

## Our Fastest Hand Held 1080P Camera!

Mega Speed's fastest portable 1080P camera features Mega Speed's 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 (Minutes)
Width*	Height	Max FPS	2 TB / 4TB SSD
1920	1080	425	30 / 60
1280	1024	800	30 / 60
1280	720	1000	30 / 60
832	600	1800	30 / 60
640	480	3000	30 / 60

### DIRECT TO SDRAM SPEEDCHART

Min FPS: 20			Record Time (Seconds)
Width*	Height	Max FPS	32GB / 64GB SDRAM
1920	1080	3000	5 / 10
1280	1024	3100	8 / 16
1280	720	4000	8.4 / 16.8
832	600	5000	11.4 / 22.8
640	480	6400	15 / 30



Multi Touch Control

**MAX V3**  
**3000 FPS**



## UNDERSTANDING THE DIFFERENCE

The Mega Speed MAX V3 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 V3 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.

## THE MEGA SPEED ADVANTAGE.

What makes the Mega Speed MAX V3's Direct-To-Drive technology different from other camera models that can save realtime video to a SATA SSD? It is the speed at which the MAX V3 can do it. The Mega Speed MAX V3 can easily increase the continuous save speeds in real time by a factor of 3X 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 V3'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 past few decades. We realize just how challenging some applications can be regarding high speed trouble shooting or R & D testing.



Our past experience has led to several other time saving features such as the high power integrated LED work light design. This feature has been carried over from the X4 - X9 models used to handle those real tough imaging jobs which are dimly lit. This innovative design floods the scene with shadow free illumination that cumbersome add-on lights simply can not provide. With one press of the LED menu tab you have instant high power flicker free illumination. There are no extra lights or cords hanging off your camera that may get in your way while recording. Just a clean portable imaging solution allowing you to professionally record your high speed video.

# MEGA SPEED®

## WHY CHOOSE MEGA SPEED MAX V3?



Full Touch  
Screen



The MAX V3 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 V3 screen is 2 to 5 times larger and higher resolution compared to the older technology found in other portable camera screens. There is no need to transfer the video files back to your PC to see what is going on. The MAX V3 screen is large enough to analyse, edit, compress and archive your high speed video right on the MAX V3.



The MAX V3 is built with enterprise class solid state drives that are much faster than SATA solid state drives. The MAX V3 can save HD quality video at 1000fps 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 V3 opens up high speed trouble shooting and cinematic video shoots never before possible. These write speeds are like having a 10Gige fiber link back to a main frame at your disposal except its all designed inside the Mega Speed MAX V3. The high power MAX V3 processor even 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 V3's top recording speeds we have included built in high speed SDRAM for your shorter high speed bursts. The Mega Speed MAX V3's top speed at full 1920 x1080P resolution is an incredible 3000fps. After the recording is done you can leave the video stored on the MAX V3 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



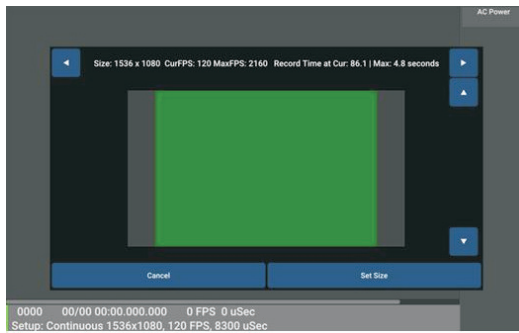
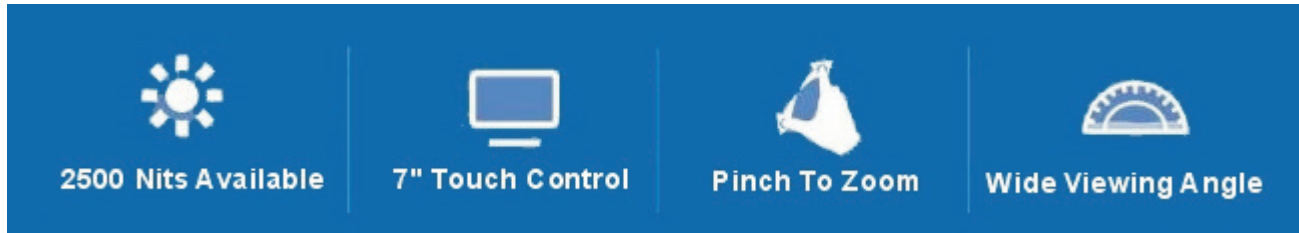
The Mega Speed MAX V3 features a convenient DisplayPort for applications that require an external monitor feed.



The Mega Speed MAX V3 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

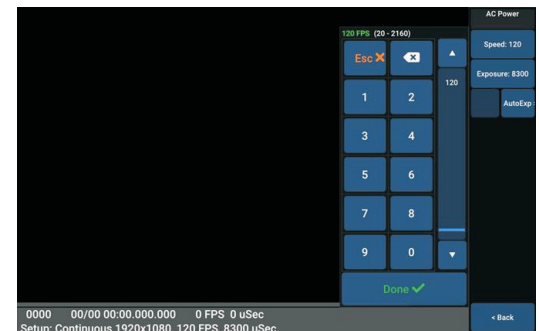
Tap, double tap, pinch, zoom and swipe gestures



CUSTOMS IMAGE SIZE SETTINGS MENU



EXPOSURE TIMES SETTINGS MENU



RECORDING SPEED SETTINGS MENU

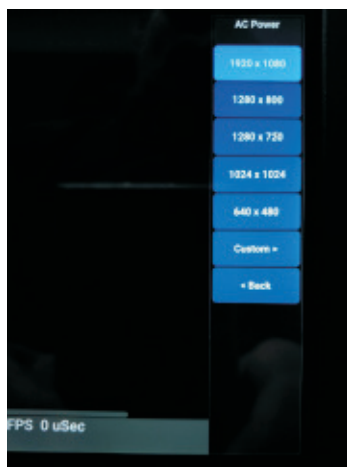
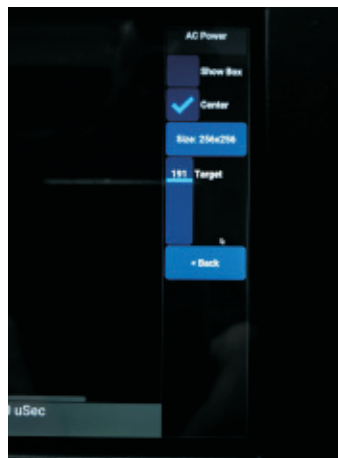
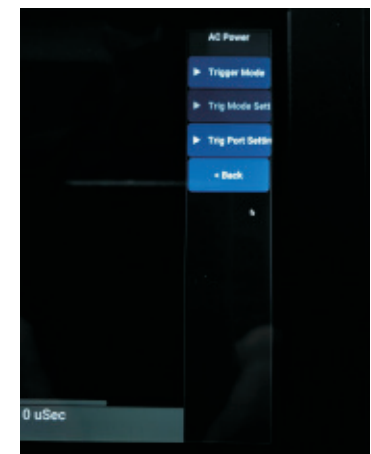


IMAGE SIZE PRE-SET MENU



AUTOMATIC EXPOSURE CONTROL MENU



TRIGGER MODE SETTINGS MENU

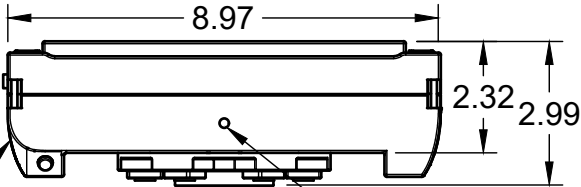




## MAX V3 SPECIFICATIONS

Sensor Type	4/3" color or monochrome 1920 x 1080 format CMOS sensor options
LED Work Lights	Only available as an option
Maximum Resolution	1920 x 1080
Speed	3000 fps at the maximum resolution of 1920 x 1080 pixels 290,000 fps at minimum resolution of 1920 x 4 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	10,000
A-D Converter	8 bit and 10 bit pixel bit depth options available
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 in Direct To Drive mode up to 3000 fps to the internal 2 or 4TB 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 2 or 4TB internal 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
WiFi & Gige	WiFi and Gige connectivity are available as an option.
Lens Mount	M4/3 lens mount. The "C" mount and or the LED work lights are optional
Camera Size	2.99" x 8.97" x 5.16"
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

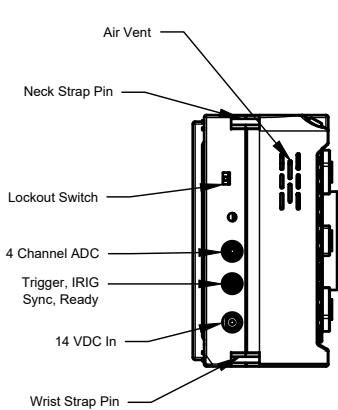
# Mega Speed MAX V1, V2, V2L and V3 Dimentions



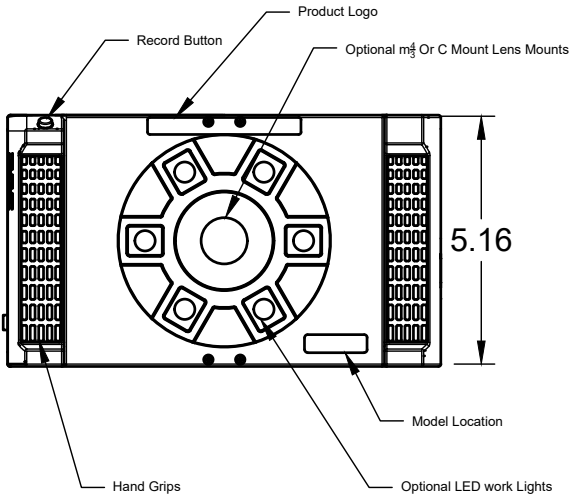
Top View

Single Or Dual 1/4 x 20 Tri-Pod Mounts

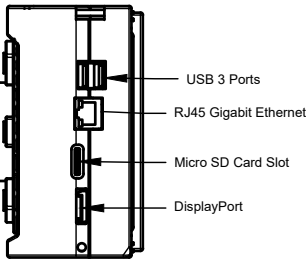
Strong Anodised Camera Body



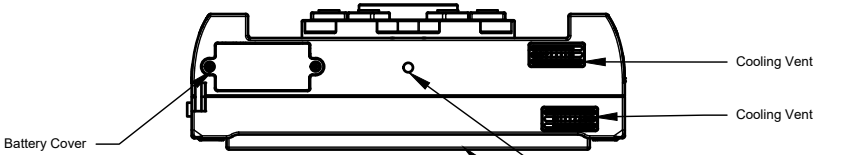
Right Side View



Front View



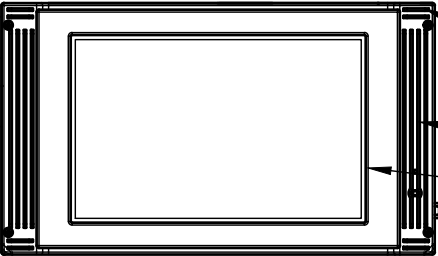
Left Side View



Bottom View

Single or Dual 1/4 x 20 tpi Tri-Pod Mount Holes

7" Viewing Screen Location



Back View

Ribbed Horizontal Hand Grips

Ribbed Verticle Hand Grips

7" 1920x1080 Multi Touch Display