L-PRI
High Speed Camera

Capture the Moment!
High-speed cameras tailored to your application.

Superior image quality
1920 x 1080 Full HD resolution at up to 3500 fps L-PRI delivers crisp clear images.

Packed with memory
L-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 our cutting-edge camera.

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

L-PRI – a high performance compact high speed camera.

- **Light sensitive, high-speed camera equipped with Full HD Resolution (1920 x 1080 pixels) capable of capturing astonishing 3500 fps.**

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

The L-PRI is the perfect solution for applications requiring a compact, portable, high-resolution, and robust camera. Its highly light-sensitive sensor accommodates even the most demanding scenarios. With various speed grades available, the L-PRI camera models cater to a wide range of needs.

Models

L-PRI 1000 :	up to 1000fps	@1920 x 1080
L-PRI 1500 :	up to 1500fps	@1920 x 1080
L-PRI 2000 :	up to 2000fps	@1920 x 1080
L-PRI 3500 :	up to 3500fps	@1920 x 1080

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Resolution vs frame rate

Resolution	L-PRI 1000	L-PRI 1500	L-PRI 2000	L-PRI 3500
1920 x 1080	1000	1500	2000	3500
1920 x 900	1190	1790	2382	4180
1920 x 720	1498	2259	2998	5250
1920 x 512	2080	3120	4160	7240
1920 x 256	3970	5850	7850	13'600
1920 x 128	7080	10'420	13'980	24'200
1920 x 16	22'340	32'890	44'090	76'400

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

Recording time

Memory Size	L-PRI 1000	L-PRI 1500	L-PRI 2000	L-PRI 3500
8 GB	3.7	2.5	1.8	1.1
16 GB	7.5	5.0	3.8	2.1
32 GB	15.0	10.0	7.6	4.3
64 GB	30.0	20.0	15.0	8.7
128 GB	60.0	41.0	31.0	17.0

Longer recording time by reducing resolution and/or framing speed

Optical / Sensor specifications

Image Sensor	CMOS sensor
Pixel Size	10 microns
Sensor Format	4/3"19.20 x 10.80 mm
Light Sensitivity	ISO 8000 (monochrome), ISO 6000 (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
☐ L-PRI 1000
☐ L-PRI 1500
☐ L-PRI 2000
☐ L-PRI 3500

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

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Specifications are subject to change without prior notice – v12.2023