



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 up to a maximum frame rate of 1475 fps with 1920 x 1080 pixels, or up to 1000 fps with a maximum resolution of 1920 x 1536 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 SanDisk removable MicroSD cards. The camera is configurable with a choice of C or NF/S lens mounts and a high speed USB-C or 19-pin interface. An extended configuration option provides support for short integration.

- 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 | 1000 fps |
| Operating Temperature | -40+40°C / -40+104°F |

FRAME PROPERTIES

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|---------------------|-------------------------------------|
| 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

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|-------------------|---|
| 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 |

IMAGE CAPACITY

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



TRIGGERING AND SYNCHRONIZATION

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

POWER

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|---------------|-------|
| Input Voltage | 12VDC |
|---------------|-------|

COMMUNICATION INTERFACE

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|----------|-----------|
| Ethernet | via USB-C |
|----------|-----------|

EMBEDDED LOGIC

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|------------------------------|--------------------|
| Debayering | Color Cameras Only |
| Temporal Noise Reduction | Standard |
| Dynamic Noise Reduction | Standard |
| User defined ROI's and LUT's | Standard |

SOFTWARE

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|-----------------------|--|
| 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 |