



NX-Air

Model 5

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 | 2336 x 1728 |
| Maximum FPS @ Maximum Res | 730 fps |
| Maximum FPS @ Maximum Res (Plus Mode) | 1,460 fps |
| Maximum FPS | 110,000 fps @ 2336 x 8 |
| Operating Temperature | -40+50 °C / -40+122 °F |

FRAME PROPERTIES

| | |
|---------------------|-------------------------------------|
| Sensor Type | CMOS - Proprietary |
| Sensor Size | 16.4 x 12.1 mm |
| Sensor Format | 1 inch |
| Pixel Size (micron) | 7.00 x 7.00 um |
| Pixel Depth | 10 bit mono 30 bit color |
| Sensitivity | 3000 ISO Mono 1000 ISO Color |
| Min. Exposure Time | 1µs (*Shorter Integration optional) |
| Array | 4.0 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) |

IMAGE CAPACITY

| | |
|-----|-----|
| DDR | 5GB |
|-----|-----|



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

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|----------|---------------|
| Ethernet | 100/1000BaseT |
| WiFi | Optional |

EMBEDDED LOGIC

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|---|--------------------|
| 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 |

SOFTWARE

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|-----------------------|--|
| 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 |