FASTEC HS5

FASTER THAN **VISION**

The *FASTEC HS5*

Proven 12-bit CMOS sensor on a new high-performance platform utilizing the Fastec Camera Controller for unrivaled access to captured images!

2560 x 2048 @ 253fps streaming to 1TB SSD
512 x 306 @ 5000fps
Up to 29,000fps at smaller resolutions



High-Speed Video Capture!
High-Speed Image Storage!
High-Speed Image Transport!
High-Speed Application Workflow!



- Advanced architecture for enhanced workflow
- Camera with optical interface affords high-bandwidth transport using industry-standard fiber cabling
- Extensible Linux Camera Controller, compatible with standard displays and input devices, including Bluetooth and WiFi
- Run your own applications on the camera controller
- Attach high-speed high-capacity mass storage via USB3.2or Thunderbolt 4 interfaces

HS5 Specifications

System Design	Camera plus tethered Controller
Sensor	12-bit 2560 x 2048 CMOS, 5µm pixels, supports binning and subsampling
Interconnect	12 Channel Type B Fiber Optic patch cable with MPO connectors
Calibration Shutter	Optional Built-in mechanical shutter for black-level calibration in remote mounting installations
Image Memory	8GB, 16GB, or 32GB (in camera)
Mass Storage	Up to 2TB NVMe SSD (in camera)*
External Storage	Thunderbolt3 or USB-3.1 SSD, MicroSDXC slot with UHS-1 support
File Formats	Stacks – BMP, DNG (color), JPEG, TIFF (processed or raw) Video – AVI, CAP (raw), MP4
Lens Mount	Micro Four Thirds (MFT) Standard; C, F, EF, PL, and more via adapters
Lens Control	Software control: Focus, Aperture, Zoom
Controller Display	DisplayPort 1.2 via TB3/USB-C port. Supports multiple displays
Control Software	FasMotion native on Controller, with network support: FasMotion (Windows/MacOS/Linux application) on networked PC
Marker & Metadata	Image window playback time line, Fas*M*otion o-scope mode, XML file
External I/O Ports	3 configurable ports: Trigger In/Out, Sync In/Out, Arm In/Out, or General Purpose In @ 3.3v LVTTL, or 5v TTL, or switch closure
Construction	Anodized machined aluminum housing
Power	Camera: 12v 30w; Controller 19v 90w
Environment	+5˚C to +40˚C
Size and Weight	114mm (4.5") W x 114mm (4.5") H x 76mm (3") D. 1 Kg (2.2 lbs.)

Record Rates and Times

Resolution	Max Frame Rate (8, 10, or 12 bits)	Record Time 8 bits to 32GB memory	Record Time 8 bits streaming to 1TB SSD*
2560 x 2048 (QSXGA)	253 fps	25 sec	12.5 min
2560 x 1440 (QHD)	359 fps	25 sec	12.5 min
1920 x 1080 (HD: 1080p)	634 fps	25 sec	12.6 min
1280 x 1024 (SXGA)	991 fps	25 sec	12.8 min
1280 x 720 (HD: 720p)	1403 fps	25 sec	12.8 min
1024 x 768 (XGA)	1316 fps	32 sec	16 min
800 x 600 (SVGA)	1677 fps	41 sec	20.5 min
768 x 576	2764 fps	54 sec	13.6 min
640x480 (VGA)	3289 fps	66 sec	16.4 min
512 x 384	4061 fps	84 sec	25.7 min

**Streaming mode with "D" option only.*

All Specifications subject to change.

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HS Controller Specifications





FASTEC HS Controller

Full-featured mini desktop PC + high-performance fiber interface for HS7.

Fully compatible with HS, TS and IL cameras!

Software	*FasMotion Camera Control, rich graphics, communications, and productivity bundle*
Operating System	*Arch Linux with Cinnamon Desktop*
Processor	*11th Generation Intel i5 @ 2.4GHz base, 4.2 GHz Turbo*
Memory / Storage	*16GB DDR4 / 512GB SATA SSD*
Graphics	*Intel Iris Xe Graphics*
Display	*2x DP1.4a via Thunderbolt 4 (USB Type-C port)*
Camera Interface	*12 channel type B fiber optic patch cable with MPO connectors*
USB	*3x USB3.2 (10G), 2x USB4 (40G) via Thunderbolt 4 (USB Type-C port)*
Ethernet / WiFi	*2.5 Gigabit Ethernet / WiFi6*
Bluetooth	*Bluetooth 5.1*
Power	*19v 90w*
Dimentions / Weight	*114mm x 114mm x 54mm / 1Kg*