

FASTEC IMAGING™

HIGH-SPEED IMAGING IN THE PALM OF YOUR HAND

FASTEC IL5

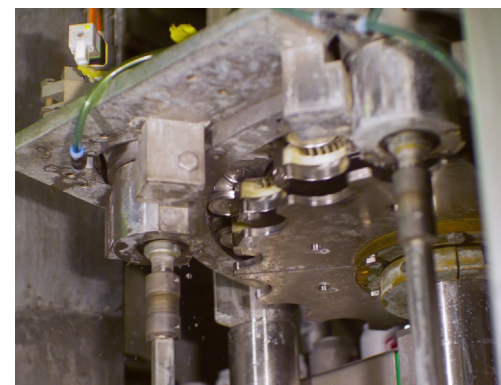
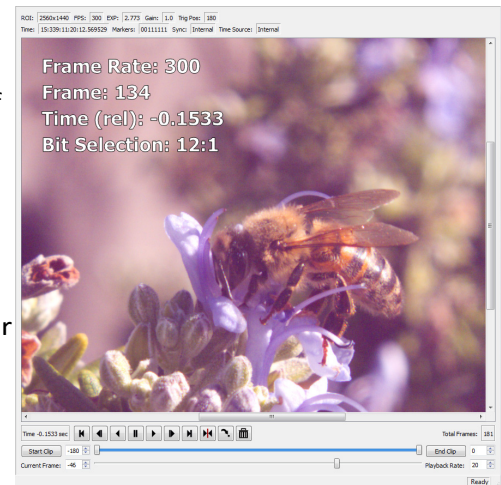


IL5 At A Glance

- IL5-Q records Quad HD (1440p) @ 359fps
- IL5-H records Full HD (1080p) @ 634fps
- IL5-S records 1280 x 1014 @ 1000fps; HD (720p) @ 1400fps
- Advanced 5-Megapixel CMOS sensor
- 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

- **Performance to fit** – With four models from QSXGA (2560x2048) @ 253fps to SVGA (800x600) @1677fps, there is an *IL5* that is right for your needs. All models use an advanced 5 Megapixel sensor that produces remarkably clean images at all resolutions. Binning and sub-sampling features of the sensor give it great flexibility and sensitivity.
- **FasFire Mode** – Ultra-fast save times to the onboard media **while recording** high-speed bursts of hundreds or even thousands of images at a time, the *IL5* is always ready for the next high-speed snapshot!
- **Flexible Control** - The *IL5* 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 *IL5* 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 (solid state drive) provides up to 1TB of lightning-fast non-volatile internal storage.
- **High-Performance Image Transfer** – FasMotion camera control, running on a PC or Mac makes workflow a breeze with image transfer rates of up to 90MB/sec, depending on image size, file type, and computer performance.
- **Long Record Option** – With recording speeds of over 200 frames per second at HD 1080p resolution and 1500 fps at VGA resolution to the built-in SSD, the Fastec *IL5* lets you see what you have been missing with normal-speed video. Unlike traditional high-speed camera systems that only record for a few seconds and require careful triggering, the Fastec *IL5* with LR option can record at high speed for many minutes at high resolutions, to many 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.



Fastec IL5 Specifications

Standard Features

| | |
|-------------------------------|--|
| Sensor | 12-bit 5MP CMOS sensor with 5µm square pixels, color or monochrome |
| Sensor Modes | Standard; binning 2x2, 4x4; sub-sampling 2x2, 4x4; combination 2x bin + 2x sub |
| Resolution by Model | IL5-Q: QSXGA 2560 x 2048; IL5-H: HD 1920x1080; -S: SXGA 1280x1024; -L SVGA 800x600 |
| Light Sensitivity | 1600 to 12,800* ISO monochrome, 800 to 6400* ISO color (depending on mode) |
| Shutter | Global electronic shutter from 3µsec to 41.654ms |
| Image Memory | 4GB (std.) or 8GB (optional) |
| Removable Storage | SDHC SD card (32GB maximum), USB flash drive |
| File Formats | Stacks – BMP, DNG, JPEG, TIFF, Tiff(raw); Video – AVI, CAP(raw); Still – JPEG |
| Lens Mounts | C-mount (std.), F-mount or PL-mount (optional) |
| 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 (1080p30, 1080p60, 720p, 480p) |
| Construction | Anodized machined aluminum housing |
| Power | 10-26v @ 22W (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 |
| Built-In SSD Storage | Solid State Drive (SSD): 256GB, 512GB, 1TB |
| Long Record | Streams uncompressed video to SSD at 480MB/sec; 8GB mem. + SSD required *Higher ISO settings available via bit-shifting and analog gains result in lower SNR. Binning modes reduce noise. |

Sample Record Rates and Times

| | Normal Mode* | | | Long Record Mode** | |
|-----------------|-------------------------|----------------|----------------|--------------------|----------------|
| | Resolution | Max Frame Rate | Recording Time | Max Frame Rate | Recording Time |
| IL5-Q: QSXGA | 2560 x 2048 (QSXGA) | 253 fps | 6.3 sec | 91 | 34.9 min |
| | 2560 x 1440 (QHD) | 359 fps | 6.3 sec | 130 | 34.7 min |
| IL5-H: HD 1080p | 1920 x 1080 (HD: 1080p) | 634 fps | 6.5 sec | 231 | 34.7 min |
| | 1440 x 1080 | 634 fps | 8.5 sec | 308 | 34.7 min |
| | 1280 x 1024 (SXGA) | 991 fps | 6.4 sec | 366 | 34.7 min |
| | 1280 x 1014 | 1001 fps | 6.4 sec | 369 | 34.7 min |
| IL5-S: SXGA | 1280 x 720 (HD: 720p) | 1403 fps | 6.5 sec | 520 | 34.7 min |
| | 1000 x 1000 | 1015 fps | 8.2 sec | 478 | 34.7 min |
| | 1024 x 768 (XGA) | 1316 fps | 8.1 sec | 610 | 34.7 min |
| IL5-L: SVGA | 800 x 600 (SVGA) | 1677 fps | 10.4 sec | 993 | 34.7 min |
| | 800 x 450 | 2221 fps | 10.5 sec | 1331 | 34.7 min |
| | 768 x 576 | 2764 fps | 6.8 sec | 1084 | 34.7 min |
| | 640x480 (VGA) | 3289 fps | 8.3 sec | 1562 | 34.7 min |
| | 512 x 384 | 4061 fps | 10.5 sec | 2441 | 34.7 min |
| | 320 x 240 | 6267 fps | 17.4 sec | 5000 | 42.8 min |

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

*Record times assume 8GB of memory. Divide Record times by 2 for approximate 4GB record times.

**LR Record times assume Long Record option and 1TB SSD. Divide by 2 if using a 512GB SSD.

Fastec Imaging

17150 Via Del Campo, Ste. 301

San Diego, CA 92127 USA

1.858.592.2342