



FLIR Radiometric Lepton Dev Kit V2

KIT-15948 ROHS ✓

DESCRIPTION

INCLUDES

FEATURES

DOCUMENTS

- LWIR sensor, wavelength 8 to 14 μm
- 50° HFOV, 60° diagonal
- 80 (h) \times 60 (v) active pixels
- Thermal sensitivity <50 mK
- Radiometric accuracy (35°C Blackbody) Greater of:
 - High gain: $\pm 5^\circ\text{C}$ @ 25°C
 - Low gain $\pm 10^\circ\text{C}$ @ 25°C
- Pixel Size: 17 micrometers
- Frame Rate: 9 Hz.
- Output Format: User-selectable 14-bit, 8-bit (AGC applied), or 24-bit RGB (AGC and colorization applied)
- SPI and I2C camera module interfaces
- Fast time to image (< 1.2 sec)
- Low operating power, nominally 150 mW (< 160 mW over full temperature range)
- Input Voltage of 3V to 5.5V
- 25-MHz reference clock (can be by-passed)
- Power Efficient 1.2V core voltage (can be by-passed)
- Dual Low Noise LDO for 2.8V voltage (can be by-passed)

Tags

BREAKOUT

DEVELOPMENT

FLIR

IMAGING

INFRARED

KIT

LEPTON

RADIOMETRY

SENSOR

images are CC BY 2.0



Previous Versions ▾

FLIR Radiometric Lepton Dev Kit V2 Product Help and Resources

VIDEOS

SUPPORT TIPS



Product Showcase: FLIR Lepton 2.5

JUNE 28, 2018

COMMENTS

2

REVIEWS

0

Comments

[Log in](#) or [register](#) to post comments.



 [Member #1566971](#) / about a month ago / ★ 1

What is the maximum temperature that this sensor can read?

 [Santa Claus Impersonator](#) / about a month ago / ★ 1

Hi there, it sounds like you are looking for [technical assistance](#). Please use the link in the banner above, to get started with posting a topic in our [forums](#). Our technical support team will do their best to assist you.

That being said, a [datasheet](#) for the Lepton core is linked on the [product page](#), which is linked under the **Documents** section above. The range listed, varies based on the gain used for the camera core.



High Gain Mode: -10°C to 140°C

Low Gain Mode: -10°C to 450°C



SUBSCRIBE TO NEWSLETTER

About Us

[About SparkFun](#)
[Press & Media](#)
[SparkFun Education](#) 
[Feeds](#) 
[Jobs](#)
[Contact](#)

Programs

[Become a Community Partner](#)
• [Community Stories](#)
[Custom Kit Requests](#)
[Tell Us About Your Project](#)
[Sell Your Widget on SparkFun](#)
[Become a SparkFun Distributor](#)
[Large Volume Sales](#)

Help

[Customer Service](#)
[Shipping](#)
[Return Policy](#)
[FAQ](#)
[Chat With Us](#)

Community

[Forum](#)
[Take the SparkFun Quiz](#)
[SparkFun Kickstarter Projects](#)
[Distributors](#)

In 2003, CU student Nate Seidle fried a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

SparkFun Electronics ® / [Niwot, Colorado](#) / [Customer Service](#) / [Site Map](#) / [Terms of Service](#) / [Privacy Policy](#)

Questions? [Feedback?](#) powered by [Olark live chat software](#)