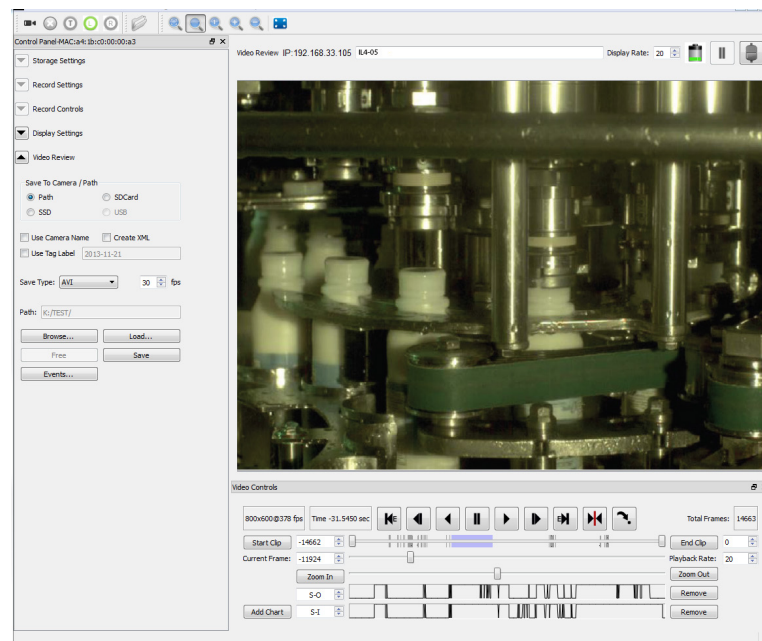# FASTEC IL4

IL4 At A Glance

- Long Record and Standard Record Modes in one camera!
- 1280 x 1024 CMOS 510 fps sensor
- Full resolution : Stream at 366 fps to on-board SSD
- Multiple storage options
- Control via powerful FasMotion Software on PC or Mac or via built-in web interface

Key Features

- **Standard Record Mode – Classic High-Speed Imaging** – The IL4 records ultra-sharp 1280 x 1024 mono or vivid color images at over 500 frames per second to 8GB of image memory.

- **Long Record (LR) Mode** – with streaming speeds of up to 366 frames per second at full resolution and 1541 fps at VGA resolution to the built-in SSD, the Fastec IL4 lets you see what you have been missing with normal-speed video. Unlike traditional high-speed camera systems, which only record for a few seconds and require careful triggering, the Fastec IL4 can record continuously at high speed for many minutes, or hours at reduced resolutions.

- **FasCorder Mode** – Operate the camera as you would a common camcorder! This intuitive Long Record feature allows you to record and pause as needed to follow the action, stop recording and review what you have, and then append additional footage at will, even after a power cycle.

Choose between Record on Command (ROC), which records varying length clips, or Burst Record on Command (BROC), which records fixed-length clips. In Playback, all of the recordings are browsable on the timeline. You may play or scrub through them continuously or jump to the beginning of each, making it easy to find the footage you wish to view

- **FasFire** – Ultra-fast save times to the SSD or SD card *while recording* high-speed bursts of hundreds or even thousands of images at a time, the IL4 is always ready for the next high-speed snapshot!

- **Flexible Control** – The IL4 can be controlled over Gigabit Ethernet via Fastec FasMotion software on your PC or Mac or via the built-in web interface with your favorite web browser on your PC, Mac, tablet, or even your smartphone.

- **High-Performance Image Transfer** – The FasMotion application makes workflow a breeze with transfers of uncompressed images via Gigabit Ethernet at rates of 50–80MB/sec to moderately equipped PCs.

- **Multiple Storage Options** – The IL4 features both a USB port and an SD port for quick and easy image downloads to USB flash drives, SD cards, or portable hard drives. The built-in SSD provides 512GB or 1TB of lightning-fast non-volatile internal storage.

*F*astec IL4 Specifications

Standard Features

Operating Modes	Standard mode (record to high-speed memory), Long Record mode (record to SSD)
Sensor	10-bit CMOS sensor with 14µm square pixel, color or monochrome
Resolution	1280 x 1024 pixel maximum
Light Sensitivity	3,200 ISO monochrome, 1,600 ISO color
Record Rate	24 to 500 fps at 1280 x 1024, over 60,000 fps at reduced resolutions
Shutter	Global electronic shutter from 2µsec to 41.667ms
Session Length	256MB to 8GB in Standard Mode, or up to full SSD size in Long Record mode
Built-In Storage	Solid State Drive (SSD): 512GB
Image Memory	8GB
File Formats	Stacks – BMP, DNG, JPEG, TIFF (processed or raw); Video – AVI, CAP (raw)
Still Image Format	JPEG
Removable Storage	SDHC SD card (32GB maximum), USB flash drive
Lens Mount	C-mount, F-mount, or PL-mount
Communication Ports	USB 2.0 device (micro-B), Ethernet (10/100/1000Base-T)
Control Software	FasMotion (PC/Mac application), web interface (browser on all platforms)
Six External I/O Ports	Markers, Trigger In/Out, Sync In/Out, Arm In/Out (LVTTL (3.3V) or switch closure)
Marker Data Views	FasMotion playback timeline and o-scope mode, XML file
Video Out	HDMI (1080p/60, 1080p/30, 720p/609)
Construction	Anodized machined aluminum housing
Power	10-26v @ 20W (max). Universal power supply included
Operating Environment	+5°C to +50°C
Size and Weight	184mm W x 112mm H x 40mm D. 1Kg (2.2 lbs.).

Optional Features

WiFi	802.11 b/g/n, security: open, WEP, WPA(2) - PSK
Lens Mounts	F-Mount, PL-Mount
Built-In Storage	Solid State Drive: 1TB

Sample Record Rates and Times

	Standard Mode			Long Record Mode*	
Resolution	Frame Rate	Recording Time		Frame Rate	Recording Time
1280 x 1024	510fps (Max)	12.9sec		366fps (Max)	17min 50sec
1280 x 1024	250fps	26.1sec		125fps	52min 3sec
1280 x 720	725fps (Max)	12.8sec		518fps (Max)	17min 52sec
1280 x 720	250fps	37.1sec		250fps	37min
800 x 600	1299fps (Max)	13.7sec		993fps (Max)	17min 47sec
800 x 600	250fps	71.2sec		250fps	1hr 10min 36sec
640 x 480	1959fps (Max)	14.2sec		1541fps (Max)	18min 4sec
640 x 480	250fps	1min 50.5sec		250fps	1hr 51min 5sec
320 x 240	6259fps (Max)	17.8sec		6167fps (Max)	17min 47sec
320 x 240	250fps	7min 24.7sec		250fps	7hr 18min 31sec

All Specifications subject to change. All record times and rates assume 8-bit data.

*LR Record times assume 512GB SSD. Multiply by 2 for approximate times using a 1TB SSD.