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NOT ON MY WATCH

TBT | WE DO FUTURE

Thermal Imaging Camera

THERMAL IMAGING MODULE
ULTIMATE SURVEILLANCE SOLUTION

THERMAL IMAGING MODULE

- 720 x 480 Super Clear Video Resolution (Thermal Imaging) with patented QIET(Quality Image Enhancement Technology)
- AOZ (Advanced Optimal Zoom)
- Built-in TEC (Thermo Electric Controller)
- Direct Short Key Controls on Control Board
- Lowest NETD : 40mk
- Spot Temp. Measurement
- Area Temp. Measurement
- Detecting Alarm
- Emissivity Correction

ULTIMATE SURVEILLANCE SOLUTION

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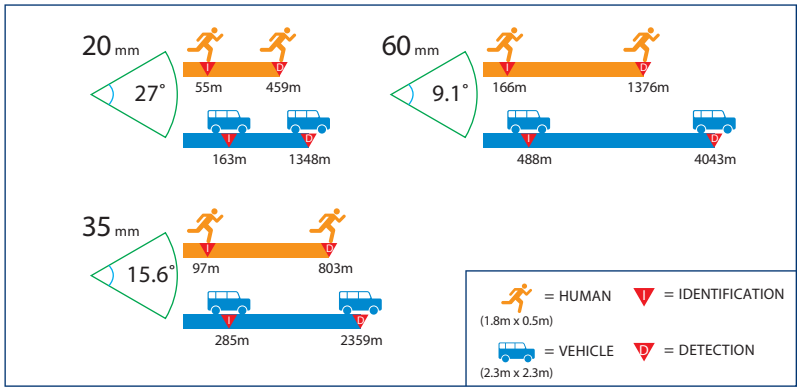
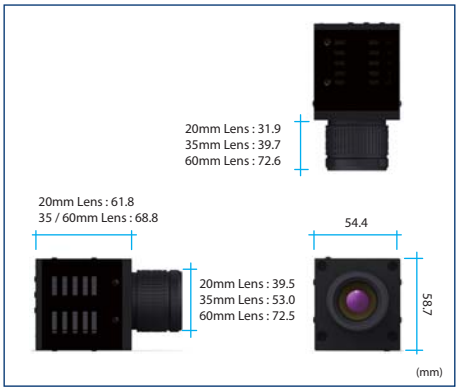
TSM-72TD, thermal Imaging Module camera, 720 X 480 Video Output with patented QIET(Quality Image Enhancement Technology). This remarkable uncooled thermal imaging camera is armored with Advanced Thermal Imaging technology, QIET and AOZ (Advanced Optimal Zoom). QIET is Advanced Digital Image Process handling technology which makes 720 X 480 super clear video resolution output. AOZ is another advanced Digital Image Process technology, it makes 4 times clear video digital zooming which is clearly different with current digital zooming.

EXCELLENT RANGE PERFORMANCE



DIMENSIONS



SPECIFICATIONS

Model	TSM - 72TD
THERMAL MODULE	
SENSOR	
Thermal Sensor	Uncooled Micro Bolometer
Pixel Pitch	25㎛
Wave Langth	8 ~ 14㎛
NETD	40mK / F1.0 [0.04℃ (@30℃, 30Hz)]
Accuracy	±2℃ or ±2%
Temperaure Range	-20℃ ~ 120℃ (Option : -20℃ ~ 650℃)
Output Frequency	NTSC : 59.94Hz (30fps), PAL : 50Hz (25fps)
Video Output	CVBS : 1.0Vp-p / 75Ω
Resolution	720 x 480 (NTSC) / 720 x 576 (PAL)
Lens	20mm (Basic), 35mm / 60mm (Option)
FUNCTION	
Calibration	Auto / Manual / Interval (10sec~3,600sec, 10sec step) Mode Selectable
Image Flip	Vertical, Horizontal ON / OFF
Invers Mode	ON / OFF
Freeze Mode	ON / OFF
AGC Mode	ON (5 steps) / OFF
Temperature Range Process	MIN / MAX Temperature Range Selectable
Output Mode	NTSC / PAL Mode Selectable
Image Mode	B/W and Three Color Modes
D-Zoom(AOZ)	x4 (15 steps)
OSD Menu	Yes
MECHANISM	
Dimensions	20mm Lens : [Body] 54.4mm(W) x 58.7mm(H) x 61.8mm(D), [Lens] 39.5mm(Ø) x 31.9mm(D) 35mm Lens : [Body] 54.4mm(W) x 58.7mm(H) x 68.8mm(D), [Lens] 53.0mm(Ø) x 39.7mm(D) 60mm Lens : [Body] 54.4mm(W) x 58.7mm(H) x 68.8mm(D), [Lens] 72.5mm(Ø) x 72.6mm(D)
Weight	350g
Certifications	CE, FCC
Outside Control	Focus, OSD
POWER	
Power Consumption	DC12V 380mA 4.56W (Normal Status) DC12V 560mA 6.72W (Peak)
Power Supply	DC12V 0.74A
ETC.	
External Interface	Rs-232 (9600 ~ 38400bps / N / 8 / 1), KEYPAD (5Key)
Operating Temperature	-15℃ ~ 55℃
TEMPERATURE DETECTION	
Spot Temp. Measurement	Yes (1 Point), Emissivity Correction
Area Temp. Measurement	Yes (Max, Min, Average Temperature Display)
Detecting Alarm	Yes

FEATURES

- 720 x 480 Super Clear Video Resolution (Thermal Imaging) with patented QIET(Quality Image Enhancement Technology)
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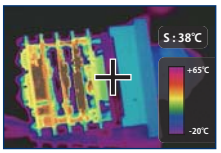
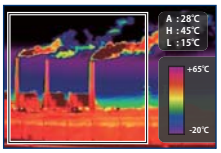
TEMPERATURE DETECTION



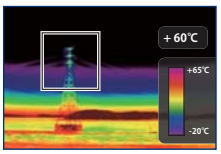
Spot Temp. Measurement

- Displaying the temperature data of center position on screen



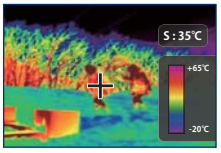
Area Temp. Measurement

- Area set function
- Displaying Average/highest/lowest temperature on screen



Temp. Detecting Alarm

- Alarm temperature set
- Alarm triggered area display
- Higher / lower temperature detection (Option) than preset temperature



Emissivity Correction

- Emissivity compensation on the temperature of the spot location
- Emissivity ratio setting (0.01 to 1/Manual)

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Design and specifications are subject to change without notice.