

Thermal Imaging Camera

IMI-TECH Thermal Imaging Camera is not only used in various industrial areas such as electrical equipment, machine vision, security, local conflagration surveillance, coastline surveillance, etc. but also for performing accurately the simultaneous detection of multiple people's temperature and discerning the highest temperature of human body. Anyone can readily control the camera with the IP or GigE interface based on two resolution QVGA (384X288) and VGA (640x480) and can simply store the image data to keep them for good.



Key Features 01

- Uncooled FPA(Focal Plane Array) Thermal Sensor
- TCP / IP Protocol for Camera Control, Alarm and Analysis
- H264 / MJPEG / MP4 Multi-streaming Encoding for IP Camera
- ROI(Region of Interest) 10 Spot Temperature
- Temperature Confirmation Possible(IP)
Entire Pixel Temperature Confirmation Possible(GigE)
- Radiation Rate, Atmosphere, Zero Offset and Distance Control and Correction
- Compliance with ONVIF Profile and GenICam
- Event Scheduling through GPIO and SDK Register
- Simultaneous Detection and Analysis of Specific Temperature of Many People
- Live Face Recognition and Alarm for Feverish COVID-19 Suspect

Applications 02

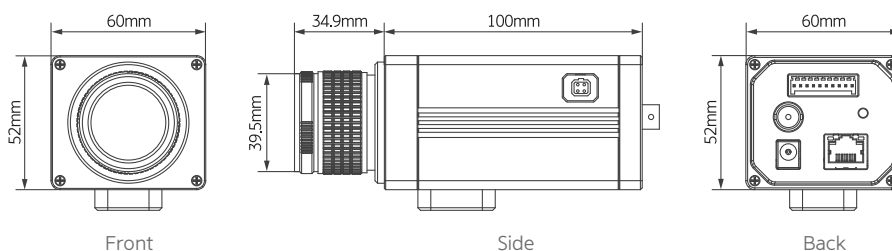
- High Resolution Color Image Camera + High-Precision Thermal Imaging Camera
[Temperature Measure by the Unit of Pixel]
- Precise Temperature Detection
- Face Temperature Analysis by Using AI Algorism
- Real-time Face Temperature Measurement and Automatic Tracking
- Simultaneous Temperature Measurement of the Whole Group Members on the Screen
- Under -0.1- Second Temperature Analysis, Alarm-ing and Image Storage function

Option Kit 03

- Security Surveillance
- Fire Detection /Fire Prevention
- Research and Development
- Building Diagnostication
- Furnace and Boiler Inspection
- Feverish Condition Measurement of Several People
- Intelligent Transport System
 - Road Traffic Detection
 - Heat Wire Examination

Dimensions

For Thermal Imaging Cameras



Model	Interface	Resolution	Frame Rate	Temp.Range	Netd	Accuracy	Spectral Range
IMT-831GD	GigE(1G)	1920x1080(Live) 384x288(Thermal)	30 fps	0°C ~ 60°C	50mK, 0.05°C	±0.5°C at 25°C	8~14um
IMT-851GD	GigE(1G)	1920x1080(Live) 320x240(Thermal)	30 fps	30°C~40°C	60mK, 0.06°C	±0.5°C at 25°C ±0.3°C at TRSM	8~14um
IMT-831TD	RTSP/HDMI	640x480(Live) 384x288(Thermal)	30 fps	0°C ~ 60°C	50mK, 0.05°C	±0.5°C at 25°C	8~14um
IMT-831TDL2	RTSP/HDMI	640x480(Live) 80x60(Thermal)	9 fps	0°C ~ 60°C	50mK, 0.05°C	±0.5°C at 25°C	8~14um
IMT-831TDL3	RTSP/HDMI	640x480(Live) 160x120(Thermal)	9 fps	0°C ~ 60°C	50mK, 0.05°C	±0.5°C at 25°C	8~14um
IMT-831G	GigE(1G)	384 x 288	30 fps	0°C~60°C or -10°C~150°C	50mK, 0.05°C	±0.5°C at 25°C ±2°C or ±2%	8~14um
IMT-833G	GigE(1G)	640 x 480	30 fps	0°C~60°C or -10°C~150°C	50mK, 0.05°C	±0.5°C at 25°C ±2°C or ±2%	8~14um
IMT-851G	GigE(1G)	320 x 240	30 fps or 60 fps	-10°C ~ +100°C (or 0°C ~ +500°C)	50mK, 0.05°C	±0.5°C at 25°C ±2°C or ±2%	8~14um
IMT-811N (IMT-814N)	IP 10/100M	384 x 288	30 fps	0°C~60°C or -10°C~120°C	50mK, 0.05°C	±0.5°C at 25°C ±2°C or ±2%	8~14um
IMT-813N (IMT-815N)	IP 10/100M	640 x 480	30 fps	0°C~60°C or -10°C~120°C	50mK, 0.05°C	±0.5°C at 25°C ±2°C or ±2%	8~14um

High Precision GigE Thermal Imaging Camera

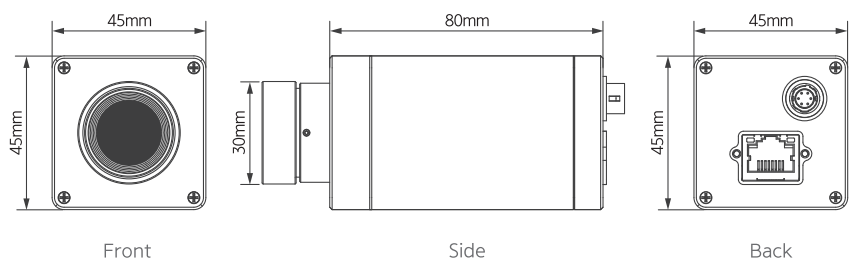
IMT-851G

- GigE Mode High-Precision Temperature Analysis + High-Resolution Thermal Camera
- Output of Real-time Temperature Information Over Entire Areas
- Temperature Analysis Within 0.1 Second And Temperature Accuracy $\pm 2^\circ$ (Industrial)
- Simple Software Supply (For The Purpose of Operational Convenience)



Dimensions

For High Precision GigE Thermal Imaging Camera



Key Features 01

- Real-time Temperature Measurement and Accurate Temperature Analysis
- 320 x 240, High Speed + High-Resolution and 30 fps
- User-centered Software Support
- Under 0.1 Second Simultaneous Temperature Analysis of Many People on The Screen
- AIA GigE Standard

Applications 02

- Security, Border Monitoring
- Fire Prevention and Fire Fighting
- Forest Fire and Night Watch
- Temperature Measurement and Analysis
- PCB Board Inspection
- Boiler and Turbine Inspection
- Analysis of Product Surface Temperature

Total Pixels	320(H) x 240(V) Pixels
NETD	0.05°C [50mK]
Director Time Constant	<15ms
Frame Frequency	Max 30 fps (or 60 fps)
Scanning System	Progressive System
Frame Format	Mono12, YUV422, YUV422Mono12
Heat Threshold	The Range of Temperature Measurement: -10°C ~ +100°C (or 0 °C ~ +500 °C)
Digital Interface/ Transfer Rate	1000BT, RJ45 / 1Gbps
Supply Voltage	DC +12V \pm 10%
Color / Material	Black / Aluminum
External Dimension(H x V x L)	45.0mm x 45.0mm x 80.0mm
Weight	Approx.700g (Excluding Lens)
Operation Temp.	-10°C to 50°C (Humidity: 0%RH ~ 80%RH)
Storage Temp	30°C to 60°C (Humidity: 0%RH ~ 90%RH)
Camera Specification	AIA GigE Vision Version 1.0

High Precision Dual Thermal Imaging Camera

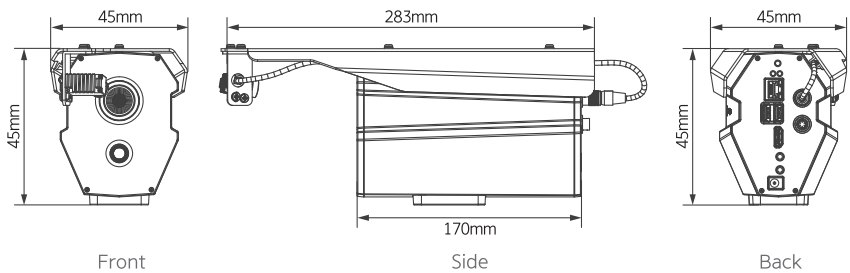
IMT-851GD

- Owing to Built-in High-precision TRSM, IMT-851GD Operates Precise, as to make $\pm 0.2^{\circ}$ Temperature Accuracy.
- Operated With The Minimum Range of Errors Possible.
- Its Ultra-light, Compact Body and No Need for Much Power Make it Free From Restraint of Space for Installation
- Real-time Detection of Fever Suspects and Simultaneous Measurement and Analysis of Many People's Temperature is Possible



Dimensions

For High Performance Thermal Imaging Camera



Key Features 01

- No Need for Any Monitoring Personnel and Its Operation Possible by Just Working-through
- Precise Measurement of Temperature Possible Without Black Body, Not by The Influence of The Ambiance
- Accurate Temperature Analysis and Clean Image Available by Applying High-Precision TRSM
- Upon Detection of Abnormal Body Temperature, Simultaneous Detection of Many People's Face Temperature, Alarm Warning and Image Storage Possible
- Owing to Ultra-light Compact Body, Free from Restraint of Space for Installation
- Provides User-centered Optimum Interface and Application

Applications 02

- Proper to Install and Operate in Quarantine Stations in Airports or Hospitals and in Government and Public Offices.
- So is to install Sports Arenas Exhibition Halls Schools Movie Theaters, Restaurants and Other Crowded Places.
- Can Be Used for the Real-time Monitoring and Measurement of the Temperature of Other Public Places' Frequent Visitors.

Thermal Camera	Total pixels	320(H) x 240(V) Pixels
	Image Sensor Type	Micro Bolometer, Pixel Size: 12 μ m
	Spectral Band	8 ~ 14 μ m(LWIR)
	NETD	< 60mK @F/1.0
	Field of View (H x V)	TBD
	Temperature Measurement Range	Febrile Sensing Mode : +30 °C ~ +40 °C
	Temperature Accuracy	Febrile Sensing Mode : $\pm 0.5^{\circ}$ C (w/ TRSM $\pm 0.3^{\circ}$ C)
Color Camera	Image Sensor	1/2.8" 2MP CMOS
	Effective Pixels	1920 x 1080
	Max. Resolution	2MP
	Aperture	F1.6
	Field of View	H : 87.6°, V : 46.4°, D : 104.5°
	Frame Frequency	Max. 30 FPS
	Focus Mode	Fixed
Interface	Ethernet(Network)	1000Base-T, RJ-45
	Audio Input	1(Mic In)
	Audio Output	1(Speaker Out)
	Alarm Input	1
	Alarm Output	1
	USB TYPE-A	2
	Power LED	1
	Reset Btn	1
	HDMI	1
	Other	Supply Voltage
Power		Max.20.0 Watt
Color / Material		Pearl Dark Brown / Aluminum
External Dimension (H x V x T)		111.0mm x 90.0mm x 290.0mm(TRSM mounting)
Weight		Approx. 1.4 kg
Operation Temp.		-10°C to +40°C (Humidity: 0%RH ~ 95%RH)
Storage Temp		-30°C to +60°C (Humidity: 0%RH ~ 95%RH)