

X-PRI high-speed camera, model F1 and F2

- 2 pre-configured X-PRI models with the most popular feature sets
- Gain control for best image quality
- Solid, all metal housing
- Gigabit Ethernet Data Interface
- «Image while recording»
- No dedicated camera controller necessary
- Built-in battery
- Stand-alone operation



In addition to the standard X-PRI, 2 pre-configured models which reflect the most popular feature sets are now available. No more guessing, no more fumbling...but an even better price/value ratio. 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 rechargeable 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

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



Model overview

Specification	Value	X-PRI F1	X-PRI F2	X-PRI (Standard)
Max. resolution	Pixel	800 x 560	1280 x 1024	800 x 600
Reduced resolution	Pixel	400 x 300 –	640 x 480 –	400 x 300 200 x 150
Frame	fps	30...1000	30...500	30...1000
Frame rate up to 1000	fps	Incl.	No	Incl.
Frame rate up to 4000	fps	nA	nA	Option 3
Image memory	GByte	1.3/2.6/5.2	1.3/2.6/5.2	1.3/2.6/5.2
Gain Control	lo/mid/hi	Incl.	Incl.	Option 1
Full resolution (1280 x 1024) and selectable ROI		nA	nA	Option 2
I/O Channel, built-in		1	1	1
I/O Channels, additional		nA	nA	Option 4
Sync in/out, multi cam mode		nA	nA	Option 5
AOS Imaging Studio		FULL	FULL	Option 6
Upgrade to AIS FULL		AIS FULL incl.	AIS FULL incl.	Option 6/7
Upgradeable with options		No	No	Yes
CF interface		nA	nA	optional
Video out interface (SDI, PAL or NTSC)		nA	nA	optional
IRIG-B interface		nA	nA	optional

Specifications

Sensor	See above, color or monochrome
Pixel size	12µm
Frame rate	See above
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 F1	3/6/12 sec at 800 x 560 / 1000fps
Sequence length F2	2/4/8 sec at 1280 x 1024 / 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.

Models

2 pre-configured X-PRI models:

X-PRI F1: 800 x 560, up to 1000 fps, Gain Control, AIS FULL

X-PRI F2: 1280 x 1024, up to 500fps, Gain Control, AIS FULL

X-PRI F1 and F2 are not upgradeable with options.

If a camera is needed with options and/or extensions, X-PRI Standard is the ideal model for such customer-specific versions

AOS Technologies AG
 Taefernstrasse 20
 CH-5405 Baden-Daettwil
 Switzerland
 Phone +41 56 483 34 88
 Fax +41 56 483 34 89
 www.aostechnologies.com
 Info@aostechnologies.com



Imaging for smart decisions