

FASTER THAN VISION

The *FASTEC HS* family of cameras includes four models from 1MP (1280 x 864 @ 3500fps) to over 16MP (4704 x 3424 @ 300fps).



HighSpeed - Video Capture!
HighSpeed - Image Storage!
HighSpeed - Image Transport!
HighSpeed - Application Workflow!



- Advanced architecture for enhanced workflow
- Camera head with optical interface affords high-bandwidth transport using industry-standard fiber cabling
- Extensible Linux controller, compatible with standard displays and input devices, including Bluetooth + WiFi
- Run your own applications on camera
- Attach high-speed high-capacity mass storage via USB3.1 Gen2 or Thunderbolt 3 interfaces
- Two-head controller available for two, perfectly-synchronized views
- Rack-mounted controller also available with myriad multi-camera and processing possibilities

General Specifications

System Design	Camera head plus tethered controller "back-end"
Interconnect	12 Channel Type B Fiber Optic patch cable with MPO connectors
Calibration Shutter	Built-in mechanical shutter for black-level calibration
Image Memory	8GB, 16GB, or 32GB (in head)
Mass Storage	Up to 2TB NVMe SSD (in head)
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)
Lens Mount	Micro Four Thirds (MFT) Standard; C, F, EF, PL, and more via adapters
Lens Control	Software control: Focus, Aperture, Zoom
Controller Display	HDMI 2.0a and/or DisplayPort 1.2 via TB3/USB-C port. Supports multiple displays
Control Software	FasMotion native on Controller FasMotion (Windows/MacOS/Linux application) on networked PC
Marker & Metadata	Image window playback time line, FasMotion o-scope mode, XML file
External I/O Ports	3 configurable ports: Trigger In/Out, Sync In/Out, Arm In/Out, GP In 3.3v LVTTTL, or 5v TTL, or switch closure
Construction	Anodized machined aluminum housing
Power	Head: 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.)
"D" Long Record	<i>1TB and 2TB SSDs available. Data rates depend on SSD speeds. e.g. HD (720p) @ 1600fps for 20 minutes to a 2TB NVMe SSD.</i>

HS Models

MODEL:	HS-5	HS-6	HS-7	HS-8
Sensor Resolution + bit depth	2560 x 2084 12bits	1280 x 864 10bits	1920 x 1080 10bits	4704 x 3424 10bits
Frame Rate @ Max Resolution	250fps	3500fps	2500fps	300fps
Frame Rate @ 2160p (UHD)	NA	NA	NA	500fps
Frame Rate @ 1080p (Full HD)	630fps	NA	2500fps	1100fps
Frame Rate @ 720p (HD)	1400fps	4200fps	3700fps	1650fps
Frame Rate @ 640 x 480 (VGA)	3200fps	6300ps	5600fps	2500fps
Frame Rate @ 320 x 240	6200fps	12,250fps	11,250fps	5000fps
Sensor Format / Pixel Size	1" / 5µm	4/3" / 13.7µm	4/3" / 10µm	4/3" / 3.9µm
ISO Color/Mono	800 / 1600	1600 / 3200	1200 / 2400	650 / 1300

All Specifications subject to change.

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