M-PRI
High Speed Camera
Capture the Moment!
Exceptionally light sensitive high-speed camera

Superior image quality
1280 x 800 pixel resolution at up to 4000 fps M-PRI delivers crisp clear images.

Packed with memory
M-PRI is available with stunning memory sizes of 8 / 16 / 32 / 64 / 128 GB.

Software
Discover the Imaging Studio v4 Software Suite, an integral part of this cutting-edge camera.

Extensions
Enhance the functionality of the camera by adding options like a SnapOn Battery or a built-in SSD.

M-PRI – a very light sensitive high-speed camera.

- **An exceptionally light sensitive high-speed camera, featuring an impressive 1280 x 800 pixel resolution, capable of capturing stunning footage at up to 4000 frames per second and beyond.**

- **Different speed grades, perfect for your needs and budget**

The M-PRI is the ultimate choice for applications that demand a compact, portable, high-resolution, highly light-sensitive, and robust camera. Its advanced light-sensitive sensor effortlessly handles the most ambitious scenarios. With various speed grades available, the M-PRI camera models cater to a wide range of professional needs.

Models

M-PRI 1000 :	up to 1000fps	@1280 x 800
M-PRI 2000 :	up to 2000fps	@1280 x 800
M-PRI 3000 :	up to 3000fps	@1280 x 800
M-PRI 4000 :	up to 4000fps	@1280 x 800

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Resolution vs frame rate

Resolution	M-PRI 1000	M-PRI 2000	M-PRI 3000	M-PRI 4000
1280 x 800	1090	2150	3250	4140
1280 x 720	1210	2390	3600	4580
1280 x 512	1680	3320	5000	6360
1280 x 256	3220	6260	9850	12'030
1280 x 128	5930	11'150	17'640	21'420
1280 x 16	22'550	35'210	62'340	67'560

Resolution and fps may be set individually in the given speed ranges. Gain in fps by reducing the vertical resolution

Recording time (sec)

Memory Size (@1280x80)	M-PRI 1000	M-PRI 2000	M-PRI 3000	M-PRI 4000
8 GB	7.1	3.6	n/a	n/a
16 GB	14.2	7.2	4.7	3.7
32 GB	28.5	14.5	9.5	7.5
64 GB	57.0	29.0	19.0	15.0
128 GB	114.0	58.0	38.0	30.0

Longer recording time by reducing resolution and/or framing speed

Optical / Sensor specifications

Image Sensor	CMOS sensor
Pixel Size	14 microns
Sensor Format	4/3" 17.90 x 12.1 mm
Light Sensitivity	ISO 10'000 (monochrome), ISO 8000 (color) without gain
Gain	3 gain settings available, adjustable by software
Dynamic Range	Mono 10 Bit / Color 30 Bit
Shutter Type	Global, independent of frame rate
Exposure Time	Free adjustable from 2 µsec to 1 / framing rate by software
Lens Mount	C-Mount or optional EF / F-Mount

Imaging studio features

Imaging Studio	Software suite to parameterize and control camera, handle data download and conversion of native files into most common single images and movie formats. Runs on Win 7/10, 32/64 Bit
Parameterization	Set all camera parameters for recording by convenient and easy-to-use software interface supports graphical setting of resolution
OSD (on screen display)	OSD with camera parameters & customer company logo supported
Live Video	Live video out while recording via Ethernet on
Buffer Type	Circular buffer, parametrized by software
Trigger Modes	Pre-post recording, adjustable in steps of 1 frame, low-high level trigger.
Auto Download	Auto download to PC or built in SSD card (SSD optional)
Export Formats	Export in all popular movie and single image formats supported
Image Processing	Image processing features as well as point-and-click measurements

Data interface

Data I/O	Gigabit Ethernet RJ45 Solid 14 pin LEMO connector, compatible with all AOS camera series
Single connector interface	19pin push-pull connector interface according "Arbeitskreis" available as an option
I/O Tolerance	TTL compatible I/O, up to 24V tolerant
Trigger In	Input for start stop recording, switch closure, Level sensitive
Armed Out	Armed out to indicate camera status ready for recording
Sync In/Out	Sync in/out on camera
Strobe Out	Strobe out for synchronization of stroboscopic LED illumination
Power Requirements	10…36V/30 Watts

Options and add-on

Camera Memory	8, 16, 32, 64 or 128GB
Battery	Snap On battery holder for Sony BP-Uxx and compatible batteries. Stand-alone run time up to 3hrs
Built in SSD	Camera built in SSD up to 1TB for automatic dump of sequences after recording.
C-F-Mount Adapter	For F-Mount lenses, with dial for F-stop
C-EF-Mount Adapter	For Canon EF-Mount lenses, remote control of Focus and aperture
Single Connector Interface	Single push-pull interface according German «Arbeitskreis»

Physical specifications

Size & Weight	w:98 x h:98 x l:118 mm (w: 3.8" x h3.8" x 4.6") 1.5kg / 4.5lbs
Operating Temperature	-5°C … +40°C / 23°F … 100°F
Storage Temperature	-40 … +70°C / -40 … +158 °F
CE	In compliance with relevant standards
Mounting	3 x M6 on top and bottom / 1/4" UNC for tripod mount

Delivery

Model
☐ **M-PRI 1000**
☐ **M-PRI 2000**
☐ **M-PRI 3000**
☐ **M-PRI 4000**

Shipment includes

- Camera selected speed grade and memory configuration in color or monochrome
- Power supply
- Power trigger adapter cable
- Ethernet cable
- Manual trigger adapter
- Imaging Studio V4 (USB stick and/or download link)

Optional items when ordered:

- SSD built in
- Snap on battery adapter (w/o battery)
- Additional adapter cable(s) for Synch in/out, Strobe Out
- Motion Analysis Software

Optional snap on battery

Your local AOS partner: