# Mega Speed® MS140K

# The Most Productive High Speed Camera In It's Class 1920 x 1080 at 3600fps





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.

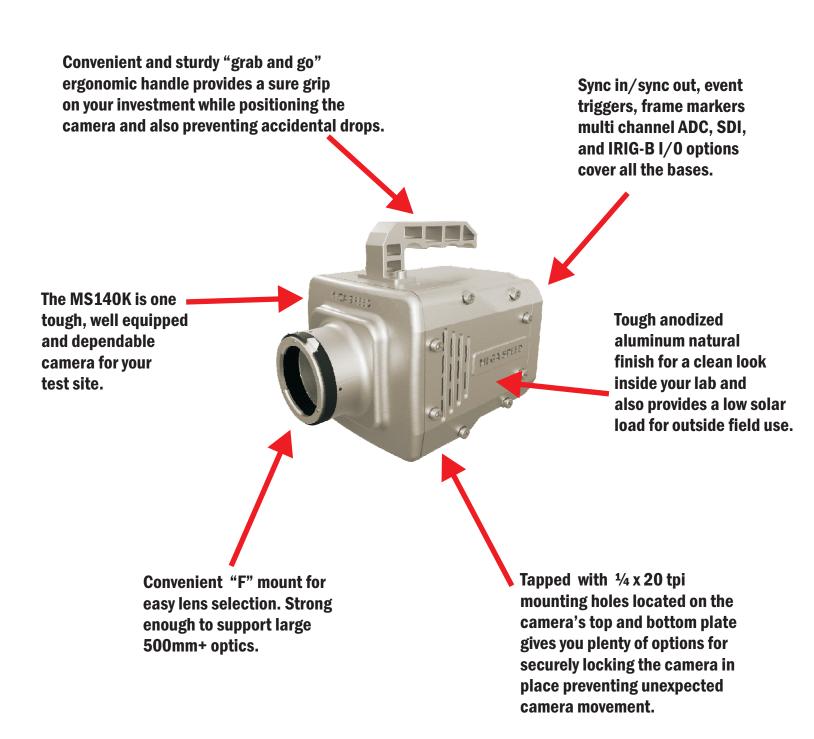
Mega Speed high speed cameras have several standout features such as high write speed removable solid state drives which are accessible through the camera's rear media bay. The removable drives offer data security as well as easy drive removal when replacements are required.

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.

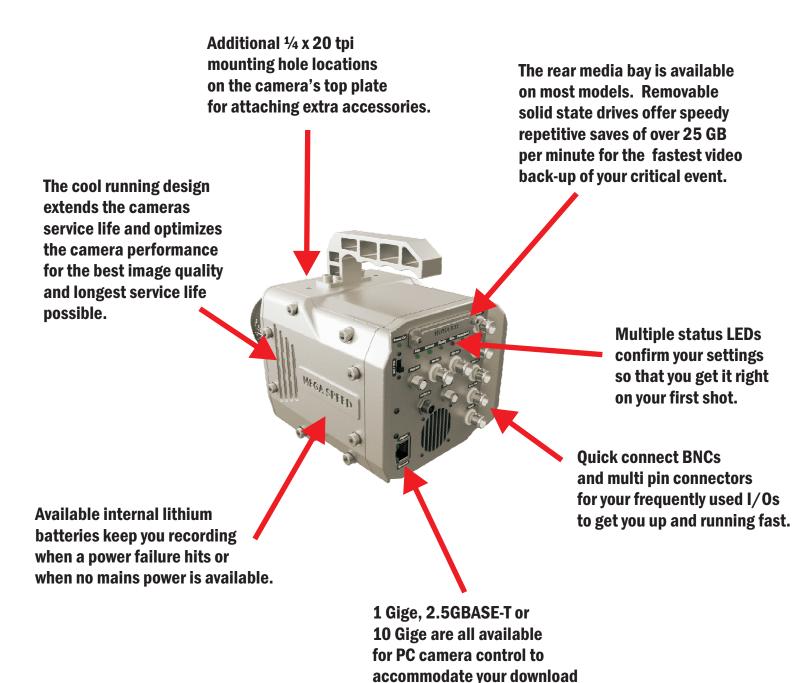
# Mega Speed® MS140K

#### **Outstanding Design Features**



# Mega Speed® MS140K

### **Optimized For Image Quality And Long Service Life**



speed requirements.

Sensor Specifications	<ul> <li>CMOS 4/3 image sensor. Available in either monochrome or color versions</li> </ul>
And Exposure Control	<ul> <li>1920 x 1080 pixels maximum resolution</li> </ul>
•	<ul> <li>1920 x 8 pixels minimum resolution</li> </ul>
	<ul> <li>3600 fps maximum speed at 1920 x 1080 pixels</li> </ul>
	<ul> <li>Image size is software adjustable in 64 x 2 segments</li> </ul>
	<ul> <li>10 μm x 10um pixel format</li> </ul>
	<ul> <li>Software adjustable global shutter down to 2 μs in 1 μs step</li> </ul>
	<ul> <li>Automatic electronic exposure control or manual exposure control</li> </ul>
	<ul> <li>Spectral response is 400nm to 1000nm peaking at 550nm</li> </ul>
	<ul> <li>Forced air cooled sensor with heat sink</li> </ul>
	<ul> <li>ISO comparative value is 10,000 for monochrome sensors</li> </ul>
	<ul> <li>ISO comparative value is 5,000 for color sensors</li> </ul>
	<ul> <li>8 bit and 10 bit pixel bit depth</li> </ul>
	<ul> <li>Average full well capacity 20,000e</li> </ul>
Trigger Options	<ul> <li>3.3 VDC to 24 VDC via BNC trigger jack. Optional 3.3VDC to 48 VDC extended range</li> </ul>
	<ul> <li>3.3 VDC Mega Speed trigger box. Optional equipment</li> </ul>
	<ul> <li>Dry contact trigger control. Optional</li> </ul>
	<ul> <li>Software controlled manual trigger</li> </ul>
	<ul> <li>Software controlled automatic trigger</li> </ul>
	<ul> <li>Multiple start / stop trigger mode with auto stop when camera memory is full</li> </ul>
	<ul> <li>Pre / post trigger mode with full scale pre and post segment adjustment</li> </ul>
	<ul> <li>Segmented trigger mode with exposure, frame rate, file length &amp; next segment control</li> </ul>
	<ul> <li>Single sequence trigger mode</li> </ul>
Time Source And	By internal PC clock
Synchronization	<ul> <li>By external IRG time clock to camera IRIG BNC - user supplied</li> </ul>
•,	<ul> <li>Sync in to BNC connector from external clock source or master camera</li> </ul>
	<ul> <li>Sync out from BNC connector from pass through sync source or frame time</li> </ul>
	<ul> <li>Sync in to BNC connector from external IRIG source - user supplied</li> </ul>
	<ul> <li>10 ns accurate time propagation delay</li> </ul>
	<ul> <li>3.3 VDC ready out signal when camera is in armed status via ready BNC</li> </ul>
Camera Inputs	<ul> <li>IRIG BNC connector</li> </ul>
-	<ul> <li>Sync in BNC connector</li> </ul>
	<ul> <li>Multi Channel data acquisition analog to digital connector for 0 to 10 VDC levels</li> </ul>
	<ul> <li>Multi channel field input connector for field data</li> </ul>
	<ul><li>DC power supply jack</li></ul>
	<ul> <li>Marker BNC connector for frame tagging</li> </ul>
	<ul> <li>1 Gigabit 45 jack for Gigabit camera control. Optional NBASE2.5 Ethernet connection</li> </ul>
Camera Outputs	<ul> <li>Ready out BNC connector</li> </ul>
	<ul> <li>Sync out BNC connector</li> </ul>
	<ul> <li>SDI video out BNC connector</li> </ul>
	■ Idle status LED
	<ul><li>Armed status LED</li></ul>
	<ul><li>Ready status LED</li></ul>
	<ul><li>Recording status LED</li></ul>
	<ul> <li>Download status LED</li> </ul>
	■ Power on status LED
	<ul> <li>Battery charge status LED. Optional when equipped with internal battery backup</li> </ul>
Video Output	<ul> <li>Live stream to PC VIA gigabit connection</li> </ul>
	■ 1920 x 1080 SDI 60 FPS. Optional
<b>Camera Input Protection</b>	<ul> <li>Reverse input voltage protection</li> </ul>
	<ul> <li>Optically isolated camera inputs</li> </ul>
	ESD circuitry protection
	■ EMI shielding
	<ul> <li>Camera temperature watch dog</li> </ul>
	Camera voltage level indicator
	<ul> <li>Auto re-boot and re-arm on power failure</li> </ul>

B.4	32GB internal SD RAM recording buffer
Memory	<ul> <li>32GB internal SD RAM recording buffer</li> <li>High Speed re-moveable solid state drive. Optional. 256 GB, 512 GB or 1TB</li> </ul>
Camera Firmware	Remote on-site firmware upgrade feature
Record Times	4.6 seconds at 1920 x 1080 , 8 bit depth
Record Tilles	Stream time lengths to camera SSD are frame rate and image size dependant
PC Software Control	Mega Speed Camera Control
i e soitware control	■ Windows, 7 to 10
	<ul> <li>Software control for all camera functions ( frame rate, exposure time, image size etc)</li> </ul>
	<ul> <li>Record to internal SDRAM or internal or external solid state drives</li> </ul>
	<ul> <li>Real time streaming to internal or external solid state drives</li> </ul>
	Download rate control
	<ul> <li>Auto-download and re-arm for next event</li> </ul>
	<ul> <li>Frame time, event and settings stamping</li> </ul>
	<ul> <li>Trigger glitch detection to remove false triggers</li> </ul>
Video Editing Software	<ul> <li>Mega Speed AVI Player</li> </ul>
	<ul><li>Video playback and review</li></ul>
	<ul> <li>Video file clipping and merging</li> </ul>
	<ul> <li>Vertical and horizontal cross hair reticules</li> </ul>
	Thumbnail view
	<ul> <li>MP4 video compression engine to compress edited files and for file sharing</li> </ul>
	Gamma, white balance
	Image cropping
	<ul> <li>Image rotation</li> <li>Image export to ineg. hmp. tiff_DNG_AVI_H 264_MP4_RAW_MSV_PDF</li> </ul>
	<ul> <li>Image export to jpeg, bmp, tiff, DNG, AVI, H.264, MP4, RAW, MSV, PDF</li> <li>Compatible with other vendors software</li> </ul>
	·
	<ul> <li>Video playback time base adjustment tool</li> <li>Basic object tracking , velocity and distance measurement</li> </ul>
	<ul> <li>multi channel data analysis tools synchronized to video file</li> </ul>
	■ Image overlay grid
PC Requirements	Modern day PC running Windows 7 to 10
i e nequirements	■ 500GB minimum hard drive
	■ 8 GB PC RAM
	■ 1 GB Ethernet chip-set
	<ul> <li>1 RJ 45 connection for GB connection to camera</li> </ul>
	<ul> <li>USB 2.0 / 3.0 USB ports for SATA dock cable</li> </ul>
	<ul> <li>CAT6 cable for camera connection</li> </ul>
	■ 17" 1920 x 1080 monitor resolution
Lens Mount	<ul> <li>Nikon F mount. Optional C mount, Canon, Pentax, etc.</li> </ul>
Camera Size	■ 4.5" x 4.9" x 7.35"
Camera Weight	■ 4 lbs.
Camera Body /	<ul> <li>Machined aluminum frame anodized hard coat natural finish for low solar load.</li> </ul>
Structure	<ul> <li>Compact efficient modern design</li> </ul>
	<ul><li>Vented side ribs</li></ul>
	<ul> <li>Heat sink and forced air cooling</li> </ul>
	Convenient detachable 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, 2 top 1/4 x 20 tpi both threaded 0.250 down
Camera Power	■ 12 VDC 25 watts
Requirements	10 VDC to 36 VDC. Optional
	Internal battery. Optional
Temperature / Shock	-5°C - to +40°C. 50G, 10ms, half sine wave, 4 axis, repeated. Optional 100G
Rating	
Frame Rates	■ 3600 fps @ 1920 x 1080. 4.6 seconds record time.
	■ 3785 fps @ 1280 x 1024 6.8 seconds record time.
	<ul> <li>4850 fps @ 1280 x 800</li> <li>6.8 seconds record time.</li> </ul>

Sa65 fps @ 1280 x 720		T
15,750 fps @ 320 x 240     28,722 fps @ 128 x 128     72.4 seconds record time.     8 Note: Maximum speed is only affected by image height. 1920x128 can also be captured at 28,722 FPS  Included In the Box      Camera     Camera     Rocamera 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  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     Solid state drive size ( 240 GB, 512GB or 1TB )     F mount for Nikon, Canon, Pentax     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		■ 5365 fps @ 1280 x 720 6.8 seconds record time.
28,722 fps @ 128 x 128		■ 8000 fps @ 640 x 480 13.8 seconds record time.
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/		your sales representative before placing an order

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

#### **Mechanical Dimensions**

