MS1635A

Cost-Effective LWIR Sensor

Key Features

160x120 FPA size

35µm detector pitch

Wafer-level vacuum packaged

Supports both 3-wire SPI and I2C programming interfaces

Ultra low-cost CMOS infrared (CIR) microbolometer technology Patent granted

Technical Specifications

CMOS Infrared (CIR) Microbolometer Detector Technology 7.5µm – 13.5µm (LWIR) Wavelength **FPA Size** 160 x 120 Detector Pitch 35µm < 250 mK @ 17 fps with F/1 optics NETD < 110 mK @ 4 fps with F/1 optics **Electrical Power Dissipation** < 30 mW 3.3V analog, 1.8V digital power supply Frame Rate Up to 30 fps, programmable Readout Mode **Rolling line** Readout Gain Programmable Video Output Pseudo-differential analog output, 2.0V swing Sensor Programming Interface Selectable 3-wire SPI or I2C interfaces Provides frame, line and pixel syncronization signals Video Synchronization 8" CMOS wafers, 7.7mm x 8.6mm expected die Physical Dimensions dimensions Tested dies and wafers will be available as Availability engineering samples @ Q4/2017 Testing platform (electronics, firmware, software, Engineering Characterization Platform and SDK) will be available @ Q4/2017 www.mikrosens.com.tr **Mikrosens Electronics** sales@mikrosens.com.tr

UNDER DEVELOPMENT

