.5ft / 30m, **Protocol**: VISCA / Pelco-D / Pelco-P
RS485 Input / Output	2-pin Phoenix port RS485 Input / Output, Max distance: 3,937ft / 1200m, **Protocol**: VISCA / Pelco-D / Pelco-P
IR	4x IR Addresses, Max distance 30ft / 9m
Power Supply	JEITA type (DC IN 12V) / PoE+ (802.3at)
Current Consumption	Max 1.0A

Power Supply

> **INFO**
>
> The IEC 60601-1 certified power adapter is **purchased separately**. The external power adapter included with this device is not IEC 60601-1 certified.
>
> **IEC 60601-1 certified, PTZOptics SKU number:** `PT-PSB-M`
> IEC 60601-1 certified, Manufacturer Model: `EM1024QR(10)`, manufactured by Edac Power Electronics (Suzhou) Co., Ltd. (No. 59, Chang Sheng Road, Sheng Pu, Suzhou Industrial Park, Jiangsu, China).

- **Input:** `100–240 V~` (interchangeable wall-mount)
- **Output:** `12.0 V DC / 2.0 A / 24.0 W`, Efficiency Level VI
- **DC Cable & Plug:** `1200 mm` cable; `5.5 × 5 × 1.0 mm` inner-pin DC plug
- **Camera Max Input Current:** `1.0 A`
- **Replacement Power Supply:** Visit ptzoptics.com/where-to-buy

- **Power over Ethernet (PoE):** Supports PoE+ (IEEE 802.3at). Use a medical-grade PoE+ network switch complying with IEC 60601 or an isolated PoE+ injector.
- **Disconnecting Power / Supply Mains (IEC 60601-1, Clause 8.11.1):** To completely disconnect the camera from power, unplug the external power adapter from the AC wall outlet (or disconnect the PoE+ Ethernet cable). The power adapter plug serves as the disconnect device; do **NOT** position the equipment where it is difficult to reach and unplug.

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
Privacy Mode	On	Flashes continuously

Certifications

- BIS
- CE-EMC
- CE-LVD
- FCC
- REACH
- RoHS
- UKCA

Software Certifications

- NDI HX3

Packing List & Approved Accessories

Use only manufacturer-approved accessories. Compatibility of any third-party accessory must be confirmed with Haverford Systems Inc. before use:

Accessory	Specification / Part Number
AC Power Adapter	PTZOptics SKU `PT-PSB-U` `12.0 V DC / 2.0 A / 24.0 W`
Power Cable	AC power cord (supplied with the adapter; regional mains plug)
RS-232 Cable	8-pin Mini-DIN RS-232 cable (VISCA / Pelco-D / Pelco-P; max `30 m`)
IR Remote Control	IR remote control, 4 IR addresses, control range `9 m` (`30 ft`)
USB Cable	USB cable USB A-A Cable
Lens Cap	Lens cap (supplied with the camera)
Quick Start Guide	Quick Start Guide
AAA Batteries	2 AAA batteries

Compliance

The Move 4K is an NDAA Compliant camera.

- **Country of Origin:** China or Laos.

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



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