



Application Set

For demonstration and easy application of our arrays we designed an evaluating processor unit in a modular metal case for better handling. The module's field of view depends on housing, the built-in lens and can be varied on demand.

The object temperature range can be easily changed by software.

The digital data stream is transferred from the module to the PCB via SPI and contains the signal voltages of the elements, the offset of the amplifiers and the ambient temperature information of the module. The analogous data stream contains the same information and can be sampled by an external ADC. The microcontroller processes the data and sends it via RS232 or TCP/IP to a PC. On PC side the data stream is logged and visualized with a Graphical User Interface.

The given software allows you to start your measurements and testing almost immediately.

Applications

- Person detection
- Fire detection
- Hotspot detection
- Energy management
- Security cameras
- Industrial process control
- Air condition control

Benefit

- Low cost
- Low power consumption
- Short time constant
- High sensitivity of the system
- TO8/TO39 housing

Options:

- Communication via RS 232 or TCP/IP
- Several Lenses for different field of view

Software features:

- False color images with auto scaling
- Selectable frame rate
- Data log mode
- Contrast adjustment
- Interpolation
- Temperature display

Included in delivery:

- Array module
- Cable interface
- AC adapter
- Tripod
- Software

Module dimension:

- Diameter 28 mm; length approx. 95 mm

