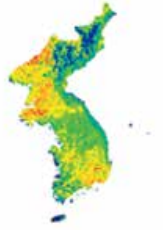




Intelligent  
Image  
Information  
System



# i3system, Inc.

True Partner for Your Success in Trust

# i3system, Inc.

True Partner for Your Success in Trust

## Company overview

**Company Name :** i3system, Inc.  
(Intelligent Image & Information System)

**CEO :** Chung Han (Ph.D)

**Establishment :** 1998

**Number of Employees :** 480 (Q4, 2024)

- 1988 : Initial Research at KAIST by founder
- 2003 : Cooled MWIR R&D
- 2006 : Uncooled LWIR R&D
- 2010 : Serial Production of Cooled MWIR IDDCA
- 2012 : Serial Production of Uncooled LWIR micro-bolometer
- 2015 : IPO in KOSDAQ (Korean stock market)
- 2015 : ISO9001:2008 / ISO9001:2015
- 2016 : New production building set up at Moonji-dong
- 2018 : Launch 12 $\mu$ m XGA / VGA / QVGA micro-bolometer detector
- 2019 : Innovation Award by Korea Ministry of Defence
- 2022 : Launch New T2SL HOT MWIR / Cooled LWIR detector
- 2023 : Developed 8 $\mu$ m SXGA micro-bolometer detector
- 2024 : Developed T2SL Dual Band detector



Headquarter / Factory #1



Moonji-dong / Factory #2



Jang-dong (R&D Center)

## Facilities

### Process



### Assembly



### Analysis



### Test & Evaluation



**In house manufacture facility  
and test equipments**

# Products

01. T2SL Cooled HOT MWIR Detector [ MARKOS series ]	02
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08. Portable Infrared Camera [ TE-SQ1 ]	17



T2SL MARKOS series



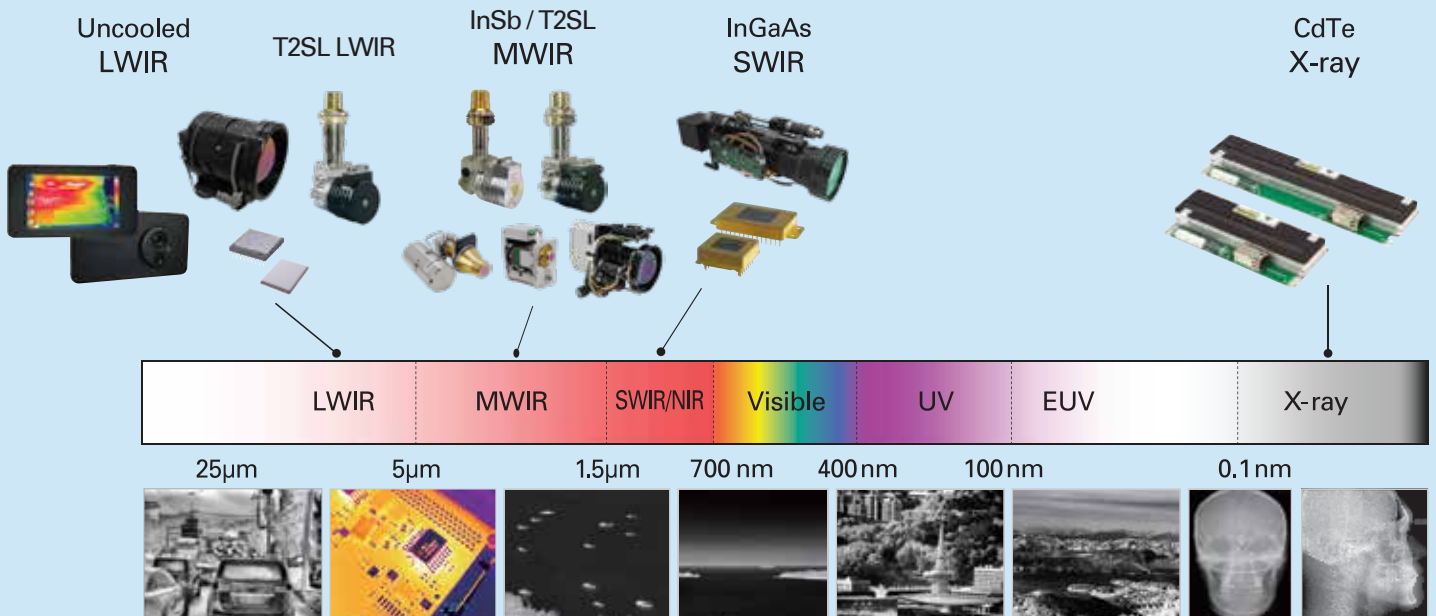
T2SL LUKAS series



InSb SXGA



InGaAs SWIR SXGA





# Super MARKOS

## HOT MWIR 1280 x 1024 10 $\mu$ m



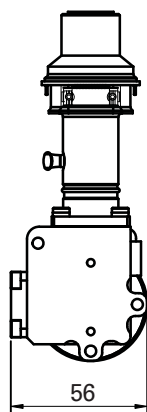
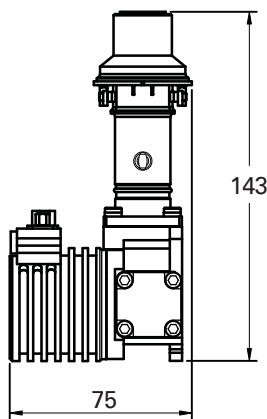
Super MARKOS is a new generation T2SL HOT MWIR detector in HD quality. This T2SL HOT detector satisfies requirement of tactical such as long-range surveillance and electro-optical targeting system. The Operating temperature (>130K) will reduce the maintenance cost.



IDCCA



Proxy board



### Applications



Security



Night  
Observation



Long-range  
Surveillance



Reconnaissance

### DRI Information

225mm			420mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	9.8km	22.7km	<b>D</b>	16.1km	33.2km
<b>R</b>	1.9km	4.5km	<b>R</b>	3.4km	7.9km
<b>I</b>	1.4km	3.5km	<b>I</b>	2.6km	6.2km
690mm			900mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	20.2km	37.9km	<b>D</b>	21.5km	38.8km
<b>R</b>	5.1km	10.9km	<b>R</b>	6.0km	12.2km
<b>I</b>	4.0km	8.8km	<b>I</b>	4.8km	10.0km



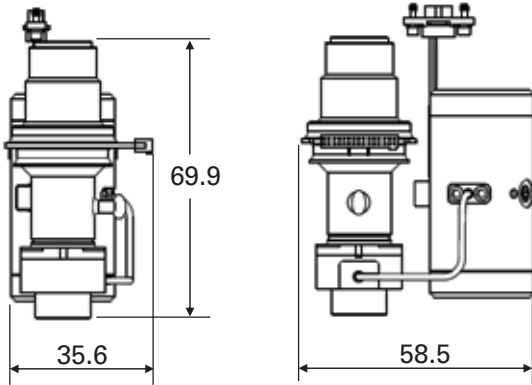
Array format	1280x1024
Pixel pitch	10 $\mu$ m
Detector type	T2SL
Spectral Range	MWIR (3 $\mu$ m ~ 5 $\mu$ m)
No. of output channel	4 or 8 channels
Operability	$\geq 99.5\%$
NETD	$\leq 25\text{mK}$ @ Half well-fill
Frame rate	110Hz@1280x1024 Full frame
Dimension	75mm x 56mm x 143mm
Cool-down time	$\leq 5$ min
Environmental condition	MIL-STD-810
Operating temperature	-40~+71 $^{\circ}$ C
FPA operating temperature	130K



# MARKOS

## HOT MWIR 640 x 512 15 $\mu$ m, SWaP

MARKOS is a T2SL HOT MWIR SWaP detector specifically designed for handheld thermal imaging and drone & UAV systems, and light-weight monitoring devices. This HOT(High Operating Temperature) and SWaP(Size Weight and Power) detector is suitable for long-term use.



### Applications



Security



Night Observation



Long-range Surveillance



Reconnaissance



Detector



OEM Module



Array format	640 x 512
Pixel pitch	15 $\mu$ m
Detector type	T2SL
Spectral Range	MWIR (3 $\mu$ m ~ 5 $\mu$ m)
No. of output channel	4 channels
Operability	$\geq 99.5\%$
NETD	$\leq 20\text{mK}$ @ Half well-fill
Frame rate	up to 220Hz@ 640 x 512 Full frame
Dimension	69.9mm x 58.5mm x 35.6mm
Cool-down time	$\leq 5$ min
Environmental condition	MIL-STD-810
Operating temperature	-40 ~ +71 $^{\circ}$ C
FPA operating temperature	130K

# MARKOS Camera Core

HOT MWIR 640 x 512 15 $\mu$ m, SWaP



- High performance VGA HOT MWIR Camera Core with low SWaP. linear cooler integration, and 20-275mm continuous zoom lens
- The camera core includes video processing and control feature designed for handheld cameras, miniature gimbals for drones & UAVs, and light-weight monitoring devices
- Full MWIR Spectral Range, High Sensitivity, Common & Simple Electrical interface



## Applications



Security



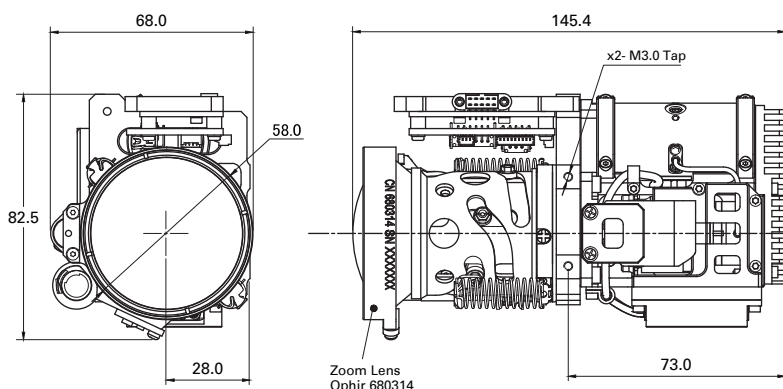
Night  
Observation



Long-range  
Surveillance



Reconnaissance



## DRI Information

275mm



1.8 x 0.5m

2.3 x 2.3m

Detection

10.4km

23.7km

Recognition

2.0km

4.8km

Identification

1.5km

3.7km



### Detector

Detector type	T2SL
Array format	640 x 512, 15 $\mu$ m
Spectral range	MWIR (3 $\mu$ m~5 $\mu$ m)
F number	F/5.5 (Standard), customizable
NETD	$\leq$ 20mK @ Half well-fill without lens
Cool-down time	$\leq$ 5 min. @ room temperature

### Electrical

Frame rate	60Hz
Input Power	+5.0 VDC board, +12.0 VDC SWaP linear cooler
Power Consumption	$\leq$ 5W steady state @ 23 $^{\circ}$ C (Cooler $\leq$ 3W, Electronics $\leq$ 2W)
Control	UART (RS-232)
Video output	NTSC/PAL, HDMI, Camera-link

### Mechanical

Size (W x H x L)	Without lens : 51mm x 75.6mm x 70.1mm
	With lens : 68mm x 82.5mm x 145.4mm
Weight	Without lens : 360g
	With lens : 710g (f/5.5 20-275mm)

# LUKAS Pro

LWIR 640 x 512 15 $\mu$ m



LUKAS is a T2SL LWIR VGA detector which shows an excellent performance especially for ground vehicles with its anti-blooming capability and strong penetration in foggy & dusty area. This LWIR detector ensures the visibility even in tough environmental conditions such as sun-glint and light reflex.



Proxy board [Raw data]  
Output: Camera Link

## Applications



Security /  
Surveillance



Night  
Observation



Thermal  
Sight

## Specifications

Detector type	T2SL
Array format	640 x 512
Pixel pitch	15 $\mu$ m
NETD	$\leq 25\text{mK}$ @ Half well-fill
Wavelength band	LWIR (7.7 $\mu$ m ~ 9.4 $\mu$ m)
Max Frame rate	200Hz @ 640 x 512 Full Frame
Cool-down time	$\leq 7\text{min}$

## Images from the 2D IR detector





# InSb Cooled IR Detector

## MWIR 1280 x 1024 10 $\mu$ m



**DI-1280-10M**  
IDDCA



**iCP1280**  
Proxy board



**iCE1280P**  
OEM Module

### Applications



Security



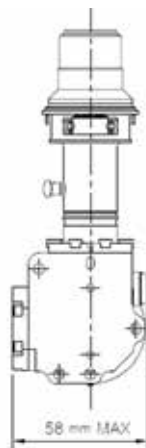
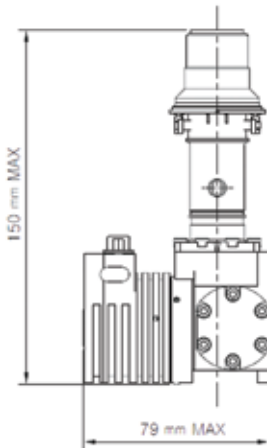
Night  
Observation



Long-range  
Surveillance

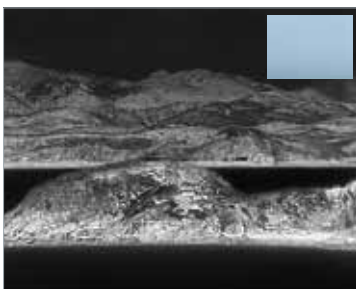


Reconnaissance



### DRI Information

225mm			420mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	9.8km	22.7km	<b>D</b>	16.1km	33.2km
<b>R</b>	1.9km	4.5km	<b>R</b>	3.4km	7.9km
<b>I</b>	1.4km	3.5km	<b>I</b>	2.6km	6.2km
690mm			900mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	20.2km	37.9km	<b>D</b>	21.5km	38.8km
<b>R</b>	5.1km	10.9km	<b>R</b>	6.0km	12.2km
<b>I</b>	4.0km	8.8km	<b>I</b>	4.8km	10.0km



Array format	1280x1024
Pixel pitch	10 $\mu$ m
Detector type	InSb
Spectral Range	MWIR (3 $\mu$ m ~ 5 $\mu$ m)
No. of output channel	4 or 8 channels
Operability	$\geq 99.5\%$
NETD	$\leq 25\text{mK}$ @ Half well-fill
Frame rate	100Hz @ 1280x1024 Full frame
Readout mode	IWR
Cool-down time	$\leq 5$ min
Environmental condition	MIL-STD-810
Operating temperature	-40 ~ +71 $^{\circ}$ C
FPA operating temperature	80K



# InSb Cooled IR Detector

MWIR 640 x 512 15 $\mu$ m



**DI-640-15M**  
IDDCA



**iCP640**  
Proxy board



**iCE640**  
OEM Module

## Applications



Security



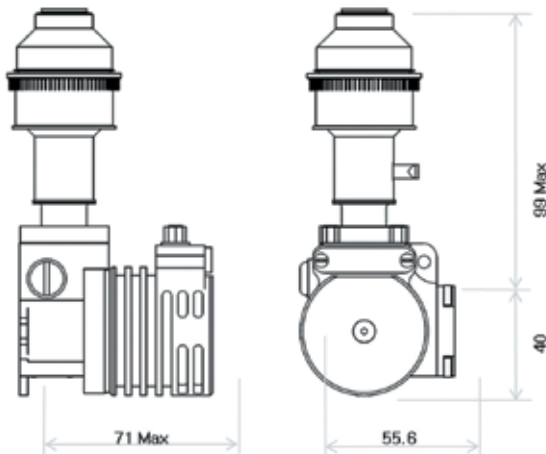
Night  
Observation



Long-range  
Surveillance



Reconnaissance



## DRI Information

275mm			420mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	10.4km	23.7km	<b>D</b>	15.9km	32.5km
<b>R</b>	2.0km	4.8km	<b>R</b>	3.3km	7.8km
<b>I</b>	1.5km	3.7km	<b>I</b>	2.6km	6.1km
690mm			900mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	19.7km	36.4km	<b>D</b>	20.8km	36.8km
<b>R</b>	5.0km	10.7km	<b>R</b>	6.0km	11.9km
<b>I</b>	4.0km	8.7km	<b>I</b>	4.8km	9.8km



Array format	640 x 512
Pixel pitch	15 $\mu$ m
Detector type	InSb
Spectral Range	MWIR (3 $\mu$ m ~ 5 $\mu$ m)
No. of output channel	1 or 4 channels
Operability	$\geq 99.5\%$
NETD	$\leq 20\text{mK}$ @ Half well-fill
Frame rate	200Hz @ 640x512 Full frame
Readout mode	ITR or IWR
Cool-down time	$\leq 7$ min
Environmental condition	MIL-STD-810
Operating temperature	-40 ~ +71 $^{\circ}$ C
FPA operating temperature	80K

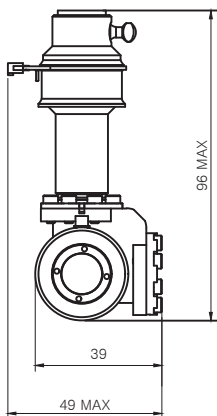
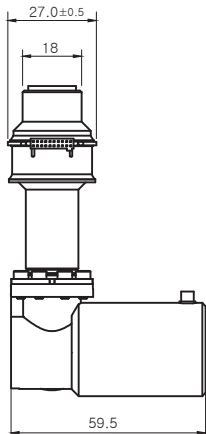


# InSb Cooled IR Detector

## MWIR 320 x 256 15 $\mu$ m



DI320-15M



## Applications



Security



Night  
Observation



Drone



Hand-held  
Thermal Imager

## Specifications

Detector type	InSb
Array format	320 x 256
Pixel pitch	15 $\mu$ m
NETD	$\leq 20\text{mK}$ @ Half well-fill
Spectral Range	MWIR (3 $\mu$ m ~ 5 $\mu$ m)
Readout mode	ITR
Cool-down time	$\leq 7\text{min}$

## Images from the 2D IR detector



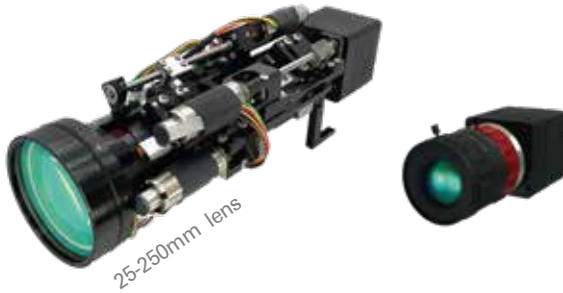


# InGaAs SWIR Camera Core

1280 x 1024 10 $\mu$ m

iSE1280-10-CL

iSE1280 is SWIR camera module designed for various inspections such as food quality, material, non-destructive, forgery, etc. The SWIR range provides distinctive benefits as reflective image, better atmospheric transparency, and smoke/haze penetration.



## Applications



Detection / Surveillance



Material inspection



Food inspection



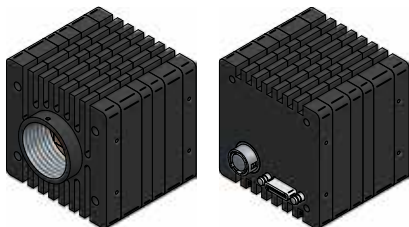
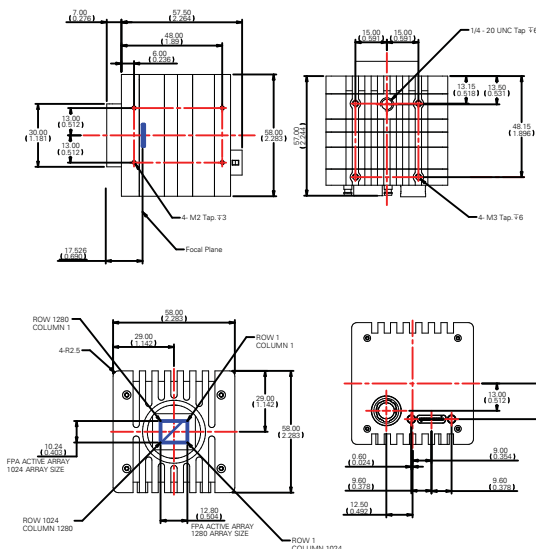
Forgery detection



Semiconductor inspection

## DRI Information

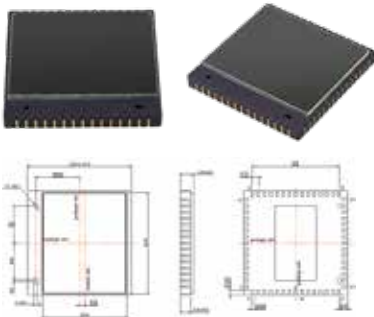
	19mm	25mm
	1.8 x 0.5m    2.3 x 2.3m	1.8 x 0.5m    2.3 x 2.3m
<b>D</b>	1.3km    3.2km	1.7km    3.9km
<b>R</b>	0.3km    0.7km	0.4km    1.0km
<b>I</b>	0.2km    0.6km	0.3km    0.7km
	1.8 x 0.5m    2.3 x 2.3m	1.8 x 0.5m    2.3 x 2.3m
<b>D</b>	9.0km    15.8km	16.8km    24.6km
<b>R</b>	2.8km    6.1km	7.2km    12.8km
<b>I</b>	2.3km    5.1km	6.1km    11.2km



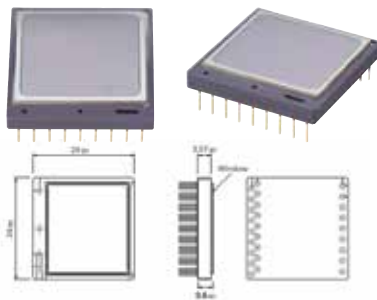
Array format, Pixel pitch	1280x1024, 10 $\mu$ m
Detector type	InGaAS
Spectral range	SWIR (0.9 $\mu$ m ~ 1.7 $\mu$ m)
Quantum Efficiency	85% @ 1.4 $\mu$ m
Readout Noise (RMS)	≤ 100 e <sup>-</sup>
Shutter Mode	Global Shutter
Dark Current (e/p/s)	12,500 @ 10°C
Frame rate	50Hz
Power	12V DC, ≤ 8W
Video Output	Camera Link
Full Well Depth	* LG : 540ke <sup>-</sup> / MG : 310ke <sup>-</sup> / HG : 50ke <sup>-</sup>
Operating temperature	-33°C ~ 55°C
Dimension and Weight	50mm x 50mm x 59mm, 250g

\* LG : Low Gain / MG : Mid Gain / HG : High Gain

# Uncooled Infrared Detector



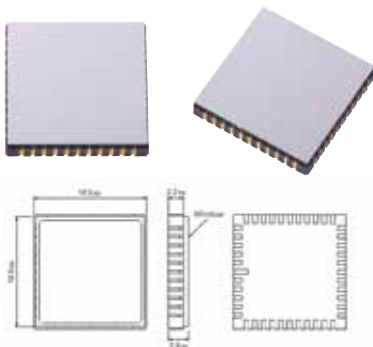
**DB1280-8C-A**  
1280 x 1024, 8 $\mu$ m



**DB1024-12C-A**  
1024 x 768, 12 $\mu$ m

**DB640-12C-A**  
640 x 480, 12 $\mu$ m

**DB640-17C-A**  
640 x 480, 17 $\mu$ m



**DB384-12C-A**  
384 x 288, 12 $\mu$ m

**DB384-17C-A**  
384 x 288, 17 $\mu$ m

## Applications



Security /  
Surveillance



Night  
Vision



Electrical  
maintenance



Plumbing



Medical /  
Health

## Specifications

Detector type	Microbolometer (uncooled)		
Array format	1280 x 1024		
Pixel pitch	8 $\mu$ m		
NETD	$\leq 55\text{mK}$ or $\leq 70\text{mK}$ @ F/1 300K, 30Hz		
Spectral Range	LWIR (8 ~ 14 $\mu$ m)		
Max Frame rate	30 Hz		
Thermal time constant	$\leq 15\text{ms}$		
Dimensions / Weight	25.2 x 25.2 x 3.4 mm / $\leq 8\text{g}$		

Detector type	Microbolometer (uncooled)		
Array format	1024 x 768	640 x 480	384 x 288
Pixel pitch	12 $\mu$ m		
NETD	$\leq 40\text{mK}$ or $\leq 55\text{mK}$ @ F/1 300K, 30Hz		
Spectral Range	LWIR (8 ~ 14 $\mu$ m)		
Max Frame rate	100 Hz	60 Hz	
Thermal time constant	$\leq 15\text{ms}$		
Dimensions / Weight	24 x 24 x 3.6 mm (without pin) / $\leq 7\text{g}$		

Detector type	Microbolometer (uncooled)	
Array format	640 x 480	384 x 288
Pixel pitch	17 $\mu$ m	
NETD	$\leq 50\text{mK}$ @ F/1 300K, 30Hz	
	$\leq 35\text{mK}$ @ F/1 300K, 30Hz (optional)	
Spectral Range	LWIR (8 ~ 14 $\mu$ m)	
Max Frame rate	60 Hz	
Thermal time constant	$\leq 15\text{ms}$	
Dimensions / Weight	16.5 x 16.5 x 2.9 mm / $\leq 7\text{g}$	





# THERMAL EXPERT™

## Uncooled Infrared Camera Core

TE-EX2  
TE-EV2  
TE-EQ2



**TE-EX2**  
1024 x 768, 12 $\mu$ m  
15-100mm lens



**TE-EV2**  
640 x 480, 12 $\mu$ m



**TE-EQ2**  
384 x 288, 12 $\mu$ m

### DRI Information

18mm			25mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	950m	2300m	<b>D</b>	1320m	3190m
<b>R</b>	240m	570m	<b>R</b>	330m	800m
<b>I</b>	120m	290m	<b>I</b>	160m	400m

50mm			100mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	2640m	6390m	<b>D</b>	5280m	12780m
<b>R</b>	660m	1600m	<b>R</b>	1320m	3190m
<b>I</b>	330m	800m	<b>I</b>	660m	1600m

150mm			300mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	7920m	19170m	<b>D</b>	15830m	38330m
<b>R</b>	1980m	4790m	<b>R</b>	3960m	9580m
<b>I</b>	990m	2400m	<b>I</b>	1980m	4790m

	TE-EQ2	TE-EV2	TE-EX2
Detector Type	Micro-Bolometer(Uncooled)		
Array format and Pitch	384x288, 12 $\mu$ m	640x480, 12 $\mu$ m	1024x768 12 $\mu$ m
Thermal Sensitivity(NETD)	$\leq 55\text{mK} / \text{F}\#1.0$ , Room Temperature		
Spectral Range	8 to 14 $\mu$ m		
Power Supply	DC 5V	DC 5V	DC 5V
Power Consumption	<1.6W@30Hz(Steady State)	<2.0W@30Hz(Steady State)	<2.5W@30Hz(Steady State)
Video Output Format	Digital : USB, CameraLink, LVCMOS, BT656 Analog : NTSC, PAL		CameraLink
Frame Rate	9Hz, 30Hz		
Time to First Image	<7 Sec Max.		
Control Command Protocols	RS-232(Option RS-485)		
Dimensions(WxHxD)	30x30x27 mm	30x36x27 mm	30x36x27 mm
Weight	<50g(Without Lens)		
Operating Temperature	-10 $^{\circ}\text{C} \sim 65^{\circ}\text{C}$ (Optional -40 $^{\circ}\text{C} \sim 65^{\circ}\text{C}$ )		
Storage Temperature	-40 $^{\circ}\text{C} \sim 85^{\circ}\text{C}$		
Scene Range Temperature	-10 $^{\circ}\text{C} \sim 150^{\circ}\text{C}$		

# THERMAL EXPERT™

## Uncooled Infrared Camera Core

TE-EV1  
TE-EQ1



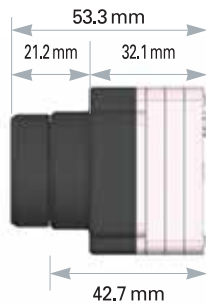
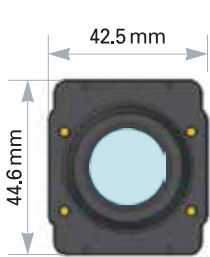
**TE-EV1**

640 x 480, 17 $\mu$ m



**TE-EQ1**

384 x 288, 17 $\mu$ m



### DRI Information

19mm		
	1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	710m	1710m
<b>R</b>	180m	430m
<b>I</b>	90m	210m

25mm		
	1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	930m	2250m
<b>R</b>	230m	560m
<b>I</b>	120m	280m

35mm		
	1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	1300m	3160m
<b>R</b>	330m	490m
<b>I</b>	160m	390m

50mm		
	1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	1860m	4510m
<b>R</b>	470m	1130m
<b>I</b>	230m	560m

150mm		
	1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	5590m	13530m
<b>R</b>	1400m	3380m
<b>I</b>	700m	1690m

300mm		
	1.8 x 0.5m	2.3 x 2.3m
<b>D</b>	11180m	27060m
<b>R</b>	2790m	6760m
<b>I</b>	1400m	3380m

	TE-EQ1	TE-EV1
Detector Type	Micro - Bolometer (Uncooled)	
Array format and Pitch	384 x 288, 17 $\mu$ m	640 x 480, 17 $\mu$ m
Thermal Sensitivity(NETD)	$\leq$ 50mK @ F/1, 300K	$\leq$ 50mK or 35mK @ F/1, 300K
Spectral Range	8 ~ 14 $\mu$ m	
Power Supply	DC 5V	
Power Consumption	< 1.8W @ (30Hz)	< 2.0W @ (30Hz)
Video Output Format	Digital: Camera Link, USB, LV CMOS Analog: NTSC, PAL	
Frame Rate	9Hz or 30Hz	
Time to First Image	< 10 sec	
Control	USB2.0, RS-232	
Dimensions(WxHxD)	42.5mm x 44.6mm x 41.1mm	42.5mm x 44.6mm x 41.1mm
Weight	< 110g (Without lens)	
Operating Temperature	-10 $^{\circ}$ C ~ 65 $^{\circ}$ C (Optional -40 $^{\circ}$ C ~ 65 $^{\circ}$ C)	
Storage Temperature	-40 $^{\circ}$ C ~ 85 $^{\circ}$ C	
Scene Range Temperature	-10 $^{\circ}$ C ~ 150 $^{\circ}$ C	



# THERMAL EXPERT™

## Uncooled Infrared Camera Core

TE-V2 mini  
TE-V2  
TE-Q2



TE-V2 mini

### Applications



Security /  
Surveillance



Night  
Vision



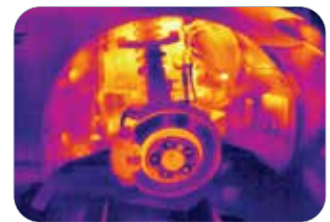
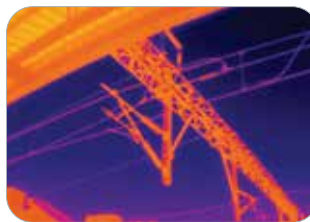
Electrical  
maintenance



Plumbing



Drone



TE-V2 mini  
640 x 480, 12 $\mu$ m



TE-V2  
640 x 480, 12 $\mu$ m



TE-V2  
640 x 480, 17 $\mu$ m



TE-Q2  
384 x 288, 12 $\mu$ m

	TE-V2 mini	TE-V2	TE-Q2
Detector Type	Micro-Bolometer(Uncooled)		
Array format and Pitch	640x480, 12 $\mu$ m (WLP)	640x480, 12 $\mu$ m / 17 $\mu$ m	384x288, 12 $\mu$ m
Thermal Sensitivity(NETD)	$\leq 55$ mK	$\leq 55$ mK(12 $\mu$ m), $\leq 50$ mK(17 $\mu$ m)	$\leq 55$ mK
Spectral Range	8 to 14 $\mu$ m		
Power Consumption	0.9W	0.85W	0.5W
Interface	USB		
Lens	9.0mm f/1.1 9.1mm f/1.0 13.0mm f/1.2	9.1mm f/1.0 (12 $\mu$ m) 13mm f/1.2 (12 $\mu$ m) 14mm f/1.2 (17 $\mu$ m)	5.7mm f/1.1
Frame Rate	9Hz, 30Hz		9Hz
Dimensions	19 x 19 x 23.2 (9.0mm) 19 x 19 x 26.3 (9.1mm) 19 x 19 x 27.4 (13.0mm)	33.6 x 24.4 x 37.6(12 $\mu$ m) 34.4 x 26.6 x 37.6(17 $\mu$ m)	34 x 38 x 21.5
Weight	13.5g (9.0mm) 16.7g (9.1mm) 19g (13.0mm)	47g (12 $\mu$ m, 9.1mm) 67g (17 $\mu$ m)	30g
Operating Temperature	-10 $^{\circ}$ C ~ 50 $^{\circ}$ C		
Scene Range Temperature	-10 $^{\circ}$ C ~ 150 $^{\circ}$ C		

# THERMAL EXPERT™

## Portable Infrared Camera

TE-SQ1



### Features

- Color palettes (12 color maps)
- Storage images (IR, visible with snapshot and video)
- Image view with visible (50:50, Twin, Overlay, Floating)
- Temperature Measurement (Alarm, Min/Max, Point/Rectangle/Circle profile)
- Level span (Temp. range control)
- Report (Generate PDF report)
- Wi-Fi streaming, Data Sharing
- Compatible with Analysis Tool
- Digital Zoom
- SD Card, Micro HDMI Support



### Applications



Security /  
Surveillance



Night  
Vision



Electrical  
maintenance



Plumbing  
/ HVAC



Medical /  
Health



Animal Care



Leisure

### Specifications

TE-SQ1	
Detector type	Micro-Bolometer(Uncooled)
Array Format and Pitch	384x288, 12 $\mu$ m
Thermal Sensitivity(NETD)	$\leq 55\text{mK}@F/1, 300\text{K}(20^{\circ}\text{C}\sim 30^{\circ}\text{C})$
Operability	$\geq 99.0\%$
Spectral range	8~14 $\mu$ m
Lens Specification	5.7mm, f/1.1, Manual Focus
Field of View	38 $^{\circ}$ (H)x29 $^{\circ}$ (V)~47 $^{\circ}$ (D)
Frame Rate	< 9Hz
Display	5 Inch (Touch Screen)
Temp. Range	-40~350 $^{\circ}$ C
Accuracy	0 $^{\circ}$ C~100 $^{\circ}$ C : $\pm 3^{\circ}$ C, 100 $^{\circ}$ C~350 $^{\circ}$ C : $\pm 3\%$ [Ambient temp. 15 to 35 $^{\circ}$ C, Object temp. above 0 $^{\circ}$ C]
Output	Micro HDMI
Operation Temp.	-10~50 $^{\circ}$ C
Storage	Internal 32GB, Micro SD card(External)
Dimension	157mmx87mmx25mm
Weight	375g
Battery	Li-Ion(Internal), 4200mA



## Catalog



Cooled  
product



Uncooled  
product

## Website



i3system



Thermal Expert



LinkedIn



YouTube



Instagram

## Social Media



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