



IL3: Wherever high-speed imaging is needed...

Standard Features

- Compact design that easily fits machine and laboratory setups, including microscopes
- Proven 1280 x 1024 Sensor
- Full resolution frame rates above 500fps
- Over 60,000fps at reduced resolutions
- Built-in web interface for control via browser on PC, tablet, or phone
- Advanced PC software for Windows, Mac, Linux

Options

- Internal SSD up to 2TB
- Streaming modes for long record times
- 6-headed I/O cable for advanced synchronization and digital input
- WiFi: control camera via tablet, PC, or phone



At home in the manufacturing plant or the research facility, IL3 cameras are found atop microscopes, on tripods, or bolted to production machinery world wide.

IL3 Specifications

Sensor	10-bit CMOS sensor with 14 µm square pixels, color or monochrome
Resolution	IL3S: 1280 x 1024 pixels maximum, IL3L: 800 x 600 pixels maximum
Light Sensitivity	3,200 ISO monochrome, 1,600 ISO color
Record Rate IL3S	24 to 510 fps at 1280 x 1024, over 60,000 fps at reduced resolutions
Record Rate IL3L	24 to 1250fps at 800 x 600
Shutter	Global electronic shutter from 2µsec to 41.667ms
Image Memory	4GB
Removable Storage	SD card (SDHC: 32GB maximum), USB Flash drive
Session Length	256MB(minimum) to 8GB (may be divided into up to 16 partitions)
File Formats	Stacks – BMP, DNG (color), JPEG, TIFF (processed or raw); Video – AVI, CAP (raw)
Lens Mount	C-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 (LVTTTL (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/60)
Construction	Anodized machined aluminum housing
Power	10-26v @ 20W (max). Universal power supply included
Operating Environment	+5°C to +40°C
Size and Weight	184mm W x 112mm H x 40mm D. 1Kg (2.2 lbs.)
Optional Features	
Memory	8GB maximum
Built-In Storage	Solid State Drive: 256GB, 512GB, 1TB, 2TB
“D” Long Record	Requires 8GB memory + minimum 512GB SSD
WiFi	802.11 b/g/n, Security: open, WEP, WPA(2) - PS
Lens Mounts	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 TS3S)	13.7sec	993fps (Max)	17min 47sec
800 x 600	1250fps (Max TS3L)	14.2sec	993fps (Max)	17min 47sec
800 x 600	250fps	71.2sec	250fps	1hr 10min 36sec
640 x 480*	1959fps (Max TS3S)	14.2sec	1541fps (Max TS3S)	18min 4sec
640 x 480	1250fps (Max TS3L)	22.2sec	1250fps (Max TS3L)	22min 16sec
640 x 480	250fps	1min 50.5sec	250fps	1hr 51min 5sec
320 x 240*	6259fps (Max TS3S)	17.8sec	6167fps (Max)	17min 47sec
320 x 240	1250fps (Max TS3L)	88.9sec	1250fps (Max TS3L)	1hr 27min 44sec
320 x 240	250fps	7min 24.7sec	250fps	7hr 18min 31sec
48 x 32*	64,483fps (Max TS3S)	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)

Fastec Imaging
17150 Via Del Campo, Ste. 301 San
Diego, CA 92127 USA
1.858.592.2342