X-PRI *high-speed camera*

- Frame rates 30...1000 fps at 800 x 600 pixels
- Compact
- Solid, all metal housing
- Gigabit Ethernet Data Interface
- «Image while recording»
- No dedicated camera controller necessary
- Built-in battery
- Stand-alone operation
- Many options available

Similar to its successful predecessor, the AOS PRIVO, X-PRI keeps the unique features like built-in battery, stand-alone operation (the camera is not connected to the control PC during recording) and ultra compact size, but offers some new and practical features like «image while recording» to make it even more versatile. X-PRI is a one-camera-per-PC system, connecting to any WINDOWS PC via the fast Gigabit Ethernet data interface.

Key features

- Gigabit Ethernet Date Interface
- «Image-while-recording»: Live image visible while camera is in recording mode
- Built-in rechargable battery with a capacity of 1 hour in standby mode or 1/2 hour in active mode
- 1 status input line to integrate external status signals
- Multi-buffer mode for multiple session recordings
- Selectable dynamic level for best image quality (optional)
- «AOS Imaging Studio LIGHT» software

Applications

The X-PRI is particularly suitable for all applications where a compact and portable yet robust camera is essential:

- Industrial applications such as the installation and setting up of machines and assembly lines or subsequent troubleshooting.
- Research applications in mechanical-, electrical- and process engineering, materials stress testing, medical research, sports analysis.

Advantages

- Robust design for trouble-free operation
- Compact size and low weight for mobile applications
- Dynamic range control for optimization of image quality and sequence length (effectively doubling memory at no extra cost)
- Can be extended to suit tomorrow's application requirements
- Simple yet powerful control software

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AOS products and solutions are available from distributors and OEM partners.
Please contact us for details of your local distributor.

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Options

To increase X-PRI's versatility, many options are available:

- high-resolution mode (1280 x 1024 @ 500fps)
- Image memory extensions
- Extended speed range (up to 4'000fps)
- User-selectable dynamic range (5-, 8- or 10bit)
- Additional I/O-channels (up to 4)
- CF slot (accepting i.e. Compact Flash Memory cards)
- AOS Imaging Studio SW (Full version), offering:
  - On-screen display (OSD)
  - HQ Image Algorithm
  - «Auto-save» to automatically download image data after recording. Restart of recording after completing download possible
- Handgrip, making handling even more convenient

Options can be ordered with the camera, or ordered later.

Software

AOS Imaging Studio LIGHT included with all X-PRI cameras.

Simple to operate, yet highly powerful and suited also for the most demanding application

Accessories

- Trigger devices (incl. Radio controlled devices)
- FibreOptic Data interfaces
- Optical Systems, lenses

Services

- Project engineering
- Customizing (Hard- and Software)
- Warranty extensions
- Maintenance contracts
- Financing, Leasing

X-PRI specifications (standard)

Sensor	800 x 600 pixels, color or monochrome
Pixel size	12µm
Frame rate	1'000fps at full resolution
Shutter time	4µsec – 1/fps, global shutter.
Dynamic range	24-bit color, 8-bit monochrome
Input / output	14-pin connector heavy-duty type, lockable
Inputs	12V DC (9…16V DC), set-to-rec, trigger, remote-on
Outputs	Strobe out, armed
Input status line	1 status line (input / event marker)
Data interface	Gigabit Ethernet
Image memory	1.3GB DRAM (optional 2.6GB or 5.2GB)
Sequence length	5.4 / 10.8 / 21.6 sec @ full resolution / 500fps
Temperature range	Operation: 0…+45°C, Storage: -10…+80°C
Housing	Solid design, extruded and anodized aluminum housing
Size / weight	71 x 71 x 121mm / 900gr
Lens mount	C-mount. 2/3" lenses cover the full format
Camera mounts	Standard $^3/_8$" thread with $^1/_4$" insert.
Approvals / certification	In compliance with relevant standards.

X-PRI specifications (options)

High resolution mode	1280 x 1024 pixels, color or monochrome
Frame rate	4'000 fps at reduced resolution
Dynamic range	5-/8-/10-bit, user selectable
Multi-camera sync	Sync in / out
In/output status lines	3 extra status lines (totally max. 4 status lines)
Extension slot	CF (Compact Flash Memory)

Specifications are subject to changes without prior notice – v0708

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