

CrashCam Stick HD

The CrashCam Stick HD is the newest member of the CrashCam mini family of rugged, high G cameras built for the demands of vehicular testing environments and beyond. Delivering 1,470 fps at a resolution of 1920 x1080 pixels, or up to 1,000 fps at a resolution of 1920 x1536 pixels, the camera's revolutionary compact design fits in narrow spaces and is capable of withstanding over 200G impact forces. The CrashCam Stick's on-board memory stores 4,300 razor-sharp HD images and for image backup, the camera supports removable MicroSD. The camera comes standard with a C lens mount or can be configured with an NF lens mount for an additional charge. Either camera configuration allows for a swappable S lens mount purchasable with IDT S lenses as a customer-installed accessory. Flexible connectivity options offer easy, out-of-box implementation for single or multi-camera USB-C installations, as well as compatibility with 16-pin, 18-pin and 19-pin camera environments.

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

APPLICATIONS

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

KEY FEATURES

Maximum Resolution	1920 x 1536
Maximum FPS @ Maximum Res	1,000 fps
Operating Temperature	-40+40°C / -40+104°F

FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	8.5 x 6.8 mm
Sensor Format	2/3 inch
Pixel Size (micron)	4.4 x 4.4 μm
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	2.9 megapixel
Quantum Efficiency	50%

MECHANICAL

Weight	0.09 kg or 0.21 lbs
Dimensions	25 x 98 x 24 mm (W x H x L)
Shock & Vibration	Shock: 200G / Vibration: 40G - All axes
Mount	NF & S Mount (Standard)
IP Rating	IP51

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

Model CCS-HD



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

IMAGE CAPACITY

DDR	4,300 HD Images
MicroSD	SanDisk® Extreme Pro 64GB and 128GB SanDisk® Ultra 64GB and 400GB

SOFTWARE

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