

armstrong optical

IR106 thermal imaging sensor module



Technical Specification

Detector

- Type: uncooled FPA microbolometer (160x120 pixel, 35um)
- Spectral response: 8-14 micron
- Fill factor: >80%
- Response rate: >5mV/K at 30C
- Response time: 10ms
- Non-uniformity: <1%
- Thermal sensitivity: <100mK at 30°C

Power requirement

- Input voltage: 9-12 VDC
- Power consumption: <3.5W

Environmental specification:

- Operating temperature: -20 to +60°C (-40 optional)
- Storage temperature: -40 to +70°C

Physical characteristics:

- Weight: 65gm (excluding lens)
- Size: 47.2 x 42.1 x 35.75mm

Functions & Image performance:

- Gain & offset: automatic or manual
- Electronic zoom: x2, x4 interpolating
- Image display: B&W, inverse B&W (multi colour options)
- Video output: CCIR or RS170 composite video (PAL/NTSC option), (LVTTTL/RS422/FireWire 1394, digital video output option)
- Remote control: RS232 (RS422 option)
- Local control: Supplied keyboard
- FireWire 1394: Image transfer & remote control by PC (option)
- Optics: Various lens options (12mm f/0.7 to 150mm f/1.0)