



AOS
Technologies AG

PROMON Streaming - video on PC

- up to 1100 frames/sec
- direct to harddisk
- hours of recording



PRODUCT LEAFLET

TECHNICAL SPECS

APPLICATION NOTE

PROMON Streaming – technology to record high speed video to PC

PC-based video streaming system with 1...1100 frames/sec for industrial process analysis and line inspection.

Applications

High speed image recording with PROMON Streaming is ideal for:

- Industrial process monitoring
- Web inspection
- Surface inspection
- Medical imaging
- Material testings
- Motion analysis
- Installation, fine tuning, maintenance and trouble shooting on machines and systems

Why PROMON Streaming?

- The PROMON Streaming is the ideal package to setup easily an image streaming system. It includes a robust camera module, the powerful AOS PROMON Studio software and accessories like cables and power supply. It can be installed on portable computers (Notebooks, Laptops or Tablet-PCs) as a portable high speed camera system for trouble-shooting and maintenance jobs. On (semi-)stationary PCs like Desktop- or Lunchbox-PCs, it is ideal for temporary or permanent line inspections and can record hours.

Unique features

- Install PROMON Streaming on your existing PC
- Choose from 3 different camera modules for a best fit to your application
- Connect up to 4 cameras to one host PC
- Stream image sequences for hours directly to the PC's harddisk drive
- Alternatively, configure a portable high speed camera system using the same camera module and software and record sequences for several seconds
- Analyse fast movements and events in ultra slow motion - frame by frame
- Save and archive relevant image sequences for future reference

Ready to use system

- For an immediate start, and ideal for industrial troubleshooting and maintenance, the PROMON SCOPE offers unmatched benefits. Refer to its product leaflet for details:



- PROMON SCOPE:
- ready-to-use system
 - 40 minutes capacity
 - Battery powered
 - Touchscreen operation



PROMON 300 Cameramodul (lens not included)



PROMON 500 Cameramodul (lens not included)

PROMON 300 and 500 camera modules

Both camera modules feature a robust all-aluminium housing for high reliability and long product life. They share these specifications:

Data Interface	Gigabit Ethernet ('GigE')
max. distance camera - host PC	100m (300 feet)
Supply power	12VDC via external power supply
I/O connectors	Hirose (I/O signals, power), RJ45 (Data)

Individual specifications of the camera modules:

	PROMON 300	PROMON 500
Frame at VGA (640x480)	300fps	500fps
Alternative frame rates	1'000fps (160 x 120 pixels) 600fps (320 x 240 pixels)	1'100Bps (544 x 272 pixels) 375Bps (800 x 600 pixels) 200Bps (1280 x 720 pixels) 100Bps (1280 x 1024 pixels)
Sensor (type, size)	color or mono, 1/3"	mono, 2/3"
Size / weight (w/o lens)	44 x 29 x 67mm / 0.12 kg	52 x 52 x 64mm / 0.34kg

* frame rate depends also on PC performance and system settings

AOS PROMON Studio 'Streaming' software

The AOS PROMON Studio 'Streaming' software allows a fast and simple setup of your high speed camera system.

	Notebook-, Laptop- and Tablet-PC	Desktop-, Tower- and Lunchbox PC
Camera modules	PROMON 300 PROMON 500	PROMON 300 PROMON 500
No. of cameras / system	1	up to 4 (opt.)
Recording to DRAM	yes 8 secs (300fps@VGA)*	yes 4.5 secs (500fps@VGA)*
Streaming to HDD/SSD	possible** (functionality and performance depending on PC and its settings)	yes 130 min @ 300fps/VGA * 80 min @ 500fps/VGA *

* the indicated sequence length can be extended by reducing the frame rate resp. image resolution

** no guarantee of the achievable frame rate can be given; nor for recording without loosing images

Minimal system requirements

min. system requirements	supporting Jumbo frames (9k or higher)
min. DRAM capacity	2GByte
Data interface	Gigabit Ethernet, 1 free PCIe slot
Supported operating systems	MS Windows XP (32 bit), Win7 (32 bit)

please inquire for the complete minimal system requirements

Scope of supply

The PROMON Streaming set includes:

- Camera module (PROMON 300 or PROMON 500, to be specified on the PO)
- AOS PROMON Studio Streaming software (on CD), incl. Dongle key
- Data cable (5m), power supply, Pigtail cable (Hirose - DC in, Trigger in)
- Manual in English
- Installation support is available against a fee (inquire for details)

Your local AOS partner::

Specifications are subject to change without prior notice – v03.2012



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