



CrashCam™

Model CC-4010

IDT's CrashCam™ is a rugged, sealed, high G and vibration rated camera product designed for use (not exclusively) in harsh, Automotive testing environments. Latest CMOS sensor technology produces extremely low-noise images with up to 12-bit mono or 36-bit color. Support for several sensor platforms to deliver various resolutions and frame rates. Power supply and break-out cable for easy out-of-the-box operation are included.

- Solid-state, non-volatile memory
- High dynamic range, low noise
- For use in extreme environmental conditions
- Optional battery backup

APPLICATIONS

Automotive Testing

KEY FEATURES

| | |
|---------------------------|------------------------|
| Maximum Resolution | 2560 x 1600 |
| Maximum FPS @ Maximum Res | 1,000 fps |
| Maximum FPS | 55,000 @ 2560 x 16 |
| Streaming Frame Rate | 65 fps |
| Operating Temperature | -40+50 °C / -40+104 °F |

FRAME PROPERTIES

| | |
|---------------------|-------------------------------------|
| Sensor Type | CMOS - Proprietary |
| Sensor Size | 17.9 x 11.2 mm |
| Sensor Format | 1.3 inch |
| Pixel Size (micron) | 7.00 x 7.00 um |
| Pixel Depth | 12 bit mono 36 bit color |
| Sensitivity | 6,000 ISO Mono 2,000 ISO Color |
| Min. Exposure Time | 1µs (*Shorter Integration optional) |
| Array | 4.1 megapixel |
| Quantum Efficiency | 1 |

MECHANICAL

| | |
|-------------------|-----------------------------------------------------------|
| Weight | 0.69 kg or 1.52 lbs |
| Dimensions | 86 x 63 x 88 mm (W x H x L) |
| Shock & Vibration | Shock: 200G / Vibration: 40G - All axes |
| Mount | C-Mount (Standard), Manual MFT, F & PL Adapter (Optional) |

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 |
| GPS Time Code | Optional |
| HDSDI | Standard |



POWER

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|---------------|----------|
| Input Voltage | 24 VDC |
| Battery | Optional |

COMMUNICATION INTERFACE

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|----------|-----------|
| Ethernet | 1000BaseT |
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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 |
| Frame to frame Auto-Exposure and Motion Trigger | Standard |
| Mission Mode for Remote/Autonomous Operation | Standard |

IMAGE CAPACITY

| | |
|-----|-----------------------------------|
| DDR | 16GB (Standard) - 32GB (Optional) |
|-----|-----------------------------------|

SOFTWARE

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