MEGA SPEED®

MS100K-SC

RESOLUTION AND FPS

Min FPS: 20			Approx. Record Time (Seconds)	
Width*	Height	Max FPS	16 GB RAM	32 GB RAM
1920	1080	2,160	3.8	7.7
1920	800	2,910	3.8	7.7
1920	720	3,230	3.8	7.7
1920	480	4,830	3.8	7.7
1920	320	7,220	3.9	7.7
1920	120	18,800	3.9	7.8
1920	64	34,200	4.0	8.0
1920	32	64,400	4.2	8.4
1920	16	115,000	4.6	9.2
1280	1024	2,270	5.7	11.5
896	600	3,870	8.2	16.5
640	480	4,830	11.5	23.1
256	256	9,000	29.0	58.0

SAMPLE APPLICATIONS

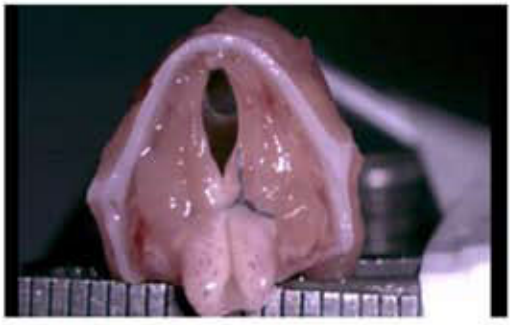
Automotive Testing

Aerospace

Food Processing

Beverage Packaging

Surface Mining



Biology Study

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1: Gigabit Ethernet
2: Power On LED
3: 12 VDC In
4: Ready Out
5: IRIG B
6: Sync In
7: Sync Out
8: Trigger
9: On/Off
10: Standard "C" Mount
11: Armed LED
12: Ready LED
13: Record LED

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

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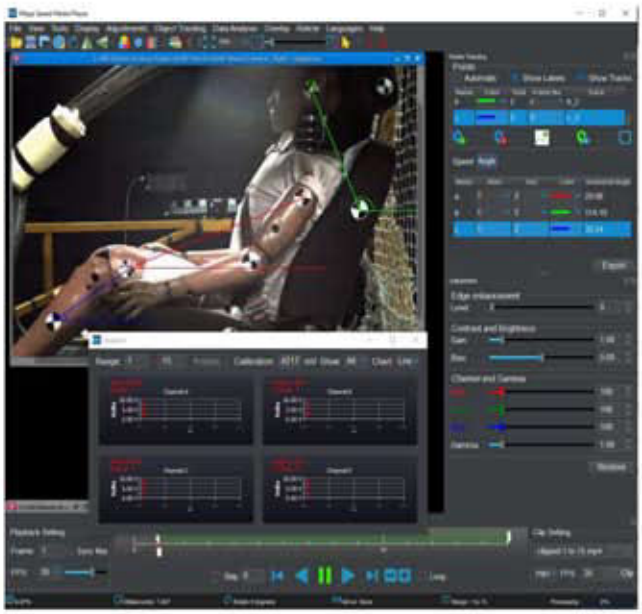

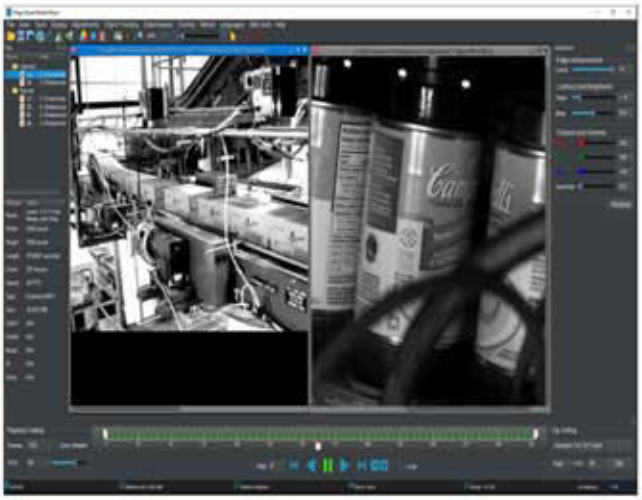

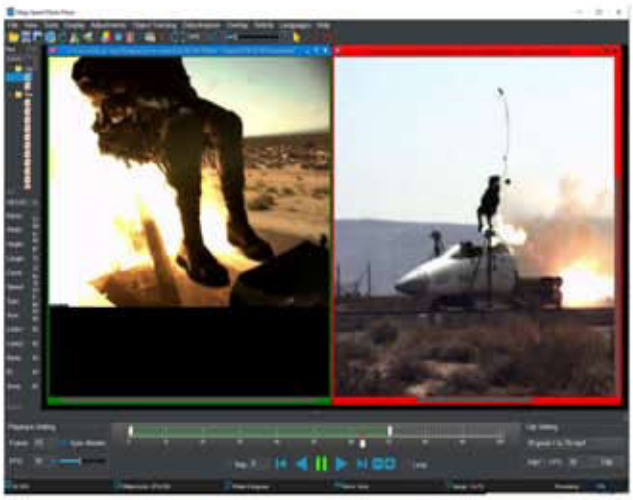

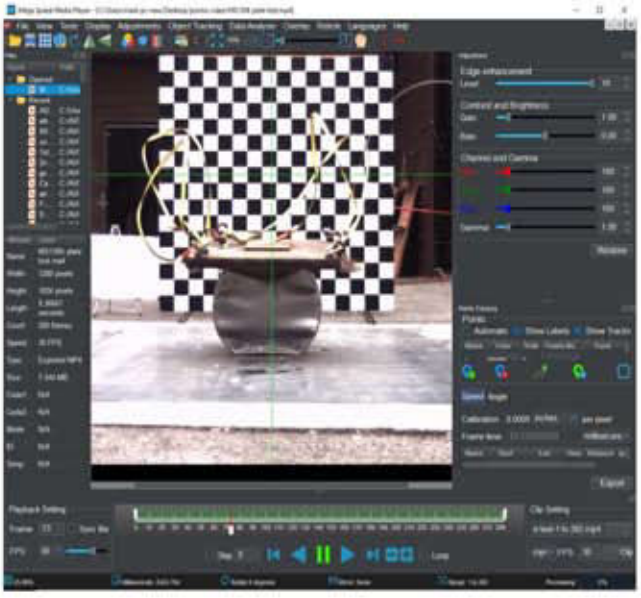

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MS100K-SC SPECIFICATIONS

Sensor Type	Color or monochrome CMOS sensor
Image Sizes	User defined in software
Maximum Resolution	1920 x 1080. 4/3" optical format
Minimum Resolution	64 x 2
Maximum Speed	2100 fps at maximum resolution. Higher speed settings at reduced image resolutions
Pixel Size	10 micron x 10 micron square pixel
Shutter Speed	Global shutter 2 us to 30 ms in 1 us steps
Spectral Response	400nm to 1000nm
ISO	12,500 with boost on (Monochrome)
A-D Converter	8 bit
Trigger In Requirement	3 to 24 VDC, active high through BNC jack. Center pin positive or simple switch closure
Sync Out	TTL 3.3 VDC via BNC jack. Center pin positive active high on exposure
Trigger Modes	Software, manual, pre/post, segmented, synchronized, single sequence or snap shot
IRIG B	IRIG B frame embedded time stamp via BNC jack. Accuracy greater than 50 microsecond
Editing Software	Image analysis, data acquisition, object tracking, AVI editing & image compression
File Saving	User can save in RAW, AVI, JPEG, BMP, TIF, PNG or MP4 format to PC hard drive
Control Software	Mega Speed Camera Control software
Video Pre-view	Live 30 fps preview to host PC during set up and capture via Gigabit Ethernet
Camera Memory	16 GB DDR standard RAM or optional 32 GB DDR RAM
Data Download	Real time digital image review and analysis while downloading from camera memory to control PC
Playback Rate	User selectable in PC software from 1 to 500 fps for fast video review
PC Requirements	RJ 45 Gig E connection, Window 10, 64 bit, 2GHz, 16 GB RAM, 500 Gig HD
Networking	All switches and hubs must be Gigabit Ethernet capable
Camera Cable	Requires Cat 6 Ethernet cable for PC connection and control
Lens Mount	Standard "C" mount. "F" and "G" mounts available
Camera Size	4.5" x 4" x 4"
Camera Weight	900g
Camera Body	Machined anodized aluminum
Power Requirements	120 or 240 VAC for camera power supply or 1.7 amps @ 11 - 13 VDC for direct connection
Shock Rating	100g for 10 milli-seconds 10 times all (6) axis. Operational vibration meets 0.25g, from 5-500Hz
Temperature	Operating temperature is -40° C to 40°C

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