

# MI0802 Product Brief

## Overview:

Meridian Innovation's MI0802 is a long-wave infrared (LWIR) thermal imaging camera module, powered by SenXor™ technology and featuring 4,960 pixels arranged in an 80 x 62 pixels focal point array (FPA).

The data will process through our MI48 Thermal Image Processor (TIP) and transform the radiometric into K. The SDK will provide the complex filters and image processing on host for temperature information as well as image.

## Applications:



### Monitor beyond visual spectrum

- Baby & elderly care
- Fever detection
- Manufacturing & construction
- Power distribution
- Mobile phone attachments

### IoT with smart/AI sensing

- Home appliances
- HVAC systems
- Surveillance
- Office and Home Lighting
- Street Lighting

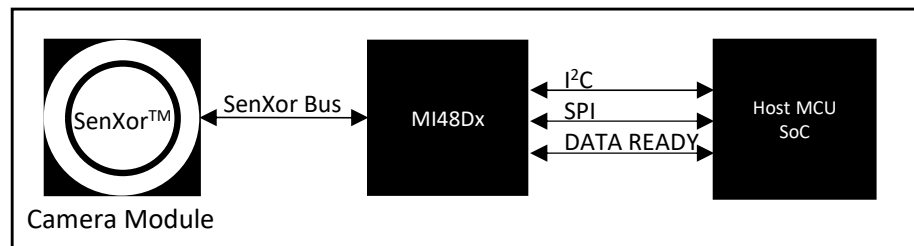
## Camera Modules:

Part no.	MI0802M5S	MI0802M6S	MI0802M7G
			
Resolution	80 x 62	80 x 62	80 x 62
FOV (D/H/V)	56/44/34	122/86/63	133/97/73
Module Dimension	9 x 9 x 8.2 mm	9 x 9 x 8 mm	9 x 9 x 5 mm
IR Wavelength	8 - 14µm		
Operating Temperature	-40 to 85°C		
Max scene temperature range	-40 to 400°C		
Interface	SPI		
Power supply	3.3V		
Power consumption	40mW		

# Companion Parts

## Thermal Image Processor (TIP)

MI48Dx acts as a processor for raw sensor data from the thermal imaging array. With standard communication interfaces such as I2C and SPI, as well as per-pixel calibration and bad pixel correction, the MI48Dx greatly simplifies the development of applications using the MI0802. Additionally, a dedicated voltage regulator is recommended to ensure optimal temperature readout accuracy and stability.

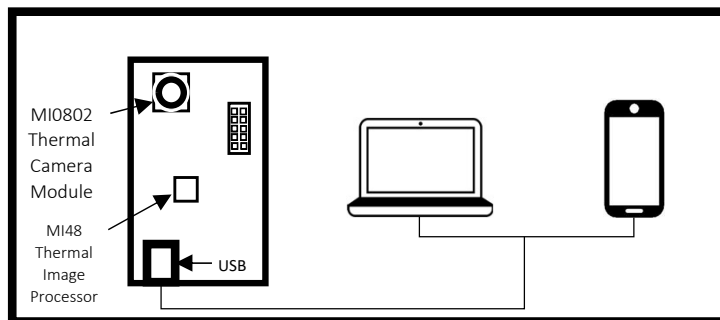


Part Number	Description
MI48Dx	TIP Core Board for MI0802 modules

## Evaluation Kit (EVK)

The MI0802 Camera Module EVK contains

- MI0802 Camera Module
- MI48Dx Thermal Image Processor Core Board
- Graphical User Interface (GUI) software



Part Number	Description
MI48A0PM	TIP Core Board for MI0802 modules * Camera module is order separately depends on FOV required

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