

MLX90640

32X24 PIXEL INFRARED (IR) ARRAY

Like the pit viper, get access to the thermal world around you with the MLX90640.

MLX90640

Addresses growing demands seen across numerous applications for thermal analysis. The sensor provides enhanced resolution while still occupying an attractive price point. Primary applications for this device include people detection, fire prevention, building automation, lighting control, surveillance and air conditioning systems.

KEY FEATURES

- -40°C to 85°C operational temperature range, allows deployment in difficult industrial environments
- Can measure object temperatures between -40°C and 300°C
- A typical target object temperature accuracy of ±1°C, precision across its full measurement scale
- Noise equivalent temperature difference (NETD) of just 0.1K RMS at a 1Hz refresh rate, offers superior noise performance
- Unlike microbolometer solutions, this sensor does not need re-calibration to specific temperature requirements ensuring greater convenience and lowering operational expense
- Two different field of view (FoV) options standard 55°x35° version and a 110°x75° wide angle version



- Supplied in a 4-pin TO39 package, with the compact dimensions lowering the overall cost of the thermal imaging system
- I²C compatible digital interface, simplifying integration

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