MS120K

RESOLUTION AND FPS

Min FPS: 35			Approx. Record Time (Seconds)		
Width*	Height	Max FPS	16GB RAM	32 GB RAM	64 GB RAM
1280	800	4,020	4.2	8.3	16.7
1280	720	4,460	4.2	8.3	16.7
1280	640	5,010	4.2	8.3	16.7
1280	480	6,660	4.2	8.4	16.7
1280	320	9,910	4.2	8.4	16.9
1280	256	12,300	4.2	8.5	17.0
1280	200	15,600	4.3	8.5	17.1
1280	156	19,800	4.3	8.6	17.2
1280	120	25,400	4.4	8.7	17.5
1280	64	45,100	4.6	9.1	18.3
1280	32	81,300	5.0	10.0	20.0
1280	16	135,500	5.8	11.7	23.3



SAMPLE APPLICATIONS



Automotive



Aerospace



Automotive Testing



Drop Test



Biology Study



Aerospace

Ph#: 1-800-565-2772

EM: sales@megaspeedusa.com

MS120K



Your Best Choice For Speed, Productivity And Image Size 1280 x 800 at 4000fps

MS120K model shown with 64 GB camera body and optional accessories.

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 camerai s rear media bay. The removable drives offer data security as well as easy drive removal when replacements are required.

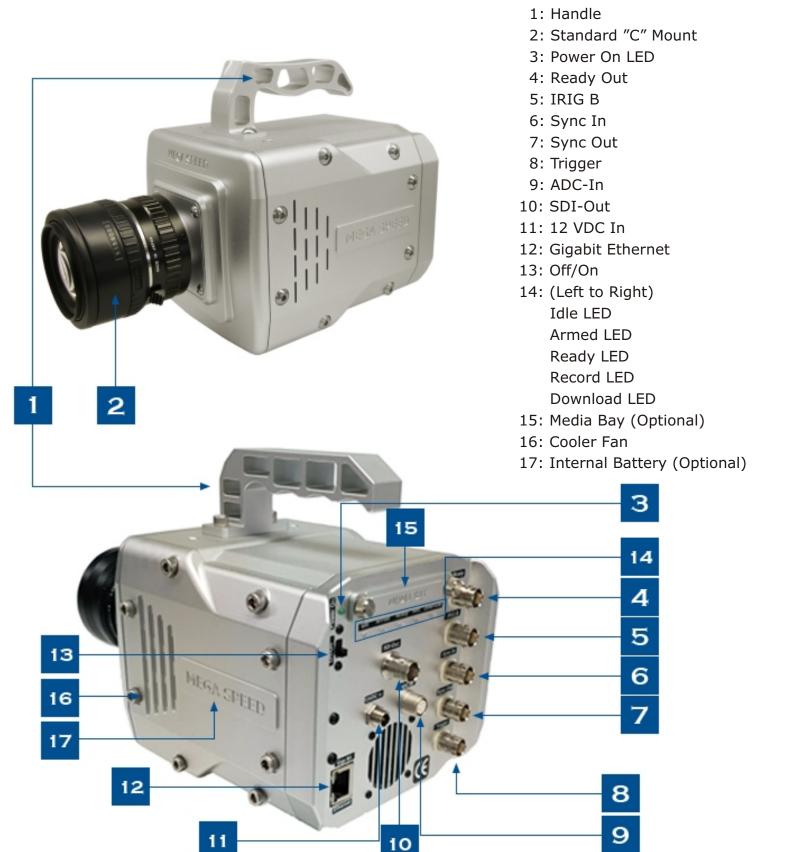
The onboard multi channel data acquisition module is ready to synchronize test data with your high speed image data offering a clear understanding and interpretation of the test video.

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

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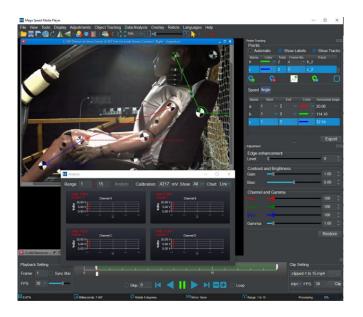
MS120K

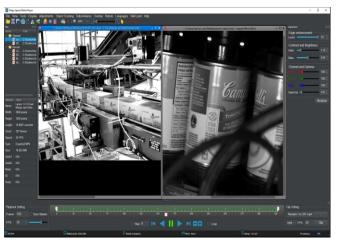


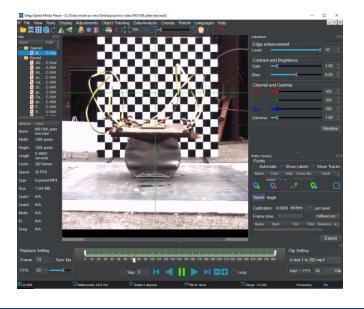
Ph#: 1-800-565-2772

Https://www.megaspeedusa.com/
EM: sales@megaspeedusa.com

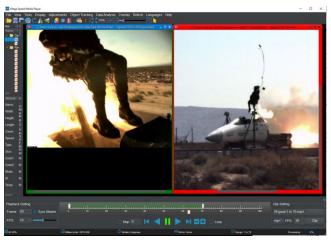
MS120K











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 image sensor. 4/3" format. Available in either monochrome or color versions 	
And Exposure Control	 1280 x 800 pixels maximum resolution 	
And Exposure Control	1280 x 8 pixels minimum resolution	
	 4000 fps maximum speed at 1280 x 800 pixels 	
	 Image size is software adjustable with 128 x 2 segments 	
	 14 μm x 14um 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	
	 ISO comparative value is 12,000 for monochrome sensors 	
	 ISO comparative value is 6,000 for color sensors 	
	8 bit and 10 bit pixel bit depth	
	Average full well capacity 21,000e	
Trigger Options	 3.3 VDC to 24 VDC via BNC trigger jack Optional 3.3VDC to 48 VDC extended range 	
Trigger Options	 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 - user supplied to camera IRIG BNC 	
Synchronization	 Sync in to BNC connector from external clock source or master camera 	
	 Sync out from BNC connector from pass through sync source or exposure 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	
Camera mpass	 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	
•	 1280 x 720 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 watch dog 	

Memory	 32GB internal SD RAM recording buffer 			
y	 High speed re-moveable SSD Optional. 256 GB, 512 GB or 1TB 			
Camera Firmware	 Remote on-site firmware upgrade feature 			
Record Times	 8.2 seconds at 1280 x 850 , 8 bit depth 			
	 Stream time length 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) 			
	 Download rate control 			
	 Auto-download and re-arm for next event 			
	 Frame time, event and settings stamping 			
	 Trigger glitch detection 			
Video Editing Software	 Mega Speed AVI Player 			
	 Video playback and review 			
	 Video file clipping and merging 			
	 vertical and horizontal cross hair reticules 			
	 Thumbnail view 			
	 MP4 video compression engine 			
	 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 Basic object tracking, velocity and distance measurement 			
	 Basic object tracking , velocity and distance measurement multi channel data analysis tools synchronized to video file 			
DC Bossissments	 Image grid Modern day PC running Windows 10 			
PC Requirements	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 			
	CAT6 cable for camera connection			
	■ 17" 1920 x 1080 monitor resolution			
Lens Mount	"C" mount Optional F mount, Canon, Pentax, etc.			
Camera Size	■ 4.5" x 4.98 x 6"			
Camera Weight	■ 3.5 lbs			
<u> </u>	 Machined aluminum frame anodized hard coat natural finish for low solar load. 			
Camera Body /	 Machined aluminum frame anodized hard coat natural finish for low solar load. Compact efficient modern design 			
Structure	 Vented side ribs 			
	 Heat sink and forced air cooling 			
	Convenient 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 0.250 . 2 top 1/20 tpi both threaded 0.250 down 			
Camera Power	■ 12 VDC 23 watts			
Requirements	■ 10 VDC to 36 VDC Optional			
vedanements	Internal battery Optional			
Temperature / Shock	 -5°C - to +40°C. 50G, 10ms, half sine wave, 4 axis, repeated. Optional 100G 			
Rating				
	■ 3720 fps @ 1280 x 864. 8.2 seconds record time			
Frame Rates	• 4014 fps @ 1280 x 800 8.2 seconds record time			
	• 4455 fps @ 1280 x 720 8.2 seconds record time			
	• 6238 fps @ 640 x 480 17.8 seconds record time			
	 13,080 fps @ 320 x 240 34 seconds record time 			

	 23,852 fps @128 x 128 87.2 seconds record time 		
	Note: Maximum speed is only affected by image height. 1280x128 can also be		
	captured at 23,852 fps		
Included in The Day	Camera		
Included In The Box	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		
	 SSD 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 rep before placing an order		

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

Mechanical Dimensions

