



PRODUCT LEAFLET

TECHNICAL SPECS

APPLICATION NOTE

## PROMON SCOPE – the complete, ready to use high speed recorder for industrial applications

### Applications

PROMON SCOPE is the ideal compact high speed recorder for:

- Industrial process monitoring
- Web inspection
- Surface inspection
- Flow analysis
- Medical imaging
- Material testing
- Sports / sport equipment analysis
- Motion analysis
- Installation, fine tuning, maintenance and trouble shooting on machines and systems

### Why the PROMON SCOPE?

- Always ready to be used, immediately ready to record image-, analog- and digital process data
- Economic high speed data recorder with a short return of the initial investment. Keep your manufacturing processes under control and improve their performance

Simple to use yet powerful system. Everybody can use it, from design engineers to maintenance technicians, no special training needed

### Unique features

High image quality with a frame rate to record industrial processes. Frame rate of 300 frames per second is 12 times faster than video and allows you to monitor a process in detail.

Long recording time allows to record, analyse and archive a complete process for hours. Important to detect trends and to catch those sporadic and intermitted occurring incidents.

External analog data like voltage, current, pressure and digital status lines like PLC signals can be integrated to the high speed video. Get extra insight by having this information combined with the image sequence

Image trigger – extend the versatility of your PROMON by letting the camera trigger the system when an incident is visually detected

Event marker - mark the critical parts of your sequence for a fast analysis

Touch-sensitive display - setup the camera, playback the sequences with your fingertips, same way as you control your MP3-Player.



PROMON PRO camera module



Touchscreen - control the PROMON SCOPE with your fingertip. Use the entire screen area for your 'gestures' - like with your music player



Integrate external signals (i.e. voltage) with your images

Your local AOS partner:

Specifications are subject to change without prior notice – v08.2011



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## Versions

- **PROMON SCOPE 1:** Records images to the DRAM of the control unit. Sequence length up to 8 secs\*. Manual data export possible.
  - **PROMON SCOPE 2:** Records images to the Hard Disk Drive of the control unit. Sequence length up to 40 minutes\*. Manual data export possible.
- \* sequence length based on 640 x 480 pixels @ 250fps. Reducing resolution and/or frame rate results in longer recording lengths.

Other systems and customized configurations are available on request

## Accessories

The PROMON SCOPE comes complete with all necessary accessories:

- PROMON PRO camera module
- All cables, power supplies etc

For an immediate start, we offer a 'accessory kit' with carefully selected accessories, suitable for most industrial applications:

- lens
- compact LED light
- Camera mount
- Transport case

Other accessories like optical systems (i.e. borescopes), lights, transport cases on request.

AOS provides also customized PROMON systems with functions, features and components especially selected and designed for your application. Integration into existing vision systems is also possible.

## Options and extensions

<b>Option 1</b>	Extended speed up to 600 fps (320 x 240 pixels)
<b>Option 2</b>	Extended speed up to 1000 fps (160 x 120 pixel)
<b>Option 3</b>	2nd AD-Channel / 2nd EventMarker Input

For applications where mobility is essential, an optional battery pack is available.

## Technical key specifications

<b>Image resolution (standard)</b>	640 x 480 pixels, mono
<b>Frame rate (standard)</b>	250fps (640 x 480 pixels) resp. 300fps (640 x 400 pixels)
<b>Frame rate (optional)</b>	600fps (320 x 240 pixels) with option 1 1000fps (160 x 120 pixels) with option 2
<b>Recording time (PROMON Scope 1)</b>	8 secs (longer at reduced frame rates and/or resolution)
<b>Recording time (PROMON Scope 2)</b>	40 minutes (longer at reduced frame rates and/or resolution)
<b>Data export</b>	USB2.0 (USB-stick or HDD with USB interface) eSATA (HDD with eSATA interface)
<b>AD input (1 channel standard, 2nd channel optional)</b>	5, 12 or 24VDC, 1 sample / frame, 10bit
<b>Size/weight (Control unit)</b>	320 x 210 x 75mm / 3.7kg
<b>Size/weight (Camera module)</b>	71 x 71 x 110mm / 0.75 kg