



The PROMON SCOPE G3 platform increases productivity and reduces downtime on production and assembly lines. PROMON SCOPE G3 is a portable high-speed streaming system that supports two synchronized cameras in its TWIN version. Considered the “oscilloscope of the mechanical engineer” PROMON SCOPE G3 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 – now even synchronized from two different views.

A frame rate of up to 3000 frames per second is 120 times faster than video and allows you to monitor any process in detail. PROMON SCOPE G3 is the tool for detecting trends and catching those sporadic and intermittently occurring incidents. Fine details and textures for precise image 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 G3 runs on internal battery power for up to 3.5 hours. The twin head system offers a complete new view, increases the dynamic range with two cameras looking at the same spot or catches an event from two different angles – or mix and match camera type.

Unique Features

- **Always ready** – Ready to use immediately – No time-consuming installations, setups or configurations necessary. Autonomous operation thanks to built-in battery.
- **Two Cameras** – The TWIN version offers two synchronized views, a new dimension in trouble shooting and optimization possibilities.
- **Economical** – Keep manufacturing processes under control and improve performance and quality.
- **Ease of Use** – Out of the box, plugged in, switched on – ready to go: exactly what you expect from a tool.

PROMON SCOPE G3 / G3 TWIN – Key Specifications

Frame Rate vs Resolution

fps	Resolution 1 (square)	Resolution 2 (rectangular)
30	1280 x 1024	1280 x 1024
50	1280 x 1024	1280 x 1024
90	1280 x 1024	1280 x 1024
100	1280 x 900	1280 x 900
200	1024 x 800	1024 x 800
250	1024 x 700	1024 x 700
300	800 x 608	1024 x 608
375	640 x 480	1024 x 480
500	544 x 352	1024 x 352
560	480 x 640	640 x 480 *
700	544 x 240	1024 x 240
1000	480 x 352	480 x 352
1400	320 x 240	480 x 240
2000	320 x 160	480 x 160
2500	320 x 128	480 x 126
3000	320 x 96	480 x 96

* must rotate camera 90°
 – 40min recording time with above resolution setting @ max fps

Camera / Sensor Specifications

Camera	PROMON 501 color	PROMON 501 monochrome	PROMON 501 near infrared
Light Sensitivity	ISO 2400	ISO 3600	5.56 V/lux-sec
Camera Type	All in one camera with solid lockable connector to control unit		
Sensor Size	5.5 µm pixel size / 2 / 3" (12.76 mm diagonal)		
Camera Mount	C-Mount / CS-Mount		
Connector	Single, all in one connector		
Size	50 x 50 x 62 mm / 160 gr (0.4lb)		
Operating Temperature	-0 ... +45 °C / +32 ... +113 °F		
Storage Temp.	-40 ... +70 °C / -40 ... +158 °F		
Mounting Threads	M4 Mounting threads on all sides UNC ¼" on bottom and side for tripod mounting		
CE	In compliance with relevant standards		



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
Battery	7.4 V, 10280 mAh (typ.) Li-Polymer battery (252P) Up to 3.5 h with single camera Up to 1,5 h with two cameras connected
Trigger Function	Circular buffer recording, Trigger position may be set to 100 % / 90 % / 50 % / 25 % / 10 % / 0 % Pre-post trigger recording
Trigger	Trigger input for switch closing contact / opening contact or by software via touch panel
Synch IO	Strobe out, Synch in line
TWIN Special	Two cameras synchronization or independent useable (color and mono, NIR mix possible)
Motion Detection	Movement as trigger release or as an event marker
Buttons	Three preset buttons user programmable
Storage	Standard memory: 250 GB SSD Disk (approx. 40 minutes recording time) Optional: 500 GB (approx. 80 minutes recording time with single camera head)
Data Export	SD-Card slot, USB 3.0
Size / weight	340 x 240 x 34 mm (13.3 x 9.4 x 1.18 inches) / 2.96 kg
Operating Temperature	-10 °C to 50 °C
Storage Temp.	-20 °C to 60 °C
CE	CE, FCC, IC, UL

Interfaces

IO Plug / Trigger	Connection of camera synch signal und Strobe-signals for the control of an external lighting system Trigger input max +24 V
Data Export	Via USB 3.0 hard disk or SD-Card
Editing Software	Range of functions: – Playback of a sequence – Cutting and editing – Storing as AVI-files optional: Motion analysis software

Data Export

Export to PC	Via USB 3.0 hard disk or SD-Card
Software on PC	Software for installation on PC via download link Functions: – Play back sequences – Cut and edit sequences – Convert to movie formats Optional: Motion analysis software with automatic tracking features
PC Requirements	Win 7/10, 32/64 Bit Graphic card supports full HD resolution 1920 x 1080
Camera on PC	Optional available is package to run your PROMON SCOPE 501 high speed streaming camera on the PC. (see product PROMON 501)

Scope of Delivery

	Battery-powered control unit PROMON 501 camera (camera type defined with order) PC-software with manual and documentation on CD Power supply 110–240 VAC / 19 V / 60 W Cable for camera connection 3.5 m (11 ft) / other lengths on request Desk stand I/O Adapter as per order
Optional	– Replacement battery – Transport case – Optics, lighting and supporting arm – Motion analysis software – Streaming packet for operating the camera on a PC system

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Specifications are subject to change without prior notice – v08.2018