



#### FASTER THAN VISION

### The FASTEC HS7

Full high-definition (1920 x 1080) @ 2500fps, the HS7 captures detailed scenes for breathtaking slow-motion playback.

Use lower resolutions for technical work at much higher frame rates.

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 USB3.2 or Thunderbolt 4 interfaces

## **HS7 Specifications**

Sensor	10-bit 1920 x 1080 CMOS with 10µm pixels		
Minimum Exposure	1 microsecond		
Light Sensitivity	ISO 4800 (mono)		
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 camera)		
Mass Storage	Up to 2TB NVMe SSD (in camera)*		
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 (on MFT only)		
Control Software	FasMotion native on Controller, with network support: 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, 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.)		

#### **Example Record Rates and Times**

Resolution	Max Frame Rate 8 or 10 bits (Normal mode)	Record Time 8 bits to 32GB memory	Max Frame Rate 8 bits (Streaming to SSD)	Record Time 8 bits streaming to 1TB SSD*
1920 x 1080 (HD: 1080p)	2500 fps	6.6 sec	723 fps	11.2 min
1280 x 1024 (SXGA)	2634 fps	9.8 sec	1144 fps	11.2 min
1280 x 720 (HD: 720p)	3726fps	9.8 sec	1627 fps	11.2 min
1024 x 768 (XGA)	3497 fps	12.4 Sec	1907 fps	11.2 min
800 x 600 (SVGA)	4455 fps	16 sec	3124 fps	11.2 min
800 x 450	5921 fps	16 sec	4184 fps	11.2 min
640 X 480 (VGA)	5537 fps	20.1 Sec	4881 fps	11.2 min
512 X 384	6874fps	25.2 Sec	5000 fps	17.3 min
512 x 256	10.136 fps	25.8 sec	5000 fps	26 min
412 × 212	12.000 fps	32.6 sec	5000 fps	39 min
220 x 64	35,168 fps**	51.3 Sec	5000 fps	2 hours

NOTE: Frame rates increase with a decrease in vertical resolution only. All frame rates shown may be achieved at full horizontal resolution (1920).

\*Streaming mode with "D" option only. \*\* Maximum frame rate All Specifications subject to change. 17150 Via Del Campo, Ste. 301 San Diego, CA 92127 USA 1.858.592.2342



# FASTEC HS Controller

Full-featured mini desktop PC + highperformance 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 HDMI 2.0b , 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 / WiFi 6
Bluetooth	Bluetooth 5.1
Power	19v 90w
Dimentions / Weight	114mm x 114mm x 54mm / 1Kg