PROMON SCOPE G4
High Speed Streaming System

AOS Technologies AG

Imaging for smart decisions...

High Speed results by
slowing down fast events!

Reduce Downtime

Keep manufacturing processes under control and improve performance and quality.

Portable ready to go

Record your high speed machine events and play it back in slow motion to see what is going on.

Ease of Use

Plug in, switch on - ready to go: exactly what you expect from a tool.

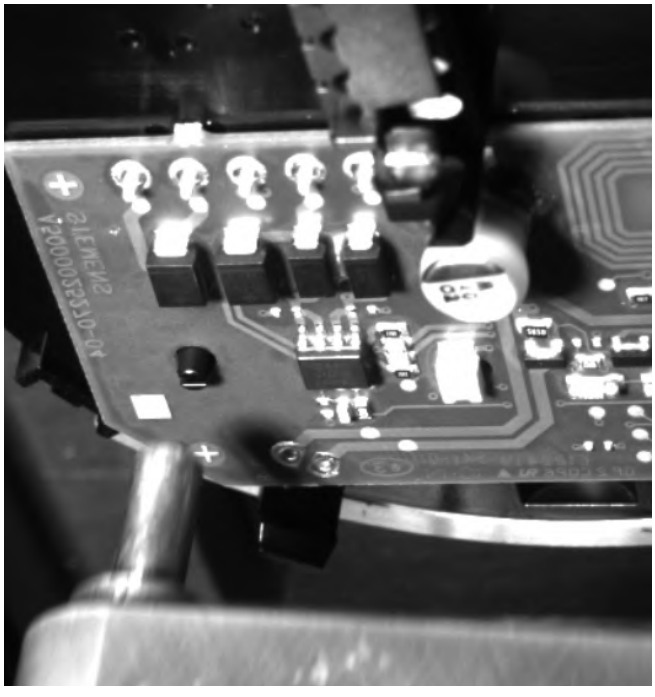
Extensions

Add a second camera to optimize troubleshooting.

PROMON SCOPE G4 – increases productivity and reduces downtime on production and assembly lines.

- **The "oscilloscope of the mechanical engineer" assists in daily routine tasks such as trouble shooting, preventive maintenance and fine tuning of production processes.**
- **Increase your productivity by knowing exactly what is going on in your assembly lines.**

A frame rate of up to 3500 frames per second is more than 100 times faster than standard video and allows you to monitor any process in detail. PROMON SCOPE G4 is the tool for detecting trends and catching those sporadic and intermittently occurring incidents. Fine details for precise motion analysis are made visible by high image resolution. The easy-to-use control panel contains a touch sensitive display for setting up of the camera and immediate playback of sequences. Last but not least, PROMON SCOPE G4 runs on internal battery power for up to 3.5 hours. By adding a second camera, two cameras look at the same spot and catch an event form two different angles.



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PROMON SCOPE G4 | Key Specifications

Typical frame rates vs resolution

	1024	800	720	640	600	512	480	320
1280	203	266	295	330	350	407	433	629
896	311	372	411	459	487	564	598	859
640	378	507	558	621	659	759	804	1137
512	481	618	680	755	800	918	970	1356
384	636	793	869	962	1017	1161	1224	1683

Table shows typical resolution vs. fps, Resolution is freely adjustable within limitations of camera/sensor

Physical specifications Controller

Size & Weight	340 x 240 x 30 mm (13.3 x 9.4 x 1.18 inches) / 2.2 kg
Operating Temperature	-10 … +50 °C / +14 … +122 °F
Storage Temperature	-20 … +60 °C / -4 … +140 °F
Standards	CE, FCC MIL810
Power	15.4V, 5900 mAh Li-Polymer battery (4S1P) Up to 3.5 h with single camera Up to 1,5 h with two cameras connected

Recording time

SSD Size / Camera	Recording time / camera
430GB	30 min

Recording time with above resolution settings @ max fps

Ordering Information Bundle

Model	
PROMON SCOPE G4	**AOS# 671041-30-1100 (color single camera)**
	AOS# 671041-30-1500 (monochrome single camera)
	AOS# 671042-32-1111 (color dual camera)
	AOS# 671042-32-1515 (monochrome dual camera)

Bundle includes:

- PROMON SCOPE G4 controller with software installed.
- 1 or 2 U800 cameras.
- USB3 cables, with lock 3m (9ft)
- Trigger adapter

Order separately:

- USB cables 5m (15feet) or 8m (24feet)

Optical / Camera specifications

Image Sensor	CMOS sensor
Pixel Size	4.8 microns
Sensor Format	1/2" / 6.14mm x 4.92mm
Light Sensitivity	ISO 3600 (monochrome), ISO 2400 (colour) without gain
Dynamic Range	monochrome 8 bit / color 24 bit
Shutter Type	Global, independent of frame rate
Exposure Time	Free adjustable from 59 µsec to 1 / framing rate by software
Lens Mount	C-mount
Interface	Single USB3 link between camera and Control Unit
Mounting Threads	3x M3 thread, bottom or ¼" UNC via mounting plate
Camera Size	30 x 30 x 30 mm / 80 gr 1.18" x 1.18" x 1.18" 0.18lb

Control Unit Specifications

Controller	Compact built control unit, fanless operation. Magnesium alloy housing with all-around elastomeric rubber. IP65 waterproof and dust proof
Display	13,3" full 1920 x 1080 high contrast display with capacitive touch
Control SW	PROMON SCOPE G4 Touch Software installed
Camera Input	Up to 2 cameras via USB3 input, 3m (9 feet) cable, optional up to 8m (24feet)
Trigger Function	Circular buffer recording, parametrized by software
Trigger Input	Trigger Input on controller, features switch closing / opening contact or by software via touch panel
Motion Detection	Movement as trigger detection or as an event marker
Data Storage	Built in 430GB SSD per camera channel
Data Export	Via USB port, Card Slot

Your local AOS partner:

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Specifications are subject to change without prior notice – v06.2026