

# Fastec HiSpec LTR Lite

## High-Speed Long Record Video System



### 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 camera systems can only capture for 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 which 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 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 LTR Lite offers completely customizable combinations of frame rate, resolutions and recording times to suit your application.

# Fastec HiSpec LTR Lite

## Technical Specifications

Maximum Resolution	1280 x 1024. 8-bit mono, 24-bit color
Frame Rates	1-250 fps, up to 35,000 fps at reduced resolution
Shutter	1/frame rate to 4 microseconds
Light Sensitivity	ISO 2,500 mono, ISO 1,500 color
Image Amplification	Digital Gain 1-4, stepless
Live Output	Displayed on built-in display
Quad Mode	Enables record speeds/times up to 4x standard
Data Export	USB 3.0, eSATA, Gigabit Ethernet, DVD-writer
File Formats	BMP, JPG, TIFF, DNG, PNG and REC
Trigger	Triggering with external signal/switch or Director 2 control software
Synchronization	Synchronization input and output via bnc connection
Event Markers	Mark 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 Configuration	Portable PC with built-in monitor and 17" display
Dimensions	44cm W. x 35cm H. x 24cm D.
Weight	17 kg
Camera Dimensions	63mm W. x 63mm H. x 47mm D.
Lens Mount	C-Mount or F-Mount
Operating Environment	+5°C to +45°C
Power	100-240 VAC, 50-60Hz

## Selected Resolutions, Record Rates and Storage Times

### HiSpec LTR Lite

Frame Rate	Resolution		Recording Time	Recording Time w/Quad Mode
Rate	H.	V.		
125	1280	1024	1 hr 51	7hr27
250	1280	1024	55 min	3hr43
125	800	600	5 hr 5 min	20hr21
250	800	600	2 hr 32 min	10hr10
125	640	480	7 hr 57 min	31hr48
250	640	480	3 hr 58 min	15hr54
500	800	756	1 hr	4hr02
1000	640	420	1 hr 8 min	3hr58
2000	480	367	1 hr 9 min	3hr28

Option: 3MP, 1696 x 1710 resolution camera at 120 full fps.