

# Thermal Camera Temperature Solution

Face detection, thermo alarm, Live View HDMI Output

2MP Full HD IP Camera • Thermal Camera • LED Light  
• Local HDMI output • Alarm output for elevated temperatures.

## Introduction

The RE-THDMI face temperature detection.  
Stand-alone device with HDMI output display.  
SD Memory Card slot for export of faces.  
Full streaming IP Camera with Onvif.

## Features

- » 256 x 192 Pixel Thermal Camera
- » Non-contact Thermal Imaging temperature detection.
- » Face detection in real-time with an HD Live View
- » Live View shows faces temperature & passing count.
- » Non-contact temperature reader accuracy of  $\pm 0.3^{\circ}\text{C}$
- » 2MP Full HD Onvif streaming video camera
- » Elevated Temperature alarm output for Siren etc.
- » SD Card recording data, support network transfer also.
- » Supports BlackBody for greater accuracy of temperatures.

## Hardware

Solution	Linux Embedded OS System with Software
Display Output	HDMI 1920x1080 25fps

## Thermal Imaging

Sensor Detector	Silicon Oxide Uncooled infrared focal plane
Sensor Resolution	256 x 192 Pixels, Pixel size 12 $\mu\text{m}$
Thermal Sensitivity	(NETD): $\leq 60\text{mK}$ (@25 $^{\circ}\text{C}$ , F#=1.0)
Temperature Measurement	1—5 Meters [3.3—16.4Feet]
Temperature Accuracy	$\pm 0.3^{\circ}\text{C}$ (target temperature 35 $^{\circ}\text{C}$ —38 $^{\circ}\text{C}$ )

## Camera Imaging

Image Sensor	1/2.8" 2.0M Pixel Progressive Scan CMOS.
Min. Illumination	0.005Lux@F1.2 (color mode), 0.001Lux@F1.2 (black and white mode)
WDR	80dB
S/N	>46dB [AGC Off]
Focal Length	4mm
Field of View (H x V)	Horizontal 84 $^{\circ}$ x Vertical 45 $^{\circ}$

## Connection

Network	RJ45 10M/100M Ethernet
Network Protocols	Supports RTSP, RTP, TCP, UDP, UPNP, DHCP, PPPoE, ONVIF
Audio Connection Block	1 Input / 1 Output (Common Ground)
Alarm	Terminal Block NO + Common
HDMI	Standard HDMI 1.2 Full HD output
SD Card	Slide Slot for optional card



## General

Power (Barrel Connector)	DC 12V 4A (Max)
Dimension (WxHxD)	80x42x49mm [3.15" x 1.65" x 1.93"] Excludes bracket
Weight including bracket	0.42kg [0.92lb]

## Extra

AI Face Capture	Deep learning supports simultaneous detection of 20-30 faces, face detection, exposure, scoring, screening, capture upload.
Abnormal Temperature	Alert notification and alarm output
HDMI Display	Live view of faces with temperature reading, shows people counting, Live view and thermal views

## CAD Dimensions

