

The IDT NX-Series is a compact camera system with flexible mounting options designed for harsh testing environments such as automotive impact testing. 5GB of on-board DDR memory provide storage for up to 3,877 full resolution images. The NX is rated up to 200G in shock and 40G in vibration and supports all optical interfaces from 1" aperture. Power supply and break out cable for easy out-of-the-box operation are included.



KEY FEATURES

Maximum Resolution	1024 x 1024
Maximum FPS @ Maximum Res	3,000 fps
Maximum FPS @ Maximum Res (Plus Mode)	6,000 fps
Maximum FPS	160,000 @ 1024 x 8
Operating Temperature	-40+50 °C / -40+122 °F

SENSOR

Sensor Type	CMOS - Proprietary
Sensor Size	14.0 x 14.0 mm
Sensor Format	1 inch
Pixel Size (micron)	13.68 x 13.68 um
Pixel Depth	10 bit mono 30 bit color
Sensitivity	6000 ISO Mono 2000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	1.0 megapixel
Quantum Efficiency	60%

MECHANICAL

Weight	0.48 kg or 1.06 lbs
Dimensions	64 x 64 x 69 mm (W x H x L)
Shock & Vibration	Shock: 200G / Vibration: 40G - All axes
Mount	C-Mount standard , F Adaptor optional
IP Rating	0

IMAGE CAPACITY

Image Storage @ Max Frame Rate (DDR 5)	3,877
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INPUT

Sync-in	Phase-lock TTL
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger

OUTPUT

Sync Out	Frame sync / Strobe
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POWER

Input Voltage	14-36VDC
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COMMUNICATION

Ethernet	100/1000BaseT
PCie	0

SOFTWARE

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