HEALTHGUARD TECHNOLOGY
Powered by iSiTech

Thermal Security Camera

Model No. HGTHRMSEC

Quick Start Guide

Version: 1.0

Contents

Thermal Security Camera Introduction

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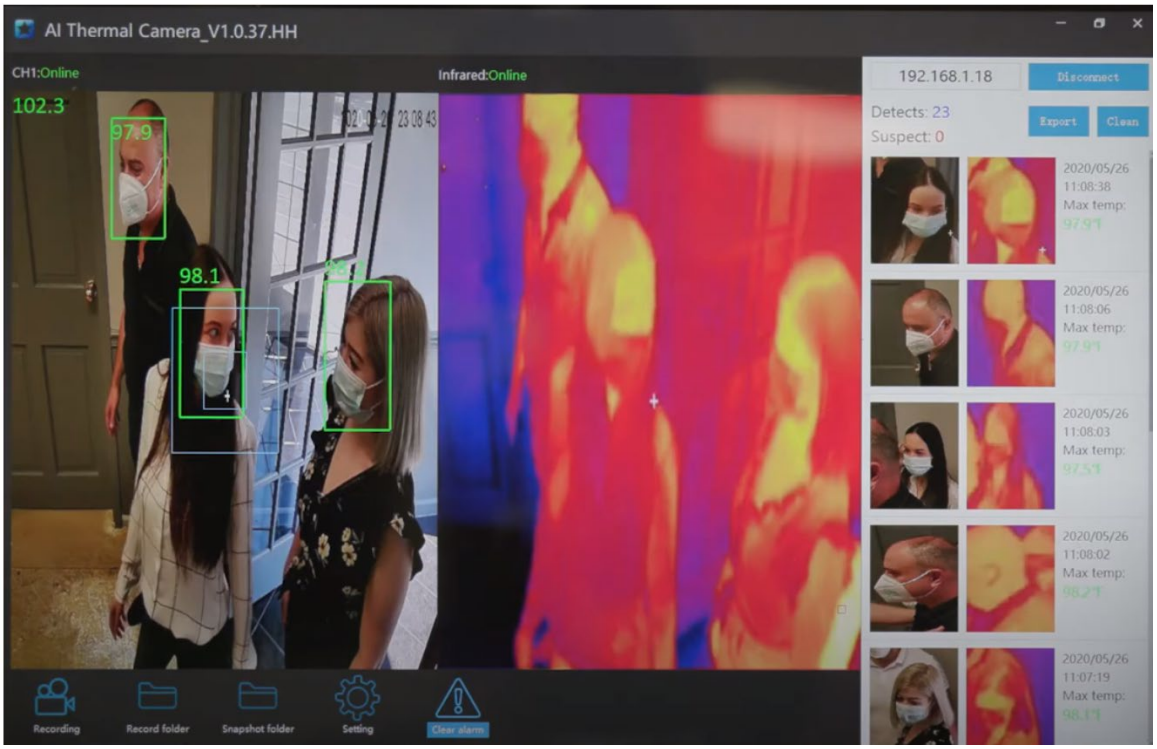
The HealthGuard Technology Thermal Security Camera is designed to monitor high traffic areas such as airports, public transport terminals, customs ports, hospitals, schools, enterprises, markets, and shopping malls.

System Description

The system combines a binocular temperature detecting camera with intelligent biometric scanning. The unit is easy to install and accommodates fast screening of up to 30 individuals at one time. Intended for monitoring lobbies, gates, entrances and exits, the system employs thermal image signal processing (ISP) technology adaptive to AGC, DDE, 3D and DNR data and video communications protocols.

- Subject acquisition distance is 1-10 feet
- Temperature accuracy is +/- 0.6° at 2-4 feet
- Audible notification alert sounds at presence of each new person
- Audible and screen alert sounds if high temperature is detected
- Live streaming capability
- Data may be saved or transferred to hard drive
- Video may be saved to hard drive
- Can be wall, ceiling, or doorway mounted

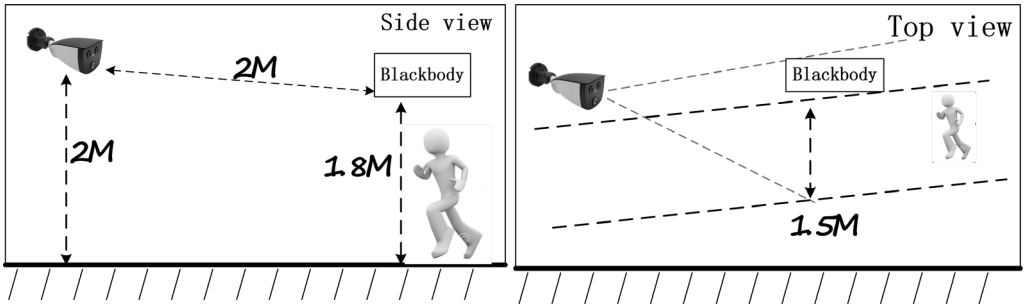


Installation

Installation Environment

IMPORTANT: Thermal imaging cameras are not intended for outdoor use. Install the camera so that it is protected from direct sunlight, wind, HVAC systems and electronic interference.

- Select a location with even lighting and consistent temperatures (5°F - 302°F).
- Avoid backlighting, such as installing the camera facing a window or doorway that lets in bright light.
- Avoid strong reflected light.
- Avoid shadows.
- If necessary, install additional lighting to achieve an intensity of 250~800 Lux).

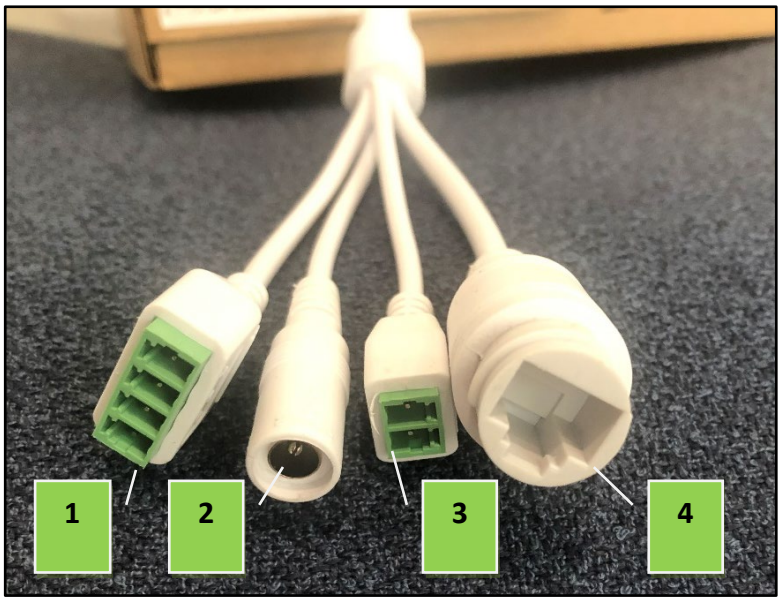


Installation Tips

- Before permanently mounting the camera, test for optimum capture distance and adequate lighting.
- For best image results, install the camera at a height of approximately 6.5 ft. above the target area.
- For accurate body temperature detection, the camera to target distance should be within 3.3 to 6.5 ft.
- Adjust camera so that it points downward at a 0 to approximately 15° angle.

Camera Connection

1. Connect the Thermal Security Camera to a computer or your server using the RJ45 LAN cable(4).
2. Connect the power cable (2).
3. The device will power up immediately.

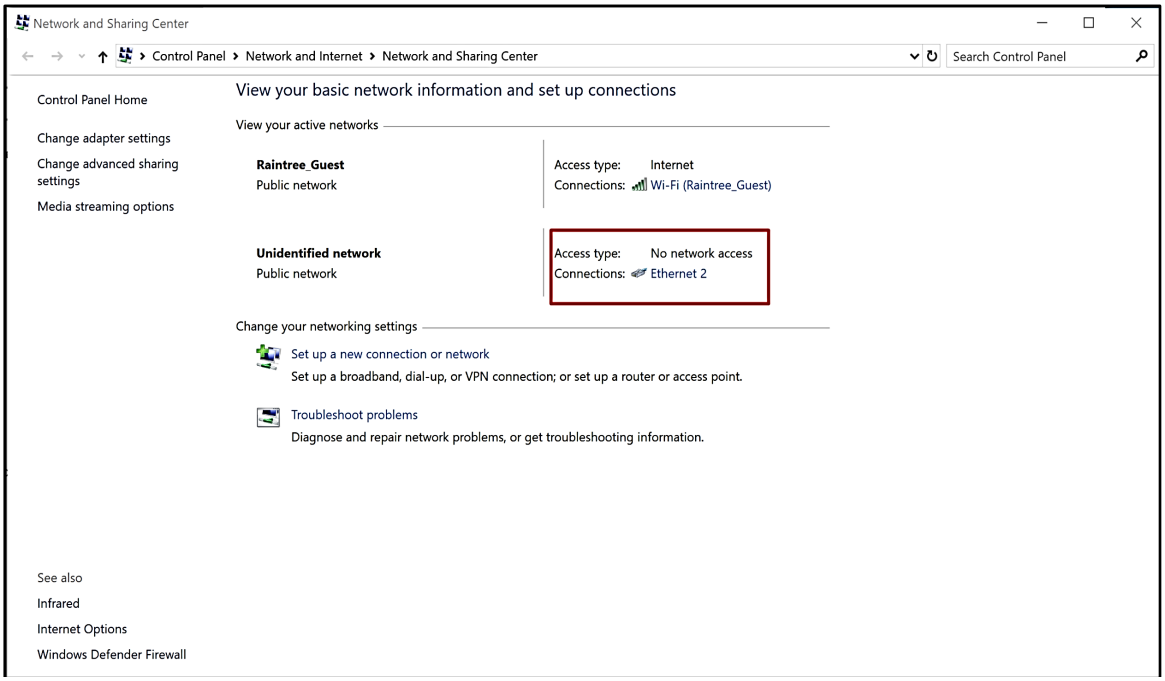


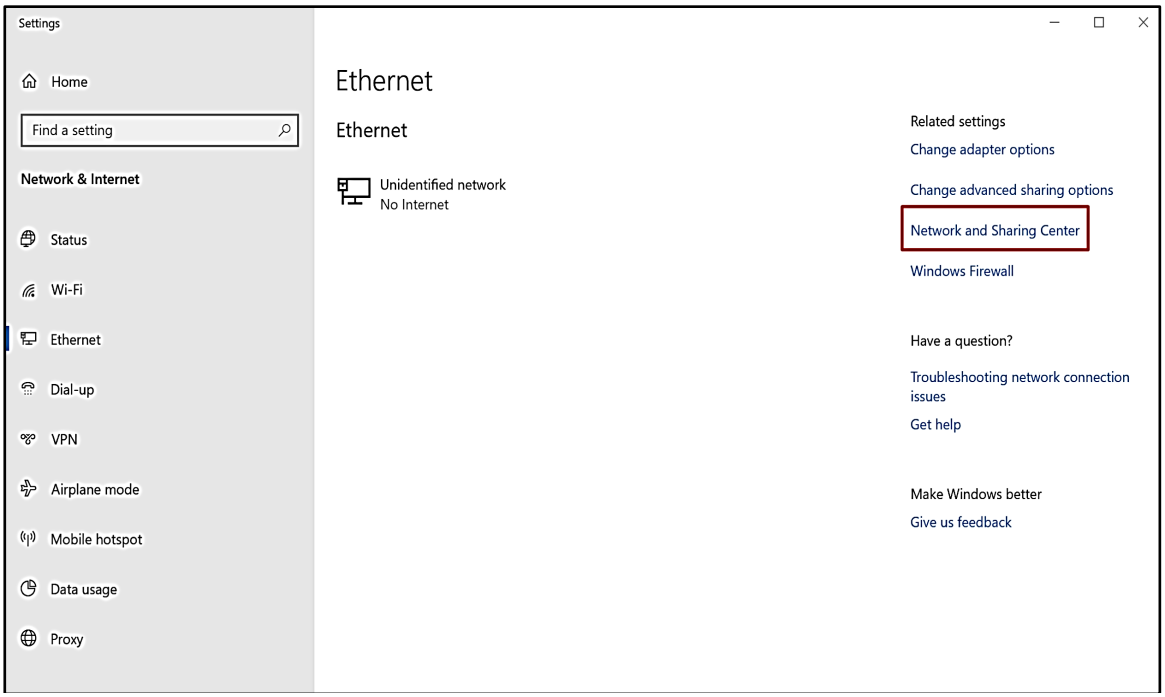
Cable Connections

Cable No.	Interface	Type
1	Audio	Audio Input/Output (grounded)
2	Power	12VDC
3	Relay	+： NO Normally Open Port
		-： COM Public Port
4	LAN	RJ45 Network Interface

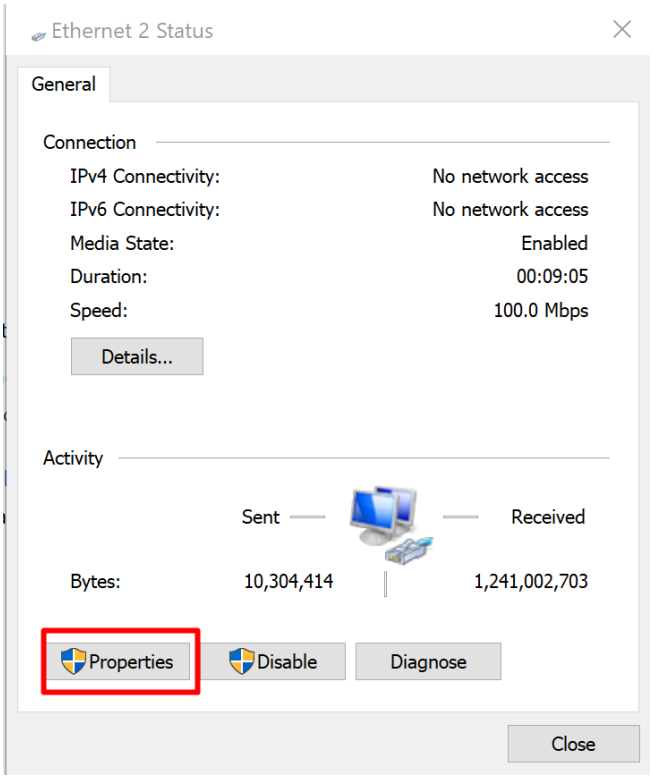
Getting Started

In Windows Settings, go to the Network and Internet Sharing Center.
Select Ethernet connection.

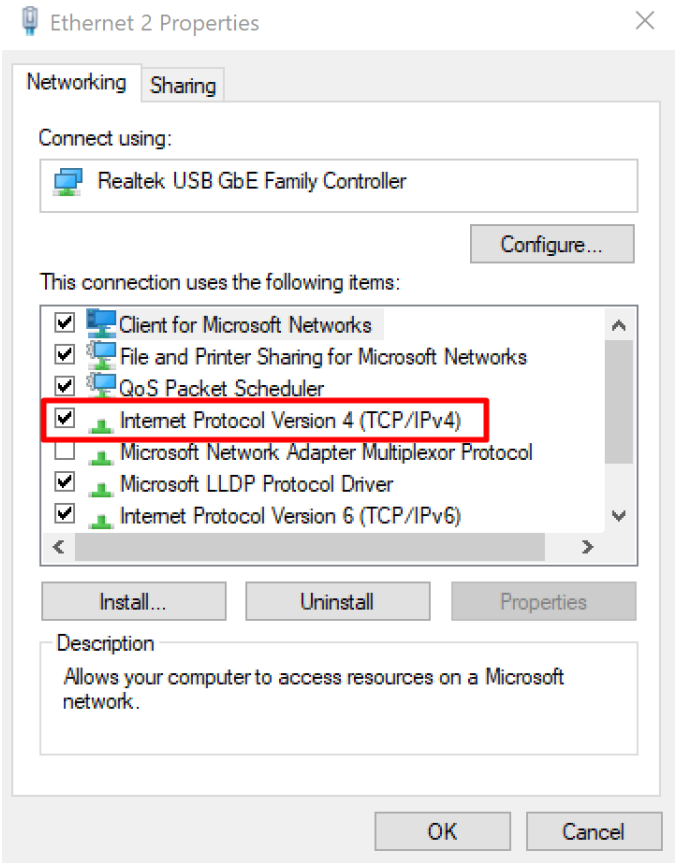




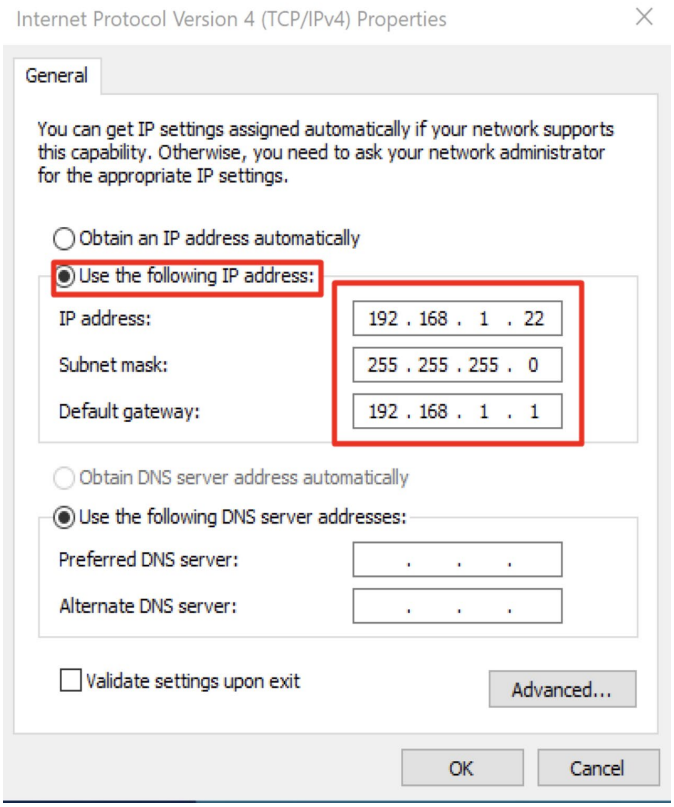
Click on Properties.



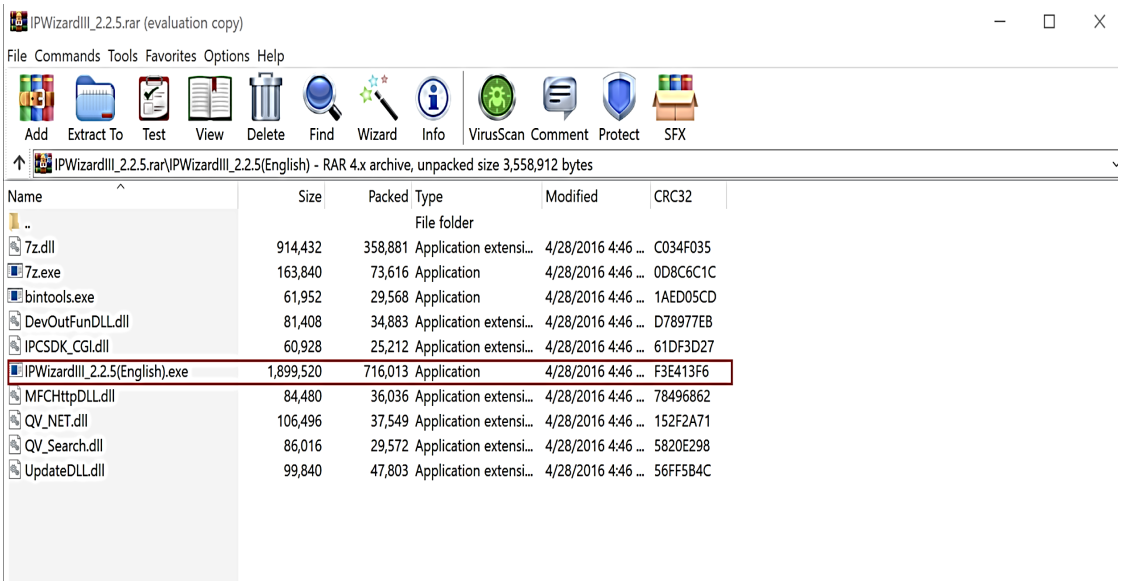
Select the TCP/IP configuration shown below and click OK.



Select automatic IP assignment.

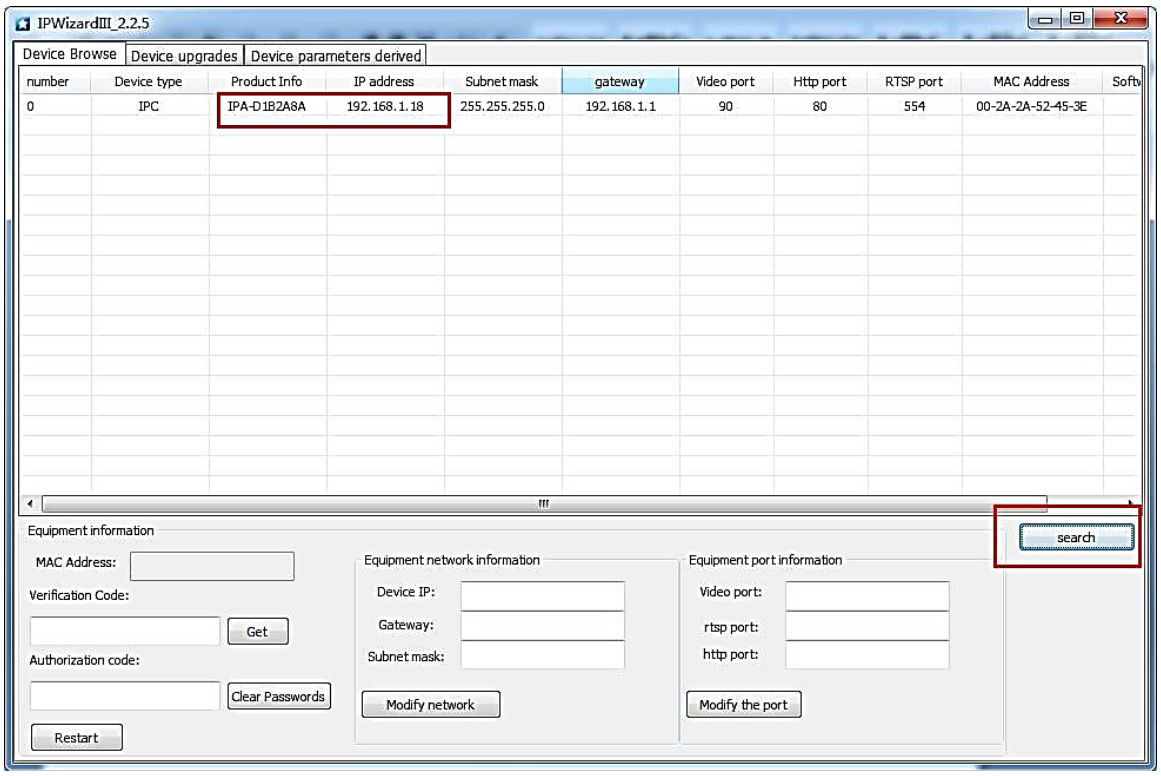


You also may access the IP wizard to search IP addresses.

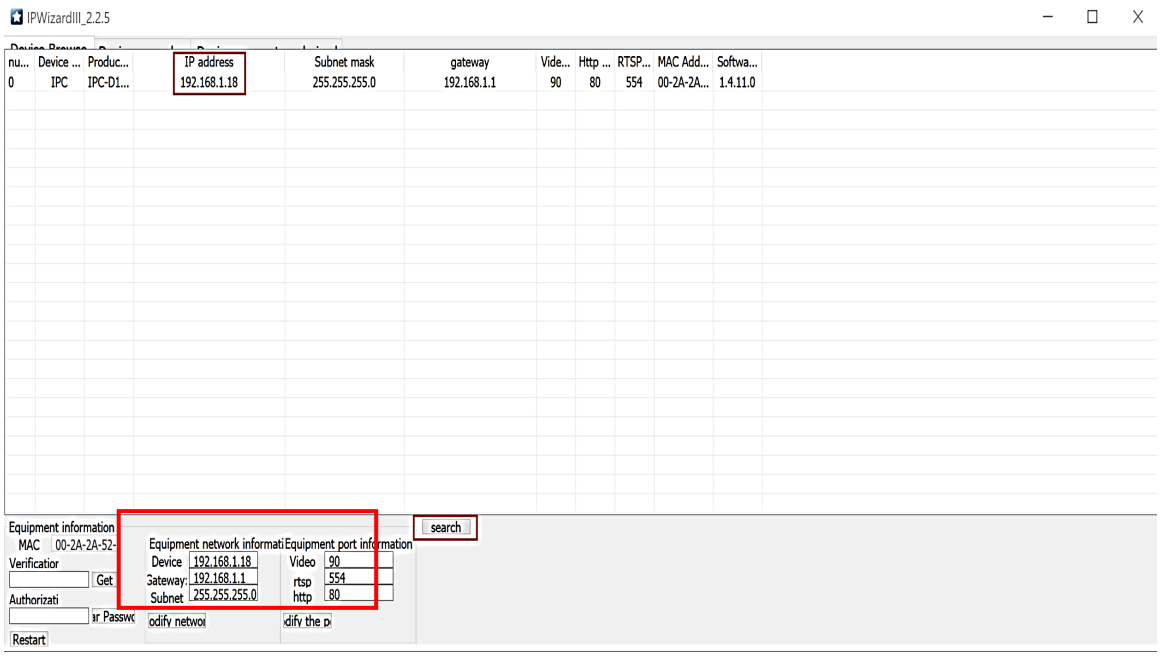


Select the camera's IP address.

The default IP address is: **192.168.1.18**



You can modify the IP address by using the search tool, if necessary.



Enter the Subnet Mask: **255.255.255**

Enter Default Gateway: **192.168.1.1**

Click OK.

Thermal Security Camera Software Installation

After the device is powered on and connected to your computer, download the software and the user manual.

In your browser, type the following address or click the hyperlink:

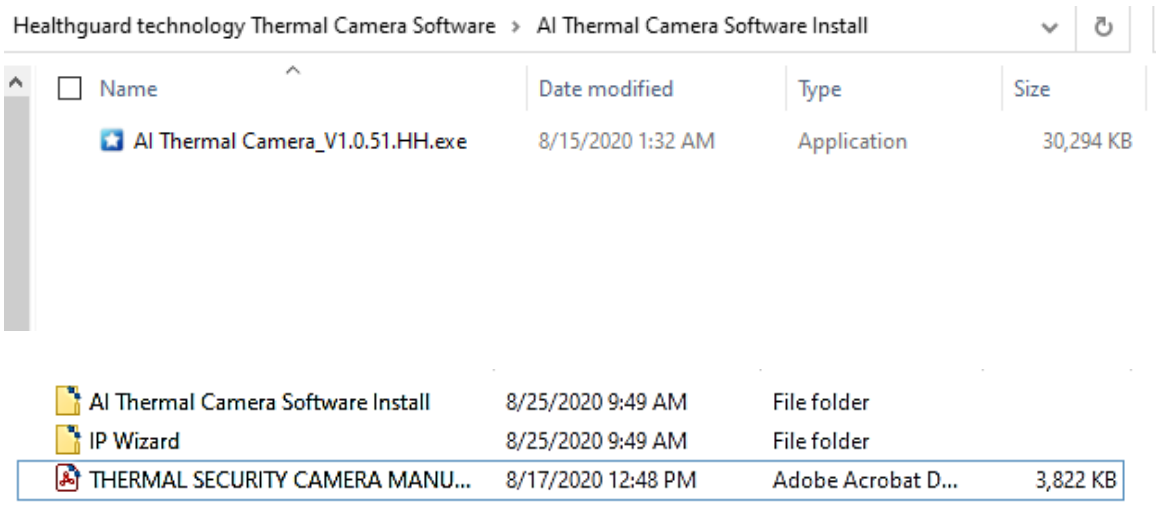
HealthGuardtech.com/temperature-camera

Click the Software button under the product photo.

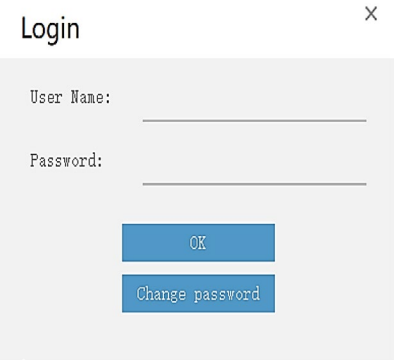
Click the Download Our Software button.

Download and open this file:

AI-Thermal-Camera_V1.0.50.HH - 0717.zip



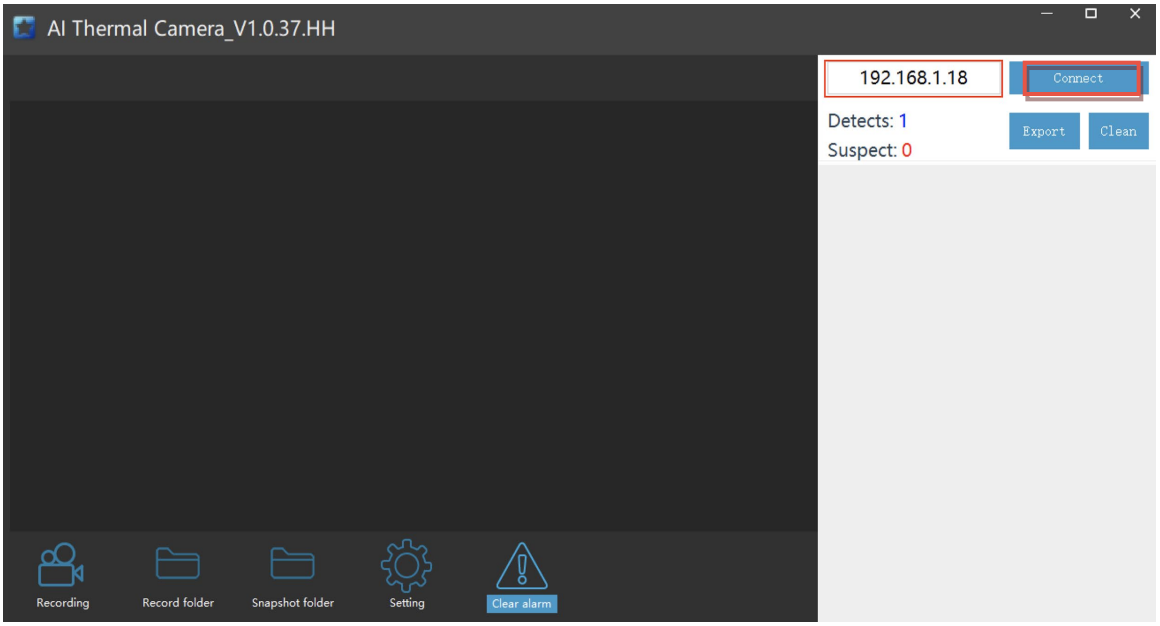
Once the installation is complete, click the desktop icon to launch the software.



Enter the following login information:

User Name: **admin**
Password: **123456**

In the IP input field, enter the device's default IP address: **192.168.1.18**



Click Connect.
The camera device is now connected to your computer.

Main Screen

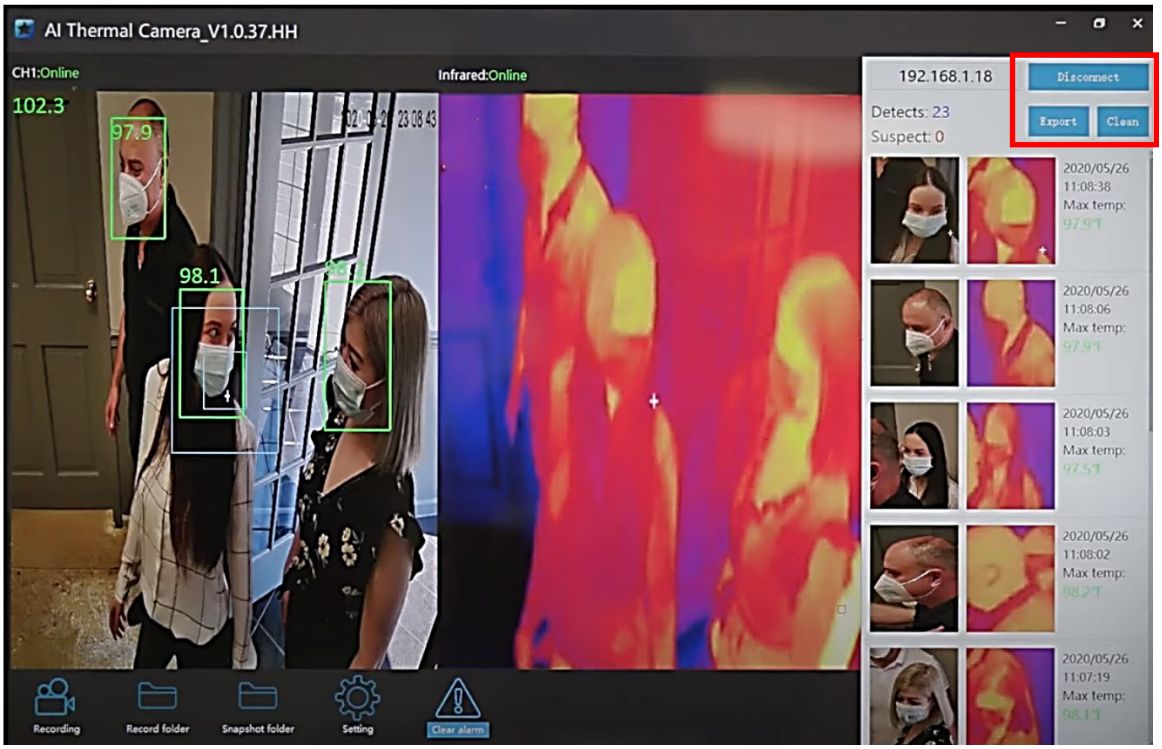
The main screen features two views in real-time preview mode: optical and thermal imaging.

As each individual enters the camera's field of view, the split screen displays their

optical image capture with corresponding body temperature and thermal image capture.

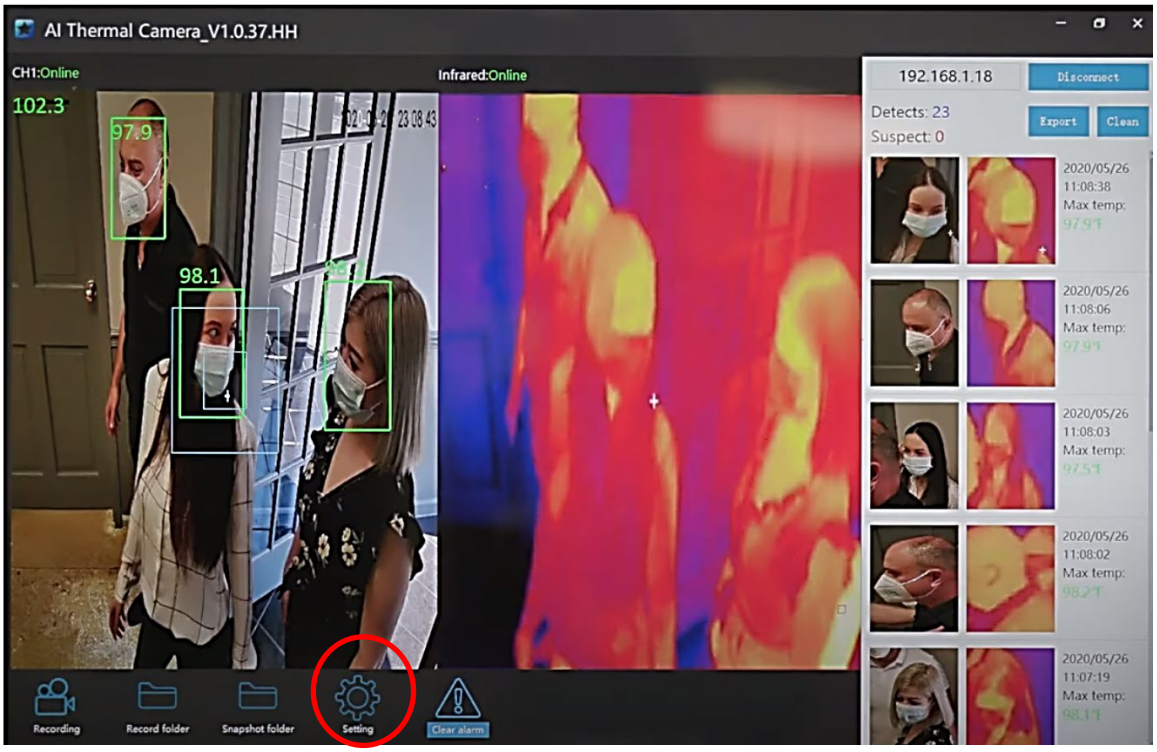
The three buttons in the top right corner of the screen allow you to Connect/Disconnect, Export data, Clear any alarms, and Clean (reset daily counts).

The software automatically stores the number of Detects and Suspect temperatures, as well as the biometric images.

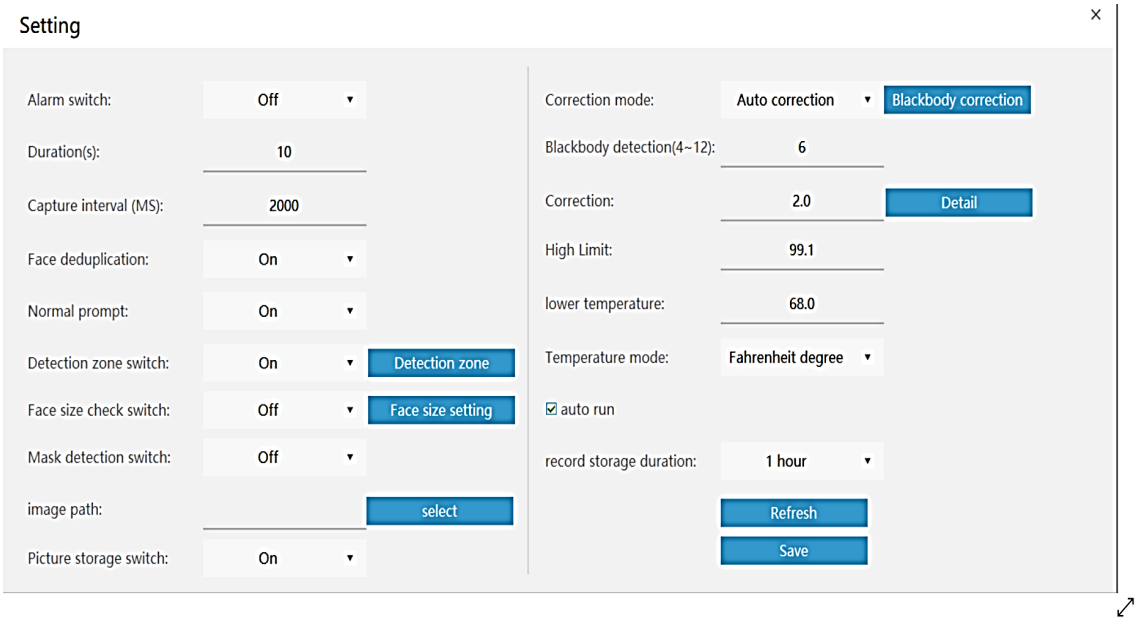


Settings

To access settings, click the gear icon at the bottom of the Main Screen.



Default Settings



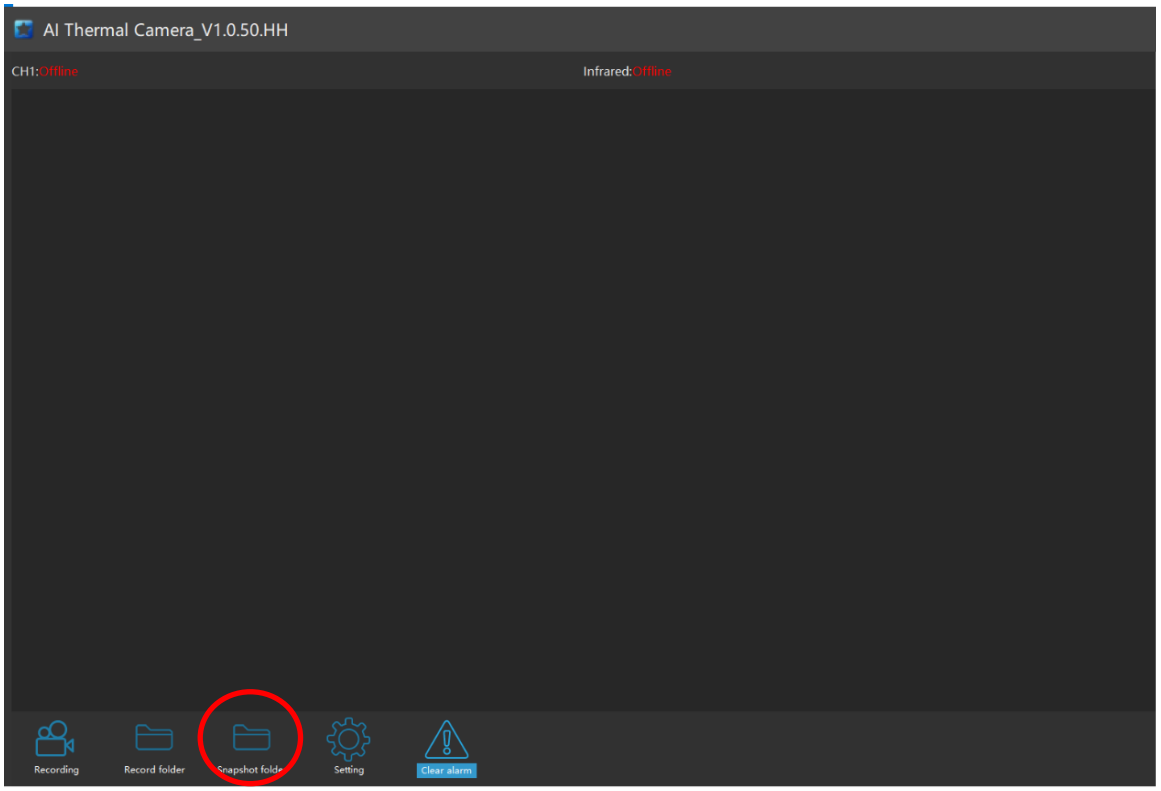
You can modify the following settings:

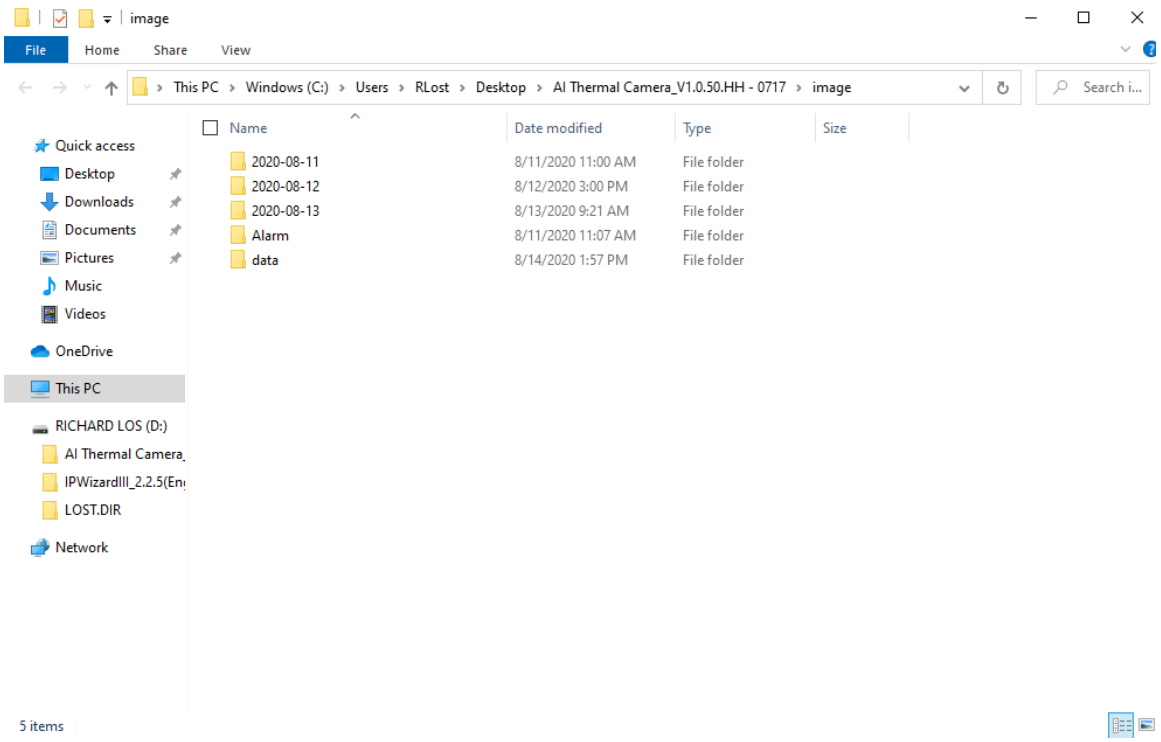
ALARM SWITCH: Toggles the temperature alarm on/off
DURATION: Set temperature alarm duration time. Note: default is 10 seconds
CAPTURE INTERV (MS): Increase or decrease the interval time for repeat face capture
FACE DEDUPLICATION: Toggle (0-1) for capture once or allow repeat snapshot
NORMAL PROMPT: Toggles the count for normal temperatures on/off
DETECTION ZONE/SWITCH: Toggles the detection on/off
FACE SIZE CHECK/SWITCH: Allows adjustment for facial detection area
MASK DETECTION SWITCH: Allows adjustment for detection of masks
IMAGE PATH: Allows adjustment for image capture
PICTURE STORAGE SWITCH: Toggles the storage feature on/off
CORRECTION MODE: For extreme temperature environments. Set the device to automatically increase the compensation temperature to improve the accuracy of temperature measurement or reset time-of-use in case of electrical interruption (unplugged or power failure)
BLACK BODY DETECTION: Allows adjustment to increase or decrease thermal detection sensitivity
CORRECTION:
HIGH LIMIT: Sets the high temperature limit
LOWER TEMPERATURE: Sets the lowest detectable temperature
TEMPERATURE MODE: Toggle setting for Celsius/Fahrenheit
AUTORUN: Click to automatically log and store data
RECORD STORAGE DURATION: Select the time duration
REFRESH: Returns screen default settings

SAVE: Saves settings

Biometric Identification

The camera automatically captures biometric images of Individuals passing through its field of view. The images are stored in the software's Snapshot folder.





Specifications

Aperture	F1.0
API	ONVIF (Profile S, Profile G, Profile T), SDK
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
Camera Resolution	1920x1080P
Day & Night	Mode IR cut filter with auto switch
Field of View (FOV)	Optics: 84° × 45° (H × V)
Focal Length	0.2 " (4 mm)
Image Sensor	1/2.8" 2.0M Pixel CMOS
Input Power	DC 12V, 0.65A
Main Stream	Thermal: 25fps (1920 × 1080, 1280 × 720)
Min. Illumination	Color: 0.005Lux @ (F1.2, AGC ON), B/W: 0.001 Lux @ (F1.2, AGC ON)
Picture in Picture (PIP)	Combines details of thermal and optical image PIP, overlay thermal image on optical image
Pixel Interval	12µm
Protection Level	IP67
Protocols	TCP/IP, ONVIF, GB/T 28181, DHCP, RTP, RTSP, PPPoE, UPnP, UDP
Resolution	256×192
Shutter Speed	1s to 1/100,000s
Size	10x4x3 " (246 mm × 101 mm × 81 mm with bracket)
Sub Stream	Thermal: 25fps (704 × 576, 352 × 288)
Temperature Accuracy	Target temperature 95°F to 100°F Target temperature 68°F to 91°F Target temperature 100°F to 122°F (±33 °F)

Specifications

Temperature Measurement	Supports Celsius and Fahrenheit
Thermal Sensor	VOx Uncooled Focal Plane Arrays
Video Compression	H.264 (Baseline/Main/High Profile) /MJPEG/H.265
WDR	80 dB
Weight	Approx. 2.2 lbs.
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Daylight Lamp/Sodium Lamp
Working Humidity	95% or Less
Working Temperature	From -4°F to 131°F (-20°C to 55°C)

Technical Support

For questions regarding installation and technical support contact us at:
Email: rloster@healthguardtech.com
Phone: (716) 313-2798

Visit our website at: https://healthguardtech.com/