MEGA SPEED®

MAX V1

Our Entry Level Hand Held Camera!

The Mega Speed MAX V1 is a great budget friendly preventative maintenance tool for day to day troubleshooting tasks. It gives you the flexibility of streaming longer term when required and can also switch into high speed mode when the highest recording frame rate are required.

STREAMING SPEED CHART

Min FPS: 20			Record Time (Minutes))
Width	Height	Max FPS	1 TB SSD
1920	1080	200	30
1280	1024	400	30
1280	720	500	30
832	600	900	30
640	480	1000	30

HIGH SPEED SPEED CHART

Min FPS: 20			Record Time (Seconds)
Width	Height	Max FPS	16GB / 32GB SDRAM
1920	1080	1080	7.6/15.2
1280	1024	1130	11.4/22.8
1280	720	1600	12/24
832	600	1900	16.4/32.8
640	480	2400	22/44



MAX V1

SDRAM OR FLASH RAM RECORDING?

The Mega Speed MAX V1 camera can save high speed video in either one of two ways. The first way is to save the video to the cameras SDRAM for 5 to 10 seconds, stop the recording, review the download video and then record again. This works great for applications that require the cameras highest frame rate possible.

The second way that the Mega Speed MAX V1 can save your high speed video is to stream it (save) directly to the internal FLASH RAM NVME drive every time you press the record button. With Mega Speed's Direct-to-Drive Streaming technology there is no wait time lost during the download cycle. The video data is immediately saved to the drive as it is recorded. Great for longer term recording to catch intermittent production issues.

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The Mega Speed Advantage.

What makes the Mega Speed MAX V1's Direct-To-Drive streaming technology different from legacy camera models that can only save realtime video to a SATA SSD? It is the speed at which the MAX V1 can do it. The Mega Speed MAX V1 can easily increase the continuous save speeds in real time by a factor of 2X or more compared to SATA II or SATA III drive technology. These fast save speeds are also handy while saving video from the cameras SDRAM which dramatically increases those cycle times as well. Mega Speed MAX V1's Direct-To-Drive technology is one of several standout features from this new cameras design.







At Mega Speed Corporation we have been to thousands of end user sites over the last few decades. We realize just how challenging some applications can be regarding high speed trouble shooting or R & D testing.







The Mega Speed MAX V1 is the perfect solution for those applications that do not require the higher frame rates or the high power LED work lights found on the MAX V2 or MAX V3. The MAX V1 features an enterprise class solid state drive, 2 Super Speed USB3.1 ports plus the MAX V1 has the highest 1920 x 1080 resolution display screen available on a high speed hand held camera. The Mega Speed MAX V1 is packed full of features and is engineered to deliver the perfect high speed

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Why Choose Mega Speed MAX V1?

The MAX V1 features a huge 7 inch 1080P high resolution multi-touch display screen. You can clearly see key points of interest in your recorded video. The MAX V1 screen is 2 to 5 times larger and higher resolution compared to the older technology found in other legacy portable camera screens. There is no need to transfer the video files back to your PC to see what is going on. The MAX V1 screen is large enough to analyse, edit, compress and archive your high speed video right on the MAX V1.



The MAX V1 is built with enterprise class solid state drives that are much faster than SATA solid state drives. The MAX V1 can save video at 500fps for minutes or hours without stopping. Every press of the record button while in Direct-To-Drive mode permanently saves the high speed video in real time.

The MAX V2 allows high speed trouble shooting applications never before possible. These write speeds are both fast and convenient. The high power MAX V2 processor also lets you record RAW or compressed video at a reasonable speed right to the attached SuperSpeed USB stick for extra drive space!

For those applications that need the MAX V1's top recording speeds we have included built in high speed SDRAM for your shorter high speed bursts. The Mega Speed MAX V1's top speed at full 1920 x1080P resolution is a cool 1000fps. After the recording is done you can leave the video stored on the MAX V1 permanently or you can choose to copy the video to either the high speed micro SD card or to one of two Super Speed USB3.1 ports. Transfer speeds of several hundred Mega bytes / second make short work of video archiving important files. You can choose to leave the video files in Raw format or compress them while you transfer.

USB 3.0/3.1 Gen 1
SuperSpeed
5Gb/s

The Mega Speed MAX V1 features a convenient DisplayPort for applications that require an external monitor feed.



The Mega Speed MAX V1 custom cable set has all the standard I/O ports to accept incoming triggers, sync signals, ADC data and IRIG time codes.

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MAX V1

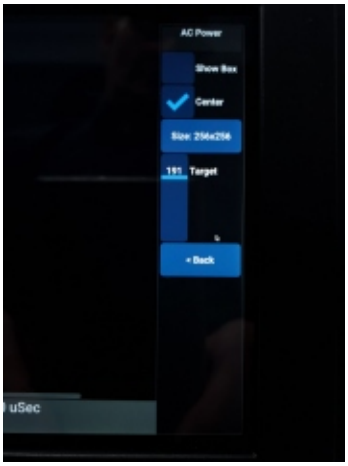
Easy to Use Touch Screen display



Recording speed Settings Menu



Customs Image size Settings Menu



Automatic Exposure control Menu



Exposure times Settings Menu

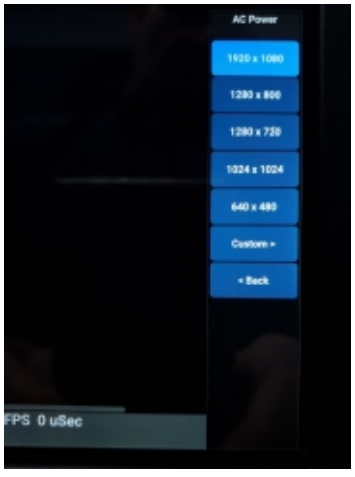
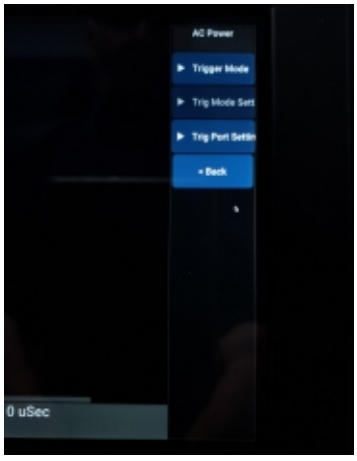


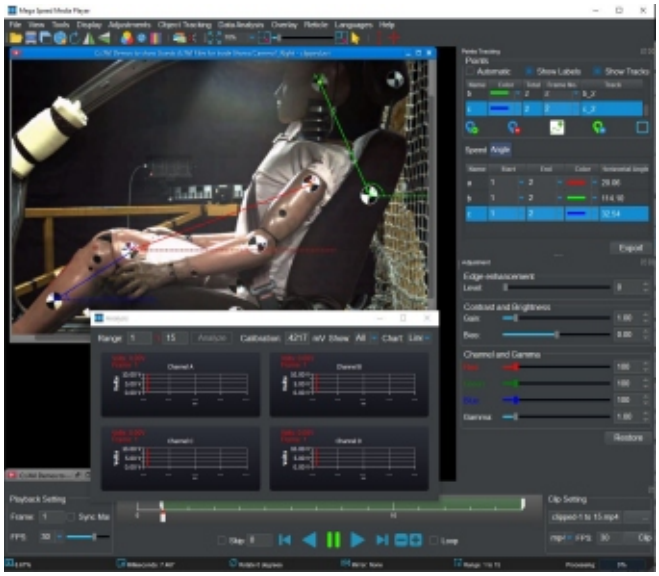
Image Size Pre-Set Menu



Trigger Mode Settings Menu

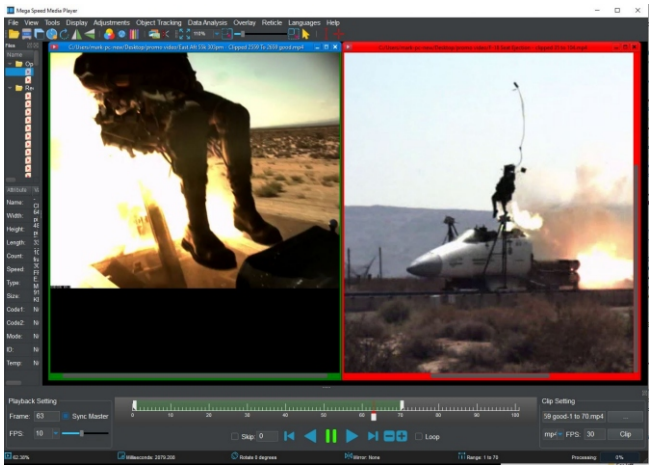
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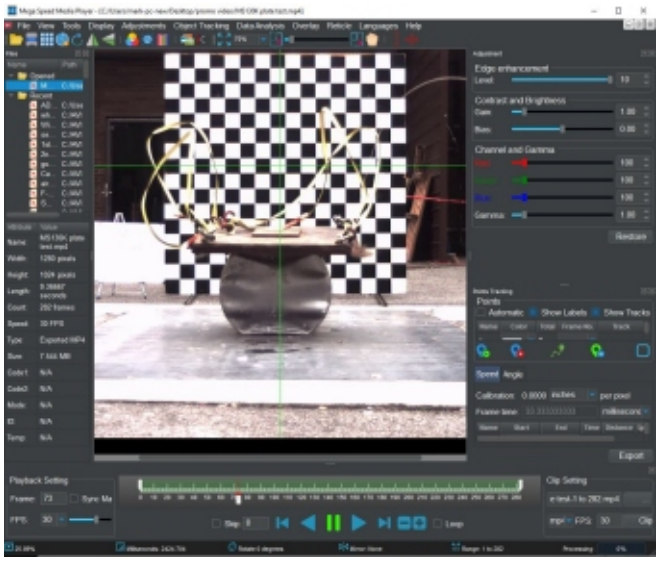
Mega Speed® MAX











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

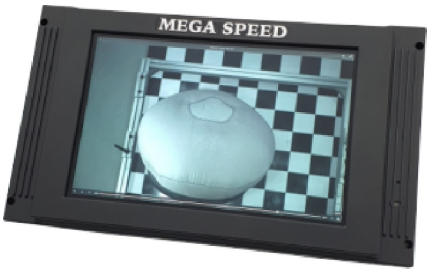
New Tools To Measure, Synchronize, Batch Process, Clip And Compress. The Fastest Video Analysing Work-Flow Available. Helping You Make Sense Of All Your High Speed Image Data. $1995.00 Value free with every Mega Speed Camera.

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MAX V1 Specifications

Sensor Type	4/3” color or monochrome 1920 x 1080 format CMOS sensor options
LED Work Lights	Not Available
Maximum Resolution	1920 x 1080
Speed	1080 fps at the maximum resolution of 1920 x 1080 pixels
	57,500 fps at minimum resolution of 1920 x 16 pixels
Pixel Size	10 x 10 um pixel pitch
Shutter Speed	Global electric shutter 2 us to 40 milli-seconds in precise 1-2 us steps for no high speed blur
LCD Screen	1920 x 1080 high resolution 7 inch LCD screen. Full touch screen operation and image editing
ISO Equivalent	5,000
A-D Converter	8 bit
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
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 for time stamping on recorded images
Data Acquisition	Optional
File Saving	User can save images in MP4, MP5, AVI, JPEG, BMP, TIFF, RAW and DNG file formats
Streaming Mode	Stream up to 1000 fps to the internal 1TB high speed SSD
Video Out Formats	DisplayPort interface for external monitor feed.
Camera Memory	16GB or 32 GB high speed internal image buffer memory plus 1TB internal high speed SSD
Removable Storage	2 Super Speed USB 3.1 ports & 1 fast micro SD UC 1 port.
Tripod Support	Dual ¼ x 20 tri-pod mounts top and bottom.
PC Requirements	No PC required for camera operation.
PC Software	Mega Speed Media Player for post processing, object tracking, image analysis and video editing
Gigabit Ethernet	Full feature multi camera control software via the camera’s RJ45 gigabit Ethernet port.
Lens Mount	Standard ”C” mount or optional m4/3 lens mount
Camera Size	2.5” x 9” x 5”
Camera Weight	3.4 lbs with battery
Camera Body	Hand held light weight machined anodized aluminium body
Camera Battery	Li Po re-chargeable / removable battery charges while plugged in and while in use
Temperature	-20°C to 40°C Operational range. -40°C to +50°C storage range

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