GUIDE

# GUIDIR® IR113/118

## Uncooled Thermal Imaging Module

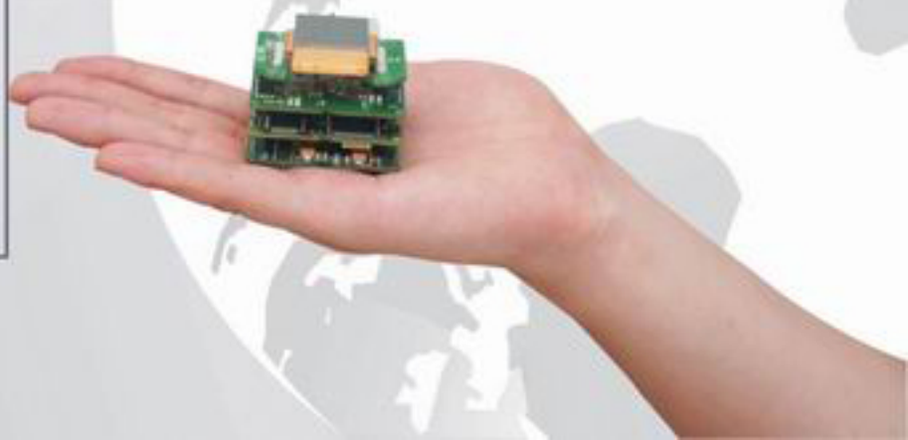
*IR113/118 is designed for original equipment manufacturer (OEM). It can be easily integrated into infrared systems. IR113/118 produces 384x288 pixels high quality thermal images. Favoring from a lightweight, small size, low power consumption design, it is an ideal choice for customer secondary development and system integration.*

### Features and Benefits

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

### Applications

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



# Specifications

| | IR113 | IR118 |
|---|---|---|
| **Detector** | | |
| Detector Material | UFPA microbolometer，Asi | |
| Spectral Range | 8～14μm | |
| Pixels | 384×288 | |
| Pitch | 25μm×25μm | |
| NETD | ＜100mk@30℃ | |
| 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, x4 interpolating | |
| Polarity | B&W, B&W inverse (pseudo color optional) | B&W, B&W inverse |
| Video recording | N/A | live video recording on board |
| Storage media | N/A | 2GB SD card, can be extended to 4GB |
| Storage contents | N/A | images and videos |
| **Interfaces** | | |
| Command and Control | RS232/RS422/RS485 | |
| Video Output | RCA/BNC alternative | |
| USB2.0 | transfer digital live video to PC (optional) | transfer saved images & videos to PC |
| **Power System** | | |
| Power Supply | 110/220VAC adapter | |
| Power Dissipation | <3.5W | ≤3W |
| **Environmental Parameters** | | |
| Operating Temperature | -20℃~+50℃(-40℃~+60℃optional) | |
| Storage Temperature | -40℃~+60℃ | |
| **Physical Characteristics** | | |
| Weight | 0.09kg | 0.07kg |
| Size | 47.2mm×42.1mm×44mm | 39mm×39mm×44mm |

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