NX

Model NX4

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 for full frame resolution storage. 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.

• Durable, compact, High G rated
• Flexible mounting options
• Supports many resolutions and speed grades

APPLICATIONS

Automotive testing, R&D, Laboratory, Media

KEY FEATURES

Maximum Resolution	1024 x 1024
Maximum FPS @ Maximum Res	2,000 fps
Maximum FPS @ Maximum Res (Plus Mode)	4,000 fps
Maximum FPS	94,000 @ 1024 x 8
Operating Temperature	-40+50 °C / -40+122 °F

FRAME PROPERTIES

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	1

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)

TRIGGERING AND SYNCHRONIZATION

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

POWER

Input Voltage	14-36VDC

COMMUNICATION INTERFACE

Ethernet	100/1000BaseT

EMBEDDED LOGIC

Debayering	Color Cameras Only
Temporal Noise Reduction	Standard
User defined ROI's and LUT's	Standard
Frame to frame Auto-Exposure and Motion Trigger	Standard

IMAGE CAPACITY

DDR	5GB

SOFTWARE

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