MICROBOLOMETER
TYPE UNCOOLED DETECTORS

- LWIR (8µm - 12µm) SPECTRAL RESPONSE
- HIGH RESPONSIVITY
- APPLICABLE FOR WIDE RANGE OF FRAME RATES
- LOW POWER CONSUMPTION
Microbolometer type uncooled detectors are used to create a thermal image by transferring infrared energy to visible pattern. These detectors, which are manufactured using MEMS technology, are low cost detectors, since they do not require cooling.

ASELSAN has developed comprehensive design capabilities and is in the process of building a dedicated in-house production infrastructure for MEMS based uncooled IR microbolometer detectors.

Main Features

- 640x480 array format 17µm pitch size
- 384x288 array format 25µm pitch size
- LWIR (8µm - 12µm) Spectral Response
- High Responsivity
- Applicable for wide range of frame rates
- Low power consumption
- High pixel array operability
- Ceramic/metal vacuum packaging options
- Military grade
- Compact Size