

# Portable Thermal Video System

## Overview

**Portable Thermal Video System** takes a thermal video with combining IR camera and smart phone camera. It is helpful to solve the invisible problems by checking temperature in real time and every where through smart phone Apps.

## Features

- Support 12-Color Palettes(12-color maps)
- Image, motion picture Recording (IR, color)
- Digital zooming of 4 step resolution
- Image view of visible & IR (50:50,Twin, Overlay, Floating)
- Temperature Measurement  
(Min/Max, Point/Line/Rectangle/Circle profile)
- Changeable Lens



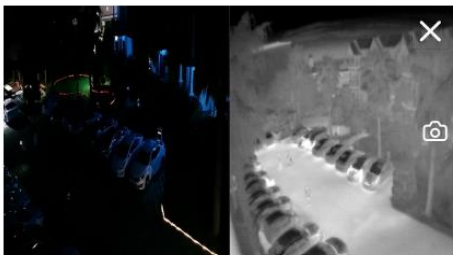
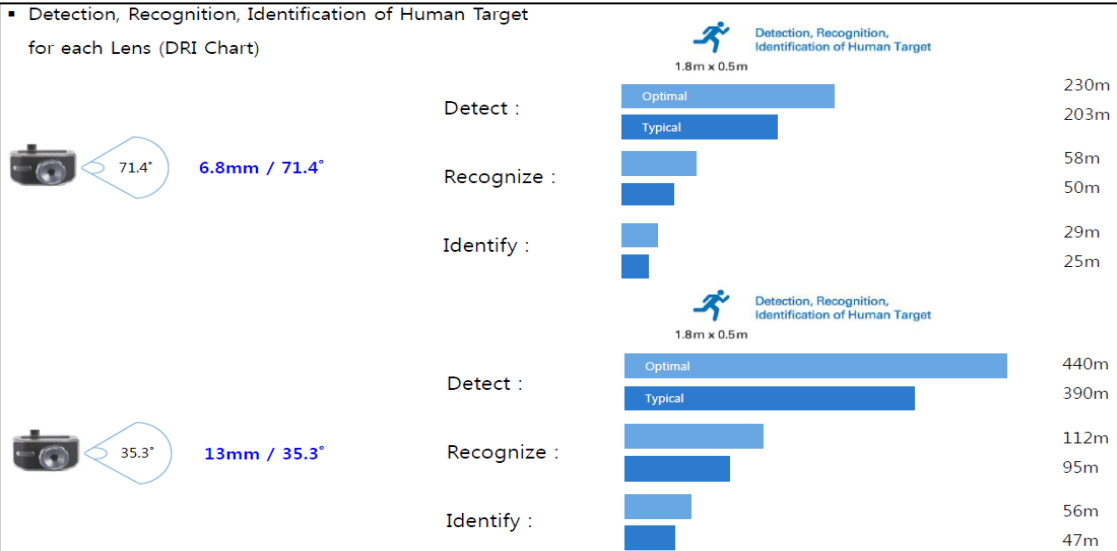
## Specification

Array format	384 x 288
Pixel pitch	17 $\mu$ m
Wavelength Band	8~14 $\mu$ m (Longwave Infrared)
Sensitivity	0.05 $^{\circ}$ C @ f/1.0
	0.08 $^{\circ}$ C @ f/1.3
Frame rate	< 9 Hz
Scene range temperature	-10 ~ 150 $^{\circ}$ C
Operating temperature	-10 ~ 50 $^{\circ}$ C
Power consumption	~ 500mW
Weight	< 27 g (with Lens1)
Dimension (W x H x D)	47mm x 25mm x 16mm (Without Lens)
Interface	USB OTG, Micro USB
Platform	Android
Type of Lens	Wide FOV (default) : 6.8mm / f/1.3
	Narrow FOV (option) : 13mm / f/1.0
FOV[ $^{\circ}$ ]	Wide FOV (default) : 56.3 $^{\circ}$ (H) x 41.8 $^{\circ}$ (V) - 71.4 $^{\circ}$ (diagonal)
	Narrow FOV (option) : 28.7 $^{\circ}$ (H) x 21.7 $^{\circ}$ (V) - 35.3 $^{\circ}$ (diagonal)
Focus Range	Wide FOV : 0.2m to infinity with 0.19mm refocus
	Narrow FOV : 0.4m to infinity with 0.39mm refocus

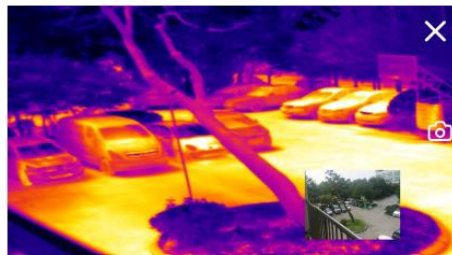
# Portable Thermal Video System

## Lens Performance

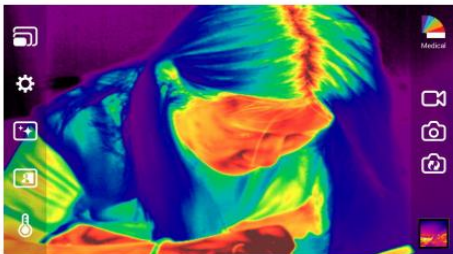
▪ Detection, Recognition, Identification of Human Target for each Lens (DRI Chart)



Parking lot with thermal and visible synthesis (twin view)



Parking lot with thermal and visible synthesis (floating view)



Human



Parking lot with the temperature measurement