

CrashCamMini™

Model 1540

The CrashCam mini 1540 is a rugged, sealed, high G and vibration-rated camera designed to withstand harsh, space-limited testing environments. Thanks to its ultra-compact design, this camera is best adapted for use in on-board vehicular testing. It can also be used to instrument test dummies. The 1540 comes with 8GB DDR RAM and supports 1440 x 1024 @ 4,000 fps and up to 400 GB removable Micro SD for image storage, as well as live video streams via the HDSDI output. To configure, select either a color or monochrome sensor, a USB-C or 19-Pin interface, and either a C-Mount or Micro Four Thirds Mount.

- Ultra-compact form factor
- HDSDI output
- MicroSD compatible

APPLICATIONS

Automotive, Research

KEY FEATURES

Maximum Resolution	1440 x 1024
Maximum FPS @ Maximum Res	4,000 fps
Maximum FPS	124,000 @ 1440 x 16
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	16.7 x 11.9 mm
Sensor Format	1.3 inch
Pixel Size (micron)	11.60 x 11.60 um
Pixel Depth	12 bit mono 36 bit color
Sensitivity	30,000 ISO Mono, 10,000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	1.5 megapixel
Quantum Efficiency	1

MECHANICAL

Weight	0.27 kg or 0.59 lbs
Dimensions	44 x 44 x 70 mm (W x H x L)
Shock & Vibration	Shock: 200G / Vibration: 40G - All axes
Mount	C-Mount (Standard)

IMAGE CAPACITY

DDR	8GB
MicroSD	Up to 400GB (Tested)



TRIGGERING AND SYNCHRONIZATION

Sync In	Phase-lock TTL, IEEE1588, 1PPS
Sync Out	Frame sync / Strobe
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger
HDSDI	Standard

POWER

Input Voltage	7.5-14VDC
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COMMUNICATION INTERFACE

Ethernet	1000BaseT
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EMBEDDED LOGIC

Debayering	Color Cameras Only
Temporal Noise Reduction	Standard
Dynamic Noise Reduction	Standard
User defined ROI's and LUT's	Standard
Frame to frame Auto-Exposure and Motion Trigger	Standard
Mission Mode for Remote/Autonomous Operation	Standard

SOFTWARE

Motion Studio	Windows 32/64
Motion Inspector	Windows 32/64 - MAC OS X - Apple iOS
Plug-ins/SDK	SDK, LabVIEW™ or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF