

# **AI Binocular Thermal Imaging System**

## **Quick Instruction Manual**



**Version: V2.0**

## 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 picture and creates record for tracking and tracing purposes. It can effectively help to monitor and detect body temperature at entrances or exits which can be widely used at schools, commercial or residential buildings, and metro or railway stations thus contributing efficient prevention.

### 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	Relay Interface	+ : NO Normally Open Port - : COM Public Port
4	Audio Interface	1: Audio Input 2: Audio Ground 3: Audio Output 4: Empty

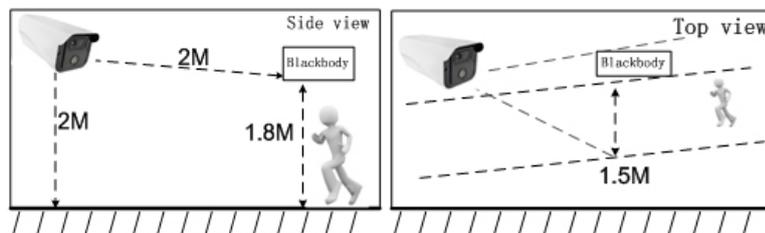
## 2. Device Installation

### 2.1 Installation Position

1. The Thermal Imager Camera should be positioned 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 (approx. 6 feet) or higher with an overlook view angle of 0~15°;
3. For better body temperature screening accuracy, recommended distance range is from 1.5 to 2.5 meters (approx. 5 to 8 feet) which has been strictly tested for optimum results.

### 2.2 Installation Environment Standard

1. Illumination Environment Requirements: Position camera where there is no backlight, light reflection on human face, or shadows to ensure better face capturing results. If the face image snapshot is not bright or sharp, it is recommended to increase or reposition the Thermal Imager camera (General Suggested 250~800 Lux).
2. Light and Wind Environment 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.



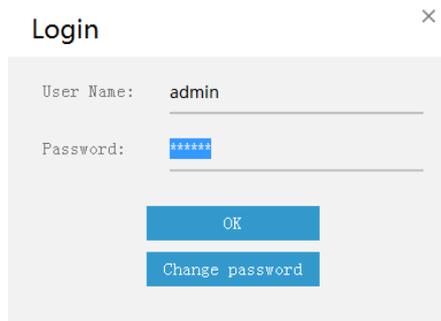
## 3. Quick Instructions

### 3.1 Device Connection

Power the Thermal Imager camera and direct connect the RJ45 network cable from the camera to the LAN port on PC or Laptop. On your computer browse to the folder where you extracted the TMT camera's software then double-click the executable file "IPCFaceId.exe" (there is no software installation process for the TMT camera you are only required to run the IPCFaceId.exe application)

Name	Date modified	Type	Size
image	6/10/2020 11:03 AM	File folder	
Translator	6/2/2020 11:36 AM	File folder	
record	6/2/2020 11:36 AM	File folder	
track_id.db	6/23/2020 11:00 AM	Data Base File	8 KB
HCF_sysinfo.ini	6/23/2020 10:47 AM	Configuration sett...	1 KB
fd_DB.db	6/10/2020 2:41 PM	Data Base File	20 KB
config.ini	5/31/2020 5:00 PM	Configuration sett...	1 KB
IPCFaceld.exe	4/30/2020 10:34 AM	Application	840 KB
HKDLL.dll	4/30/2020 10:34 AM	Application exten...	112 KB
ExcelConsoleApplication.exe	4/30/2020 10:06 AM	Application	8 KB
ExcelConsoleApplication.vshost.exe	4/30/2020 9:30 AM	Application	12 KB

Log in to software, default User Name is “admin” and default Password “123456”.



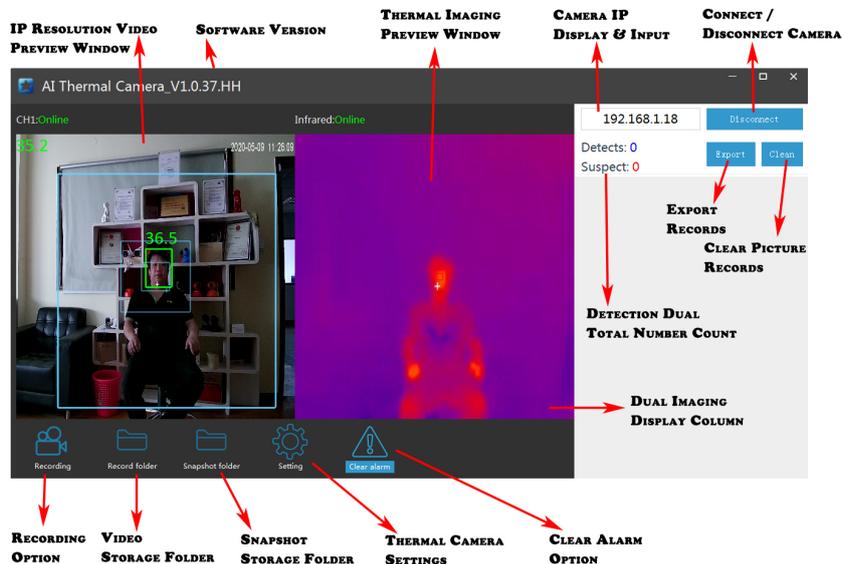
The Thermal Imager camera default IP address is **192.168.1.18** thus if software does not detect the camera, please check if the computer IP address is in the 192.168.1.x subnet. If IP address change is required see the appendix “**Changing your computers IP Address**” to change the computer’s IP Address to the same subnet as the camera.

Click “connect” at top right corner software interface (See image in section 3.2.1).

### 3.2 AI Thermal Imaging Screening System

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 Thermal imaging)



**【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>°C</sup>】** : 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>°C</sup>】** : Alarm when temperature detected is higher than limit <sup>°C</sup> setting;

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

**【Temperature Mode】** : Set Temperature unit of Centigrade or Fahrenheit;

## 4. Device Upgrade

**Notice: Only IE (Internet Explorer) browser is supported**

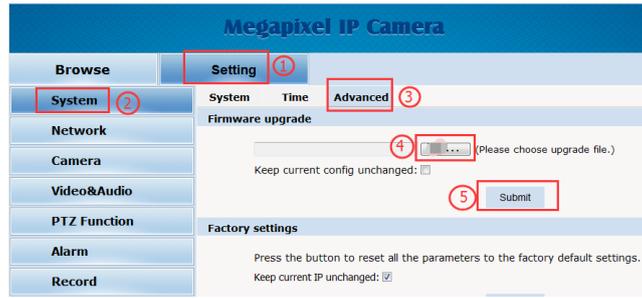
Step 1: Open Browser, input device IP address, and input the user name & password, the default name is “admin” and password is “admin”.



Step 2: Click “Setting”-“System”-“Advanced” to enter into the upgrade interface;

Step 3: Click” Browse” to choose “app.ifu” upgrade file;

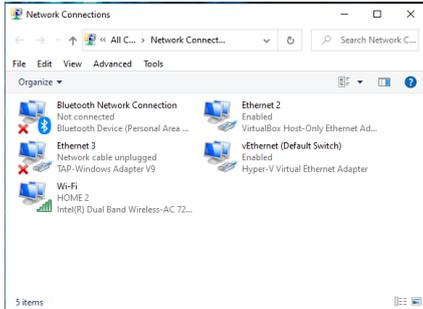
Step 4: Click “Upload” button to start upgrading, after upgrade completed, the web page will auto-refresh.



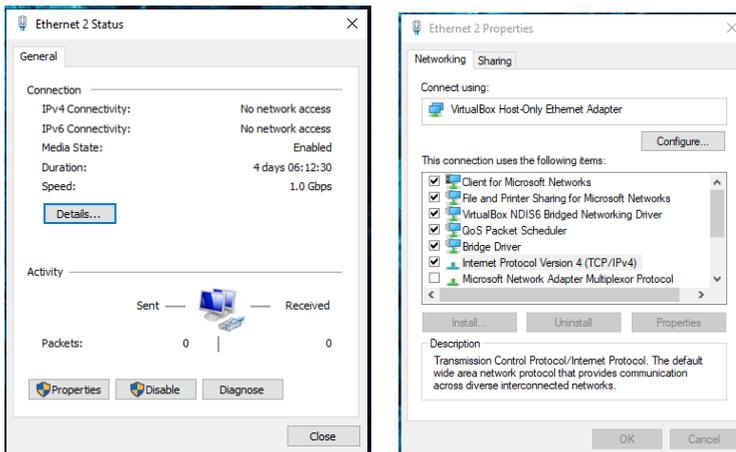
## Appendix

### Changing your computers IP Address

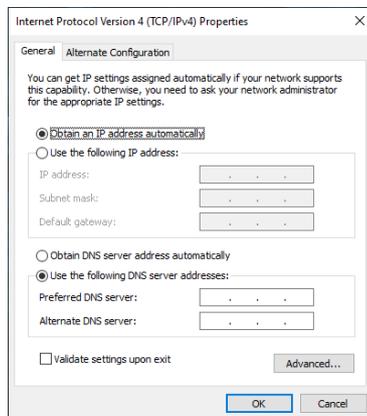
1. Open your computer's Network Connections window, the shortcut to this is by pressing the Windows key and the R key at the same to open the Run box then Type ncpa.cpl and hit Enter



2. Then double-click on your Ethernet adaptor connected to your network, click the Properties button, highlight Internet Protocol Version 4 (TCP/IPv4) the click Properties button again



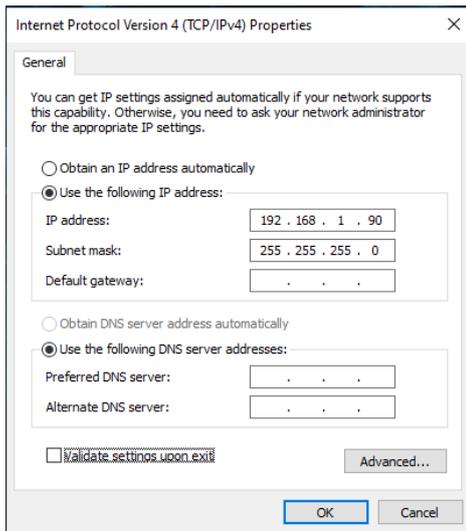
3. The Internet Protocol Version 4 (TCP/IPv2) Properties window shows your current IP Address configuration, make sure you store how your Ethernet adaptor is currently configured.



If the Obtain an IP address automatically radio button is selected click the Use the following IP address radio button.

If the Use the following IP address radio button is already selected, clear out the information already entered.

4. Enter this information in the Properties window



**NOTE:** The IP Address you enter must not be the same IP Address as the camera

5. Click the OK button twice then the Close button

You can now continue with direction on using Internet Explorer to login to the web browser interface.

After you have performed the initial camera configuration and changed the camera's IP Address to one that is available on your LAN's subnet you can re-connect your computer to your LAN and reset its IP Address information to the original settings that you recorded in step 3.