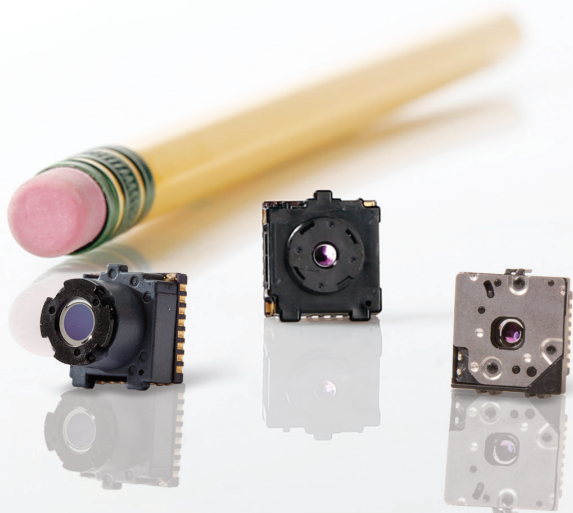


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FLIR LEPTON[®]

Longwave Infrared (LWIR) Camera Module

The FLIR Lepton is an LWIR camera solution that is smaller than a dime, can fit inside a cell phone, and is ten times less expensive than a traditional IR camera. Using a focal plane array (FPA) of 80 × 60 active pixel, Lepton easily integrates into native mobile-devices and other electronics as an IR sensor or thermal imager.

ENHANCED IR SENSOR

Greater sensitivity than common thermopile arrays

- Thermal sensitivity <50 mK
- Optional temperature-stable output to support radiometric processing
- Low operating power, 150mW
- Low power standby mode

MICRO THERMAL IMAGER

Uncooled thermal imaging for small electronics

- Integrated digital thermal image processing
- Multiple lens options: 50° / 25° FOV
- Shutter option available
- Fast time to image (<0.5 seconds)

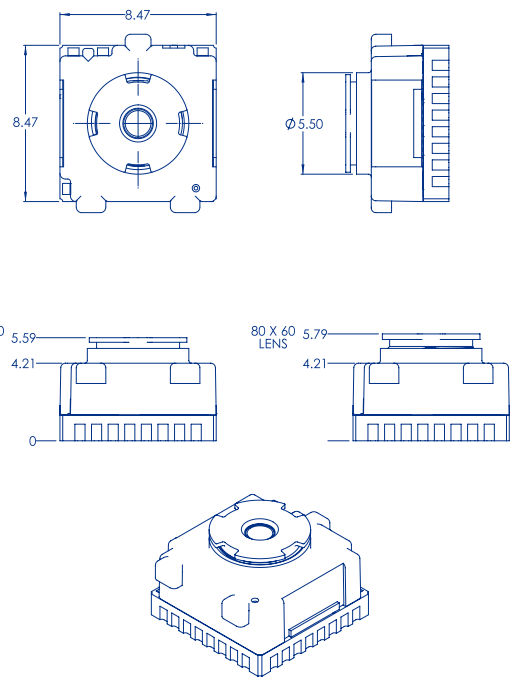
EASE OF INTEGRATION

Simplifies development and manufacturing of thermal-enabled devices

- 8.5 x 8.5 x 5.6 mm package
- Export Compliant (<9Hz)
- MIPI and SPI video interfaces
- Uses standard cell phone-compatible power supplies
- Two-wire serial control interface
- 32-pin socket interface to connector

Specifications

| Overview | LEPTON 50° shutterless | LEPTON 25° | LEPTON 50° w/shutter |
|-------------------------------------|---|------------------|------------------------|
| Sensor technology | Uncooled VOx microbolometer | | |
| Spectral range | Longwave infrared, 8 μm to 14 μm | | |
| Array format | 80 × 60, progressive scan | | |
| Pixel size | 17 μm | | |
| Effective frame rate | 8.6 Hz (exportable) | | |
| Thermal sensitivity | <50 mK (0.050° C) | | |
| Temperature compensation | Automatic. Output image independent of camera temperature. | | |
| Non-uniformity corrections | Shutterless, automatic (with scene motion) | | Automatic with shutter |
| Image optimization | Factory configured and fully automated | | |
| FOV - horizontal | 51° | 25° | 51° |
| FOV - diagonal | 63.5° | 31.3° | 63.5° |
| Output format | User-selectable 14-bit, 8-bit (AGC applied), or 24-bit RGB (AGC and colorization applied) | | |
| Solar protection | Integral | | |
| Electrical | | | |
| Input clock | 25-MHz nominal, CMOS IO Voltage Levels | | |
| Video data interface | Video over SPI | | |
| Control port | CCI (I2C-like), CMOS IO Voltage Levels | | |
| Input supply voltage (nominal) | 2.8 V, 1.2 V, 2.5 V to 3.1 V IO | | |
| Power dissipation | Nominally 150 mW at room temperature (operating), 4 mW (standby) | | |
| Mechanical | | | |
| Package dimensions – socket version | 8.5 × 8.5 × 5.6 mm (w × l × h) | | |
| Weight | 0.55 grams (typ) | 0.55 grams (typ) | 0.55 grams (typ) |
| Environmental | | | |
| Optimum operating temperature range | -10 °C to +65 °C | | |
| Non-operating temperature range | -40 °C to +80 °C | | |
| Shock | 1500 G @ 0.4 ms | | |



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