

# SPECIFICATION SHEET

# **CrashCamMini™**

The CrashCam™ mini 1550 is a rugged, high-G and vibrationrated camera designed to withstand harsh, space-limited testing environments. With its ultra-compact design, this camera has become the industry standard for on-board vehicular testing and instrumentation of test dummies, but its versatility can be leveraged in any industry. The Model 1550 supports 1440 x 1024 resolution with up to 4,850 fps and comes standard with 8GB DDR RAM, USB-C interface and Cmount lens mount. Additional configuration options include an alternative LEMO interface, replacing the USB-C and HDSDI interface with a 16-pin LEMO connector and a motorized Micro Four Thirds lens mount for non-high-G applications. IDT's optional airborne feature includes special nano coating to protect against condensation due to rapid changes in ambient conditions, and supports GiGE Vision and Chapter 10 IRIG standards. Short Integration is offered as an additional optional feature.

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

#### **APPLICATIONS**

Automotive, Research

# KEY FEATURES Maximum Resolution

Maximum FPS @ Maximum Res	4,850 fps	
Operating Temperature	-40+50°C / -40+122°F	
FRAME PROPERTIES		
Sensor Type	CMOS - Proprietary	
Sensor Size	16.7 x 11.9 mm	

1440 x 1024

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Sensor Size	16.7 x 11.9 mm
Sensor Format	1.3 inch
Pixel Size (micron)	11.60 x 11.60 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	1.5 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)

### TRIGGERING AND SYNCHRONIZATION

INIGGENING AND STREETHORIZATION	
Phase-lock TTL, IEEE1588, 1PPS	
Frame sync / Strobe	
TTL & Switch/Circular buffer with on-camera or software trigger	
Standard	

# Model CCM-1550



#### **POWER**

7.5-14VDC	
ON INTERFACE	
2.5 Gbps	
	ON INTERFACE

## 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 Standard Motion Trigger	
Mission Mode for Remote/Autonomous Operation	Standard

## **IMAGE CAPACITY**

DDR	8GB
MicroSD	Up to 400GB (Tested)

### **SOFTWARE**

Motion Studio	Windows 32/64
Motion Inspector	Windows 32/64 - MAC OS X - Apple iOS
MotionPad	Windows 32/64
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

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