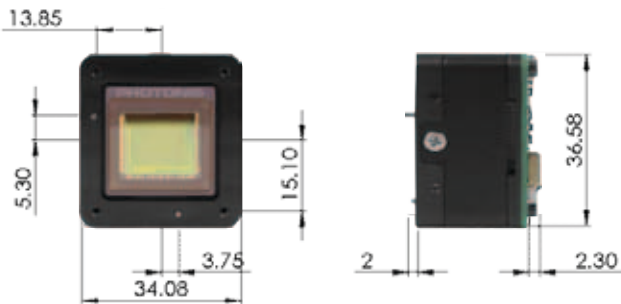
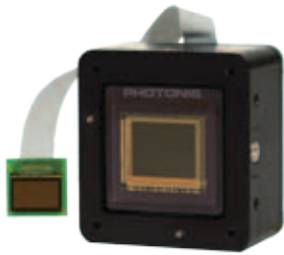


Quantum Efficiency Curve shows > 80% at peak with microlenses.



Mechanical Dimensions for MD Camera Body (in mm)

Technical Specifications

| Module | Specifications |
|--|---|
| Sensor Resolution | 1280 × 1024 Pixels |
| Sensor Pixel Pitch | 9.7 μm × 9.7 μm |
| Sensor Well Capacity | > 25000 e- |
| Sensor Dynamic Range | > 60 dB |
| Sensor Read Noise | < 4e- median at 60 Hz |
| Sensor Frame Rate | Adjustable up to 60 Hz |
| Sensor Quantum Efficiency | > 80% at 650 nm |
| Sensor Image Lag | < 0.1% |
| Sensor Shutter Mode | Rolling |
| Display | |
| Display Type | High resolution monochrome (black/white) OLED microdisplay |
| Display Resolution Modes | 1746 x 1000 or 1280 x 1000 Pixels |
| Display Pixel Pitch | 5 μm x 5 μm |
| Display Maximum Luminance | 250 cd/m ² , 75 fL |
| Display Frame Rate | 60 Hz |
| Features | |
| Imaging Startup Time | < 5 sec |
| On-Screen Display | Full on-screen display capability with text, standard geometrical shapes and graphics |
| Gain Control | Automatic gain and exposure control or manual |
| Digital Zoom | Up to 8X (0.001 image resolution) |
| Contrast Enhancement | Contrast stretching, equalization and adaptive equalization |
| Image Correction | Bad pixel replacement and 2 points non-uniformity correction |
| Housing | |
| Dimensions (excluding connectors) (Width × Height × Depth) | 34.1 mm × 36.6 mm × 25 mm |
| Weight | < 50 g |
| Display Connection | Commercial flex cable |
| Input/Output | |
| Analog Video Output | User-selectable NTSC/PAL |
| External Communications | Industry-standard USB 2.0 Full Speed USB 2.0 Mass Storage for SD Card Support |
| User Interface | Logic level RS-232 serial port |
| Snapshots | On-board capture of *.JPG or *.PGM (8/10b) |
| Environmental and Power | |
| Operating Temperature | -40° C to +60° C |
| Storage Temperature | -50° C to +80° C |
| Input Voltage | USB powered or external +2.6 to +12 VDC |
| Power (Typical) | 1.8 W (typical) |

NOCTURN MD Camera is powered by the Lynx CMOS imaging sensor, optimized for low light level imaging.



The Lynx CMOS imaging sensor is the first operational sensor specifically designed with Night Vision, Homeland Security and Surveillance applications in mind.

This fully solid-state CMOS sensor provides excellent imaging across varying light conditions, from daylight to low-light levels - such as those found during a quarter-moon.

The Lynx CMOS imaging sensor provides full SXGA resolution at 100 frames per second, with < 4e- read-out noise and without cooling.

PHOTONIS

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