

## CrashCamMini™

## Model 3510

The CrashCam mini 3510 is a rugged, sealed, high G and vibration rated camera product designed for use (not exclusively) in harsh, space limited testing environments. Thanks to the ultra-compact design, this camera is best adapted for use in on-board vehicular testing. It can also be used to instrument test dummies. Supports 2560 x 1440 @ 1,000 fps. 8 GB DDR RAM and up to 128 GB removable Micro SD provide the image storage capacity. Live video streams are enabled via the HDSDI output.

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

### APPLICATIONS

Automotive, Research



### KEY FEATURES

Maximum Resolution	2560 x 1440
Maximum FPS @ Maximum Res	1,000 fps
Maximum FPS	40,000 @ 2560 x 16
Operating Temperature	-40+50°C / -40+122°F

### FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	19.2 x 10.8 mm
Sensor Format	1.3 inch
Pixel Size (micron)	7.50 x 7.50 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	3.7 megapixel
Quantum Efficiency	60%

### 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 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