For easy development of thermal imaging, hotspot detection, person detection and other thermo graphical devices our calibrated modules are the ideal solution. The HTPA82x62 is now added to the portfolio of Heimann Sensor and has currently the highest resolution with 5084 pixel. The module's field of view depends on the optics and can be varied on demand. It is possible to build customer specific optics, as well as to use customer specific measurement ranges for calibration.

The communication can be chosen to be either UDP or SPI. The interface type can be selected according the needs of the customer. The UDP module is ready to plug via a CAT5 cable to network and can be controlled via a customized software or the Heimann Sensor HTPA ArraySoft. If the customer wants to connect more than one module to a microcontroller, the SPI interface is a good choice. For the SPI version there is our SDK available, which also transfers the fetched SPI data to the GUI via Ethernet.

**Features:**
- 82x62 Pixel
- Pitch 100 µm
- Frame Rate 9 Hz
- NETD 115 mK @ 9 Hz
- Spectral Range: 3-14 µm or 8-14 µm

**Benefits:**
- Communications via SPI or RJ45/Ethernet/UDP
- Calibrated, ready to assemble

**Optics and FOV:**
- L11: 40x31 deg
- L22.5: 20x15 deg
- Customized Optics on demand

**Module dimensions:**
- SPI module: 25x45 mm²
- UDP module: TBD
Applications:

- Person detection
- Office automation
- Fireguard and Security
- Room Occupancy

- Epidemic disease warnings
- Ambient assisted Living
- Building Security

- Fire detection
- Hotspot detection
- Maintenance
- Energy Saving

- Building Thermography
- Energy management
- Security cameras
- Industrial process control
- Air condition control

- Medical
- Fever detection
- Early disease diagnostics