MEGA SPEED®

MS180K-R

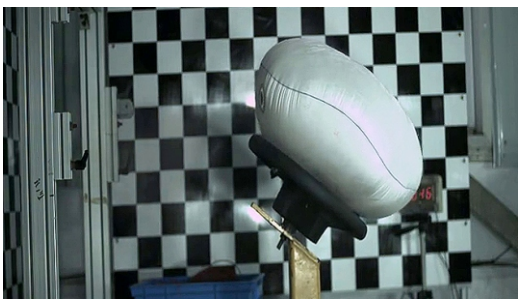
4K
HIGH SPEED CAMERA

Saving Direct To Internal SDRAM SpeedChart - RAW Data

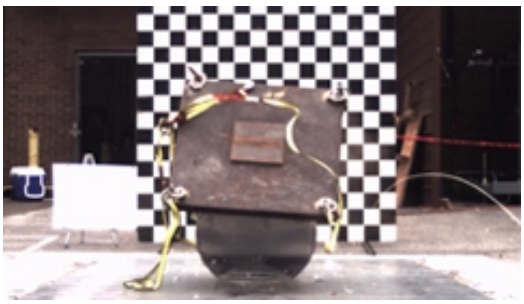
Min FPS: 20			Record Time In Seconds
Width*	Height	Max FPS	32GB/64GB SDRAM
4096	2176	1000	3.75/7.5
3840	2176	1300	3.1/6.2
2560	2176	1900	3.2/6.4
1920	1088	3650	4.75/9.5
1280	1024	3850	6.75/13.5
1280	736	5100	7/14
640	480	7300	15/30
1280	32	29,000	15/30

SAMPLE APPLICATIONS

Aerospace

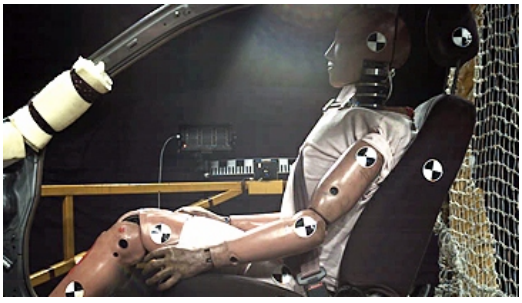


Automotive

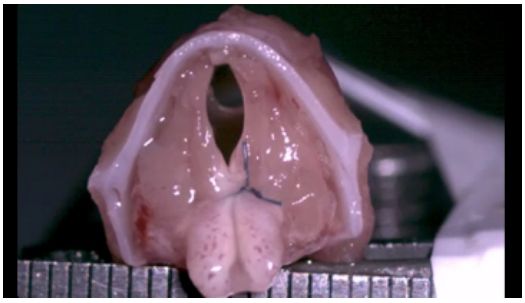


Drop Test

Aerospace



Automotive Testing



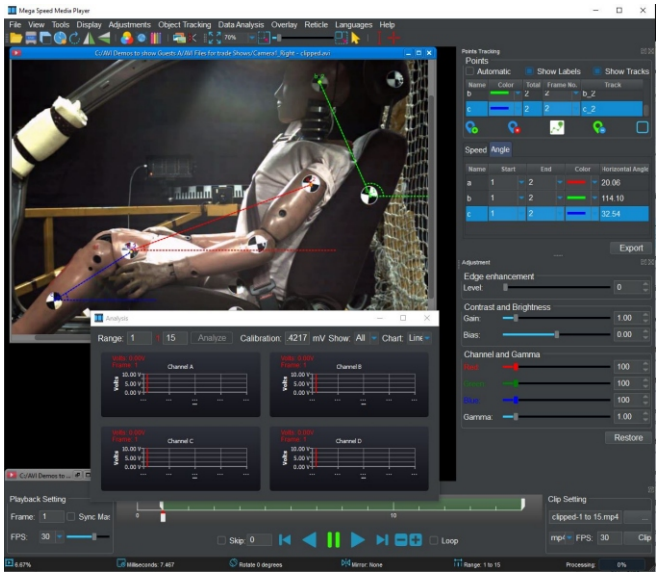
Biology Study

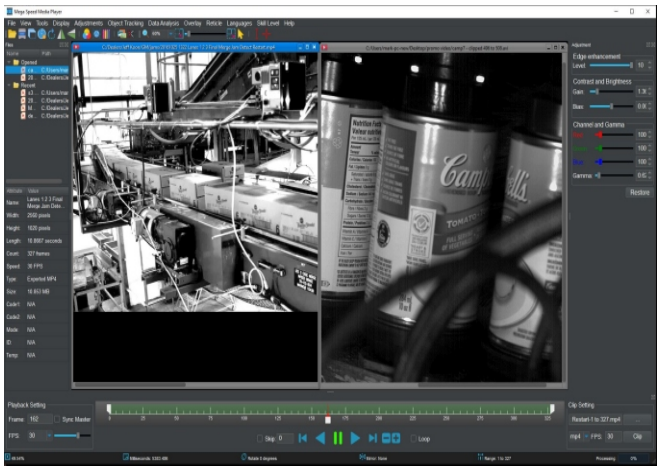
Https://www.megaspeedusa.com/ Ph#: 1-800-565-2772 EM: sales@megaspeedusa.com

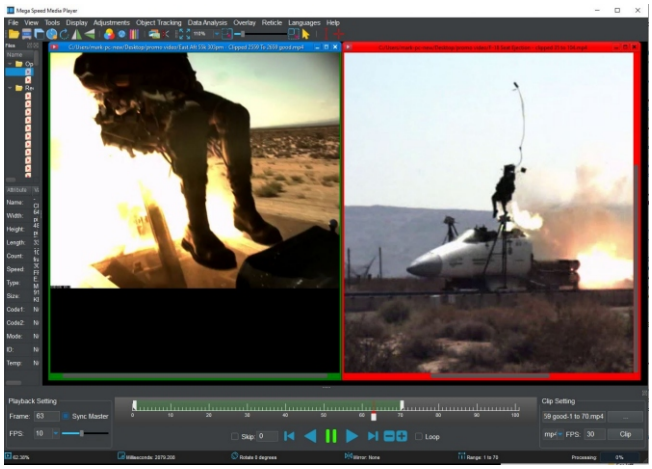
Mega Speed®

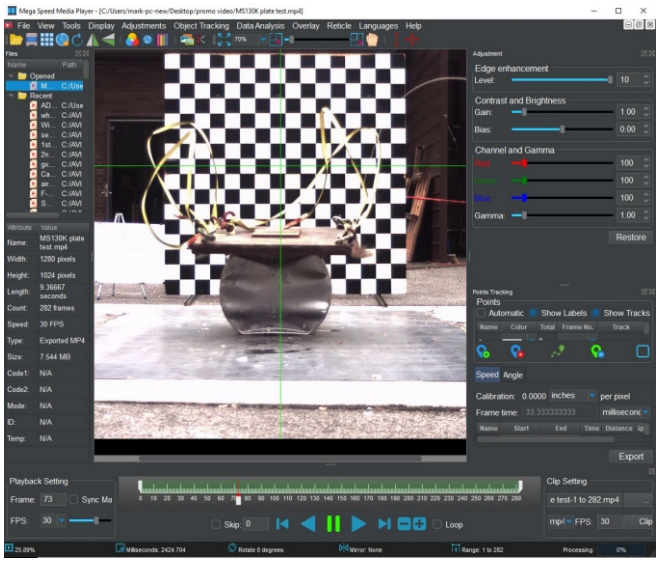
MS180K

Sample Applications









Make Sense Of Your High Speed Image Data With The Included Mega Speed Media Player And Camera Control Software!

New Tools To Control, 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. An Outstanding Value Included With Every Mega Speed Camera.

Mega Speed®

MS180K-R Specifications

Sensor Type	4/3" CMOS sensor.
Maximum Resolution	4096 x 2176
Speed	1300 fps at the maximum resolution of 3840 x 2176 pixels
	29,000 fps at minimum resolution of 1280 x 32 pixels
Pixel Size	Back side illuminated 4 um x 4 um pixel pitch.
Shutter Speed	Global electric shutter 1-2 us to 40 milli-seconds in precise 1-2 us steps for no high speed blur
On camera LCD Screen	Available as an aption
Peak QE	67%
A-D Converter	8 bits
Trigger In Source	3 to 24 VDC TTL center pin positive external rising edge, switch closure or software trigger
Trigger In Modes	Pre/Post, Single Sequence, Start/Stop, Continuous Mode, Snap Shot, PIV and Autonomous Mode
Sync In/Sync Out	3.3 VDC TTL via multi pin connector center pin positive, active high
Input Voltage	14 VDC from wall adapter for battery charging or for continuous use
Frame Time Source	Internal camera time or external IRIG time for time stamping on recorded images
Data Acquisition	4 Channel Data acquisition connection of rear of camera to accept outside signal source
File Saving	User can save images in MP4, MP5, AVI, JPEG, BMP, TIFF, RAW and DNG file formats
Streaming Mode	Stream at reduced frame rates to the internal 2TB, 4TB or 8TB high speed SSD
Video Out Formats	DisplayPort interface for external monitor feed
Camera Memory	32GB or 64GB of high speed internal image buffer memory plus 2TB, 4TB or 8TB internal SSD
Removable Storage	2 Super Speed USB 3.1 ports & 1 fast micro SD UC 1 port.
Tripod Support	5, ¼ x 20 tri-pod mounts on the bottom
PC Requirements	Windows 10 / 11. PC multiple camera control software is included
PC Software	Mega Speed Media Player for post processing, object tracking, image analysis and video editing
Gige	RJ 45 Gige port
Lens Mount	"F" mount lens mount. The "C" mount is available as an option
Camera Size	4.5" x 4.9" x 7.35"
Camera Weight	3.4 lbs with battery
Camera Body	Light weight machined anodized aluminium body
Camera Battery	Li Po re-chargeable / removable battery charges while plugged in and while in use
Temperature	-30°C to 45°C operational range. -40°C to +50°C storage range