Mega Speed® MS90K-SC

1 Mega Pixel High Speed Camera



4000 FPS @ 1280 x 800 14 micron pixels



Fully Synchronous Image Capture

Mode & Segmented Trigger Mode.

Capabilities, Sync in / Sync out

IRIG B, Pre/ Post Trigger

Specifications

Sensor type: Color or monochrome CMOS sensor.

Image sizes: User defined in software.

Maximum resolution: 1280 x 800. 4/3" optical format..

Minimum resolution: 64 x 2.

Maximum speed 4000 fps at maximum resolution. Higher speed settings at reduced image resolutions.

Pixel size: 14 micron x 14 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" wide x 4" high x 4" long.

Camera weight: 900g.

Camera body: Machined anodized aluminum.

Power requirements: 120 or 240 VAC for camera power supply or 1.7 amps @ 11 - 13 V DC for direct connection.

Shock Rating: 120 or 240 VAC for camera power supply or 1.7 amps @ 11 - 13 V DC for direct connection.

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.