

# SPECIFICATION SHEET

### Model CCM-5K05



	Input Voltage	7.5-14VDC		
	COMMUNICATION INT	ERFACE		
	Ethernet	2.5 Gbps		
	EMBEDDED LOGIC			
	Debayering	Color Cameras Only		
	Temporal Noise Reduction	Standard		
	Dynamic Noise Reduction	Standard		
	User defined ROI's and LUT's	Standard		
	<ul><li>Frame to frame Auto-Exposure and</li><li>Motion Trigger</li></ul>	Standard		
I)	IMAGE CAPACITY			
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	_ IMAGE CAPACITY _ DDR	8GB		
		8GB Up to 400GB (Tested)		
	DDR			
	DDR MicroSD			
	DDR MicroSD SOFTWARE	Up to 400GB (Tested)		
axes	DDR MicroSD SOFTWARE Motion Studio	Up to 400GB (Tested) Windows 32/64		
axes	DDR MicroSD SOFTWARE Motion Studio Motion Inspector	Up to 400GB (Tested) Windows 32/64 Windows 32/64 - MAC OS X - Apple iOS		

## CrashCamMini™

The CrashCam<sup>™</sup> mini 5K05 is a special order camera designed with rugged, high-G and vibration-ratings to withstand harsh, space-limited testing environments. With its ultra-compact design, this camera has become the industry standard for onboard vehicular testing and instrumentation of test dummies, but its versatility can be leveraged in any industry. The Model 5K05 supports 5120 x 2880 resolution with up to 500 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.

- 5K Resolution
- Ultra-compact form factor
- HDSDI output
- MicroSD compatible

#### **APPLICATIONS**

Automotive, Research

#### **KEY FEATURES**

Maximum Resolution	5120 x 2880	
Maximum FPS @ Maximum Res	500 fps	
N. :	56 000 0 5100 16	
Maximum FPS	56,000 @ 5120 x 16	
Operating Temperature	-40+50°C / -40+122°F	
operating reinperature	-40TJU C/-40TIZZ F	

#### **FRAME PROPERTIES**

Sensor Type	CMOS – Proprietary
Sensor Size	18.4 x 10.4 mm
Sensor Format	1.3 inch
Pixel Size (micron)	3.51 x 3.51 μm
Pixel Depth	12 bit mono 36 bit color
Sensitivity	6000 ISO Mono 2000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	12 megapixel
Quantum Efficiency	1

#### **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), Motorized MFT

#### **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
HDSDI	Standard