



# Caméra MAX V1

Caméra rapide Mega Speed

Brochure produit





New from Mega Speed Corporation the Mega Speed Max V1 with Direct-To-Drive recording technology which in many applications eliminates the need for traditional record/save cycles found in most other high speed cameras.

### Direct To **DRIVE** Speed Chart

Min FPS: 20		Record Time Sec	
Width	Height	Max FPS	1 TB SSD
1920	1080	200	2000
1280	1024	400	2000
1280	720	500	2000
832	600	900	2000
640	480	1500	2000

### Direct To **SDRAM** SpeedChart

Min FPS: 20		Record Time Sec	
Width	Height	Max FPS	SDRAM
1920	1080	1000	7.6
1280	1024	1130	11.4
1280	720	1600	12
832	600	1900	16.4
640	480	2400	22

### Understanding the Difference

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 a few seconds, stop the recording, download the video and then record again. This works great for applications that require the cameras highest frame rate possible however it is too time consuming for certain other applications that require quick repetitive saves or long term recording at a slightly lower frame rate.

The second way that the Mega Speed MAX V1 can save the high speed video is to save it directly to the internal drive every time you press the record button. With Mega Speed's Direct-to-Drive technology there is no wait time lost during the download cycle since the data is immediately saved to the drive as it is recorded. When saving this way the Mega Speed MAX can still save at a fast enough frame rate and large enough image size to satisfy a great number of high speed video recording applications.

# Advantage

What makes the Mega Speed MAX V1's Direct-To-Drive technology different from legacy camera models that can 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 past 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 imaging solution for any number of your high speed video requirements

# 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 HD quality 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.



Trying to manage a few second recording loop and then waiting for the download to finish before your next recording can start are now history. The MAX V1 opens up high speed trouble shooting and cinematic video shoots never before possible. These write speeds are like having a 5Gige fiber link back to a main frame at your disposal except its all designed inside the Mega Speed MAX V1. The high power MAX V1 processor even lets you record RAW or compressed video at a reasonable speed right to the attached SuperSpeed USB stick for extra drive space!



USB 3.0/3.1 Gen 1  
SuperSpeed  
5Gb/s

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.



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

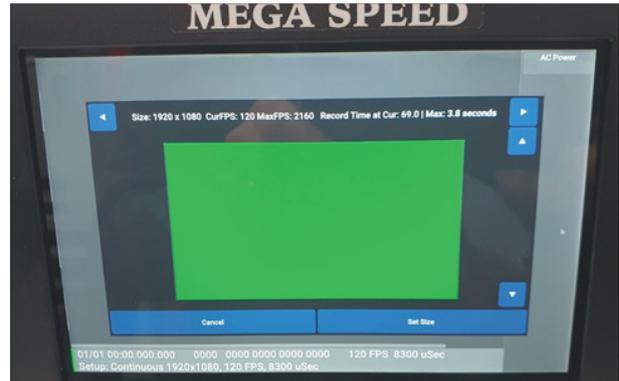


The Mega Speed MAX V1 custom cable set has all the standard I/O ports to accept incoming triggers, sync signals, ADC data and IRIG time codes.

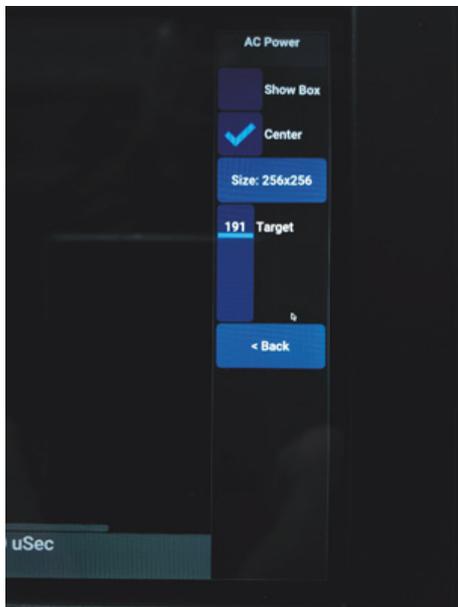
# Easy to use touch screen display



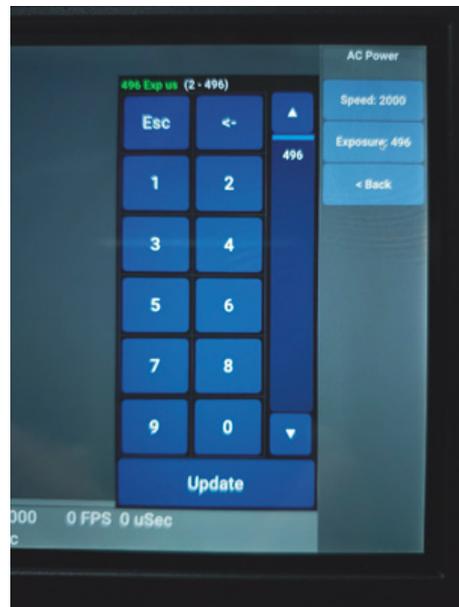
Recording speed Settings Menu



Customs Image size Settings Menu



Automatic Exposure control Menu



Exposure times Settings Menu

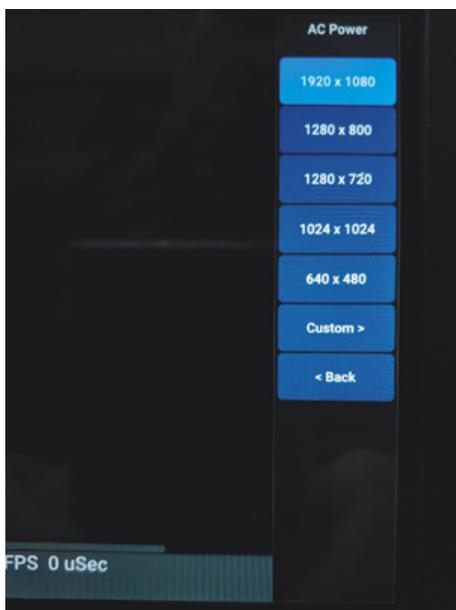
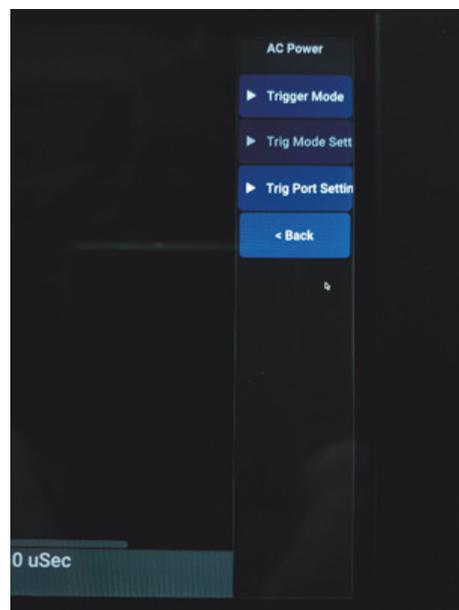
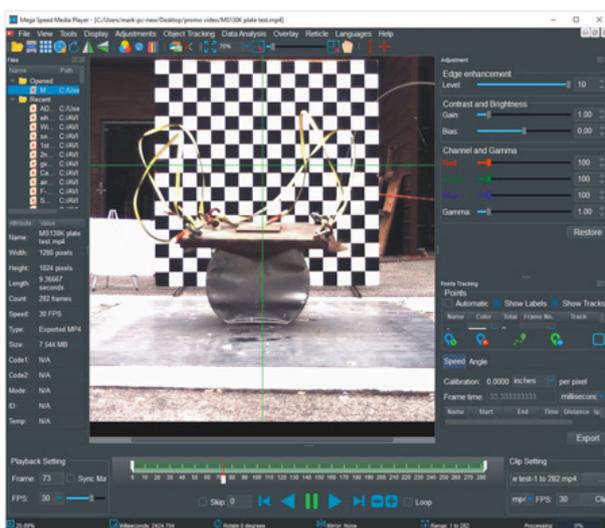
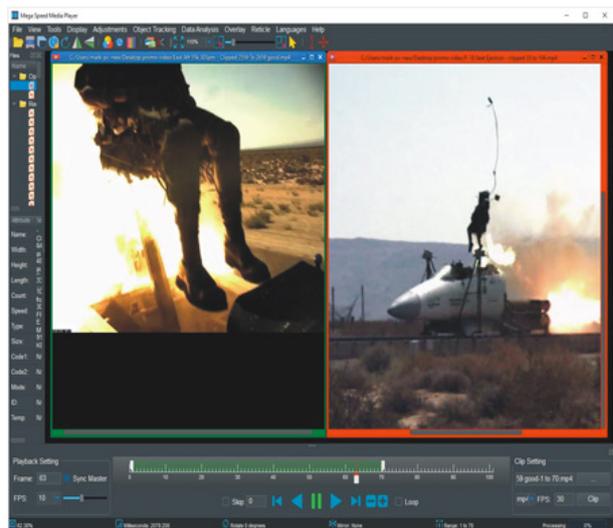
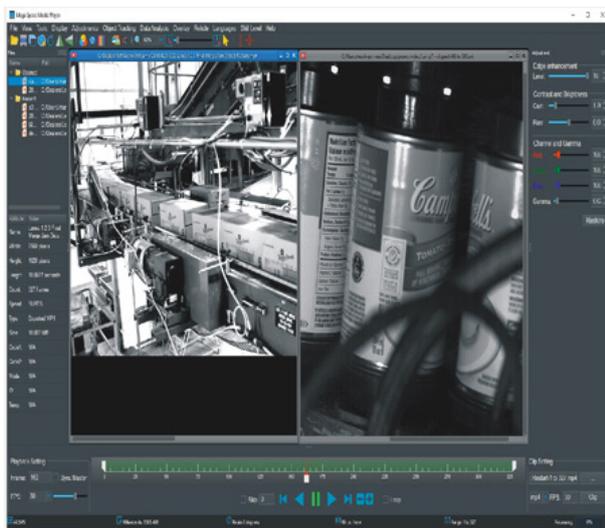
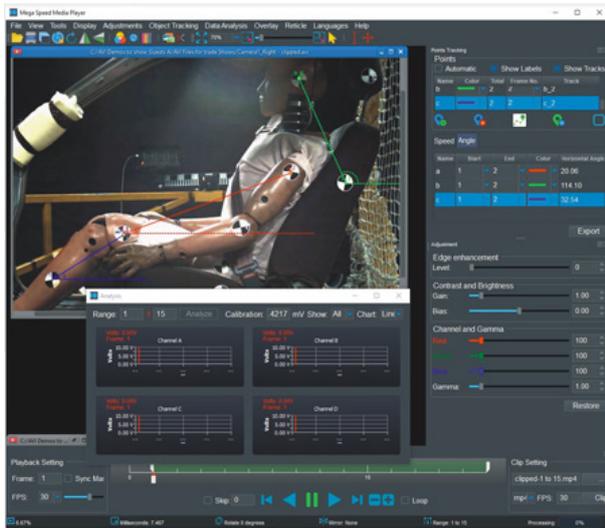


Image Size Pre-Set Menu



Trigger Mode Settings Menu

# Software



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.

## Technical data

Sensor Type	4/3" color or monochrome 1920 x 1080 format CMOS
Work Lights	Not Available
Maximum Resolution	1920 x 1080
Speed	1000 fps at maximum resolution 115,000 fps at minimum resolution
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	Rear 1920 x 1080 high resolution 7 inch LCD screen. Full touch screen operation and control
ISO Equivalent	10,000
A-D Converter	10 bit pixel bit depth
Trigger In	3 to 48 VDC TTL centre pin positive, manual, external, countdown timer or switch closure
Strobe/Sync Out	3.3 VDC TTL via multi pin connector center pin positive, active high
Input Voltage	14 VDC from wall adapter for continuous use or to charge the camera's internal battery
IRIG B	IRIG B time code ready via multi pin connector for time stamping on recorded images
Data Acquisition	3 Channel Data acquisition connection of rear of camera to accept outside signal source
File Saving	User can save images in AVI, JPEG, BMP, TIFF, RAW and DNG file formats
Streaming Mode	Stream in long record mode up to 2000 fps to the internal enterprise class SSD
Video Out Formats	DisplayPort interface for external monitor feed.
Camera Memory	16 GB internal high speed internal image buffer memory plus 1 TB enterprise class 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. A modern PC with USB 3.1 for files transfers.
PC Software	Mega Speed Media Player for image transfer, object tracking, image analysis, video editing
WiFi	WiFi connectivity is available as an option.
Lens Mount	Standard "C" 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	0°C to 45° C Operational range. -40° C to +50° C storage range



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