

J-PRI

High Speed Camera

Capture the Moment!
Ultra-high-resolution High-Speed camera



Imaging for smart decisions...



Superior image quality

Take the most detailed pictures with 5 Mpixels up to 2000fps



P-A-R

Ease your budget!
Use Pay-As-You-Record, pay only when high resolution is a must.



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.

J-PRI – a compact 5 Megapixel 2000fps high-speed camera.

Unlock the Full Potential:

Experience the extraordinary capabilities of the camera with basic configuration that can record at maximum settings thanks to our innovative "Pay-as-you-Record" function. Embrace unparalleled flexibility and capture your moments with unmatched performance!

The J-PRI offers resolutions up to 2560x1920 pixels and a remarkable frame rate of up to 2000 fps in three different configurations. What sets the J-PRI apart is its ingenious "pay-as-you-record" feature. This allows cameras with basic configurations to access maximum settings when needed. The J-PRI Series offers unparalleled flexibility and efficiency.



Models

J-PRI Configuration 1	1500x1125 pixels	2500fps and higher (by reducing resolution)
J-PRI Configuration 2	2000x1125 pixels	2500fps and higher (by reducing resolution)
J-PRI Configuration 3	2560x1920 pixels	2000fps and higher (by reducing resolution)

Pay-As-You-Record : Buy a 24hr license for Configuration 2 or 3 and record 24hrs with full unlocked camera specs.

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J-PRI | Key Specifications

Resolution vs frame rate

Size: Y	Max FPS Config 3 (Size X max. 2560)	Max FPS Config 2 (Size X max. 2000)	Max FPS Config 1 (Size X max. 1500)
1920	2060	⊖ PAR	⊖ PAR
1856	2130	⊖ PAR	⊖ PAR
1792	2200	⊖ PAR	⊖ PAR
1728	2280	⊖ PAR	⊖ PAR
1664	2370	⊖ PAR	⊖ PAR
1600	2460	⊖ PAR	⊖ PAR
1536	2560	⊖ PAR	⊖ PAR
1472	2660	⊖ PAR	⊖ PAR
1408	2780	⊖ PAR	⊖ PAR
1344	2910	⊖ PAR	⊖ PAR
1280	3040	⊖ PAR	⊖ PAR
1216	3200	⊖ PAR	⊖ PAR
1152	3360	2500	2500
1088	3550	2580	2580
1024	3760	2740	2740
960	4000	2920	2920
896	4260	3130	3130
832	4570	3380	3380
768	4920	3660	3660
704	5330	3990	3990
640	5820	4390	4390
576	6400	4880	4880
512	7110	5490	5490
448	8000	6270	6270
384	9140	7320	7320
320	10670	8780	8780
256	12810	10980	10980
192	16010	14640	14640
128	21340	21340	21340
64	32000	32000	32000

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

Recording time in sec vs memory size at full resolution and max fps of the configuration

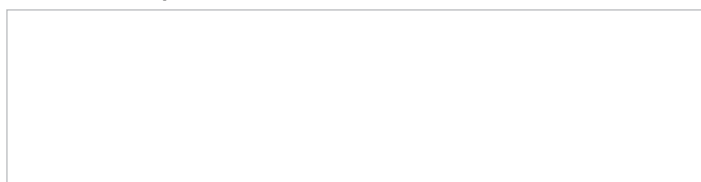
	Configuration 1	Configuration 2	Configuration 3
Memory size (GB)	1500 x 1125	2000 x 1125	2560 x 1920
16	2.4 sec	2.0 sec	1.5 sec
32	4.9 sec	4.1 sec	3.1 sec
64	9.9 sec	8.3 sec	6.2 sec

Longer recording time by reducing resolution and/or framing speed

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
Buffer Type	Up to 100 individual circular buffers, 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 (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

Your local AOS partner:



Optical / Sensor specifications

Image Sensor	CMOS sensor
Pixel Size	7.8 microns
Sensor Format	19.96mm x 14.97 mm /diagonal 24.95mm
Light Sensitivity	ISO 7200 (monochrome), ISO 3000 (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	F-Mount, Optional motorized Canon EF mount

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/36 Watts


Options and add-on

Camera Memory	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.
EF-Mount Adapter	For Canon EF-Mount lenses. Remote control of focus and aperture supported by Imaging Studio Software
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	Shipment includes
<input type="checkbox"/> J-PRI Config 1	♦ Camera selected speed grade and memory configuration in color or monochrome
<input type="checkbox"/> J-PRI Config 2	♦ Power supply
<input type="checkbox"/> J-PRI Config 3	♦ 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
	♦ Canon EF mount on camera
	♦ Snap on battery adapter (w/o battery)
	♦ Additional adapter cable(s) for Synch in/out, Strobe Out
	♦ Motion Analysis Software



Specifications are subject to change without prior notice – v07.2023