

FASTCAM-XLR 1024

FASTCAM-XLR 1024: Long Record Time High-Speed Video System

Up to 60 minutes* of uncompressed data
captured at 1,000fps, 1024 x 1024 pixels

**Duration subject to change in line with increase hard disk drive specification*

The FASTCAM-XLR 1024 system combines without compromise, performance of the successful FASTCAM-X 1024 PCI camera and leading edge RAID technology to provide a fully featured high-speed camera with exceptional recording capacity

Up to 60 minutes of uncompressed full resolution data can be acquired at 1,000 frames per second (fps) in real time

Optional RAID 3 configuration ensures that your data is secure should one of the hard disk drives fail

Target applications include:

- Trouble shooting
- Quality control
- Research
- Defence



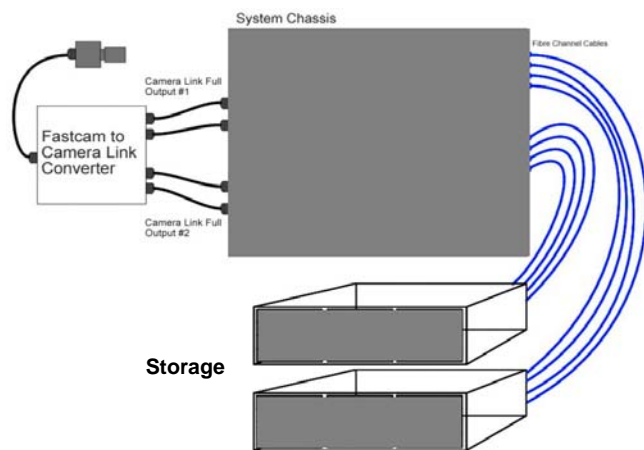
FEATURES

- ❑ 15, 30 and 60 minute record duration options*
- ❑ RAID 0 or RAID 3 configuration for secure storage (specify with order)
- ❑ 1,000 frames per second (fps) recording at 1024 x 1024 pixel resolution
- ❑ Up to 109,500 fps at reduced resolution
- ❑ Variable Region of Interest (ROI)
- ❑ Capture 10-bit uncompressed data
- ❑ 17µm pixels ensure best light sensitivity for demanding high-speed or low light applications
- ❑ 2µs global shutter can be set independent of selected frame rate
- ❑ Composite video output for real time monitoring during set up, recording and playback
- ❑ Optional remote keypad control
- ❑ System can be supplied with both monochrome and colour heads
- ❑ Intuitive Photron Fastcam Viewer (PFV) software with comprehensive range of functions for camera set-up, image acquisition, replay and storage.

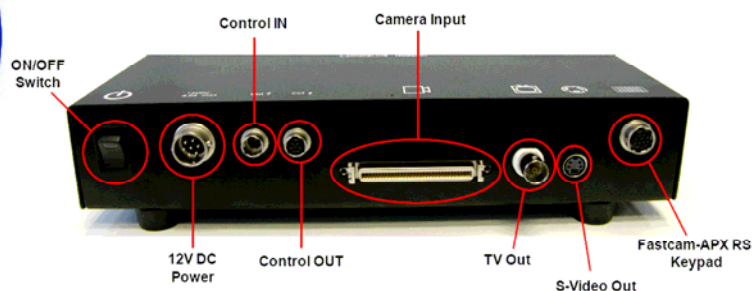
Photron

** Figures based on recording 1024 x 1024 pixels @ 1,000fps. Longer recording can be achieved by reducing resolution or frame rate*

Typical System Configuration



Camera head interface



Frame Rate (fps)	Max. Resolution (Pixels)	Exposure Time	Recording duration (minutes)	Recording duration (minutes)	Recording duration (minutes)
			15 minute storage	30 minute storage	60 minute storage
250	1024 x 1024	1/frame rate to 2µS	60	120	240
500	1024 x 1024		30	60	120
1,000	1024 x 1024		15	30	60
2,000	1024 x 512		15	30	60
3,000	512x512		20	40	80
6,000	512x256		20	40	80
10,000	256x256		24	48	96
27,000	128x128		35	70	140
45,000	128 x 64		42	84	168
73,000	128 x 32		52	104	208
109,500	128 x 16		70	140	280

- Sensor: CMOS (Bayer system color, single sensor) with 17µm pixel
- Shutter: Global electronic shutter from 16.7ms to 1.5µs independent of frame rate
- Extended dynamic range: Four presets prevent pixel over-exposure
- Saved Image Formats: JPEG, AVI, TIFF, BMP, RAW (compressed or uncompressed) PNG (10bit) and FTIF (10 bit). Images can be saved with or without image or comment data
- Storage: 15, 30 and 60 minute options – this specification is subject to change with increases in HDD capacity
- Phase Lock: Enables cameras to be synchronized precisely together to a master camera or external source
- Triggering: Selectable positive or negative TTL 5Vp-p or switch closure
- Lens Mount: Interchangeable F-mount and C-mount using supplied adapters
- Camera cable (head): 5m (16.4')
- Data Display: Frame Rate, Shutter Speed, Trigger Mode, Date or Time (can be switched), Status (Playback/Record), Real Time, Frame Count and Resolution
- Timing: Internal clock or external source such as IRIG or GPS (requires optional software module)
- Video Output: NTSC or PAL. Live video during recording. Ability to zoom, pan and tilt within image via keypad
- Recording Modes: TBA
- Partitioning: TBA
- Camera Control: Through supplied keypad and with Gigabit Ethernet
- Shock: 100G @ 10ms 6 axis
- Dimensions and Weight: **Camera Head (no lens mount) 120mm (4.72") W x 120mm (4.72") H x 106.4mm (4.19") D**
Controller TBA
- Power requirements: 100V - 240V AC , 50-60Hz optional DC operation 22-32 VDC, 65VA

Specifications subject to change without notice.

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