

# SEE THE INVISIBLE

INTRODUCING THE THERMAL CAMERA MODULE FOR REALWEAR NAVIGATOR™ SERIES

FOR ILLUSTRATIVE PURPOSES ONLY



The **Thermal Camera Module** is a dual-camera unit which includes both the standard 48MP sensor, and a thermal sensor. With the ability to switch seamlessly between the visible spectrum and infrared it enables you to capture the heat signature of the surrounding environment. Connect the Thermal Camera Module to your RealWear Navigator 500 Assisted Reality device to provide an unrivalled hands-free experience.



### Hands-Free

Voice-activation helps you perform an inspection or diagnose an issue while keeping your hands free.



### New Perspectives

With thermal and visible sensors, you can see what you can't see with the naked eye. Spot issues before they become a problem.

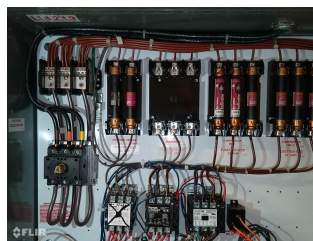


### Built to Last

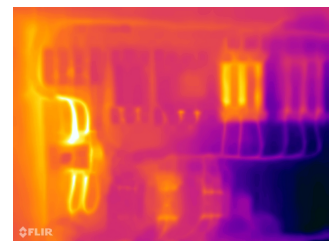
Maintains ruggedness and IP66 rating so you can keep using your Navigator even in dusty or damp environments.

## Thermal by FLIR

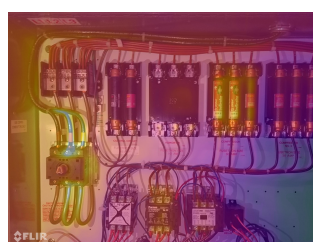
RealWear's Thermal Camera Module has been developed with Thermal by FLIR – from the world's leading manufacturer of infrared products. The Thermal Camera Module offers five modes including Teledyne FLIR's patented MSX®, which adds visible light details to thermal images for greater detail. Once you've got your image, you can take thermography to the next level with FLIR Thermal Studio Suite.



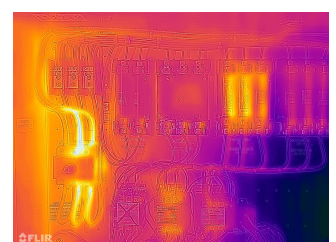
Visual Image Mode



Thermal Image Mode



Blend Image Modes (Low/High)



MSX® Enhanced Image Mode

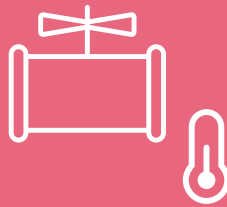


## Use Cases



### Electrical Inspections

Diagnose potential areas for preventative maintenance or repair by identifying spots exhibiting out of ordinary temperature.



### Motors and Pumps

Great for process checks. Can perform line inspections, diagnose machinery overheating or friction in bearings, and more.



### Building Diagnostics

Identify areas with missing insulation or air leaks. These areas will show up as cold or hot spots relative to the surrounding area.

## Technical Specification

### Thermal Sensor

FLIR Lepton® 3.5

### Thermal Resolution

160 x 120

### Effective Frame Rate

8.7Hz

### FOV

57° (H), nominal

71° (D), nominal

### Object Temperature Range

-20 to 400° C

### Thermal Sensitivity (NETD)

<50mK

### Spectral Range

8 to 14µm

### Accuracy

High Gain Mode: Greater of +/- 5° C or 5% (typical)

Low Gain Mode: Greater of +/- 10° C or 10% (typical)



### Visual Camera

#### Sensor

48MP Sensor

#### Still Image

Up to 12MP

#### Video

Up to 1080p, 60fps