

Product User Manual



IMT-831GD Thermal Sensing Camera User Manual



<Caution>



Please read the user manual carefully before using the camera and use it according to its contents. The camera was made safe in case of an accident, but it may caused to damage the user's careless manipulation or impact, so please handle with care and use the following precautions.

○ Warning

- ☒ Electrical shock,use near firearm,do not loosen screws at random.
- ☒ Use in humid or wet areas may cause a failure.
- ☒ Any Change or modification is prohibited.
- ☒ Failure due to carelessness of the user can not guaranteed.

○ Advanced Prevention

Do not directly repair or modify changes. If you need any technical assistance please contact at IMI TECHNOLOGY CO.,LTD.(“IMI TECH”)

○ Product Warranty

IMI TECH's Camera provides 2 years of free warranty.

If you have any problems using it, please request Return Material Authorization (RMA) in the address as below.

○ Technical Support and AS Contact Number

T. 82-31-423-9801 / F. 82-31-423-9803

email : sale@imi-tech.com






1. Product Introduction

IMI TECH thermal imaging camera is that transmits temperature to all pixels, making it available for use in medical, security and industrial fields
It also saving cost and simple configuration by processing camera power, data transmission, camera control with the single 12 pin cable.

*Gigabit Ethernet?

1Gbit Ethernet is the Ethernet affiliation standard method that data is transmitted at a high speed of 1Gbps. IMI TECH’s Gigabit camera is a compact size, compatible camera with the standard C-mount specification and AIA GigE vision specification.

2. Product Configuration

				
Thermal Imaging Camera	Power Adapter	Lan Cable	Tripod	Software

3. Thermal Imaging Camera Specification

Features (IMT-831GD)		
Thermal Sensor	Image Sensor Type	U-Bolometer, pixel size: 17μm, spectral range: 8~14μm
	Total pixels	384(H) x 288(V) Pixels
	NETD	50mK
	Detector time constant	< 15ms
	Frame Frequency	MAX 30 FPS
Color Sensor	Image Sensor Type	Color sensor
	Total pixels	1920(H) x 1080(V) Pixels
	Frame Frequency	MAX 30 FPS
Other	Scanning System	Progressive System
	Frame Format	Mono12, YUV422, Mono32, YUV422Mono12
	Alarm	Software data transmission
	Heat Threshold	The range of temperature measurement : 0°C ~ +60°C
	Digital Interface / Transfer Rate	1000BT, RJ45(Cat6 over shielded cable) / 1Gbps
	Supply Voltage	DC +12V ±10%,
	Power	Max. 5.0 Watt,
	Color / Material	Black / Aluminium.
	External Dimension (H x V x T)	110.0mm x 56.0mm x 143.0mm
	Bpdy Weight	Approx.. 590 gram
	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

4. Installation Methods

1) Set the camera position where the detection area is visible.

◎ Set the camera position within 3m to 6m from the detection area.



Target Distance about 3m - 6m

◎The height of the camera is above the height of the person.



2) Attach the tape to guide the movement of the person in the detect area.

3) Install laptop and other equipment in the monitoring area.

4) Connect laptop and camera through Lan cable.

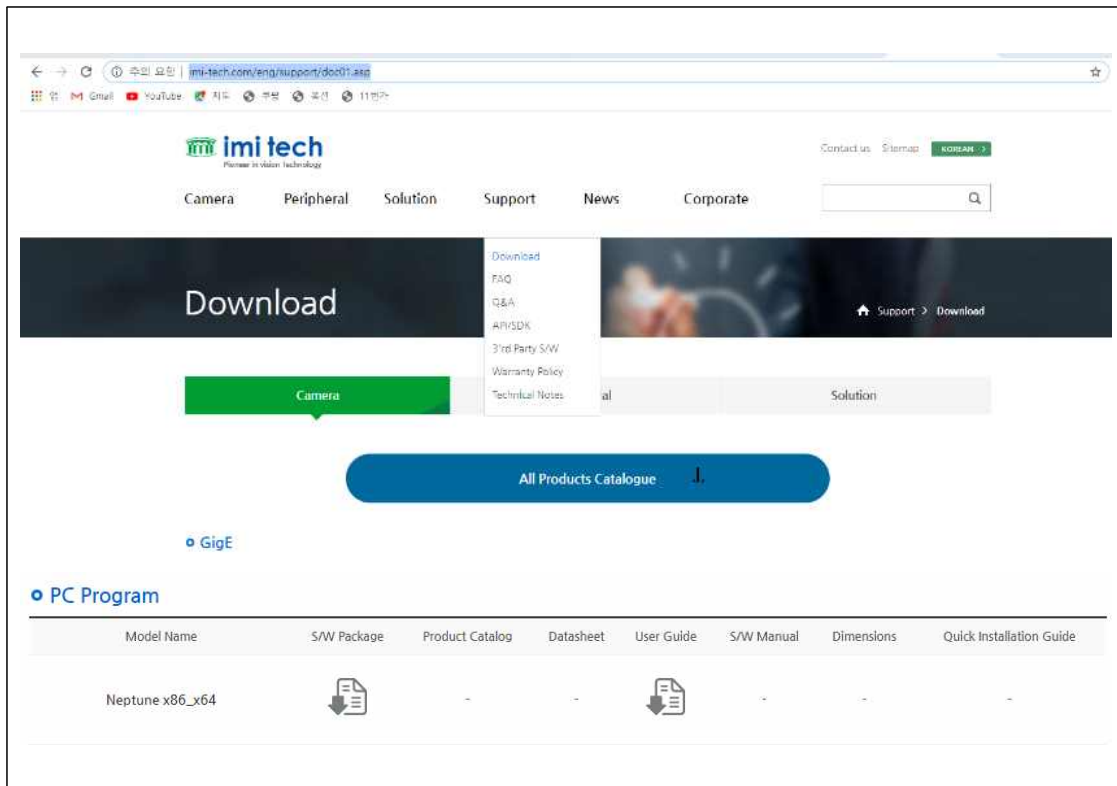
5) Set the IP Subnet for the camera and laptop.

(Ex, Notebook : 192.168.10.10 255.255.255.0 Camera : 192.168.10.20 255.255.255.0)

6) Software Installation

◎Set Neptune Install v5.1.0.0" (64bit OS Recommended)

(Check whether PC Gigabit Ethernet can supported or not and available network environment)



©The guidance for software, download and location

URL: <http://www.imi-tech.com/eng/support/doc01.asp>

○ Software Recommendation

CPU : Above Intel i3 Grade

Memory : 8GB

Hard Disk : Over 128GB

Operating System : Over 64bit Win7

Lan Port : Gigabit Ethernet (1000b)

7) Run “Medicheck.exe” on the laptop (Only 64bit OS can supported)



8) When thermal image comes out, focus on the screen angle and the target to see much better.



9) Set up the Tracking Temperature.

(Setting the detection temperature, green border occurs when above the set temperature)

10) Sep up the Alarm Temperature.

When temperature is over the set temperature, generates red border, makes sound alarm and save JPG automatically.

11) Alarm Save Period sets the interval for saving images.

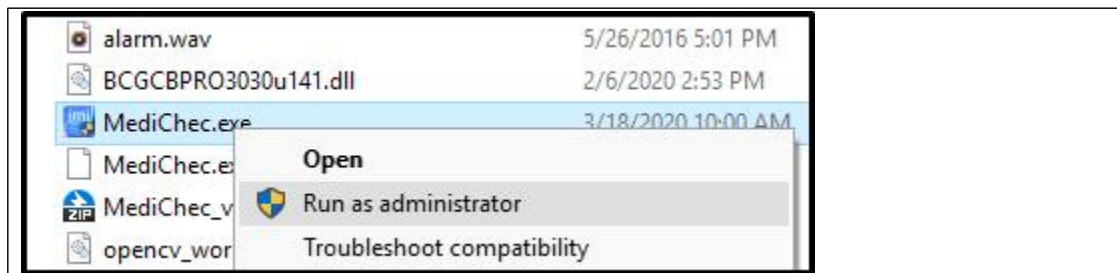
The Checklist for Installation

Appendix. The solution for simple problems

1>Is the program not running?

→ Run "MediChec.exe" as an administrator privileges

After clicked with the right mouse button in the Execution file, run as an administrator privileges



2>Is the screen not coming out?

2-1. After the program runs, the screen automatically turns on about 5 seconds later

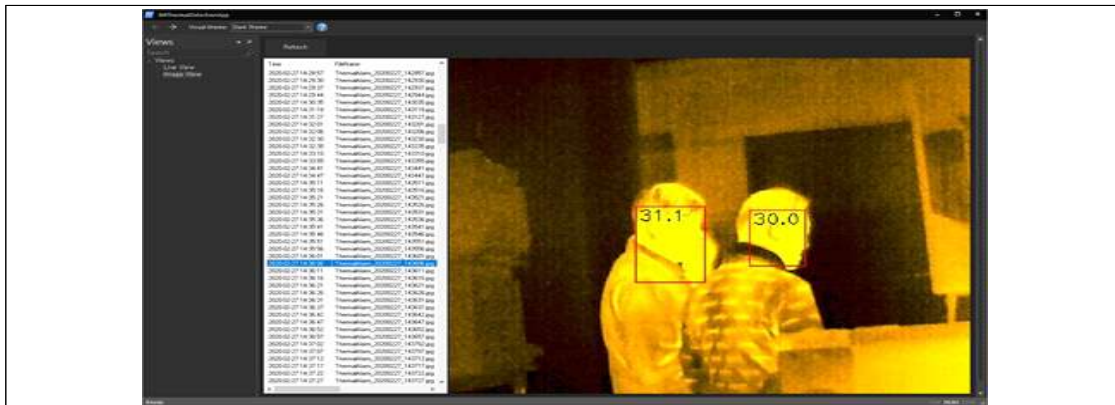
2-2. If the screen is not picture after 5 seconds later, Select live viewer

2-3 Check for the camera power supply and PC connection state

2-4 Your PC must be supported Gig E (100/1000 bps).

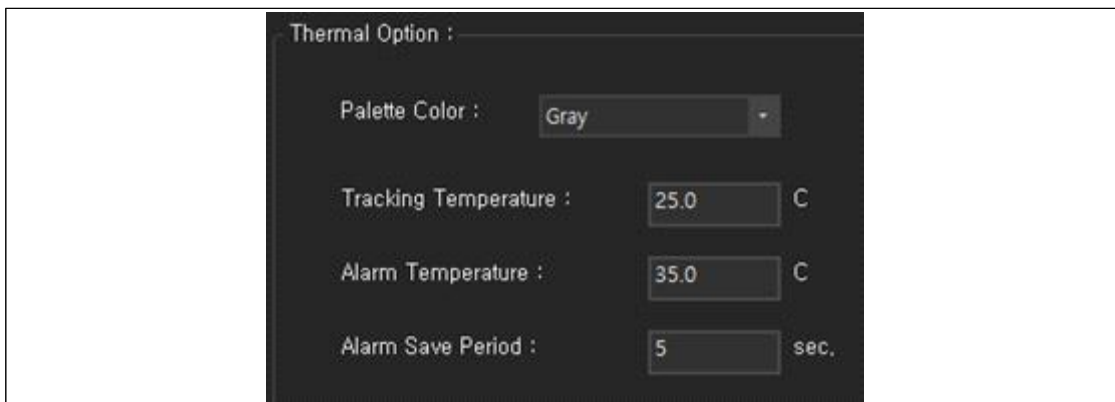
It can be found in the network properties.





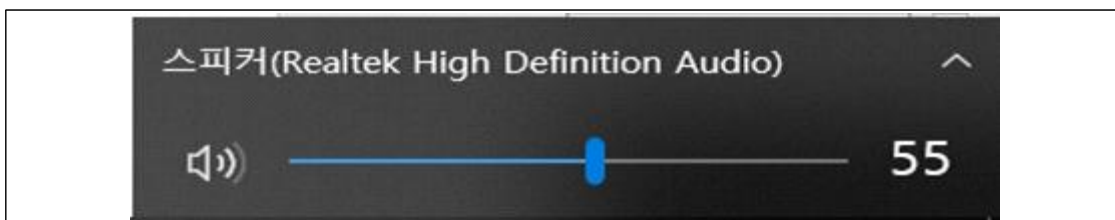
3> Where can I find the stored image?

→ It can find at the top left side of the execution program in the image view



4> It can see the video but it can not be detecting

→ The detection temperature value of thermal option has to set in the lower right of the execution program.



5> The alarm didn't go off

→ Please make sure turn on your speaker in your PC or laptop
After that turn the volume up