Mega Speed® MS130K

The Most Productive High Speed Camera In It's Class 1920 x 1080 at 2000fps





Our Mega Speed high speed cameras continue to offer the world's high speed imaging customers with some of the most productive high speed camera designs available. A camera design providing the customer with the very best features and prices available.

Mega Speed cameras are suitable for a wide range of applications. These high-speed cameras are suitable on the test range, in the R&D test lab or for use in that critical application where a dependable camera is needed to capture that all important test video. A camera with automatic high speed file back-up to it's on-board removable solid state dive. Permanently saving the recent test video.

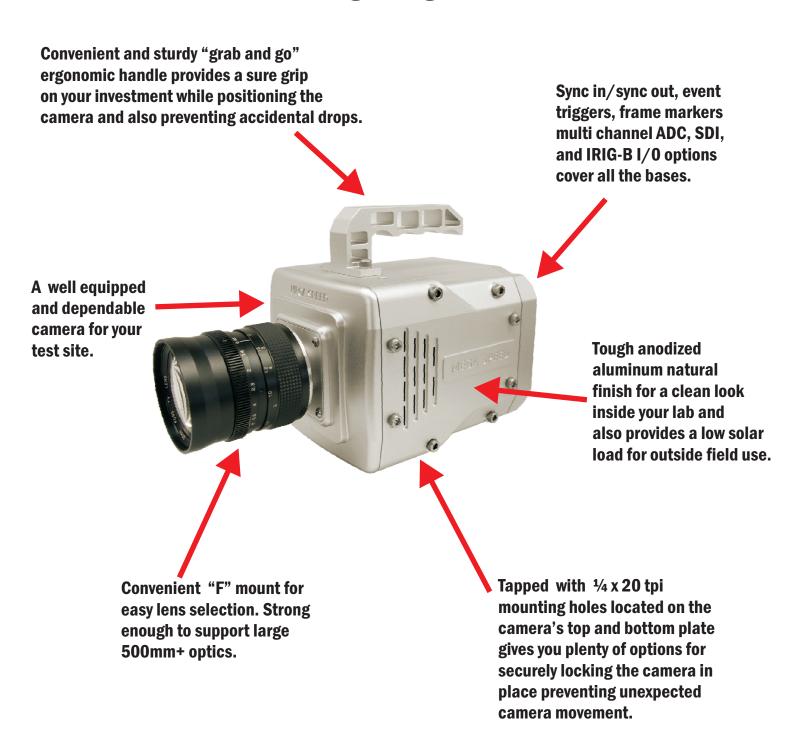
Mega Speed high speed cameras have several standout features such as high write speed removable solid state drives which are accessible through the camera's rear media bay. The removable drives offer data security as well as easy drive removal when replacements are required.

The onboard multi channel data acquisition module is ready to synchronize test data with your high speed image data offering a clear understanding and interpretation of the test video.

Contact us today to arrange a demonstration of our outstanding high speed camera models.

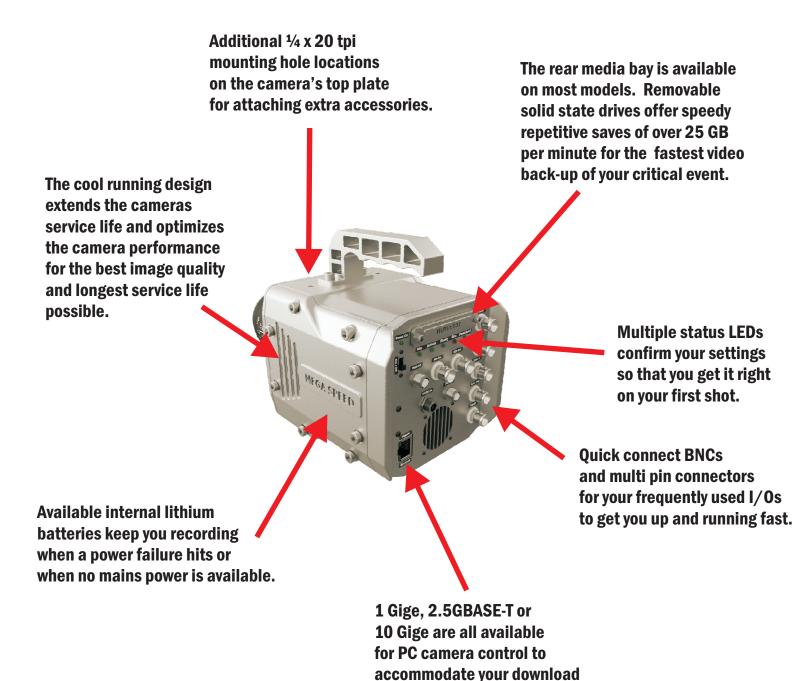
Mega Speed® MS130K

Outstanding Design Features



Mega Speed® MS130K

Optimized For Image Quality And Long Service Life



speed requirements.

Sensor Specifications	 CMOS 4/3 image sensor. Available in either monochrome or color versions
And Exposure Control	■ 1920 x 1080 pixels maximum resolution
•	 1920 x 8 pixels minimum resolution
	2100 fps maximum speed at 1920 x 1080 pixels
	 Image size is software adjustable in 64 x 2 segments
	 10 μm x 10um pixel format
	 Software adjustable global shutter down to 2 μs in 1 μs step
	 Automatic electronic exposure control or manual exposure control
	 Spectral response is 400nm to 1000nm peaking at 550nm
	 Forced air cooled sensor with heat sink
	 ISO comparative value is 10,000 for monochrome sensors
	 ISO comparative value is 5,000 for color sensors
	 8 bit and 10 bit pixel bit depth
	 Average full well capacity 20,000e
Trigger Options	 3.3 VDC to 24 VDC via BNC trigger jack. Optional 3.3VDC to 48 VDC extended range
	 3.3 VDC Mega Speed trigger box. Optional equipment
	 Dry contact trigger control. Optional
	 Software controlled manual trigger
	 Software controlled automatic trigger
	 Multiple start / stop trigger mode with auto stop when camera memory is full
	 Pre / post trigger mode with full scale pre and post segment adjustment
	 Segmented trigger mode with exposure, frame rate, file length & next segment control
	 Single sequence trigger mode
Time Source And	By internal PC clock
Synchronization	 By external IRG time clock to camera IRIG BNC - user supplied
•	 Sync in to BNC connector from external clock source or master camera
	 Sync out from BNC connector from pass through sync source or frame time
	 Sync in to BNC connector from external IRIG source - user supplied
	 10 ns accurate time propagation delay
	 3.3 VDC ready out signal when camera is in armed status via ready BNC
Camera Inputs	 IRIG BNC connector
	 Sync in BNC connector
	 Multi Channel data acquisition analog to digital connector for 0 to 10 VDC levels
	 Multi channel field input connector for field data
	DC power supply jack
	 Marker BNC connector for frame tagging
	 1 Gigabit 45 jack for Gigabit camera control. Optional NBASE2.5 Ethernet connection
Camera Outputs	 Ready out BNC connector
	Sync out BNC connector
	 SDI video out BNC connector
	■ Idle status LED
	Armed status LED
	Ready status LED
	Recording status LED
	 Download status LED
	■ Power on status LED
	 Battery charge status LED. Optional when equipped with internal battery backup
Video Output	 Live stream to PC VIA gigabit connection
	■ 1920 x 1080 SDI 60 FPS. Optional
Camera Input Protection	 Reverse input voltage protection
	 Optically isolated camera inputs
	ESD circuitry protection
	■ EMI shielding
	 Camera temperature watch dog
	Camera voltage level indicator
	 Auto re-boot and re-arm on power failure

High Speed re-moveable solid state drive, Optional, 256 GB, 512 GB or 11B Camera Firmware Record Times 7.7 seconds at 1920 x 1080, 8 bit depth Stream time lengths to camera SSD are frame rate and image size dependant PC Software Control Windows, 7 to 10 Software control Windows, 7 to 10 Software control Software control Windows, 7 to 10 Software control Software control Software control Record to internal SDRAM or internal or external solid state drives Real time streaming to internal or external solid state drives Download rate control Auto-download and re-arm for next event Frame time, event and settings stamping Trigger glitch detection to remove false triggers	Memory	32GB internal SD RAM recording buffer
Remote on-site firmware upgrade feature	wiemory	
PC Software Control Transcription	Camera Firmware	
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		■ 2150 fps @ 1920 x 1080. 7.7 seconds record time.
 2270 fps @ 1280 x 1024 11.4 seconds record time. 		
■ 3219 fps @ 1280 x 720 11.4 seconds record time.		

	10005 0 510 100 100 111
	 4800 fps @ 640 x 480 23.2 seconds record time.
	 9450 fps @ 320 x 240 47 seconds record time.
	 17,233 fps @128 x 128 120 seconds record time.
	 * Note: Maximum speed is only affected by image height. 1920x128 can also be
	captured at 17,233 FPS
Included In the Box	■ Camera
	Camera handle
	BNC patch cables and tees
	■ 15' CAT 6 Ethernet cable
	■ Camera brick power supply
	■ Camera control software
	AVI player software
	 Training videos
	 Foam lined hard protective and storage case
	 Installation CD with install software and owner's manual
Available As An Option	Color or monochrome image sensor
	 Extended 3.3VDC to 48 VDC trigger input range
	 3.3 VDC Mega Speed trigger box
	dry contact trigger control.
	NBASE 2.5 Ethernet connection
	 Internal battery and charge status LED
	■ 1280 x 720 SDI 60 FPS
	Solid state drive size (240 GB, 512GB or 1TB)
	F mount for Nikon, Canon, Pentax
	■ Internal battery back up
	■ 10VDC to 36 VDC supply voltage
	Internal battery
	ADC patch cable
	 Lenses with various focal lengths
	■ Tri-pod
	■ LED work lights
	Hi G-Force cables and connectors
	Specifications and option availability subject to change without notice. Confirm with
	your sales representative before placing an order
	your sales representative perore placing an order

Notes: Available options are high-lighted in GRAY color.

Mechanical Dimensions

