

Uncooled Thermal Imaging Module



IR113



IR116

IR113/116 is designed for original equipment manufacturers (OEM). It can be easily integrated into infrared systems. IR113/116 produces 384x288 pixels high quality thermal images. Favoring from a lightweight, small size, low power consumption design, it is an ideal choice for customer secondary development and system integration.

Applications

- Industrial thermography
- Predictive maintenance
- Medical diagnosis
- Security application
- System integration
- Research & development

Features and Benefits

- Lightweight and compact
- Low power consumption
- High quality thermal image
- Standard interface for easy integration
- Flexible for customization
- Various lens optional

| | IR113 | IR116 |
|---------------------------------|--|--------------------|
| Detector | | |
| Detector Material | UFPA microbolometer, Asi | |
| Spectral Range | 8~14 μm | |
| Pixels | 384×288 | 160×120 / 384×288 |
| Pitch | 25 μm×25 μm | |
| NETD | < 80mk | < 120mk/ < 80mk |
| Thermal Response Time | 7ms | |
| Fill Factor | >80% | |
| Bad Pixel | 1% | |
| Image Presentation | | |
| Video Output | PAL/NTSC | |
| Frame Frequency | 50Hz /60Hz | |
| Adjust | Auto/Manual brightness & contrast adjustment | |
| Electronic Zoom | ×2, ×4 interpolating | ×2 interpolating |
| Polarity | B&W, B&W inverse(pseudo color optional) | |
| Interfaces | | |
| Command and Control | RS232/422 alternative | |
| Video Output | RCA/BNC alternative | |
| Power System | | |
| Power Supply | 110/220VAC adapter | |
| Power Dissipation | <3.5W | 3W |
| Environmental Parameters | | |
| Operating Temperature | -20~50°C (-40~60°C optional) | |
| Storage Temperature | -20~50°C (-40~60°C optional) | |
| Physical Characteristics | | |
| Weight | 0.09kg | |
| Size | 47.2mm×42.1mm×44mm | 65mm×37.5mm×19.2mm |