

HiSpec LTR1



HiSpec LTR1 At A Glance

- Continuous high-speed recording for hours
- 1280 x 1024 CMOS Sensor
- No need to download between shots
- Extended record times at lower resolutions
- Portable form factor for easy setup and transport



Key Features

- **Process Monitoring** - The HiSpec LTR1 is ideally suited to high-speed process monitoring applications. With recording speeds up to 253 frames per second at full resolution and optional frame rates up to 35,000 frames per second, the HiSpec LTR1 lets you see what you have been missing with standard video. Unlike traditional high-speed camera systems, the HiSpec LTR1 can record continuously for many minutes or even hours.
- **Rapid Recurring Events** - Traditional high-speed cameras only capture very short durations - as little as a few seconds – before the camera memory must be downloaded or saved to a host PC. This process can take several minutes, during which the camera is not recording. This can lead to missed events. With the HiSpec LTR1, rapidly recurring events are never missed due to download delays. The HiSpec LTR1 can be set to capture countless short duration events with no downloading necessary.
- **High Resolution High Speed Image Capture** - The HiSpec LTR1 records megapixel images at over 250 frames per second, providing ultra-sharp detail.
- **Portability** - The fully integrated design is ready to go - control the entire system from a Portable PC. The extremely small camera heads can fit into very tight spaces.
- **Flexibility** - The HiSpec LTR1 offers completely customizable combinations of frame rate, resolutions and recording times to suit your application.

Fastec LTR1

System Specifications

Standard Features

Camera Head	HiSpec CL 1.3
Maximum Resolution	1280 x 1024. 8-bit mono, 24-bit color
Frame Rates	1-253 fps at full resolution, up to 35,000 at reduced resolutions
Shutter	1/frame rate to 4 microseconds
Light Sensitivity	ISO 2,500 mono, ISO 1,500 color
Lens Mount	C-mount standard, optional F-mount (Nikon)
Image Amplification	Digital gain 1-4, stepless
Live Output	Displayed on built-in display
Extended Recording	Quad mode - allows for record times up to 4x standard
Data Export	USB 3.0, eSATA, Gigabit Ethernet, DVD-writer
File Formats	REC (native), download to BMP, JPEG, TIFF, DNG, or PNG
Trigger	Triggering with external signal/switch or Director 2 control software
Synchronization	Synchronization input and output via BNC connection
Event Markers	Mark critical frames using trigger from switch or machine signal
Software	Director 2 control software for Windows 7/ 64bit
Digital Input	8 channels (with opto-isolation), marker inserted in each image
System Housing	Portable PC with built-in monitor and 17" display
Data Export	eSATA, USB 3.0, Gigabit Ethernet, DVD writer
Processor Dimensions	44 x 35 x 24 cm
Weight	17 kg
Camera Dimensions	63 x 63 x 47 mm
Operating Environment	+5°C to +45°C
Power	100-240 VAC, 50-60Hz
Optional Features	
Increased Record Times	Longer record times available with larger hard drives
IRIG-B	Range timing standard

Sample Frame Rates and Resolutions

Frame Rate	Resolution		Standard Recording Time	Quad Mode
	H.	V.		
Rate: fps				
125	1280	1024	1 hour 33 min	6 hours 12 min
250	1280	1024	47 min	3 hours 6 min
125	800	600	4 hours 14 min	16 hours 57 min
250	800	600	2 hours 7 min	8 hours 28 min
500	800	600	1 hour 4 min	4 hours 14 min
125	640	480	6 hours 37 min	26 hours 29 min
250	640	480	3 hours 19 min	13 hours 14 min
500	640	480	1 hour 39 min	6 hours 37 min

Specifications subject to change.