

# Thermal & Optical Bi-spectrum Network Camera

## **Quick Instruction Manual**

\*Please not that the volume can only be adjusted through the internal PC speakers. If you would like to lower it, adjust it through the volume settings at the bottom right of the taskbar.



Version: V2.0

## Content

1. P	roduo	ct Intro	duction	3
	1.1	Pro	duct Introduction	3
	1.2	Pro	duct Appearance	3
2. D	evice	Installa	ation	4
	2.1	Ins	tallation Position	4
	2.2	Inst	allation Environment Standard	.4
3.	Quic	k Instru	ctions	.4
	3.1	Dev	ice Connection	.4
	3.2	Al The	ermal Imaging Screening Sytem	5
		3.2.1	Main Interface Introduction	5
		3.2.2	Snapshot Folder	.5
		3.2.3	Thermal Imager Camera Settings Introduction	6
4.	Devi	ce Upgr	ade	7
	4.1	Web Up	grade	.7
	4.2	Tool Up	grade Program	.7

## **1. Product Introduction**

## 1.1 Product Introduction

This Intelligent AI binocular thermal imaging system is composed of AI binocular temperature detecting and AI thermal imaging screening system. Integrating high accuracy thermal temperature detecting sensor, built-in intelligent face capture algorithm and ISP image processing technology. The device features consist of face detection, temperature detection and face image capturing snapshot. The AI thermal imaging screening system can accurately detect body temperature, capturing face pic and create records for tracking and tracing purposes. It can effectively help to monitor and detect body temperature at entrances or exits which can be widely use at schools, commercial or residential buildings, and metro or railway stations thus contributing efficent prevention during this epidemic crisis.

#### **1.2 Product Appearance**



## 1.3 Device Interface Function Definition

Interface No.	Interface Name	Functional Indicators
1	Power Interface	12VDC Adapter Port
2	Network Interface	RJ45 Network Interface Port
3	Dolay Interface	+: NO Normally Open Port
3	Relay Interface	-: COM Public Port
		1: Audio Input
4	Audio Interface	2: Audio Ground
4	Audio interface	3: Audio Output
		4: Empty

## 2. Device Installation

## 2.1 Installation Position

1. The Themal Imager Camera should be position in front of the aisle facing entrances or facing backwards for exits for temperature screening and image capture snapshots;

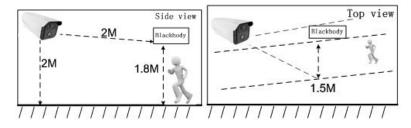
2. Installation height recommend 2 meters or higher with an overlook view angle of 0~15°;

3. For better accuracy body temperature screening, recommended distance range is from 1.5 to 2.5 meters which has been strictly tested for optimum results.

## 2.2 Installation Environment Standard

1. Illumination Enviroment Requirements: Postion camera to ensure no backlight, light refection on human face, or shadows for better face capturing results. If the face image snapshot is not bright or sharp, it is recommeded to increase or reposition the Thermal Imager camera (General Suggested 250~800 Lux).

2.Light and Wind Enviroment Requirements: The Thermal Imager Device is suggested to be installed indoor, ensuring there is no wind current between device and human. Avoid direct sunlight or high temperature devices to prevent screening temperature inaccuracy.



## 3. Quick Instructions

## 3.1 Device Connection

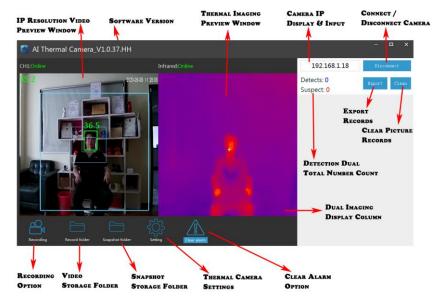
Power the Thermal Imager camera and connect with RJ45 network cable to the LAN port available on PC or Laptop. Log in to software, User Name is Admin with default password 123456. Click "connect" at top right corner software interface (Diagram 2). The Thermal Imager camera dafault IP address is **192.168.1.18** thus if software does not detect the camera, please check if the computer IP address is **192.168.1.1**. If IP address amendment is required, open the search tool application available in the computer to make amendment to the current IP Address. Camera can be directly connected to a computer, or connected to a network as the figure below, then connect the power adaptor and power-on.

				Login		X
Camera	Router/Swit	ch		User Name:	admin	
	nemet	Erthernet		Password:	****	
C	able	Cable		1	ОК	
			PC(Set to Static IP)	- I	Change password	
			IP Addres:192.168.1.X(2≤X≤200)			

#### 3.2 AI Thermal Imaging Screening Sytem

User can use AI thermal imaging screening system software to connect device, preview, setting, alarm clean, snapshot pic preview, export records, etc operation.

#### 3.2.1 Main Interface Introduction



【Video Preview Window】: Dual screen view (Optical and Yhermal imaging)

[IP Display & Input Box] : Input device's IP address. Default IP address is 192.168.1.18;

【Connect/Disconnect Device Button】: Connect or Disconnect Thermal Camera option;

**[Export]** : Export counting records and saved as excel file;

**(Clean)** : Clear the total records.

[Detection Total Number Count]: Counting the total numbers of face capture and suspect;

[Dual Imaging Display Column] :Snapshot & Temperature record display;

[Recording Option] & [Recording Storage Folder] : Record Video option & Folder;

**(Snapshot Storage Folder)** : Click the snapshot folder to check saved captured face;

**[Camera Settings]** : Modify the settings for face capture and Cancel Alarm option;

**[Detects]** : Total numbers counts of face capture and shows;

[Suspect] : Total number counts above high temperature limit setting;

## 3.2.2 Snapshot Folder

To click the **[Snapshot Folder]**, **Snapshots of all captured face pics.** The folder filed by date.



## 3.2.3 Thermal Imager Camera Settings Introduction

Setting

arm switch:	On	٣		Correction mode:	Auto correction	۳
uration(s):	10			Blackbody detection(4~12):	6	
pture interval (MS):	1000			Correction:	1.1	
e deduplication:	On	٣		Max temp:	37.3	
nal prompt:	On	٠		lower temperature:	35.0	
ion zone switch:	On	٠	Detection zone	Temperature mode:	Centigrade	٠
size check switch:	On	٠	Face size setting		Refresh	
je path:			select		Save	

**(Alarm Switch)** : Turn On/Off to temperature alam function;

[Duration(S)] : Temperature alarm duration time, default is 10 seconds;

**Capture Interv(MS)** : The interval time of repeated face capture;

[Face Deduplication] : Turn on / off for repeated face duplication detection & snapshot;

**[Normal Prompt]** : Turn on / off for prompt option;

**[Detection zone switch]** : Turn on / off and set "Detection Zone".;

**[Face size check switch]** : Turn on / off face detection snapshot enhancement;

[Image patch] : Set snapshot storage path or folder;

**[Correction Mode]** : Temperature Correction mode.

Auto Correction: Temperature correction in accordance to camera thermal imager;

Black Body Correction: Temperature correction in accordance to Black body;

Debug Mode: Manual Correction;

**Correction**<sup>o</sup>C **:** Under the severe environment, it will increase the compensation temperature to improve the accuracy of temperature measurement; time-of-use compensation can be set.

**[Max Temperature**<sup>o</sup>C**]** : Alarm when temperaturedetected is higher than limit<sup>o</sup>Csetting;

**Lower Temperature**<sup>°</sup>C**]** : Default 35<sup>°</sup>C;

[Temperature Mode] : Set Temperature unit of Centigrade or Fahrenheit;

## 4. Device Upgrade

Users can use browser or PC tool for upgrade;

Notice: Brower upgrade package suffix is .ifu. PC tool upgrade package suffix is .bin

## 4.1 Web Upgrade

Notice: Only IE browser,QQ browser,and 360 security browser isworkable; IE Edge browser,360 speed browser are not able to use.

Step 1: Open Browser, input device IP address, and input the user name" admin" and no password.

Windows Security
The server 192.168.1.18 is asking for your user name and password. The server reports that it is from Megapixel_JP_Camera. Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.
admin Password @ Remember my credentials
OK Cancel

Step 2: Click "setting"-"Setting"-"Maintain" to enter into the uprade interface;

Step 3: Click" Browse" to choose "app.ifu" updgrade file;

Step 4: Click "Upload" button to start upgrading, after upgrade completed, the web page will auto-refresh.

	Megapixel IP Camera								
Browse	Setting 1								
System (2)	System Time Advanced 3								
	Firmware upgrade								
Network									
Camera	Keep current config unchanged:								
Browse Setting   System System   System System   Network Firmware upgrade   Camera Image: Comparison of the parameters of the factory default settings.   Video&Audio Submit   PTZ Function Factory settings   Alarm Press the button to reset all the parameters to the factory default settings.									
PTZ Function									
TT2 Function	Setting System Time Advanced 3 Firmware upgrade (Please choose upgrade file Keep current config unchanged: 5 Submt Factory settings Press the button to reset all the parameters to the factory default se								
Alarm	Press the button to reset all the parameters to the factory default settings.								
Record	Keep current IP unchanged: 🔽								

## 4.2 Tool Upgrade Program

Step 1: Open the PC to search tool **IPWIZARD** and above version, select the device

						_				_			Product Info				MAC Address		Software version	
0 PC PAGEMAA 80.08.1.8 20.531.550 30.248.1.1 90.246.409.2 10 11.6.0 For Benarding P 0 Terrene C 0 Terrene																				
Strict diversioning 37     @ Treasure 17										Upc	1 1 0	IPC .	5PA-0182A8A	192.168.1.18	255.255.255.0	192.168.1.1	00-2A-2A-52-45-3E	80	1.0.0.0	
@ Terrory P     Permanent P	0	×	PA-0153ABA	192.168.1.18	255.255.255.0	192.168.1.1	00-2A-2A-52-45-3E	80	10.0.0											
2   1   1   2     1   1   2   1   3     1   1   1   1     3   0   0   0														Set	the starting IP					
																🗇 Permanent 🎔				
														2						
																_				
										_				(	3	CANCLE				
														_						
									_		٠									

and upgrade directly for single device;

Step 2: For multi-devices batch upgrade, user need to modify the default IP address to different

one to avoid IP address collision. Take a example as below pic shows: