

## FASTER THAN VISION

### The FASTEC HS7-H

*Full high-definition (1920 x 1080) @ 2500fps, the HS-7H 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 head 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 USB3.1 Gen2 or Thunderbolt 3 interfaces

# HS-7H Specifications

<b>System Design</b>	Camera head plus tethered Controller
<b>Sensor</b>	10-bit 1920 x 1080 CMOS with 10 $\mu$ pixels
<b>Interconnect</b>	12 Channel Type B Fiber Optic patch cable with MPO connectors
<b>Calibration Shutter</b>	Built-in mechanical shutter for black-level calibration
<b>Image Memory</b>	8GB, 16GB, or 32GB (in head)
<b>Mass Storage</b>	Up to 1TB NVMe SSD (in head)*
<b>External Storage</b>	Thunderbolt3 or USB-3.1 SSD, MicroSDXC slot with UHS-1 support
<b>File Formats</b>	Stacks – BMP, DNG (color), JPEG, TIFF (processed or raw) Video – AVI, CAP (raw), MP4
<b>Lens Mount</b>	Micro Four Thirds (MFT) Standard; C, F, EF, PL, and more via adapters
<b>Lens Control</b>	Software control: Focus, Aperture, Zoom
<b>Controller Display</b>	HDMI 2.0a and/or DisplayPort 1.2 via TB3/USB-C port. Supports multiple displays
<b>Control Software</b>	FasMotion native on Controller, with network support: FasMotion (Windows/MacOS/Linux application) on networked PC
<b>Marker &amp; Metadata</b>	Image window playback time line, FasMotion o-scope mode, XML file
<b>External I/O Ports</b>	3 configurable ports: Trigger In/Out, Sync In/Out, Arm In/Out, or General Purpose In @ 3.3v LVTTTL, or 5v TTL, or switch closure
<b>Construction</b>	Anodized machined aluminum housing
<b>Power</b>	Head: 12v 30w; Controller 19v 90w
<b>Environment</b>	+5°C to +40°C
<b>Size and Weight</b>	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 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 x 212	12.000 fps	32.6 sec	5000 fps	39 min

\*Streaming mode with "D" option only.

All Specifications subject to change.

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