NX-Air

Model NXA4

The NX-Air Series is an upgraded package of the NX that includes an on-board battery that allows for over one hour of untethered operation. The NX-Air can also be configured with an optional WiFi™ module for wireless operation. In this configuration, the camera is fully autonomous and can be operated remotely using a laptop, tablet or Mac iOS device like an iPad®. Power Supply, High G Universal Mounting Plate and Break-out cable for easy out-of-the-box operation are included.

• Standalone image capture
• Durable, compact, High G rated
• Supports many resolutions and speed grades

APPLICATIONS

Laboratory, R&D, Media

KEY FEATURES

Maximum Resolution	1024 x 1024
Maximum FPS @ Maximum Res	1,000 fps
Maximum FPS @ Maximum Res (Plus Mode)	2,000 fps
Maximum FPS	50,000 @ 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	0.78 kg or 1.72 lbs
Dimensions	63 x 76 x 97 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
IRIG	Optional (In place of GPS)
GPS Time Code	Standard

POWER

Input Voltage	24 VDC
Battery	Operation and battery back-up up to 2 hours

COMMUNICATION INTERFACE

Ethernet	100/1000BaseT
WiFi	Optional

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