L-VIT Platinum
High Speed Camera

A camera with all features!
An unbeatable price

Superior image quality
1920 x 1080 Full HD resolution at up to 2500 fps L-VIT Platinum delivers crisp clear images.

Non volatile 16GB flash memory
Imminent backup of recording data to flash memory.
Never lose image data.

Built-in g-shock sensor
Built in g-sensor for direct in camera triggering.
Levels adjustable by software.

Includes extensions
CFast Flash Disk and HDMI or HD-SDI output on camera. IRIG-B synchronization

L-VIT Platinum – ultimate power packed in a high-speed camera

- **High-G-rated for up to 150g, Full HD @ 2500 fps, ready to be used in the most severe environments.**

- **A robust high resolution camera for demanding applications in research and development.**
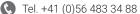
L-VIT Platinum is particularly suited for all applications where a compact, portable, high resolution yet robust camera is essential. The highly light-sensitive sensor covers the most ambitious application. Packed with lots of features the L-VIT Platinum leaves no whish open in regards of versatility and use.

Built-in non volatile flash memory automatically saves a copy of each live recording for data redundancy, this is crucial for critical tests that cannot be repeated. The camera comes with HDMI or alternatively HD-SDI video output, a CFast card interface for memory extension and a powerful software suite including an automatic motion analysis package. The camera is IEEE 1588 PTP protocol ready.

Typical frame rates vs resolution

1920	1080	2500 fps
1920	800	3360 fps
1920	720	3740 fps
1920	536	5000 fps
1920	260	10'100 fps

Maximum speed 195'600 fps, within limitations of sensor

Recording time

Memory Size	8 GB	16 GB
1920 x1080 @ 1000 fps	4 sec	8 sec

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 1 µsec to 1 / framing rate by software
Lens Mount	C-Mount or optional EF/ F-Mount

Software and camera operation

Live Video	Live video out via Ethernet, HDMI or HD-SDI
Buffer Type	Circular buffer, parametrized by software
Number of Buffers	Up to 100 buffers, individually configurable by software
Trigger Modes	Pre-post recording, adjustable in steps of 1 frame, rising falling edge, delayed trigger, trigger debouncing Shock trigger (high g trigger)
Auto Exposure	Auto exposure for automatic brightness control
Auto Download	Auto download to PC or CFast card (CFast card optional)
Flash Backup	Automatic store of video data after trigger to flash memory.
Export Formats	Export in all popular movie and single image formats supported
Control SW	AOS Imaging Studio v4 for parametrization, recording, editing and exporting/converting of recordings included

Data interface

Data	Gigabit Ethernet RJ45 lockable
I/O	Solid 14 pin LEMO connector, compatible with all AOS camera series
Trigger In	Input for start stop recording, falling edge, switch closure
Armed Out	Armed out to indicate camera status ready for recording
Triggered Out	Indicates that trigger is received and camera finishes recording
Remote On	For remote switch on of camera
Sync In/Out	Sync in/out on camera
Strobe	Strobe out for synchronization of LED illumination
IRIG-B	IRIG-B 122 input for frame synchronization and time stamping
Power Requirements	10…36 V /40 Watts
Analog inputs	Two analog inputs for recording status signals synchronized to recording
IEE1588	PTP protocol ready, inquire for accessories

Options and add-on

Camera Memory	8 GB or 16 GB
Battery	Rechargeable battery for up to 12 mins operation lasting long enough to dump 16GB data to flash memory when power is not available
Video Out	HDMI or HD-SDI video out on camera, select with order
Non-volatile Memory	Removable CFast card interface with auto download functionality
Cooling	Fan unit mounted on camera, automatically controlled by camera, replaceable by user. Fan stop function via software.
C-F-Mount Adapter	For F-Mount lenses, with dial for F-stop
C-EF-Mount Adapter	For EF-Mount lenses, remote control of Focus and aperture
Single Connector Interface	Single push-pull interface according German «Arbeitskreis»

Physical specifications

Size & Weight	width: 75 mm / height: 75 mm / length: 130 mm / 1.57 kg width: 2.95" / height: 2.95" / length: 5.12" / 3.46 lb
Operating Temperature	-10 … + 45 °C / +14 … +113 °F
Storage Temperature	-40 … +70 °C / -40 … +158 °F
Shock Resistance	150g / 11msec all axis, spikes up to 200g according EN60068-2-27:2009
I/O Connector	LEMO type ref. FGG.2B.314.CLAD72Z (cable type)
CE	In compliance with relevant standards
Mounting	¼" UNC thread, bottom / M6 mounting threads on 4 sides

Ordering information

Model	L-VIT Platinum 8GB	L-VIT Platinum 16GB
Color HDMI	471021-22-2102	471021-23-2102
Mono HDMI	471025-22-2102	471025-23-2102
Color HD-SDI	471021-22-2302	471021-23-2302
Mono HD-SDI	471025-22-2302	471025-23-2302

All cameras come in foam cut hard shell case with room for user accessory with cabling, power supply and software

AOS Technologies AG