

THERMAL CAMERA SYSTEM

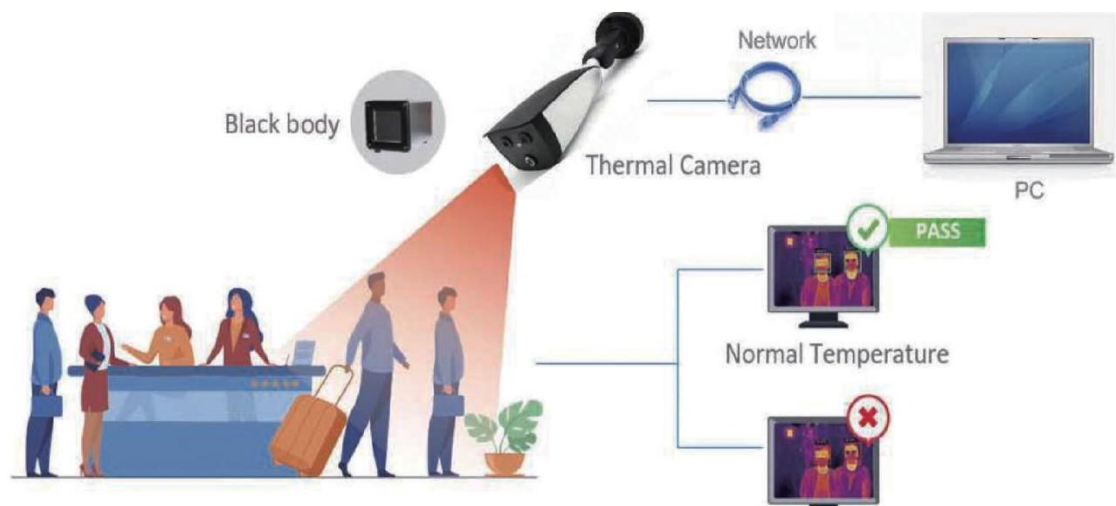
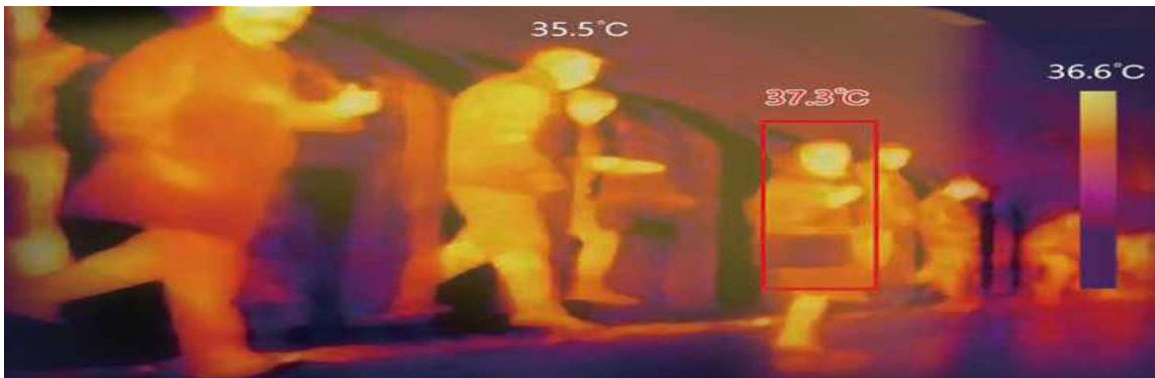
QUICK INSTRUCTION



Version-WT-C15000

WELLTECH ENTERPRISES

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Solution

Abnormal Temperature

Re-inspection Area



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1. Product Introduction

1.1 Product Description

This Intelligent AI binocular thermal imaging system is composed of AI binocular temperature detecting camera and AI thermal imaging screening system. Integrated by thermal temperature detecting sensor of high-accuracy, built-in intelligent face capture algorithm, and ISP image processing technology etc, this device is with face detection, temperature detection and face capture, etc powerful features. With AI thermal imaging screening system, it can accurately detecting the body temperature, capturing face pic and records for those people appeared in front of this device. It can effectively help to monitor and detect the body temperature of entry and exit people ,thus contributing to prevent epidemic situation. It can be widely used at all kinds of entrances and exits of school, buildings, stations, etc.

1.2 Product Appearance



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Product Features

High sensitivity thermal module with 256 x 192 resolution;
NETD is less than 60 mk (@25° C, F#=1.0);
Supports contrast adjustment;
Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR;
Up to 15 palettes of adjustable color;
Reliable temperature-anomaly alarm;
Temperature Range From -15°C to +150°C ;
High quality optical module with 2 MP resolution; Bi-spectrum image fusion, picture-in-picture preview; Support for capture and save in PC of personnel in and out

Specification

Device Interface Function Definition

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

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Thermal	
Image Sensor	Vox Uncooled Focal Plane Arrays
Resolution	256x192
Pixel Interval	12pm
NETD	Less than 60 mK (@25°C.F#=1.1)
Aperture	F1.0
Field of View	35° x 27° (H x V)
Optical	
Image Sensor	1/2.8" 2.0M Pixel CMOS
Resolution	1920x1080P
Min. Illumination	Color: 0.005Lux @ (F1.2, AGC ON), B/W 0.001 Lux @ (F1.2, AGC ON)
Field of View	84° x 45° (H x V)
Focal Length	4mm
Shutter Speed	1s to 1/100,000s
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Daylight Lamp/Sodium Lamp
Day& Night	ModeIR cut filter with auto switch
WDR	80 dB
Feature	
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
Picture in Picture	Combines details of thermal and optical image PIP, overlay thermal image on optical image
Smart Function	
Face snapping	Built-in deep learning AI algorithm, Supports simultaneous detection of 20-30 faces
Temperature Measurement	Support global and local temperature
Temperature Range	From -15°C to +150°C
Temperature Accuracy	Target temperature 35°C ^ 38°C ±0.3 °C Target temperature 20°C ^ 33°C ±0.6 °C Target temperature 38°C ^ 50°C ±0.6 °C
Network	
Main Stream	Thermal: 25fps(1920 x 1080, 1280 x 720)
Sub Stream	Thermal: 25fps(704 x 576, 352 x 288)
Video Compression	H.264 (Baseline/Main/High Profile) /MJPEG/H.265
Audio Compression	G.711u/G.711a/G.7221/MP2L2/G.726/PCM
Protocols	TCP/IP, ONVIF, GB/T 28181, DHCP, RTP, RTSP, PPPoE, UPnP, UDP
API	ONVIF (Profile S, Profile G, Profile T), SDK
General	
Web Client Language	languages English, Chinese
Power	DC 12V, 0.65A
Work Temperature/Humidity	From -20°C to 55°C; Humidity: 95% or Less
Protection Level	IP66
Dimension	246 mm x 101 mm x 81 mm (with bracket)
Weight	Approx. 1.0 kg

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2. Device Installation

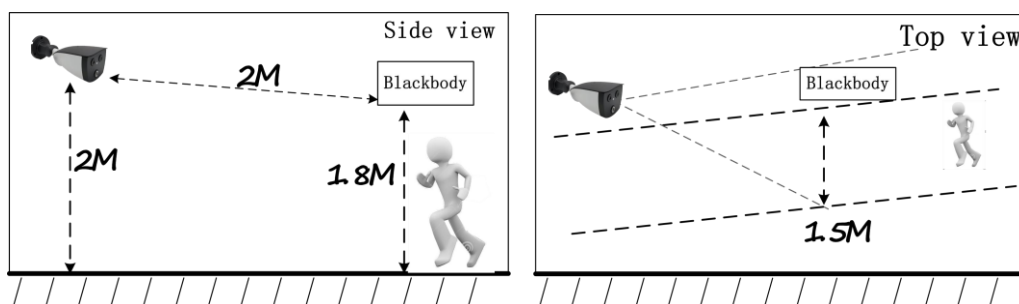
2.1 Installation Position

1. Camera being set in front of the aisle to capture the face;
2. Suggested installation height is about 2 meters, and camera overlook view angle $0^{\circ}\sim 15^{\circ}$;
3. For accurate detection of body temperature, 1 meters (Range 1m to 2.5m) distance are tested for the optimum capture distance.

2.2 Installation Environment Standard

1. Illumination Requirements: No backlight, no obviously reflect light on face, uniform light and no shadow. In addition, to ensure the enough illumination of the scene when capturing the face, it is suggested to increase the lighting devices if the face in the display is not bright enough which may effect the face capture (General 250~800Lux).

2. Light and Wind Requirements: This Device is suggested to be installed indoor, ensuring there is no wind between device and people, no direct sunlight, so as to avoid the detected temperature too low or too high caused by blowing, cooling and direct sunlight.

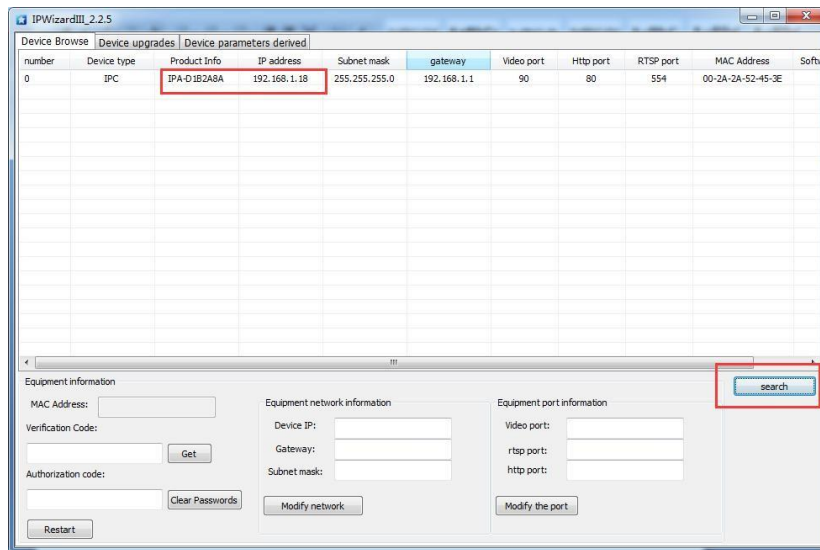


3. Quick Instructions

3.1 Device Connection

Connect the device to the computer correctly through network cable; After the device powered on, open the search tool on the computer, search device IP address. User can also modify the IP address by search tool at the same time.

Notice: Default device IP address is 192.168.1.18.



3.2 AI Thermal Imaging Screening System

After device powered on, 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】 : After device connected, user can view double screen(optical and thermal imaging)for real-time preview as above pic shows;

【IP Input Box】 : Input device's IP address. The device default IP address is 192.168.1.18;

【 Connect/Disconnect Device Button 】 : Click **【 Connect 】** to view the real-time display,facecapture pic and temperature detecting.Click **【 Disconect 】** to

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close the preview;

【Capture Display Column】:List the current captured face pic and detecting temperature;。

【Snapshot Folder】 : Click the snapshot folder to check saved captured face;

【Setting】 : Click to modify the settings for face capture and temperature detecting alarm;

【Clear Alarm】 : After click,the alarm will be canceled;

【Detects】 : Counting the total numbers of face capture and shows;

【 Suspect 】 : Counting the total number of face capture for those above the high temperature limit setting and shows;

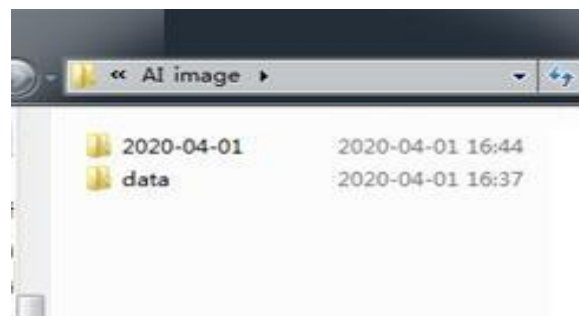
【Export】 : Export counting records and saved as excel file;

【Clean】 : Clear the total records.

3.2.2 Snapshot Folder

To click the **【Snapshot Folder】** ,you can check all the captured face pics.

Notice: The folder is named by the date.



3.2.3 Setting

Click **【Setting】** button to enter into the interface to modify the setting;

【On/Off】 : Turn On/Off to temperature alarm function;

【 HighLimit°C 】 : Alarm When detecting temperature higher than the high limit°C;

【Duration(S)】 : Temperature alarm duration time, default is 10 seconds;

【Confidence】 : Reserved, the reliability of judging an image as a face;

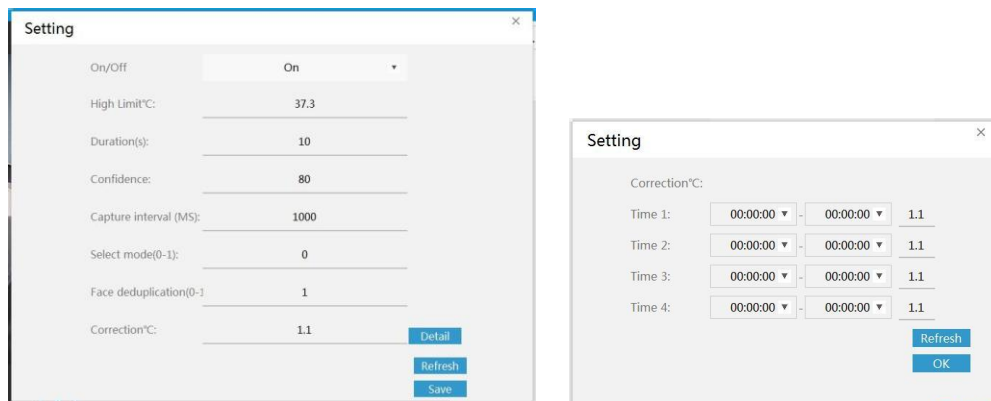
【Capture Interv(MS)】 : The interval time of Same people repeat face capture;

【Select Mode(0-1)】 : 0 indicates asile environemntk,1 indicates indoor environment;

【Face Deduplication (0-1)】 : Same people only capture once, no repeat snapshot;

【 Correction°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.



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.

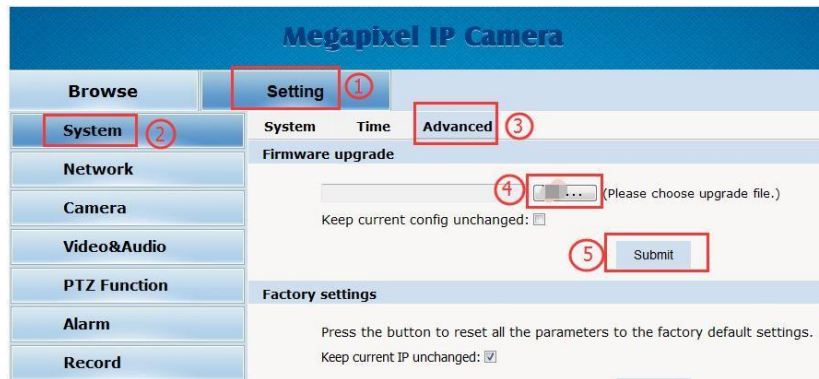
Step 1: Open Browser,input device IP address,and input the user name" admin" and password" admin".



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

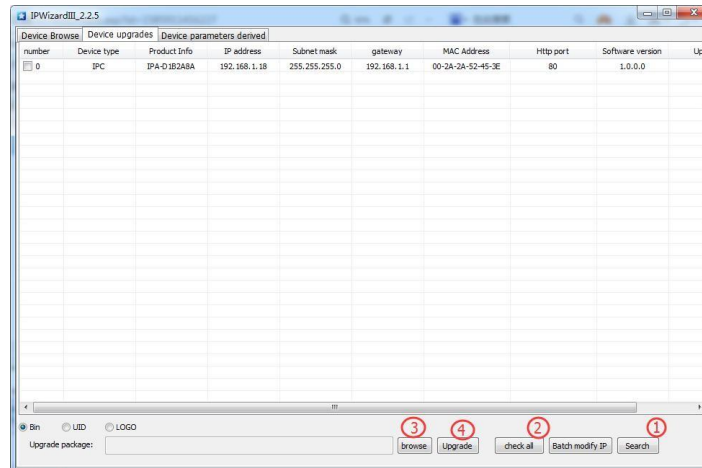
Step 3: Click" Browse" to choose "app.ifu" updgrade file;

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



4.2 Tool Upgrade Program:

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

