

## FASTEC IL3

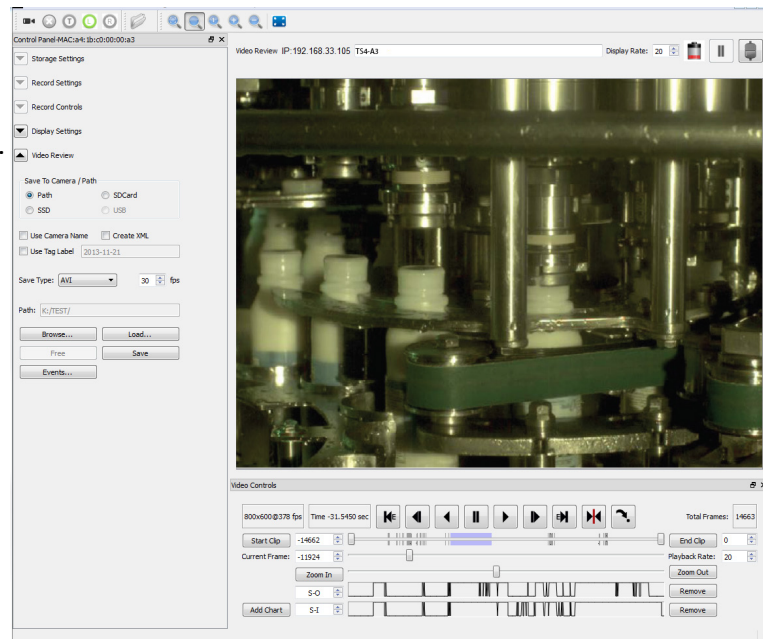


### IL3 At A Glance

- IL3S records SXGA (1280 x 1024) @ 510fps (higher frame rates at lower resolutions)
- IL3L records SVGA (800 x 600) @ 1250fps
- Multiple recording modes to suit any situation
- Control via powerful FasMotion Software on PC or Mac or via built-in web interface
- Long Record Option: Stream video directly to an SSD

### Key Features

- **Flexible Control** – The IL3 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.
- **Multiple Storage Options** – The IL3 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 optional built-in SSD provides up to 2TB of lightning-fast non-volatile internal storage.
- **FasFire** – The IL3 divides up its memory into up to 16 partitions, allowing you to record into an open partition **while** the camera automatically saves recorded clips to onboard nonvolatile storage. Once saved, partitions become available again for recording. Especially when used with an SSD, you are always ready to take the next high-speed snapshot!
- **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 IL3 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 IL3 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
- **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.



# Fastec IL3 Specifications

<b>Sensor</b>	10-bit CMOS sensor with 14 µm square pixels, color or monochrome
<b>Resolution</b>	IL3S: 1280 x 1024 pixels maximum, IL3L: 800 x 600 pixels maximum
<b>Light Sensitivity</b>	3,200 ISO monochrome, 1,600 ISO color
<b>Record Rate IL3S</b>	24 to 510 fps at 1280 x 1024, over 60,000 fps at reduced resolutions
<b>Record Rate IL3L</b>	24 to 1250fps at 800 x 600
<b>Shutter</b>	Global electronic shutter from 2µsec to 41.667ms
<b>Image Memory</b>	4GB
<b>Removable Storage</b>	SD card (SDHC: 32GB maximum), USB Flash drive
<b>Session Length</b>	256MB(minimum) to 8GB (may be divided into up to 16 partitions)
<b>File Formats</b>	Stacks – BMP, DNG (color), JPEG, TIFF (processed or raw); Video – AVI, CAP (raw)
<b>Lens Mount</b>	C-Mount
<b>Communication Ports</b>	USB 2.0 device (micro-B), Ethernet (10/100/1000Base-T)
<b>Control Software</b>	FasMotion (PC/Mac application), web interface (browser on all platforms)
<b>Six External I/O Ports</b>	Markers, Trigger In/Out, Sync In/Out, Arm In/Out (LVTTL (3.3V) or switch closure)
<b>Marker Data Views</b>	FasMotion playback timeline and o-scope mode, XML file
<b>Video Out</b>	HDMI (1080p/60, 1080p/30, 720p/60)
<b>Construction</b>	Anodized machined aluminum housing
<b>Power</b>	10-26v @ 20W (max). Universal power supply included
<b>Operating Environment</b>	+5°C to +40°C
<b>Size and Weight</b>	184mm W x 112mm H x 40mm D. 1Kg (2.2 lbs.)

## Optional Features

<b>Memory</b>	8GB maximum
<b>Built-In Storage</b>	Solid State Drive: 256GB, 512GB, 1TB, 2TB
<b>“D” Long Record</b>	Requires 8GB memory + minimum 512GB SSD
<b>WiFi</b>	802.11 b/g/n, Security: open, WEP, WPA(2) - PS
<b>Lens Mounts</b>	F-Mount, PL-Mount

## 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 IL3S)	13.7sec	993fps (Max)	17min 47sec
800 x 600	1250fps (Max IL3L)	14.2sec	993fps (Max)	17min 47sec
800 x 600	250fps	71.2sec	250fps	1hr 10min 36sec
640 x 480*	1959fps (Max IL3S)	14.2sec	1541fps (Max IL3S)	18min 4sec
640 x 480	1250fps (Max IL3L)	22.2sec	1250fps (Max IL3L)	22min 16sec
640 x 480	250fps	1min 50.5sec	250fps	1hr 51min 5sec
320 x 240*	6259fps (Max IL3S)	17.8sec	6167fps (Max)	17min 47sec
320 x 240	1250fps (Max IL3L)	88.9sec	1250fps (Max IL3L)	1hr 27min 44sec
320 x 240	250fps	7min 24.7sec	250fps	7hr 18min 31sec
48 x 32*	64,483fps (Max IL3S)	1min 24.4sec		

All Specifications subject to change. All record times and rates assume 8-bit data.  
\* IL3S only.

\*\*LR Record times assume 512GB SSD. (Multiply approximately 2x for 1TB SSD, 4x for 2TB SSD)

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