

CrashCam Stick

The CrashCam Stick HD offers up to 1475 fps with a resolution of 1920 x 1536 pixels. This ultra-compact solution for High Frame Rate image acquisition supports all standard features to include flexible synchronization.

- Ultra-compact form factor
- High G Ready
- NF and S Lens Compatible

APPLICATIONS

Automotive Crash Safety (On-Board), Bio-Mechanics, Range - Airborne Weapon Storage Separation



KEY FEATURES

Maximum Resolution	1920 x 1536
Maximum FPS @ Maximum Res	1475 fps
Operating Temperature	-40+40°C / -40+104°F

FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	16.9 x 16.9 mm
Sensor Format	2/3 inch
Pixel Size (micron)	6.6 x 6.6 um
Pixel Depth	10 bit mono 30 bit color
Sensitivity	10,000 ISO Mono, 3,000 ISO Color
Min. Exposure Time	1µs (*Shorter integration optional)
Array	1.9 megapixel
Quantum Efficiency	1

MECHANICAL

Weight	0.09 kg or 0.21 lbs
Dimensions	25 x 92 x 25 mm (W x H x L)
Shock & Vibration	Shock: 200G / Vibration: 40G - All axes
Mount	NF & S Mount (Standard)
IP Rating	IP51

IMAGE CAPACITY

DDR	4,300 Images
MicroSD	TBD

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

POWER

Input Voltage	12VDC
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COMMUNICATION INTERFACE

Ethernet	via USB-C
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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

SOFTWARE

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