

Thermal Security Camera

Model No. HGTHRMSEC



Quick Start Guide

Version: 1.0



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Thermal Security Camera Introduction

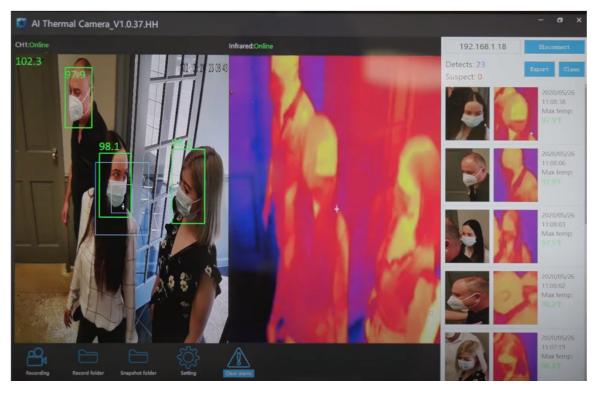
Model No. HGTHRMSEC

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



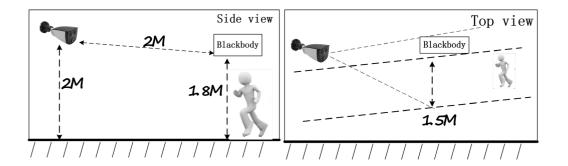


Installation

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).



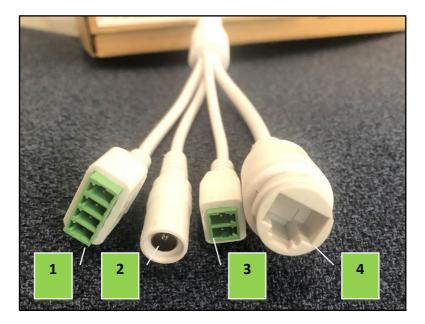
Installation Tips

- 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	Туре
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.

→ ✓ ↑ 💐 > Control Pa	nel > Network and Internet > Network and Sh	aring Center	✓ ♥ Search Control Panel
Control Panel Home	View your basic network informa	ition and set up connections	
Change adapter settings	View your active networks		
Change advanced sharing ettings	Raintree_Guest Public network	Access type: Internet Connections: Wi-Fi (Raintree_Guest)	
Media streaming options			
	Unidentified network Public network	Access type: No network access Connections: <i>«</i> 7 Ethernet 2	
	Change your networking settings		
	Set up a new connection or netw Set up a broadband, dial-up, or V	rork /PN connection; or set up a router or access point.	
	Troubleshoot problems Diagnose and repair network pro	blems, or get troubleshooting information.	
ee also			
nfrared			
nternet Options			

Settings		– 🗆 X
යි Home	Ethernet	
Find a setting $ ho$	Ethernet	Related settings Change adapter options
Network & Internet	및 Unidentified network No Internet	Change advanced sharing options
Status	· wo internet	Network and Sharing Center
🅼 Wi-Fi		Windows Firewall
문 Ethernet		Have a question?
͡⇔ Dial-up		Troubleshooting network connection issues
% VPN		Get help
珍 Airplane mode		Make Windows better
^{(ر} ا ^{ر)} Mobile hotspot		Give us feedback
🕒 Data usage		
Proxy		



Click on Properties.

🥪 Ethernet 2 Statu	IS		\times
General			
Connection			
IPv4 Connectivi	ty:	No network	access
IPv6 Connectivi	ty:	No network	access
Media State:		E	nabled
Duration:		00):09:05
Speed:		100.0	0 Mbps
Details			
Activity			
	Sent —	- Re	ceived
Bytes:	10,304,414	1,241,0	102,703
Properties	Disable	Diagnose	
			Close

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

Ethernet 2 Properties	<						
Networking Sharing							
Connect using:							
🚽 Realtek USB GbE Family Controller							
Configure							
This connection uses the following items:							
 ✓ Client for Microsoft Networks ✓ File and Printer Sharing for Microsoft Networks ✓ QoS Packet Scheduler ✓ Internet Protocol Version 4 (TCP/IPv4) △ Microsoft Network Adapter Multiplexor Protocol ✓ Microsoft LLDP Protocol Driver ✓ Internet Protocol Version 6 (TCP/IPv6) 							
Install Uninstall Properties							
Description Allows your computer to access resources on a Microsoft network.							
OK Cancel							



Select automatic IP assignment.

Internet Protocol Version 4 (TCP/IPv	4) Properties ×
General	
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	
Obtain an IP address automatic	ally
Use the following IP address:	
IP address:	192 . 168 . 1 . 22
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
Obtain DNS server address auto	omatically
• Use the following DNS server ac	Idresses:
Preferred DNS server:	· · ·
Alternate DNS server:	
Validate settings upon exit	Advanced

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

OK

IPWizardIII_2.2.5.rar (evaluation co	py)		- 🗆 ×
File Commands Tools Favorites Opt	ions Help		
] 📋 🔍	🔨 🕄 🔕 🖨 🏮 🏪	
Add Extract To Test View	Delete Find	Wizard Info VirusScan Comment Protect SFX	
19WizardIII_2.2.5.rar\IPWizardII	I_2.2.5(English) - RAF	3.4.x archive, unpacked size 3,558,912 bytes	
Name	Size	Packed Type Modified CRC32	
I .		File folder	
🖻 7z.dll	914,432	358,881 Application extensi 4/28/2016 4:46 C034F035	
Tz.exe	163,840	73,616 Application 4/28/2016 4:46 0D8C6C1C	
bintools.exe	61,952	29,568 Application 4/28/2016 4:46 1AED05CD	
DevOutFunDLL.dll	81,408	34,883 Application extensi 4/28/2016 4:46 D78977EB	
IPCSDK_CGI.dll	60,928	25,212 Application extensi 4/28/2016 4:46 61DF3D27	
IPWizardIII_2.2.5(English).exe	1,899,520	716,013 Application 4/28/2016 4:46 F3E413F6	
MFCHttpDLL.dll	84,480	36,036 Application extensi 4/28/2016 4:46 78496862	
🗟 QV_NET.dll	106,496	37,549 Application extensi 4/28/2016 4:46 152F2A71	
🗟 QV_Search.dll	86,016	29,572 Application extensi 4/28/2016 4:46 5820E298	
🗟 UpdateDLL.dll	99,840	47,803 Application extensi 4/28/2016 4:46 56FF5B4C	

Cancel

Select the camera's IP address.

The default IP address is: 192.168.1.18



Device Browse Device upgrades Device parameters derived										
number	Device type	Product Info	IP address	Subnet mask	gateway	Video port	Http port	RTSP port	MAC Address	Softv
0	IPC	IPA-D1B2A8A	192.168.1.18	255.255.255.0	192, 168, 1, 1	90	80	554	00-2A-2A-52-45-3E	
•	information			m						
MAC Adda Verification Authorizati	n Code:	Get Clear Passwords	Device IP: Gateway: Subnet mask			Equipment por Video port: rtsp port: http port: Modify the po			search	

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

	WizardIII	_2.2.5							-	Х
	Device IPC		IP address 192.168.1.18	Subnet mask 255.255.255.0	gateway 192.168.1.1	Http 80	MAC Add 00-2A-2A			
MA Verif	oment infor C 00-2A catior prizati	-2A-52- Get ar Passwo	Equipment network informa Device 192.168.1.18 Gateway: 192.168.1.1 Subnet 255.255.0 odify netwoi	ati Equipment port informat Video 90 rtsp 554 http 80	ion					
Rest	art		Surf Herror	Carl and b						

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

Healthguard technology Thermal Camera	Software > Al Thermal Camera S	oftware Install	√ Ū
▲ Name ^	Date modified	Туре	Size
🖸 Al Thermal Camera_V1.0.51.H	H.exe 8/15/2020 1:32 AM	Application	30,294 KB
📑 Al Thermal Camera Software Insta	all 8/25/2020 9:49 AM	File folder	
📑 IP Wizard	8/25/2020 9:49 AM	File folder	
THERMAL SECURITY CAMERA MA	ANU 8/17/2020 12:48 PM	Adobe Acrobat D	3,822 KB



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

Login		х
User Name:		
Password:		
	OK	
i	Change password	

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

🔽 AI Thermal Camera_V1.0.37.HH	– 🗆 X
192.168.1.18	Connect
Detects: 1 Suspect: 0	İxport Clean
Recording Record folder Snapshot folder Setting Clear alarm	

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).

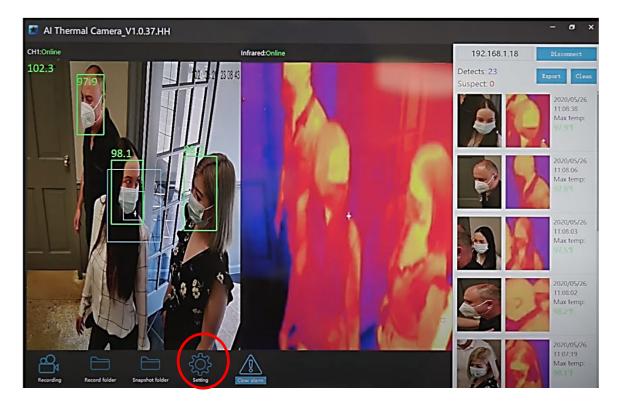
The software automatically stores the number of Detects and Suspect temperatures, as well as the biometric images.





Settings

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





Default Settings

larm switch:	Off	٠		Correction mode:	Auto correction	•	Blackbody correction	
uration(s):	10			Blackbody detection(4~12):	6			
Capture interval (MS):	2000			Correction:	2.0	_	Detail	
ace deduplication:	On	٠		High Limit:	99.1			
Normal prompt:	On	٠		lower temperature:	68.0			
Detection zone switch:	On	×	Detection zone	Temperature mode:	Fahrenheit degree	٠		
ace size check switch:	Off	×	Face size setting	🗹 auto run				
Mask detection switch:	Off	٠		record storage duration:	1 hour	٠		
mage path: _			select		Refresh			
icture storage switch:	On				Save			

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

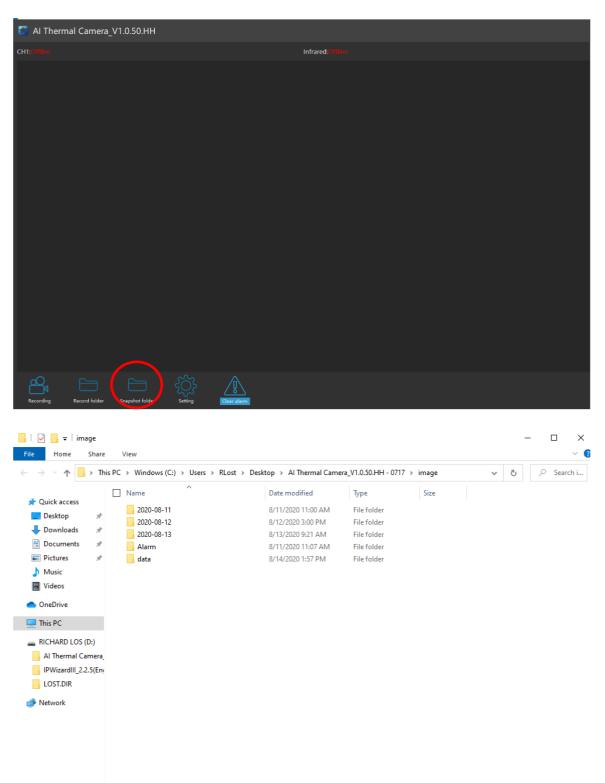
RECORD STORAGE DURATION: Select the time duration

REFRESH: Returns screen default settings



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.



5 items



Specifications

•	
Aperture	F1.0
ΑΡΙ	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: <u>rloster@healthguardtech.com</u> Phone: (716) 313-2798

Visit our website at: <u>https://healthguardtech.com/</u>