

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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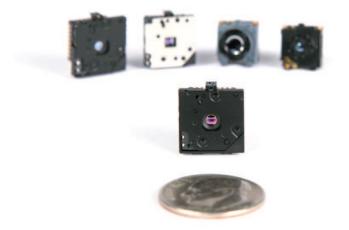
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FIIR

High Resolution Micro Thermal Camera

The FLIR Lepton 3, FLIR's highest resolution LWIR micro thermal camera solution, delivers full 160 x 120 thermal resolution — a 4x increase over earlier Lepton versions. The revolutionary Lepton was the first complete longwave infrared thermal camera small enough to be used in smartphones and other mobile devices. The new, higher resolution Lepton 3 gives users better image detail in a powerful, compact, lightweight package for even greater utility in commercial applications as both a thermal camera and a detection sensor. Smaller than a dime and ten times less expensive than a traditional IR camera, the 160 x 120 resolution Lepton brings high quality thermal vision everywhere.

ENHANCED IR SENSOR

Greater resolution & sensitivity than common thermopile arrays

- 160 x 120 active pixels
- Thermal sensitivity <50 mK
- Low operating power 140 mW typical, 650 mW during shutter event
- Low power standby mode

MICRO THERMAL IMAGER

Uncooled thermal imaging for small electronics

- 56° lens
- Integrated digital thermal image processing
- Integrated shutter
- Fast time to image (<0.5 seconds)

EASE OF INTEGRATION

Simplifies development & manufacturing of thermal-enabled devices

- Small 11.8 x 12.7 x 7.2 mm package
- SPI video interfaces
- Uses standard cell phone-compatible power supplies
- Two-wire serial control interface
- 32-pin socket interface to connector



Specifications

Overview	Lepton 3
Sensor technology	Uncooled VOx microbolometer
Spectral range	Longwave infrared, 8 μm to 14 μm
Array format	160 x 120, progressive scan
Pixel size	12 µm
Effective frame rate	8.8 Hz (commercial application exportable)
Thermal sensitivity	<50 mK (0.050° C)
Temperature compensation	Automatic. Output image independent of camera temperature.
Non-uniformity corrections	Automatic with shutter
Scene dynamic range	Low Gain Mode: up to 450°C; High Gain Mode: up to 150°C
Image optimization	Factory configured and fully automated
FOV - horizontal	56°
FOV - diagonal	71°
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, 2.8 V to 3.1 V IO
Power dissipation (Typical, room temp)	140 mW (operating), 650 mW (during shutter event), 4 mW (standby)
Mechanical	
Package dimensions – socket version (w x l x h)	11.8 x 12.7 x 7.2 mm
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Weight	0.9 grams
, ,	·
Weight	·
Weight Environmental Optimum operating	0.9 grams

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