

HiSpec LTR-Lite



Fast Facts

- Continuous High Speed Recording for Hours
- 1280 x 1024 at 250 fps CMOS Sensor
- No Need to Download Between Shots
- Extended Record Times at Lower Resolutions
- Portable Form Factor for Easy Setup and Trans-

Key Features

- **Process Monitoring** – The HiSpec LTR-Lite is ideally suited to high-speed process monitoring applications. With recording speeds up to 250 frames per second at full resolution and optional frame rates up to 35,000 frames per second, the HiSpec LTR-Lite lets you see what you have been missing with standard video. Unlike traditional high-speed camera systems, the HiSpec LTR-Lite 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-Lite, rapidly recurring events are never missed due to download delays. The HiSpec LTR-Lite can be set to capture countless short duration events with no downloading necessary.
- **High Resolution High Speed Image Capture** - The HiSpec LTR-Lite 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-Lite offers completely customizable combinations of frame rate, resolutions and recording times to suit your application.

See what you've been missing

Fastec HiSpec LTR-Lite

System Specifications

Standard Features

Camera Head	HiSpec CL 1.3
Maximum Resolution	1280 x 1024. 8-bit Mono, 24-bit Color
Frame Rates	1-250 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	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
Image	
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
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