



SF641 Mini-Infrared Module

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| Items | SF641 | SF641R |
| Detector | | |
| Detector Type | Uncooled VOx | |
| Resolution | 640×512 | |
| Pixel pitch | 12μm | |
| NETD | ≤30mK | |
| Frame rate | 50Hz | |
| Spectral range | 8～14μm | |
| Lens | | |
| Athermalized fixed focal lens | 9mm、13mm、25mm、35mm 50mm、75mm | 9mm、13mm、25mm、35mm |
| Temperature measurement | | |
| Range | / | -20℃～+150℃；+100℃～+550℃ |
| Accuracy | / | ± 2℃ or ± 2% (reading range), take the maximum value |
| Modes | / | Center point, highest/lowest temperature, support for removable points, regional temperature measurement, isothermal analysis function development |
| Temperature Correction | / | Distance temperature correction, Emissivity correction, Humidity correction |
| Thermal imaging operations | | |
| Brightness/Gain Adjustment | Manual Brightness/Gain; Auto Brightness/Manual Gain; Auto Brightness/Gain | |
| Image enhancement | Digital Detail Enhancement DDE | |
| Polarity switch | Support | |
| Digital zoom | 1.0-8.0X | |
| Calibration | Manual calibration, automatic calibration at power on. | |
| Noise reduction | Yes | |
| Interface | | |
| Interface content | Power Supply, Analog Video, 16bit Digital Video, Reserved User IO | |
| Analog Video Output | 1 channel PAL or 1 channel NTSC | |
| Digital Video Output | LVCMOS (16bit YUV422, Support BT856) 、USB Type-C (expansion board) | |
| Control | UART(TTL 3.3V) | |
| Power system | | |
| External power supply | DC5V | |
| Power consumption | ≤1.2W (Without Expansion Board) | ≤1W (Without Expansion Board) |
| Environmental | | |
| Working Temp. | -40℃～+70℃ | -20℃～+60℃ |
| Storage Temp. | -45℃～+75℃ | |
| Physical | | |
| Weight | 22g (without lens) | |
| Dimension | 26×26mm (without lens) | |



Suitable for drone, industrial temperature measurement, security monitoring, outdoor targeting and other applications with high requirements for volume and power consumption.

