

HiSpec LTR



Fast Facts

- Continuous High Speed Recording for Hours
- 1280 x 1024 at 500 fps 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 LTR is ideally suited to high-speed process monitoring applications. With recording speeds up to 500 frames per second at full resolution and optional frame rates up to 35,000 frames per second, the HiSpec LTR lets you see what you have been missing with standard video. Unlike traditional high-speed camera systems, the HiSpec LTR 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 LTR, rapidly recurring events are never missed due to download delays. The HiSpec LTR can be set to capture countless short duration events with no downloading necessary.
- **High Resolution High Speed Image Capture** - The HiSpec LTR records megapixel images at over 500 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 LTR offers completely customizable combinations of frame rate, resolutions and recording times to suit your application.

See what you've been missing

Fastec HiSpec LTR

System Specifications

Standard Features

Camera Head	HiSpec CL 1.3
Maximum Resolution	1280 x 1024. 8-bit Mono, 24-bit Color
Frame Rates	1-506 fps, up to 35,000 at Reduced Resolution
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, JPG, 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 Operating Software for Windows 7/ 64bit
Digital Input	8 Channels with Opto-couplers, Inserted in Each Image
System Housing	Portable PC with Built-in Monitor and 20" Display
Data Export	eSATA, USB 3.0, Gigabit Ethernet, DVD Writer
Processor Dimensions	51 x 39 x 24 cm
Weight	23 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
3 Megapixel Camera	HiSpec CL 3.0. provides 1696 X 1710 res. at 285 Frames/Second
Solid State Drives	Replace Standard HDD's for Increased Shock and Vibration
IRIG-B	Range Timing Standard

Sample Frame Rates and Resolutions

Frame Rate	Resolution		Record Times:	
			Full Resolution	Quad Mode
Rate	H.	V.	Time (min.)	Time (min.)
125	1280	1024	3 hr 43 min	14 hr 51 min
250	1280	1024	1 hr 51 min	7 hr 25 min
500	1280	1024	55 min	3 hr 42 min
125	800	600	10 hr 10 min	40 hr 34 min
250	800	600	5 hr 05 min	20 hr 17 min
500	800	600	2 hr 32 min	10 hr 08 min
125	640	480	15 hr 54 min	63 hr 24 min
250	640	480	7 hr 57 min	31 hr 42 min
500	640	480	3 hr 58 min	15 hr 51 min
1000	800	756	1 hr	4 hr 01 min
2000	640	420	1 hr 08 min	4 hr 31 min
3000	480	367	1 hr 09 min	4 hr 37 min