

ISO 5,000 color

ISO 5,000 color ISO 12,500 monochrome

Global Electronic Shutter:

4µs independent of frame rate

Dynamic Range (ADC):

24-bit color 8-bit monochrome

Ultra-Compact and Lightweight:

HD Camera Head:

35mm x 35.4mm x 35.4mm, weight 100g 1.38in x 1.39in x 1.39in, weight 0.22 lbs

ST Camera Head:

15mm x 15mm x 15mm, weight 12g 0.59in x 0.59in x 0.59in, weight 0.026 lbs

Processor:

210mm x 70mm x 150mm, weight 3kg 8.27in x 2.76in x 5.91in, weight 6.61 lbs

Internal Recording Memory:

60GB divided between all connected camera heads

High-Speed Interface:

Provides camera control and image download to network via fast Gigabit Ethernet, and USB3 interface for local image download

Recording Memory Protection:

Automatic download to internal 1TB SSD

High-G Rated:

Camera Heads: 160G, 10 msec, 6 axes, 1,000 times **Processor:** 100G, 10 msec, 6 axes, 1,000 times

RUGGEDIZED. LONG RECORD TIME. MULTI-HEAD HIGH-SPEED CAMERA SYSTEM

With 2.5x the internal recording memory of the standard MH6, the MH6 LT is a camera system designed for applications not limited to vehicle track and road tests, vibration testing or impact testing where longer recording durations might be required. For instance, with the HD camera head the MH6 LT can capture up to 124 continuous seconds of video at Full HD resolution (1920 x 1080 pixels) and a frame rate of 250fps. Alternatively, with the ST camera head the MH6 LT can capture up to 268 seconds of video at a resolution of 800 x 600 pixels and a frame rate of 250fps.

The FASTCAM MH6 system supports up to six compact HD camera heads ($35.4 \times 35 \times 35.4$ mm, weight 100g), or 12 miniature ST camera heads ($15 \times 15 \times 15$ mm, weight 15g). A combination of HD and ST camera heads may each be connected via a 10m cable to the main processor, facilitating a wide range of camera head viewing angles and mounting positions. All camera heads are extremely rugged and have been operationally tested to 160G. Each MH6 camera head, regardless of type (HD or ST), provides outstanding image quality and industry leading light sensitivity of ISO 5,000 color and ISO 12,500 monochrome. HD camera heads capture images with 1080 full HD resolution at 1,000 frames per second (fps) and are compatible with readily available 1-inch C-mount ruggedized lenses. ST camera heads capture images with 800 x 600 (SVGA) resolution at 1,000fps and utilize M10.5 ruggedized lenses.

The MH6 LT processor internally handles distribution of trigger and synchronization to each camera head and provides rapid, automated image download to an internal 1TB SSD immediately following the recording of a high-speed event. Afterwards, image transfer to a computer is possible via Gigabit Ethernet and USB3.



HD-Cam 35.4 x 35 x 35.4 mm 1920 x 1080 @1,000fps



ST-Cam 15 x 15 x 15 mm 800 x 600 @1,000fps

Performance and Operation Specifications

	HD Camera Head	ST Camera Head	
Full frame performance	750fps, 1920 x 1400 pixels	1,000fps, 800 x 600 pixels	
1,000fps	1920 x 1080 pixels (FHD)	800 x 600 pixels (SVGA)	
2,000fps	1280 x 800 pixels	800 x 312 pixels	
5,000fps	1280 x 256 pixels	800 x 120 pixels	
Sensor size / Pixel size	12.67 x 9.24mm / diagonal 15.68mm	5.28 x 3.96mm / diagonal 6.6mm	
	6.6μm square pixel	6.6µm square pixel	
Light Sensitivity	ISO 5,000 color, ISO 12,500 monochrome		
Minimum Exposure Time	Global electronic shutter to 4μs selectable independent of frame rate		
Dynamic Range (ADC)	8-bit monochrome, 24-bit color		
Memory Capacity	60GB shared between active channels.		
Data Storage	Built-in 1TB SSD with autosave function		
Input / Output	Input: Trigger (TTL/Switch), sync, ready, event, IRIG		
	Output: Trigger, sync, ready, rec, exposure		
Camera Control Interface	High-speed Gigabit Ethernet and USB3		
Supported OS	Microsoft Windows operating systems including: 7, 8, 8.1, 10, 11 (32/64-bit)		

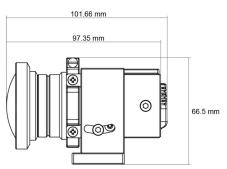
Performance and Operation Specifications

Mechanical			
	HD Camera Head	ST Camera Head	
Lens Mount	C-mount	M10.5	
Total Camera Cable Length	7m / 10m	8m / 11m	
Head Size (HWD)	35.4mm x 35mm x 35.4mm (1.38in x 1.39in x 1.39in)	15mm x 15mm x 15mm (0.59in x 0.59in x 0.59in)	
Head Weight	100 grams (0.22lbs)	12 grams (0.026lbs)	
Processor Size (HWD)	210mm x 70mm x 150mm (8.27in x 2.76in x 5.91in)		
Processor Weight	3kg (6.61lbs)		
Environmental			
Operating Temperature	0 to 40C, 32° to 104°F		
Storage Temperature	-20 to 60C, -4° to 140°F		
Humidity	85% or less (non-condensing)		
Operational Shock Camera Head	160G, 10ms, 6-axes, 1,000 times		
Operational Shock Processor	100G, 10ms, 6-axes, 1,000 times		

^{*} Specifications subject to change without notice.

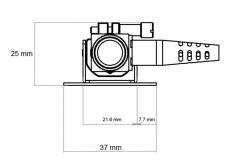
Mechanical & Environmental Specifications















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