

Key Features

Compact dimensions (<3 cm³)

MS0835A LWIR sensor

Embedded fixed-focus LWIR lens

Embedded miniature shutter

Ease of integration with standard digital peripherals

All-in-one solution for IR camera developers



Technical Specifications

Detector Technology	MS0835A, 80x80 FPA with 35µm detector pitch
Wavelength	7.5µm – 13.5µm (LWIR) Embedded miniature shutter
NETD	< 250 mK @ 9fps
Field of View (FOV)	66.6° (H) x 66.6° (V), 98.2° (Diagonally)
Frame Rate	Up to 30 fps, configurable
Electrical Power Dissipation	< 300 mW, depends on user settings
External Power Requirements	3.3V analog and 3.3V digital supply
Core Control Interface	3-wire SPI
Digital Video Output	3-wire SPI
Video Synchronization	Digital synchronization signals
Weight	< 5gr with core housing, lens, and shutter
Physical Dimensions	17mm x 17mm x 8mm (h)

Availability

- Pre-tested cores will be available as engineering samples @ Q1/2017
- USB powered plug-and-play evaluation module will be available @ Q1/2017
- Reference camera design, example firmware, and universal API will be available @ Q1/2017

