

# QUANTUMRED

Vision, beyond the limits.



## QuantumRed Mini

Thermal imaging module

Accuracy

Expandability

Efficiency

Temperature Detection  
Accuracy  $\pm 0.3^{\circ}\text{C}$  in  $\pm 1\text{m}$

Simplicity of Plug and Play  
Using USB interface

Embedded Black Body  
(Temperature Reference  
Source) offers accurate  
Temperature reference

Optimized to precisely measure the  $30^{\circ}\text{C} \sim 40^{\circ}\text{C}$  fever temperature range, the QuantumRed mini is optimized to protect people, animals and plants from unseen dangers by detecting the possibility of disease.

### Key Features

- 80x60 resolution, 30Hz
- Temperature Detection Accuracy  $\pm 0.3^{\circ}\text{C}$  in  $\pm 1\text{m}$
- Use in various fields such as temperature measurement, electric switchboard, smart farm, animals/plants, etc.

## QuantumRed Mini Module Technical Specifications

### Imaging

Sensor Technology	Uncooled Microbolometer
Array Format	80X60
Pixel Pitch	35 $\mu$ m
Spectral Range	LWIR 8~14 $\mu$ m
Thermal Sensitivity (NETD)	<100mK
Frame Rate	30Hz (EL free)
Shutter	With shutter
Accuracy	$\pm 0.3^{\circ}\text{C}$ ( $+10^{\circ}\text{C} \sim +30^{\circ}\text{C}$ ), $\pm 0.5^{\circ}\text{C}$ ( $+10^{\circ}\text{C} \sim +30^{\circ}\text{C}$ )

### Mechanical

Size (mm)	61.0(W) x 38.0(H) x 50.0(D)
Weight	70g (without Accessories)

### Lens

FOV	50 $^{\circ}$
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### Electrical

Input Voltage	5.0V
Power Consumption	1.2W
Video Channel	USB(SPI)

### Environmental

Operating Temp.	-10 $^{\circ}\text{C} \sim +30^{\circ}\text{C}$
Storage Temp.	+30 $^{\circ}\text{C} \sim +85^{\circ}\text{C}$

## QuantumRed Mini Module Dimensions

