

L-VIT Platinum High Speed Camera



Imaging for smart decisions...

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 wish 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.



AOS Technologies AG

Taefernstrasse 20 | CH-5405 Baden-Daettwil

Tel. +41 (0)56 483 34 88

@AOSHgspedcam

info@aostechnologies.com

www.aostechnologies.com

L-VIT Platinum | Key Specifications

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



Specifications are subject to change without prior notice – v01.2022

Your local AOS partner: