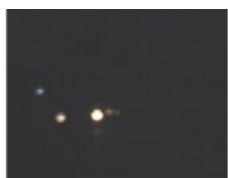


ICI | Watcher Pro



CCD Night Vision



Night Vision with Thermal System



CCD Night Vision



Night Vision with Thermal System

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We are IR™

ICI | Watcher

With an advanced high resolution 384x288 pixel detector, the ICI Watcher on-board thermal camera provides excellent night vision and image enhancement to help drivers identify objects when driving in darkness. Features shake proof technology for clear images, internal heating system to prevent fog and ice on lens's surface, and real-time high resolution image display. Light weight and compact design. Easy installation as well as rich integration options. Comes with IR Flash Software.



Features

- Excellent Night Vision / Image Enhancement
- Internal Heating System
- Dust / Waterproof
- Easy Installation / Integration
- Low Power Consumption ≤ 2.5 W
- Low Weight < 550 g
- Auto Shake Proof Process

Specifications

- **Detector Array:** UFPA
- **Pixel Resolution:** 384x288
- **Pixel Pitch:** 25 μ m
- **Spectral Band:** 8 μ m to 14 μ m
- **Spectral Resolution:** 1.3 mrad
- **Thermal Sensitivity (NETD):**
< 0.1 $^{\circ}$ C at 30 $^{\circ}$ C (100 mK)
- **Accuracy:** ± 1 $^{\circ}$ C
- **FOV:** 24 $^{\circ}$ x 18 $^{\circ}$
- **Focal Length:** 19 mm
- **Frame Rate:** 50 Hz
- **Dynamic Range:** 14-bit
- **Operation Range:** -40 $^{\circ}$ C to 60 $^{\circ}$ C
- **Storage Range:** -45 $^{\circ}$ C to 65 $^{\circ}$ C
- **Focus:** Fixed
- **Zoom:** 4x
- **Detection distance (person):** > 450 m
- **Recognition distance (person):** > 150 m
- **Detection distance (object):** > 600 m
- **Recognition distance (object):** > 200 m
- **Image Process:** Auto, Shakeproof Process
- **Image Enhancement:** Yes
- **Image Polarity:** White Hot, Black Hot
- **Video Output:** PAL
- **Digital Video:** Optional 14-bit
- **Display Resolution:** 768x576
- **Encapsulation:** IP67
- **Dimensions (without lens):**
< 65 x 65 x 35 mm (H x W x D $\pm .5$ mm)
- **Weight:** < 550 g
- **External Input:** DC 12V ± 0.2 V
- **Power Consumption:** ≤ 2.5 W (10 W max)
- **Humidity:** 5% ~ 95% non-condensing
- **Pixel Operability:** > 99%

Applications

- Transportation/Automotive
- Vehicle Integration
- Security Monitoring
- Building Security
- Real Time Inspections



Lens & Software Options

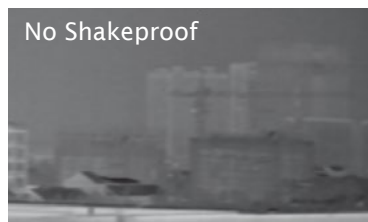
- C Lens mount
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)
- IR Flash Software



CCD Night Vision



Night Vision with Thermal System



No Shakeproof



With Shakeproof

