Mega Speed MS110K

High Speed Camera

3500 fps @ 2 Mega Pixel Resolution

Sensitivity ISO 10,000 monochrome, 5000 colour

<u>Frame Rate Summary</u> for 16GB. Double time for 32GB

1000 fps @ 1920x1080 – 8 sec record buffer
3590 fps @ 1920x1080 – 2.3 sec record buffer
3785 fps @ 1280x1024 – 3.4 sec record buffer
5365 fps @ 1280x720 – 3.4 sec record buffer
8000 fps @ 1280x480 – 3.4 sec record buffer
8000 fps @ 640x480 – 6.9 sec record buffer
15,750 fps @ 320x240 - 14 sec record buffer
15,750 fps @ 1280x240 – 3.4 sec record buffer
28,720 fps @ 128x128 – 36 sec record buffer
28,720 fps @ 360x128 – 12 sec record buffer
Up to 175,000 fps at reduced resolutions

Note: Maximum speed is affected only by image height. 1920x128 can also be captured at 28720 fps.

Specifications

Sensor Type:	CMOS B/W or Colour (Must be one or the other)
Pixel Size:	11µm x 11µm – 4/3 inch sensor format
Sensitivity:	Monochrome ISO 10,000, Colour ISO 5,000
Shutter Speed:	Global Electronic Shutter 2 µs to frame rate in 1 µs steps
Maximum Resolution:	1920 x 1080
Internal Memory:	16GB RAM
Spectral Response:	400nm to 1000nm (monochrome)
Bit Depth:	10 bits
Lens Mount:	C-mount or F-mount for type D or G lenses
Camera Size:	100x100x150mm Weight: 900 grams
Power requirements:	3 amps at 11.2–13 volt DC

SATA Internal solid state back-up drive is optional
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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