Mega Speed® MS70K

Multiple Channel Data Acquisition Synchronized To Each Frame

MS70K

5100 fps @ 512 x 512
10,200 fps @ 512 x 256

Available With Up To 32 Gigabytes Of Memory!

Specifications

Sensor type:	Mega Speed B/W or Color CMOS Sensor.
Maximum resolution:	512 x 512.
Pixel size:	16um x 16um.
Shutter speed:	Global Electronic Shutter 1 us to 1s in 1 us steps.
Spectral response:	400nm to 1100nm.
A-D converter:	10 bits.
Trigger:	3 to 48 VDC with trigger glitch detection from 0 to 46 milliseconds
Trigger modes:	Multiple session & multi-mode.
Strobe out:	TTL 3.3 VDC
Camera size:	4" x 4"x 6".
Camera weight:	1600 grams.
Camera cable:	5 meters standard, 10 to 100 meters optional. FO link is also available out to 30km.
PCI card:	Gigabit PCI card or multiple cameras can be networked with a Ethernet hub.
Multiple cameras	Up to 5 or more cameras per PC. Limited by available network connections
Video output:	High Speed data to host PC or NTSC or PAL out put.
Ethernet:	Gigabit connectivity.
Preview mode:	Optional VGA & NTSC / PAL Preview during high speed capture.
Camera speeds:	User defined in Software in one FPS increments.
Optical interface:	Standard "C" Mount or "F" Mount.
Back focus:	Approximately 17.5mm from sensor surface to outer face of thread barrel.
Power requirements:	3 amps @ 11 - 15 V DC
Gain adjustments:	User selectable from software.
Image sizes:	User selectable from factory defaults or by software selection.
Capture modes:	Auto-matic, manual or multiple session modes. Start/stop by trigger or hot keys.
File saving:	User can save in AVI format, JPEG or BMP format to PC RAM or hard drive.
Image enhancement:	Bitmaps can be sharpened to bring out better details in captured files.
Camera memory:	6 to 32 Gig High Speed RAM. 8 Gig FlASH RAM optional
Data download:	High Speed data download. Less than 90 seconds for 4 Gig from camera to PC.
IRIG B:	Accuracy greater than .1 millisecond
Frame marking:	Multiple frames in captured video can be time stamped & marked for quick reference.
Playback rate:	User selectable from 1 to 1000 fps for fast video review.
PC requirements:	Windows 2000, XP, Vista or later 2GHz, 4 GB RAM, 500Gig HD & CDRW.
Software:	Image analysis, data acquisition, object tracking, AVI editing, note tagging & image compression.
Shock Rating:	100g for 10 milli-seconds

Plasma Jet R & D

Component R & D Testing

Jet Performance Testing

Commercial Jet Ingestion Tests

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