



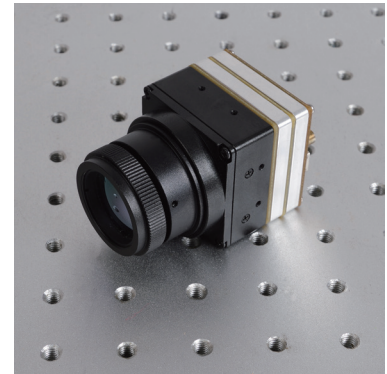
Sensing Reality!

# IM-3C IR Thermal Imaging Module

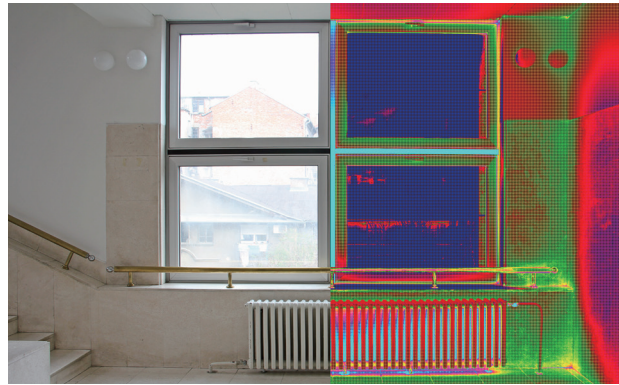
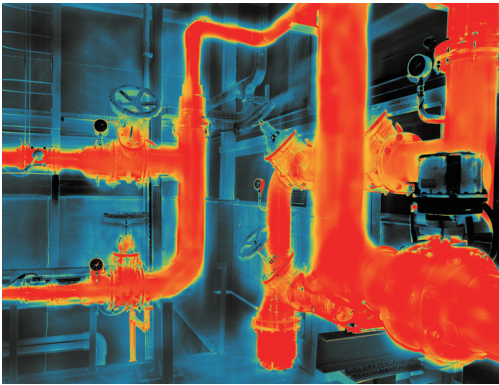


## Introduction

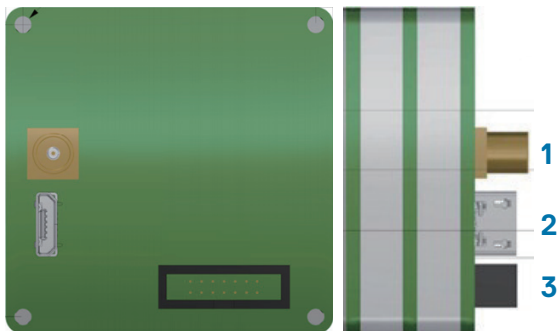
- ▶ The IM-3C is a compact size, high-sensitivity infrared detection module utilizing a professional non-cooling infrared array detector and advanced image processing algorithms. It is a high-quality universal image module designed for system integrators.
- ▶ The IM-3C combines multiple interfaces and rich expandability for a wide range of applications such as automobile night vision, security surveillance, and drones, providing more possibilities for customer's applications.



## Image Sample



## Electrical



| NO. | Definition      |
|-----|-----------------|
| 1   | Image Connector |
| 2   | Power Supply    |
| 3   | Data Connector  |

# IM-3C IR Thermal Imaging Module



## Specification Table

### Basic Specification:

| Item                      | Unit  | Specification                     |
|---------------------------|-------|-----------------------------------|
| Detector Type             |       | Non-cooling infrared array sensor |
| Resolution                | pixel | 320*240                           |
| Pixel Size                | μm    | 17                                |
| Wavelength Range(LWIR)    | μm    | 8~14                              |
| Thermal Sensitivity(NETD) | mK    | ≤50 (@f1.0,300k, 50Hz)            |

### Image Process:

| Item              | Unit | Specification   |
|-------------------|------|---|
| Pseudo-color mode |      | White heat, black heat, iron red, copper, rainbow 1, rainbow 2, etc.        |
| AGC               |      | Wide dynamic range compression  |
| DVE               |      | Intelligent detail enhancement  |
| NUC correction    |      | Automatic calibration at startup, No user involvement required, time < 0.5s |

### Others:

| Item                | Unit | Specification            |
|---------------------|------|--------------------------|
| Interface           |      | SPI、RS232(TTL)           |
| Input               | V    | 5                        |
| Power Consumption   | W    | 1.5                      |
| Connector           |      | Micro-USB、CVBS、50Pin_HRS |
| Working Temperature | °C   | -20~+50                  |
| Storage Temperature | °C   | -30~+60                  |

## Dimensions

