

Mega Speed MS90K-B

High Speed Camera

4000 fps @ 1 Mega Pixel Resolution



Frame Rate Summary for 16GB. Double for 32GB

3700 fps @ 1280 x 864 – 4.1 sec record buffer
4014 fps @ 1280 x 800 – 4.1 sec record buffer
4455 fps @ 1280 x 720 – 4.1 sec record buffer
5000 fps @ 1280 x 644 – 4.1 sec record buffer
5000 fps @ 1024 x 644 – 4.4 sec record buffer
6200 fps @ 1280 x 480 – 4.4 sec record buffer
10,000 fps @ 800 x 320 – 4.4 sec record buffer
13,080 fps @ 512 x 240 – 10 sec record buffer
23,852 fps @ 320 x 128 – 15 sec record buffer
Up to 200,000 fps at reduced resolutions

Note: Maximum speed is affected only by image height. 1280x128 can also be captured at 23,852 fps.

Specifications

Sensor Type:	CMOS B/W or Colour (Must be one or the other)
Pixel Size:	14µm x 14µm – 4/3 inch sensor format
Sensitivity:	Monochrome ISO 12,000, Colour ISO 6,000
Shutter Speed:	Global Electronic Shutter 1 µs to 1 second in 1 µs steps
Maximum Resolution:	1280 x 864
Internal Memory:	16GB RAM
Spectral Response:	400nm to 800nm
Bit Depth:	10 bits
Lens Mount:	C-mount or F-mount for type D or G lenses
Camera Size:	100x100x150mm Weight: 1600 grams
Power requirements:	3 amps at 11.2–13 volt DC

Optional SATA Internal Solid State Back-Up Drives

IRIG B ready, accuracy greater than 0.1 milliseconds

Sync in/out and TTL trigger available at back of camera

Pre/Post Trigger Modes

Shock Rating: 100g for 10 milliseconds (Optional)

File Saving: User can save in RAW, AVI, JPEG, BMP or MP4

Playback speeds: User selectable from 1 to 1000 fps for fast video review

PC requirements: Windows XP, 7, 8 or 10, 2GHz, 8GB RAM, 1TB HDD

Gigabit Ethernet: RJ45 input for supplied Cat 6 cable

Camera Software: Provides Camera control, Image analysis, Data acquisition, Object tracking, AVI editing, Note tagging and MP4 compression

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