

# MSCAM1650

## Miniature LWIR Camera

### Applications

Automotive

Security and Surveillance

Advanced Presence Detection

Machine Vision

Consumer Electronics



### Technical Specifications

Sensor FPA	MS1650B, 160x120 FPA with 50µm detector pitch
Lens Options	F/1.3, F/1.2 and F/1.0, no shutter included
Spectral Range	7.5µm – 13.5µm (LWIR)
Dimensions	2.0 inch cube
Weight	80g with F/1.2 optics
Electrical Power	< 500mW, USB powered
Electrical Interface	USB 2.0 compatible standard data stream CMOS parallel data available with synchronization signals
Camera Electronics	Sensor is directly wire bonded on the PCB Power regulators, low noise ADC, low power MCU
Frame Rate	Up to 30fps (may be limited by the connected mobile platform)
Video Signal Resolution	16 bits
Data Stream	16 bits resolution, frame/row tagging
Software	Available with advanced image processing capabilities and SDK
Platform	Compatible with any MS Windows© powered hardware with USB 2.0 interface and most of the Android© powered mobile phones and tablets
Availability	Tested dies and wafers are available as engineering samples