

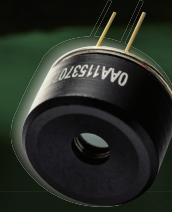
# Melexis

INSPIRED ENGINEERING

MLX90641

16X12 PIXEL

INFRARED (IR)  
ARRAY



Pit viper snakes have a cool heat sensing system to find prey in the dark. The pit is a special organ that senses body heats from animals and gives an infrared heat vision which accurately judges distance and size.

## ROBUST THERMAL SENSING

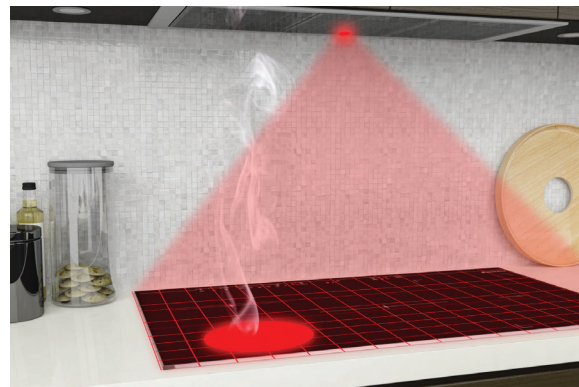
Suitable for demanding thermal environments with extended operating temperature range (-40 °C to 125 °C).

### MLX90641

Provides enhanced performance in thermally challenging environments while still occupying an attractive price point. Primary applications for this device include people detection, fire prevention, automotive interior comfort, industrial and cooking applications.

### KEY FEATURES

- ✓ Extended operating temperature range (-40 °C to 125 °C)
- ✓ Enhanced thermal stability
- ✓ Low noise equivalent temperature difference (NETD) 0.1K RMS at 4 Hz refresh rate
- ✓ Evaluation board available
- ✓ I<sup>2</sup>C compatible digital interface
- ✓ Two different field of view (FoV) options: standard 55° x 35° and 110° x 75° wide angle
- ✓ Measurement object temperature between -40 to 300 °C
- ✓ A typical target object temperature accuracy of 1 °C
- ✓ No re-calibration needed
- ✓ 4-pin TO39 package incorporating the requisite optics
- ✓ Programmable refresh rate (in several steps between 0.5 and 64 Hz)



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