MS140K

RESOLUTION AND FPS

Min FPS: 35			Approx. Record Time (Seconds)		
Width*	Height	Max FPS	16 GB RAM	32 GB RAM	64 GB RAM
1920	1080	3,600	2.3	4.6	9.2
1920	800	4,850	2.3	4.6	9.2
1920	720	5,380	2.3	4.6	9.2
1920	480	8,060	2.3	4.6	9.2
1920	320	12,000	2.3	4.6	9.3
1920	120	31,400	2.4	4.7	9.4
1920	64	57,100	2.4	4.8	9.6
1920	32	107,300	2.5	5.0	10.1
1920	16	191,700	2.7	5.5	11.0
1280	1024	3,790	3.4	6.9	13.8
896	600	6,450	4.9	9.9	19.8
640	480	8,060	6.9	13.8	27.7
320	240	15,000	17.4	34.8	69.6



SAMPLE APPLICATIONS





Aerospace



Aerospace



Automotive Testing



Automotive

Drop Test

Biology Study

Ph#: 1-800-565-2772

EM: sales@megaspeedusa.com

MS140K

The Most Productive High Speed Camera In It's Class



MS140K model shown with 32 GB camera body, "C" & "F" mount fronts and on-camera Mega Speed monitor

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 optional 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.

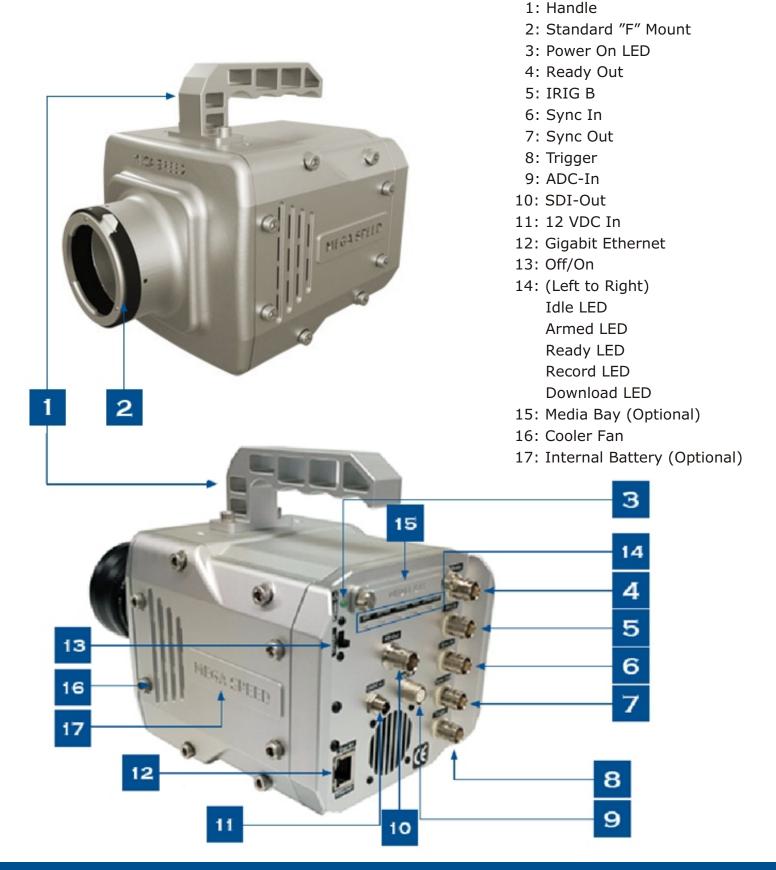
Standard onboard multi channel data acquisition module is ready to synchronize test data with your high speed image data offering a clear understanding and interpretation of the test video.

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

Ph#: 1-800-565-2772

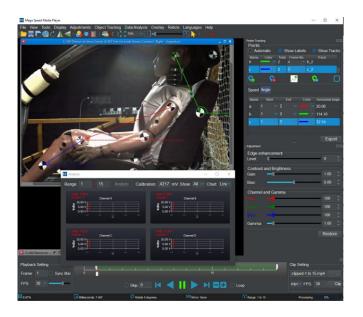
EM: sales@megaspeedusa.com

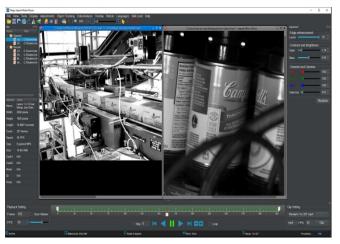
MS140K

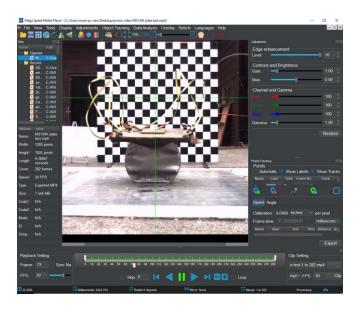


Ph#: 1-800-565-2772

MS140K











Making Sense Of Your High Speed Image Data. The Included Mega Speed Media Player!

New Tools To Measure, Synchronize, Batch Process, Clip And Compress. The Fastest Video Analysing Work-Flow Available. Helping You Make Sense Of All Your High Speed Image Data. \$1995.00 Value free with every Mega Speed Camera.

Sensor Specifications	 CMOS 4/3 image sensor. Available in either monochrome or color versions 			
And Exposure Control	 1920 x 1080 pixels maximum resolution 			
And Exposure control	 1920 x 8 pixels minimum resolution 			
	 3600 fps maximum speed at 1920 x 1080 pixels 			
	 Image size is software adjustable in 128 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 contro 			
	 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 			
	Download 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			
Memory	32GB internal SD RAM recording buffer			
Wellioty	 High Speed re-moveable SSD Optional. 256 GB, 512 GB or 1TB 			
Camera Firmware	Remote on-site firmware upgrade feature			
Record Times	 4.6 seconds at 1920 x 1080, 8 bit depth 			
Record Times	Stream time lengths to camera SSD are frame rate and image size dependant			
PC Software Control	Mega Speed Camera Control			
	■ Windows 10			
	 Software control for all camera functions (frame rate, exposure time, image size etc) 			
	 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 			
Video Editing Software	 Mega Speed AVI Player 			
	Video playback and review			
	 Video file clipping and merging Vertical and horizontal cross hair reticules 			
	vertical and nonzontal cross half recleates			
	 Thumbnail view MP4 video compression engine to compress edited files and for file sharing 			
	Gamma, white balance			
	Image cropping			
	■ Image rotation			
	Image export to JPEG, BMP, TIFF, DNG, AVI, H.264, MP4, RAW, MSV, PDF			
	 Compatible with other vendors software 			
	 Video playback time base adjustment tool 			
	 Basic object tracking , velocity and distance measurement 			
	 Multi channel data analysis tools synchronized to video file 			
	 Image overlay grid 			
PC Requirements	 Modern day PC running Windows 10 			
	 500GB minimum hard drive 			
	■ 8 GB PC RAM			
	1 GB Ethernet chip-set			
	 1 RJ 45 connection for GB connection to camera USB 2 0/3 0 USB ports for SATA dock cable 			
	 USB 2.0/3.0 USB ports for SATA dock cable CAT6 cable for camera connection 			
	17" 1920 x 1080 monitor resolution			
Lens Mount	Nikon F mount Optional C mount, Canon, Pentax, etc.			
Camera Size	■ 4.5" x 4.9" x 7.35"			
	■ 4 lbs			
Camera Weight	Machined aluminum frame anodized hard coat natural finish for low solar load.			
Camera Body /	Compact efficient modern design			
Structure	Vented side ribs			
	Heat sink and forced air cooling			
	 Convenient detachable top mount handle 			
	 Convenient quick attach BNC and multi-pin rear connections 			
	 Full function camera status LED indicators 			
Camera Mounts	■ 5 -bottom1/4 x 20 tpi, threaded, 2 top 1/4 x 20 tpi both threaded 0.250 down			
Camera Power	■ 12 VDC 25 watts			
equirements 10 VDC to 36 VDC Optional				
•	 Internal battery Optional 			
Temperature / Shock	-5°C - to +40°C. 50G, 10ms, half sine wave, 4 axis, repeated. Optional 100G			
Rating				

	T			
	■ 3785 fps @ 1280 x 1024 6.8 seconds record time			
	 4850 fps @ 1280 x 800 6.8 seconds record time 			
	■ 5365 fps @ 1280 x 720 6.8 seconds record time			
	 8000 fps @ 640 x 480 13.8 seconds record time 			
	■ 15,750 fps @ 320 x 240 28.2 seconds record time			
	 28,722 fps @128 x 128 72.4 seconds record time 			
	 * Note: Maximum speed is only affected by image height. 1920x128 can also be 			
	captured at 28,722 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			
Available As All Option	 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			

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

Mechanical Dimensions

