*VI*RALERT 3

SAFE | EASY | ACCURATE

FROM TELGUARD AND AMETEK LAND

QUICK INSTALL GUIDE

PUBLICATION No 814290

INTEGRATED HUMAN BODY TEMPERATURE SCREENING SYSTEM

TELGUARD

THE LATEST TECHNOLOGY – AVAILABLE AT LEADING SECURITY INDUSTRY DISTRIBUTORS IN THE U.S. AND CANADA

TELGUARD

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IMPORTANT INFORMATION PLEASE READ

Health and Safety Information

⚠️ **Read all of the instructions in this booklet - including all the WARNINGS and CAUTIONS - *before* using this product. If there is any instruction which you do not understand, DO NOT USE THE PRODUCT.**

Safety Signs

⚠️	**WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or personal injury.

⚠️	**CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury to the user or users, or result in damage to the product or to property.

NOTE
Indicates a potentially hazardous situation which, if not avoided, could result in damage or loss of data.

Signs and Symbols used on equipment and Documentation

⚡ Caution, risk of electric shock.

⚠️ Caution, attention to possibility of risk of damage to the product, process or surroundings. Refer to instruction manual.

🔥 Caution, hot surface.

⏚ Protective Conductor Terminal.

⚠️ Observe precautions for handling electrostatic discharge sensitive devices.

Equipment Operation

Use of this instrument in a manner not specified by Telguard/AMETEK Land may be hazardous. Read **and understand** the user documentation supplied **before** installing and operating the equipment. The safety of any system incorporating this equipment is the responsibility of the assembler.

Protective Clothing, Face and Eye Protection

It is possible that this equipment is to be installed on, or near to, machinery or equipment operating at high temperatures and high pressures. Suitable protective clothing, along with face and eye protection must be worn. Refer to the health and safety guidelines for the machinery/equipment before installing this product. If in doubt, contact Telguard/AMETEK Land.

🧤 Wear Protective Gloves   🥼 Wear Protective Clothing

🥽 Wear Eye Protection   🎧 Wear Ear Protection

🥾 Wear Safety Boots   🛡️ Wear Face Protection

Electrical Power Supply

Before working on the electrical connections, all of the electrical power lines to the equipment must be isolated. All the electrical cables and signal cables must be connected exactly as indicated in these operating instructions. If in doubt, contact Telguard.

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CONTACT US:
Telguard **Support** 800.229.2326
customerservice.telular@ametek.com

Storage

The instrument should be stored in its packaging, in a dry sheltered area.

The maximum storage temperature is 140 °F (60 °C).

The minimum storage temperature is 32 °F (0 °C).

Refer to the Technical Specification for details of the operating temperature limits.

Unpacking

Check all packages for external signs of damage. Check the contents against the packing note.

Lifting Instructions

Where items are too heavy to be lifted manually, use suitably rated lifting equipment. Refer to the Technical Specification for weights. All lifting should be carried out in accordance with local and national regulations.

Return of Damaged Goods

IMPORTANT If any item has been damaged in transit, this should be reported to the carrier and to the supplier immediately. Damage caused in transit is the responsibility of the carrier not the supplier. DO NOT RETURN a damaged instrument to the sender as the carrier will not then consider a claim. Save the packing with the damaged article for inspection by the carrier.

Return of Goods for Repair

If you need to return goods for repair please contact our Customer Service Department for details of the correct returns procedure.

Any item returned to Telguard should be adequately packaged to prevent damage during transit.

You must include a written report of the problem together with your own name and contact information, address, telephone number, email address etc.

Design and Manufacturing Standards

The Quality Management System of Land Instruments International is approved to BS EN ISO 9001 for the design, manufacture and on-site servicing of combustion, environmental monitoring and non-contact temperature measuring instrumentation.

Registered ISO 9001 Management System approvals apply in the USA.

USA Calibration Laboratory: ANAB Accredited ISO/IEC 17025.

UK Calibration Laboratory: UKAS 0034.

National Accreditation Board for Testing and Calibration Laboratories approvals apply in India.

Operation of radio transmitters, telephones or other electrical/electronic devices in close proximity to the equipment while the enclosure doors of the instrument or its peripherals are open, may cause interference and possible failure where the radiated emissions exceed the EMC directive.

The protection provided by this product may be invalidated if alterations or additions are made to the structural, electrical, mechanical, pneumatic, software or firmware components of this system. Such changes may also invalidate the standard terms of warranty.

Copyright

Contents

1   INTRODUCTION

This Quick Install Guide gives you information on how to install and set up the VIRALERT 3 Human Body Temperature Screening System.

1.1   About VIRALERT 3

VIRALERT 3 screens people for elevated temperatures that could indicate fever. The system is intended for use at the entrance to business premises, hospitals, airports, schools, sporting and social gathering venues, etc.

A high-resolution camera, with facial detection software identifies the part of the image containing the subject's face. VIRALERT 3 uses an infrared thermal imager to determine the highest temperature in the subject's face.

WARNING: VIRALERT 3 is a screening tool. It has not been cleared or approved for by the FDA or any other regulatory agency. It should not be relied on solely or primarily to diagnose or exclude a diagnosis of COVID-19 or any other disease.

1.2   What's in the box?

VIRALERT 3 Integrated Human Body Temperature Screening System

Part Number 814289

Pre-mounted on a bracket with tripod connection

Camera to Laptop/PC power and signal cable

With Ethernet and USB connections to the Laptop/PC

Power cable for the Blackbody Reference Source

International power adapters included

1.3 Optional Accessories

Surface-Wall Mount

Part Number 814266

An adjustable mounting bracket that can be screwed to a wall, ceiling or any other flat surface - Connecting hardware included

Clamp-Desk Mount

Part Number 814267

A mounting bracket with a clamp to connect to a desk or a table

Tripod

Part Number 814268

A tripod for installation on a flat surface

* **System requires laptop/PC with Windows 10 and free VIRALERT 3 software to display temperature screens (Laptop/PC not included)**
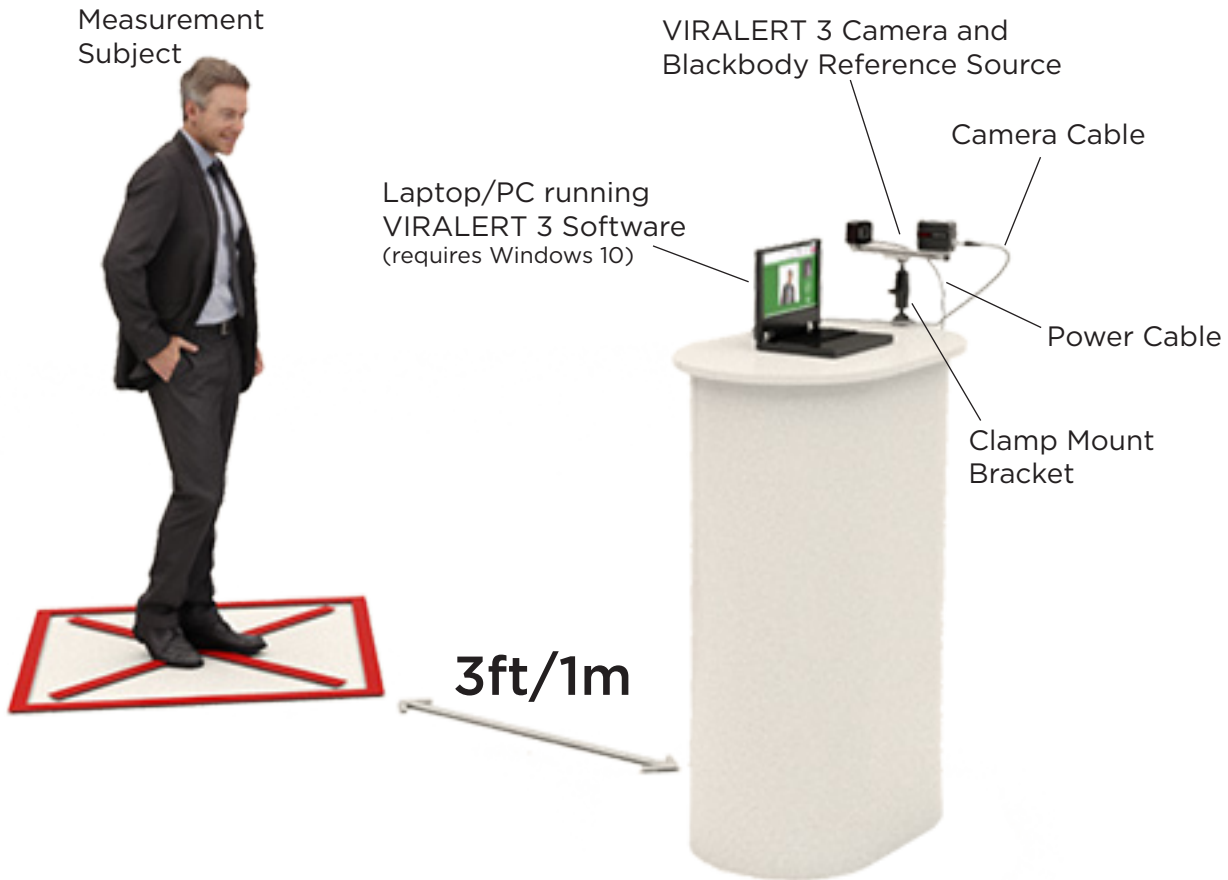
2   SYSTEM OVERVIEW

Measurement
Subject

VIRALERT 3 Camera and
Blackbody Reference Source

Camera Cable

Laptop/PC running
VIRALERT 3 Software
(requires Windows 10)

Power Cable

Clamp Mount
Bracket

3ft/1m

Fig. 2-1 VIRALERT 3 Typical System Overview

3 SYSTEM SETUP

3.1 Measurement Location

1) Choose a location near the entrance of the area you want to protect.

2) There must be space to install the Camera and Blackbody Reference Source so that the Measurement Subject can face the Camera from a distance of 3 ft/1m.

3) Avoid locations where there are possible heat sources e.g. electrical equipment, radiators, etc. in the field of view of the camera.

4) Also avoid locations where the camera may pick up reflections from windows, mirrors, etc.

5) VIRALERT 3 is designed to scan one person at a time. The measurement location should not be a high-traffic area where people other than the subject will be in the field of view.

6) During the temperature measurement process, the Subject will need to stand still in front of the camera for approximately 2 seconds. Make sure there is adequate provision for social distancing in your chosen measurement location.

7) The camera must have a clear, unobstructed view of the Subject's face, ideally with the camera at a height around eye level. If necessary, use one of the mounting accessories available from Telguard (see Section 1.3).

8) The Blackbody Reference Source requires a power supply. You will also need to provide power to the Laptop/PC running the VIRALERT 3 software.

9) Once the system is installed and operating, use cable ties to secure the cables to suitable structures. This minimizes the risk of the cables becoming dislodged and reduces the risk of tripping over the cables.

10) Posters which explain the screening process and provide instructions for your staff and visitors on how to use the system are available for download from:

www.Telguard.com/viralert3

3.2 System Connections

NOTE: If you have purchased a mounting accessory i.e. Surface Mount Bracket, Clamp Mount Bracket, or Tripod from Telguard, then each accessory will come supplied with its own installation instructions.

Camera Connection

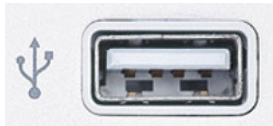Connect the cylindrical connector on the power and signal cable to the Camera.

Laptop/PC Connections

Connect the Laptop/PC to the AC power supply.

Connect the two connectors on the other end of the power and signal cable to the Laptop/PC.

The power (USB) connector on the cable looks like this.

Connect it to a USB socket on the laptop which looks like this.

The Network signal connector on the cable looks like this.

Connect it to a Network socket on the laptop which looks like this.

Blackbody Reference Source Connection

Connect the smaller connector of the source power cable to the USB port on the Blackbody Reference Source.

Use the supplied AC adapter to connect the cable to the AC outlet.

System connections are now complete

4   START THE SOFTWARE

4.1 Network Adapter Settings

The correct Network Adapter Settings must be specified so that your PC can communicate with the VIRALERT 3 Camera.

1)   In the bottom left corner of your PC screen, there is a 'Windows' icon ▦

        Click on the icon so that it turns blue ▦

        The Windows Start menu is displayed.

2)   In this text box, type in **Ethernet Settings**.
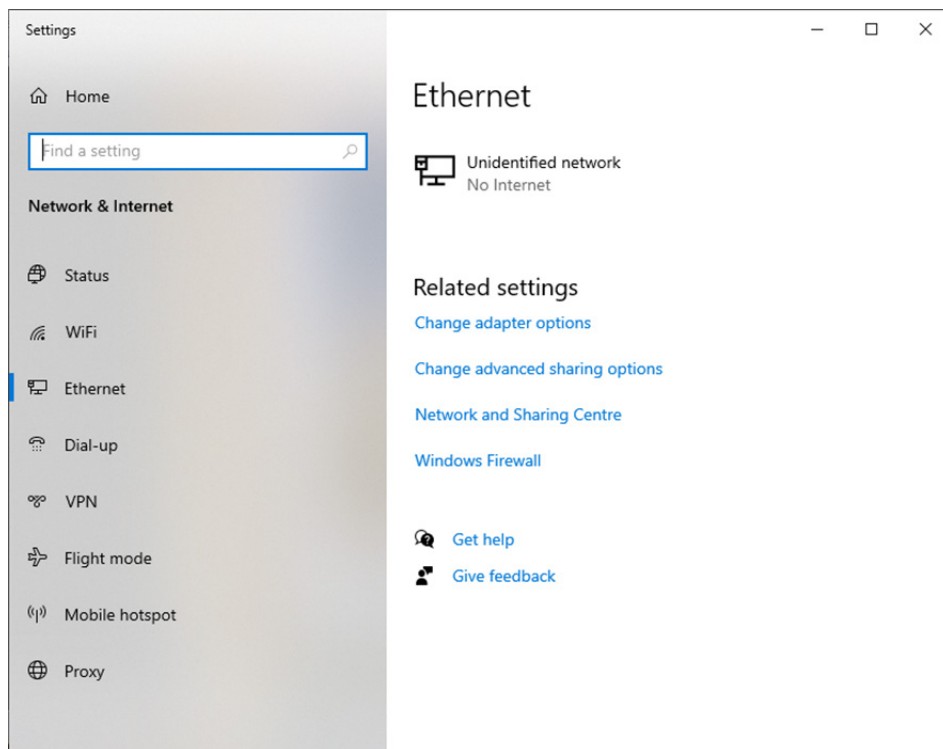
        The **Ethernet Settings** screen will be similar to the screen shown in Fig. 4-1 below.

Fig. 4-1 Typical Ethernet settings screen

3)   Click on the **Change adapter options** link. (See Fig. 4-2)
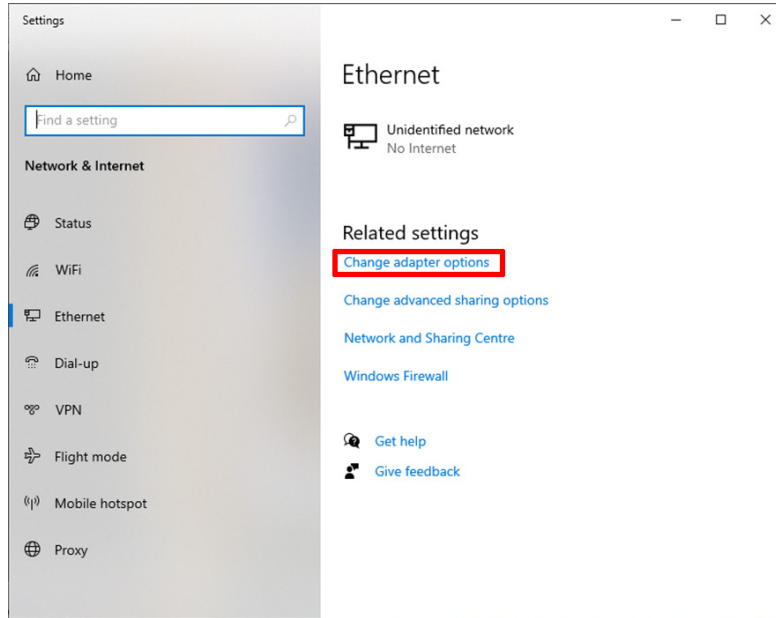

Fig. 4-2 Status screen

The **Network Connections** screen is displayed. See Fig. 4-3 below.

4)   Move your mouse cursor over the icon for your Network (Ethernet in the example below).

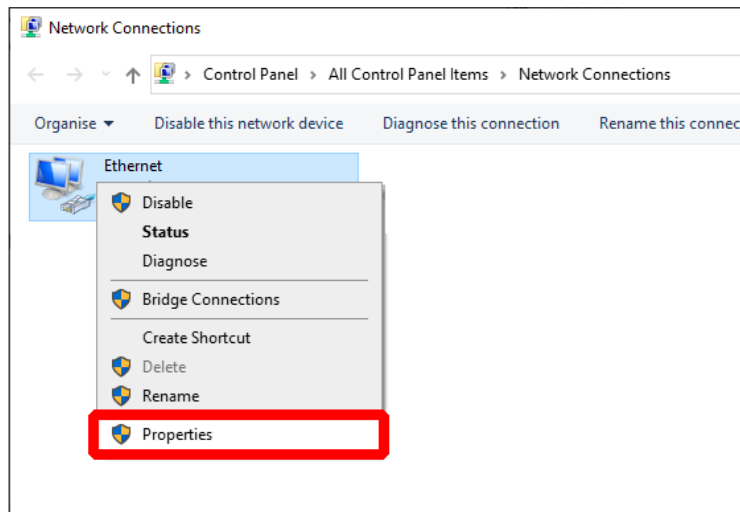5)   Click the right-hand mouse button and select the Properties option.

Fig. 4-3 Network Connections screen

The **Networking Properties** screen is displayed. See Fig. 4-4.

6) Click to highlight the **Internet Protocol Version 4 (TCP/IPv4)** option and click the **Properties** button.
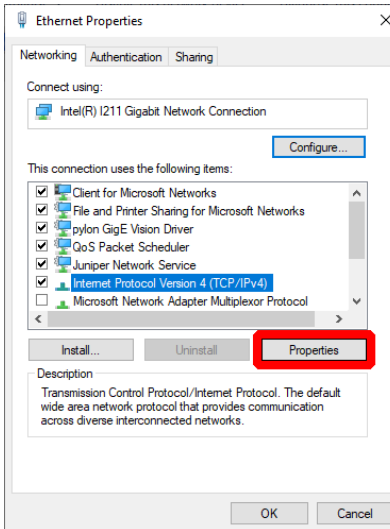

Fig. 4-4 Network status search

The **Internet Protocol Version 4 (TCP/IPv4) Properties** screen is displayed. See Fig. 4-5 below.
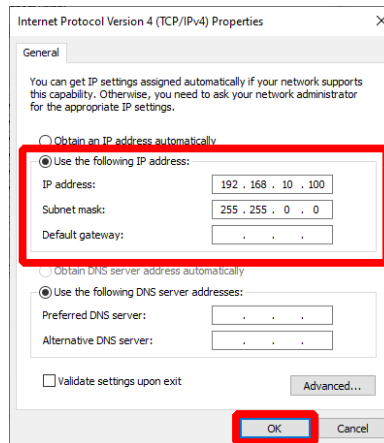

Fig. 4-5 Internet Protocol Version 4 (TCP/IPv4) Properties screen

7) Click the small round button next to **Use the following IP address** to select this option.

8) In the text boxes, enter the following values:
   - IP address: 192.168.10.100
   - Subnet mask: 255.255.0.0

9) Click on **OK** to save these settings.

10) Close the **Networking Properties** and **Network Connections** screens.
    The Network Adapter Settings are now complete.

4.2 Starting the Software

Using your own Laptop/PC, download & install the software from the Telguard website. VIRALERT 3 software is available for download from **www.Telguard.com/viralert3**.

PLEASE NOTE: Your computer may automatically be restarted during the installation process. To avoid losing anything important, save your work and close important applications prior to the installation.

1)   On the Laptop/PC, click on the **VIRALERT 3** icon
       The software will start automatically in Measurement mode.

2)   Wait for the LED on the front panel of the Blackbody Reference Source to turn green.

       WARNING: The warm-up rate of the Blackbody Reference Source is 23 °F/13 °C per minute. Therefore, from an ambient temperature of 77 °F /25 °C it will take approximately 1 minute for the source to reach the factory default value of 100.4 °F / 38 °C. From an ambient temperature of 32 °F / 0 °C, it will take approximately 3 minutes to reach the default temperature value.

3)   Position a subject in front of the camera. The subject must have:
       • No glasses
       • No hat or hood
       • No mask
       • No hair covering the forehead

       Posters which explain the screening process and provide instructions for your staff and visitors on how to use the system are available for download from:
       www.Telguard.com/viralert3

       The software will automatically detect the presence of the subject and calculate their body temperature.

       NOTE: The default setting in the bottom left corner of the screen will be in Celsius. This can be changed to Fahrenheit if desired by following the instructions in the complete User Manual (available at Telguard.com/ viralert3).

4)   Follow the instructions displayed on the software screen.

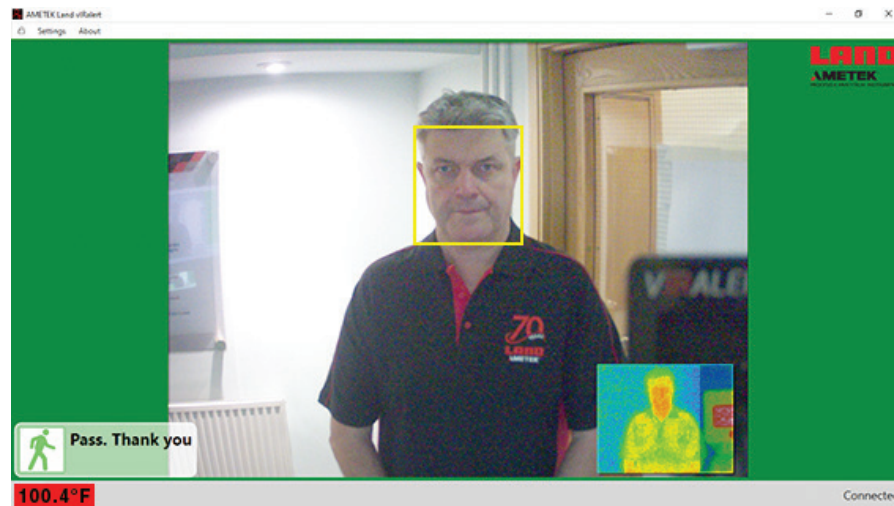Subjects with a normal body temperature are indicated by a green screen, as shown in Fig. 4-6.

Fig. 4-6 VIRALERT 3 Software Normal Body Temperature display

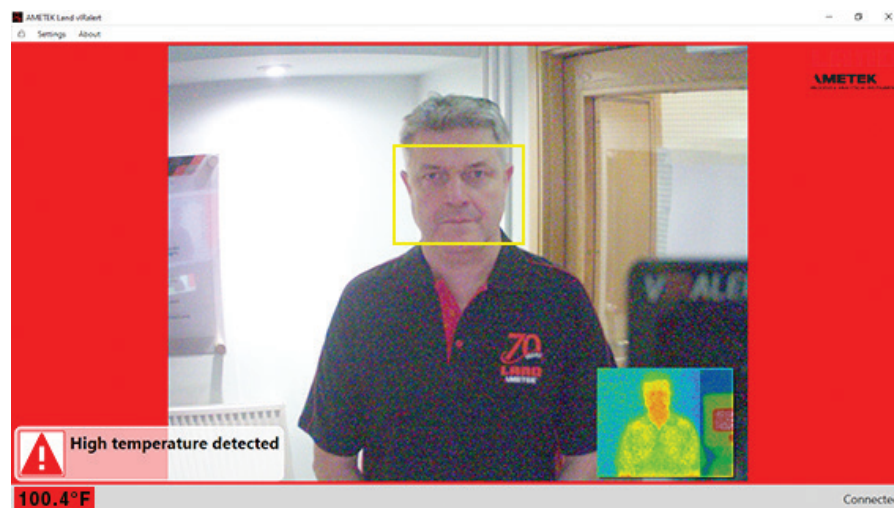Subjects with a high body temperature are indicated by a red screen, as shown in Fig. 4-7.

Fig. 4-7 VIRALERT 3 Software Elevated Body Temperature display

5)   Access to the **Settings** menu, in which you can adjust the temperature alarm value, is password protected. The default (factory-set) password is **0000**.

The threshold for an elevated body temperature alarm is a critical parameter for use of VIRALERT 3. You should consult a medical advisor for assistance in setting the appropriate alarm point. The factory default value is 100.4 °F (38 °C).

For more information on the Settings menu and other features of the software, refer to the Section 5 of the VIRALERT 3 User Guide.

5   SPECIFICATIONS

Operating Temperature	10 to 50 °C / 50 to 122 °F
Measurement Range	30 to 45 °C / 86 to 113 °F
Measurement Uncertainty	±0.5 °C / 0.9 °F
Combined Stability Over Temperature Range & Drift Over 12 Months	±0.2 °C / 0.3 °F
System Weight	3.75 lbs (1.7 kg)
Safety Compliance	IEC 61010-1:201
Electromagnetic Compatibility	Meets all relevant North American and European standards

6   CALIBRATION

Calibration should be checked every 12 months by an appropriately trained person. This ensures that the instrument operates with accuracy and reliability. Contact Telguard Customer Service for more information - you may be referred to a local AMETEK LAND service center so they can help you.

DISCLAIMER

Human skin temperature is affected by a wide number of environmental and physiological factors. Elevated facial skin temperature may signify a raised body core temperature; correspondingly, an elevated core temperature may not be accompanied by a raised facial skin temperature. VIRALERT systems are accurate scientific systems that must be operated strictly in accordance with the manufacturer's operating manual. VIRALERT systems are not intended, nor designed, to diagnose or detect medical conditions including, but not limited to, viruses or other illnesses. Telguard/AMETEK Land thermal imaging products should only be used to detect variations of surface temperature. If elevated skin temperature is detected, the finding should be confirmed by other means, for example, an approved medical thermometer. The absence of an elevated skin temperature does not exclude a fever.

Images shown in this document are for illustrative purposes only.

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