PROMON STREAMER G1 combines the features of a high speed camera with a long record time stand-alone system. The small powerful fan-less controller with built in camera allows the system to be installed in locations where conventional systems are too large. The PROMON STREAMER G1 controller stores up to 30min of high-speed video data. The system can be configured like a conventional PC System by connecting monitor, mouse and keyboard or via remote Ethernet connection.

PROMON STREAMER G1 is ready for 24/7 operation. The trigger input is directly compatible to PLC logic or switch closing contacts. Data may be stored internally and can be transferred via network to a central archive.
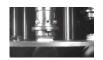
Direct to controller – PROMON STREAMER G1 records and streams image data directly the controller storage without any interaction of a user. Data is instantaneously ready for future analysis or export to standard movie formats.

Long recording times – Recording times of minutes or even hours allow users to capture, analyze and archive a complete process in all detail, important in detecting trends, to catch sporadic and intermittently occurring incidents.

Built for an industrial environment – PROMON STREAMER G1 is a fan-less industrial controller with a small footprint. Start and Stop recording with your PLC – or switch closure.

Image trigger / Event Marker – Extends the versatility of your PROMON system by having the camera self-trigger or insert an event marker in the image sequence when an incident is visually detected.

PROMON STREAMER G1 in milk bottling application, 250fps recording 24/7 in order to eliminate source of sporadic missing bottle caps

PROMON STREAMER G1 Controller

Housing	Aluminium housing fan-less construction for industrial applications
CPU / RAM	Intel® based controller with 16 GB RAM
Disks	System disk: 120 GB SSD with Win10 IoT 64Bit Data disk: 15min, optional 30min (at max res/speed) per Camera
I/O to BNC	Trigger / Sync In / Sync Out 2x I/O configurable with AISv4 IO Mapping tool (set to record, event marker, download to NAS and others)
I/O	1x DisplayPort 2x USB 3.0 2x GigE Lan
Control	Remote Desktop Protocol over Network or local connected Keyboard / Mouse / Monitor Sequence Download over Network (Timed by v4 or manual by user or triggered by event)
Power requirements	9V- 24V / 35W
Operating Temperature	0°C ~ 40°C
Dimensions	108mm(W) x 72mm(H) x 188mm(D) / weight 0.900 Kg

Camera / Sensor specifications

Image Sensor	1280 x 1024 pixel, monochrome or color, max 203 fps @ full resolution 4.8 µm pixel size / 1/2" (6,14 mm x 4,92 mm)
Shutter type	Global, independent of frame rate
Exposure time	User adjustable from 59µsec to 1/fps by software

Software

Software	Comprehensive Imaging Studio v4 software for parametrization, recording, playback and analysis of recordings is already installed in the controller. The software is free to install on as many PC for post-recording analysis.

Possible configurations
Depending upon PROMON STREAMER G1 model if camera is built in or uses cameras connected externally the following configurations are possible, maximum of 2 cameras in combination:

Streamer with built in camera, self-contained operation

Streamer with built in camera, and additional external U750 camera

Streamer with no internal camera, U750 camera connected via single cable to Streamer Controller.

Streamer with no internal camera, 2 x U750 cameras connected via single cables to Streamer Controller.

v1.5

AOS Technologies AG