# VIRALERT 3

## SAFE | EASY | ACCURATE

**FROM TELGUARD AND AMETEK LAND**

## USER GUIDE

# INTEGRATED HUMAN BODY TEMPERATURE SCREENING SYSTEM

**TELGUARD**

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

**TELGUARD**

**LAND** | **AMETEK®**

# 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**<br>Indicates a potentially hazardous situation which, if not avoided, could result in death or personal injury. |
|---|---|

| ⚠️ | **CAUTION**<br>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 installer.

## 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/AMETEK Land.

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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.

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# Table of Contents

# 1   INTRODUCTION

**This User Guide gives you information on how to install and set up the VIRALERT 3 Integrated 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.

**VIRALERT 3 is a screening tool. It has not been cleared or approved 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

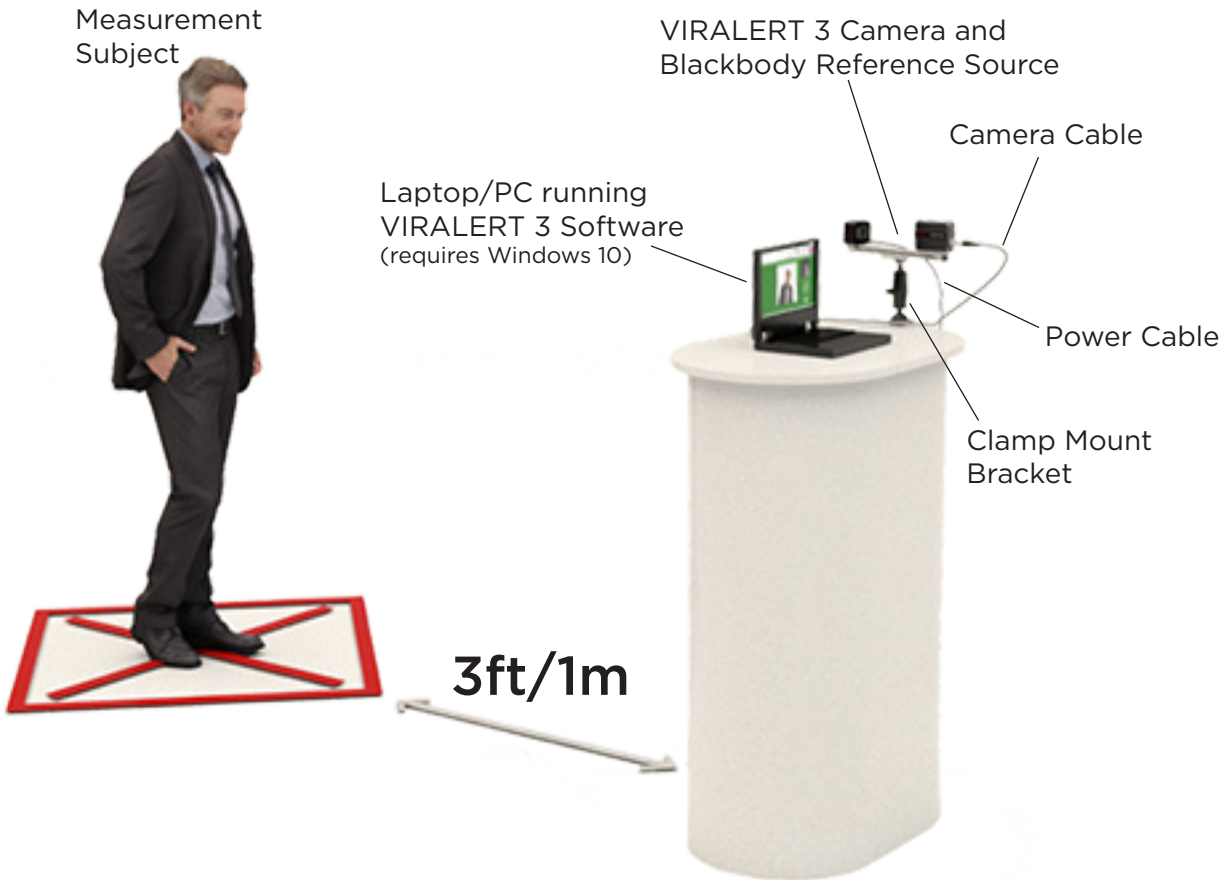A tripod for installation on a flat surface

# 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**.

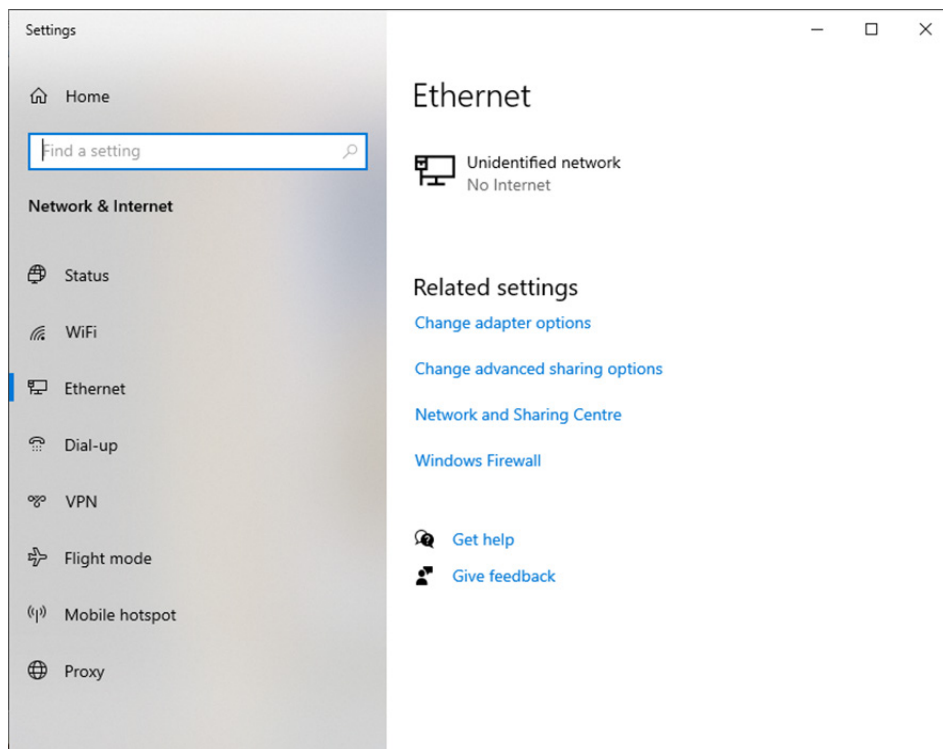The **Ethernet Settings** screen will be similar to the screen shown in Fig. 4-1 below.



Fig. 4-1 Typical Ethernet settings screen

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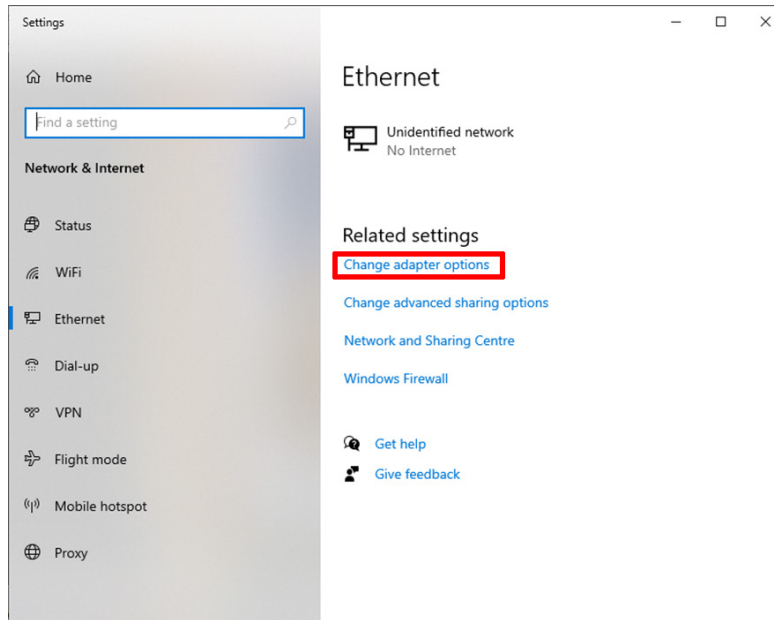


Fig. 4-2  Status screen

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).

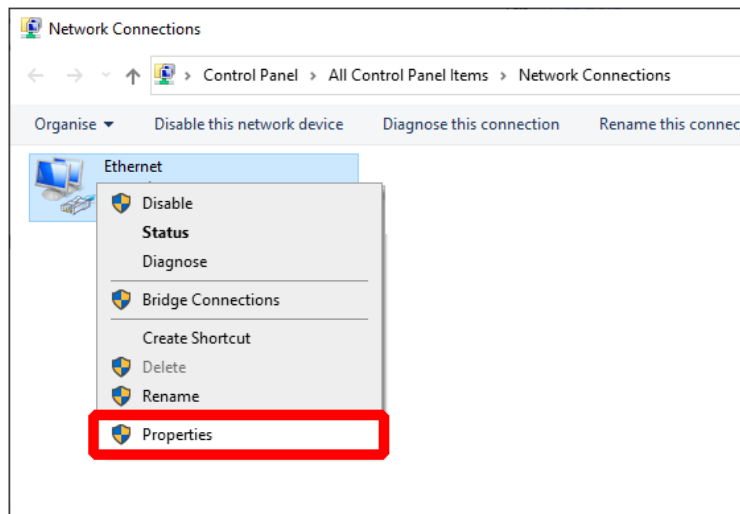5)    Right-click with the mouse, and select the **Properties** option.



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.
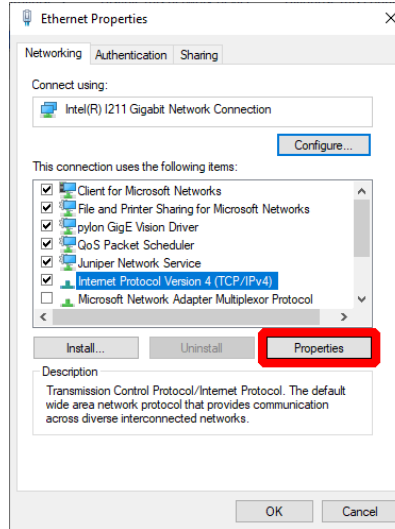


Fig. 4-4 Network status search

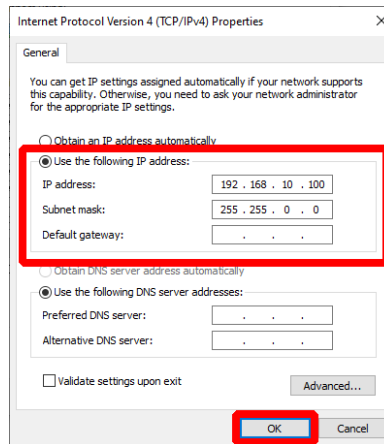The **Internet Protocol Version 4 (TCP/IPv4) Properties** screen is displayed. See Fig. 4-5 below.



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

7) Click the small round (radio) 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**.

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

The minimum specifications for a computer running VIRALERT 3 are:

- i3 processor or equivalent
- 4 GB RAM
- 1 x RJ45 port and 1 x USB-A port
- 64 GB Hard disk
- Windows 10*

  *\* If your Laptop/PC is running Windows 10 in S mode, then VIRALERT 3 will not run on this machine. S mode runs only applications from the Microsoft Store, and requires Microsoft Edge for Internet browsing. To run VIRALERT 3 on your machine, it should be switched to standard Windows 10 mode. Simple instructions for this are available from support.microsoft.com*

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 Section 5.2.1 on Page 13-14.

   During the measurement process, the screen background will turn yellow.

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.
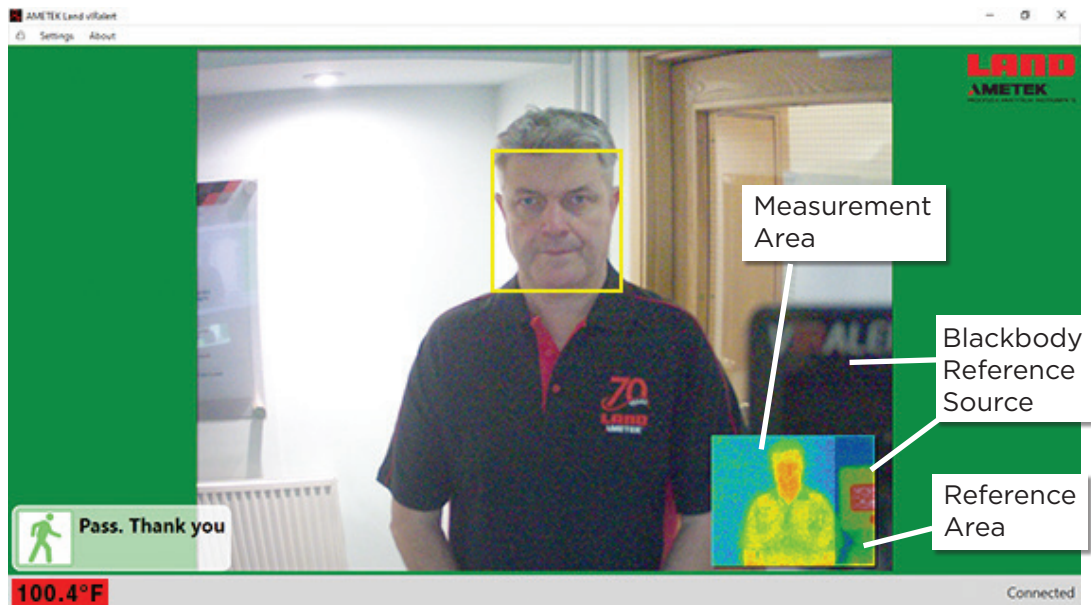


Fig. 4-6 VIRALERT 3 Software Normal Body Temperature display

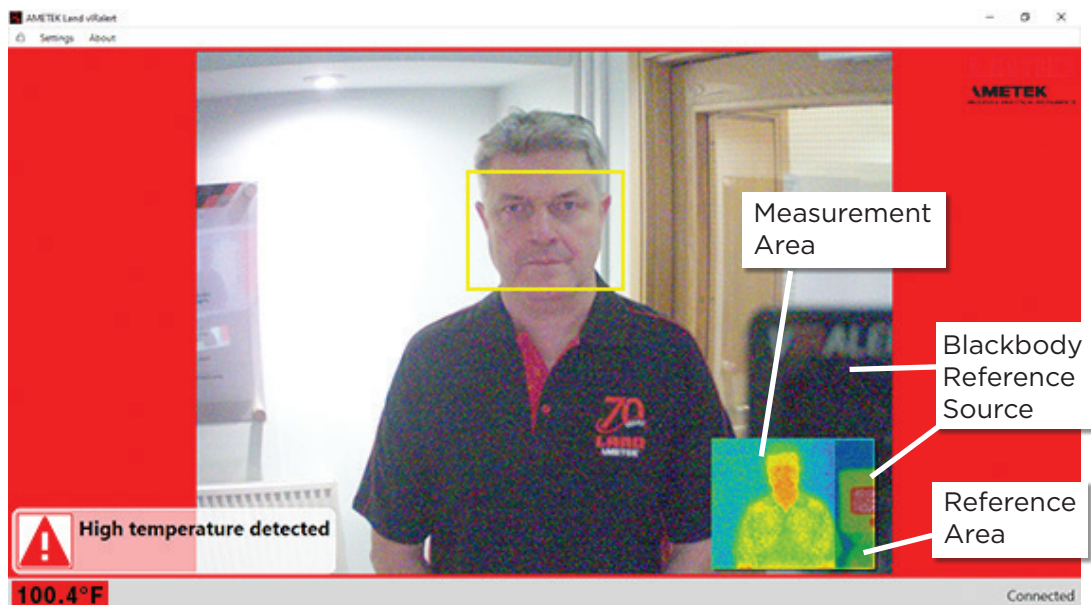Subjects with a high body temperature are indicated by a red screen, as shown in Fig. 4-7.



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

**CAUTION (REFER TO FIG 4-6 AND FIG 4-7):** The VIRALERT 3 system is supplied with the Blackbody Reference Source installed so that it is visible in the right hand portion of the images from the camera and thermal imager.

In the thermal image, the Blackbody Reference Source must be visible within the gray Reference Area band on the right. It must not encroach into the Measurement Area.

If your Blackbody Reference Source moves out of position, you will need to adjust its mounting so that it is aligned correctly.

5)   Access to the **Settings** menu, in which you can adjust the temperature alarm value and units of measurement, is password protected.

The default (factory-set) password is **0000**.

**WARNING:** 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 determining 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 this User Guide.

# 5   SOFTWARE SETTINGS

> **NOTE:**  Before changing any settings in your VIRALERT 3 system, make sure that you read **and understand** the information given in this section of the User Guide.

## 5.1  Accessing the Settings menu

1)      To access the **Settings**, first unlock the settings menu by clicking on the padlock and entering your password.

   The default (factory-set) password is **0000**. Once unlocked, the system will remain unlocked for 5 minutes or until you press the padlock button again.

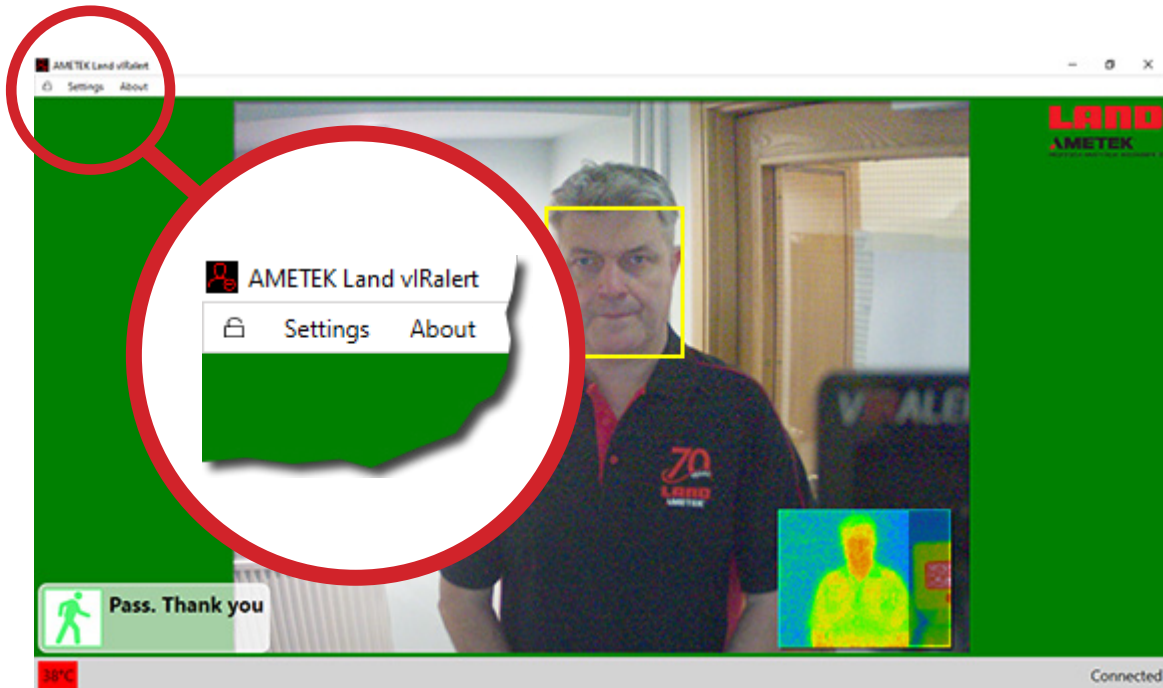2)      Click on the link in the top left corner of the screen. See Fig. 5-1.



Fig. 5-1 VIRALERT 3 Settings Menu location

   If the menu is not visible, this is due to the software being in **Full Screen** Mode.

2)      To exit Full Screen mode, click on this button in the top right hand corner of the screen.

   The **Settings** menu option will now be displayed.

   The menus will remain unlocked for 5 minutes or until you press the padlock button again.

   You can change the password via an option in the **Settings** menu (See Section 5.5).

   The options available in the Settings menu are described in the following pages.
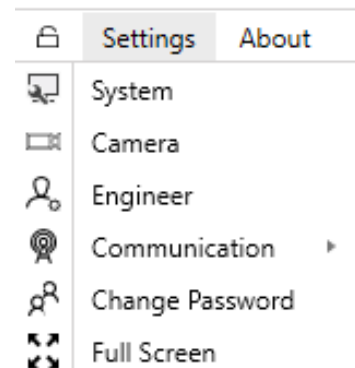
## 5.2 System Settings

To access the **System Settings** screen, select the **System** option from the **Settings** menu.

The System Settings screen contains four 'Tabs'. These are:
- General
- Alarm
- Workflow
- Logging

### 5.2.1 General (System Settings)
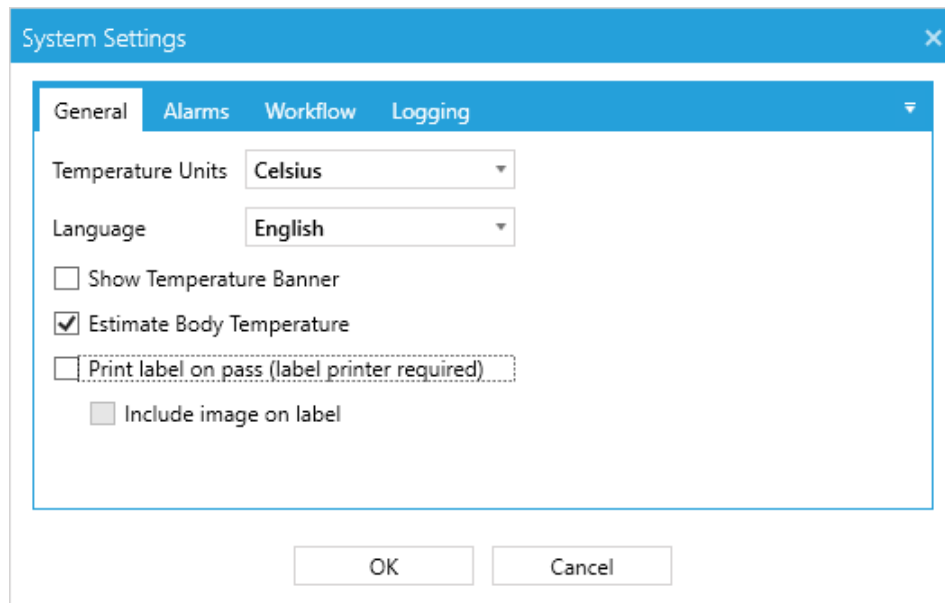
The **General** tab is shown in Fig. 5-2.



Fig. 5-2  System Settings - General options

The options available in the General tab are explained in the table below. The default (factory-set) vales are shown in **bold text**.

| Option | Description |
|---|---|
| Temperature Units | Select the required temperature units from either:<br>• **Celsius**<br>• Fahrenheit |
| Language | VIRALERT 3 screens can be displayed in the following languages. Select from:<br>• **English**<br>• French<br>• German<br>• Italian<br>• Spanish<br>• Chinese (simplified)<br>• Japanese<br>• Korean<br>• Portuguese<br>• Russian |
| Show Temperature Banner | Use this checkbox to choose whether or not the measured temperature is displayed at the top of the VIRALERT 3 software screen.<br>The default is **OFF**. |
| Estimate Body Temperature | Use this checkbox to choose whether or not the system estimates a person's body temperature based upon the measured skin temperature.<br>The default is **ON**. |
| Print label on pass<br>(label printer required) | To use this option, you will need a **Brother QL-700** Label Printer. See **Label Printing** (below).<br><br>This option allows you to print a label for each person who is screened by VIRALERT 3 and whose temperature is below the alarm level. The label can be attached to the person as an aid to confirming that he or she has been screened by the VIRALERT 3. The label shows the date and time of the measurement. |
| Include image on label | In addition to the date and time, you can select this option to add the visual image taken at the time of measurement to each person's label. |

Click **OK** to close this window and save any changes. Click **Cancel** to close it without saving your changes.

## 5.2.1.1 Label Printing

Supported Label Printer: **Brother QL-700**

VIRALERT 3, when used in conjunction with a **Brother QL-700** Label Printer, allows you to print a label for each person who is screened by VIRALERT 3 and whose temperature is below the alarm level.

1)   To set up the printer, follow the Quick Start Guide supplied with the Brother QL-700 label printer.

2)   Download and install the required printer driver from the Brother web site.

Once installed, the printer will by default turn itself off after 60 minutes of inactivity.  To change this:

3)  Type **Printers and Scanners** into the Windows search bar and open the **Printers and Scanners** settings window.

4)  Select the Brother QL-700 and click on the **Manage** button.

5)  Click on the **Printer Properties** link.

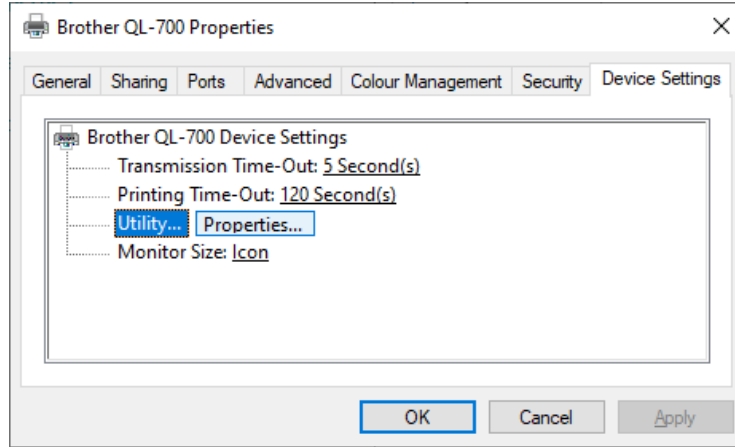The **Brother QL-700 Properties** window is displayed, as shown in Fig. 5-3.



Fig. 5-3 Typical Brother QL-700 Properties window

6)  Go to the **Device Settings** tab, select **Utility...** and then click on the **Properties** button.

The **Brother QL-700 Utility** window is displayed, as shown in Fig. 5-4.
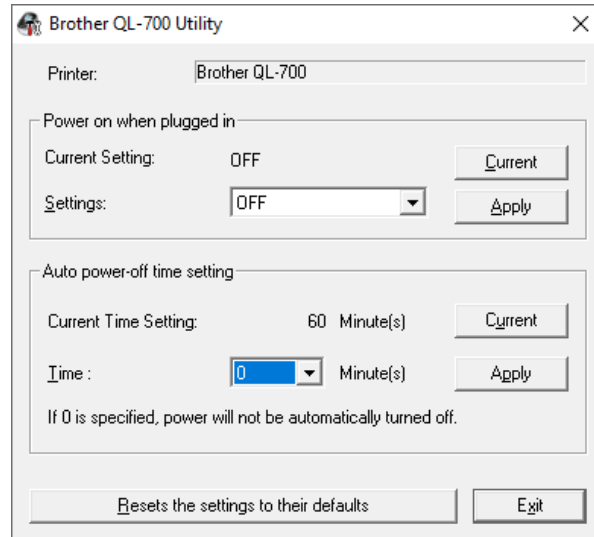


Fig. 5-4 Typical Brother QL-700 Utility window

7)  In the **Auto power-off time setting** area change the **Time** field to **0** and click **Apply**.

8)  Exit all the printer properties screens.

Your label printer is now configured to work with VIRALERT 3. You may need to restart VIRALERT 3 for these settings to take effect.

## 5.2.2 Alarms

The **Alarms** tab is shown in Fig. 5-5.



Fig. 5-5  System Settings - Alarms

> **WARNING: 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 determining the appropriate alarm point. The factory default value is 100.4 °F (38 °C).**

The options available in the Alarms tab are explained in the table below.

| Option | Description |
| --- | --- |
| Alarm Temperature | Use this text input to enter the temperature at which you want the system to indicate an alarm.<br>The default value is **100.4 °F** or **38 °C**. |
| Temperature Trend | This section of the screen displays a graphical representation of ten most recent temperature readings, plotted against the time of the reading. You can use this graph to help you select an Alarm Temperature just above the average for your particular application. |

### 5.2.3  Workflow

The **Workflow** tab allows you to customize the messages that are displayed during the temperature monitoring process.

The **Workflow** tab is shown in Fig. 5-6.  The standard messages are displayed above each text input box.

There are four stages in the workflow of the VIRALERT 3 system:

- **System Idle** - This is when there is nobody in the field of view of the camera.
- **Processing** - This is when a person's face has been detected and their temperature is being measured.
- **Pass** - This is when a person's temperature has been measured and is below the alarm level set in your system.
- **Alarm** - This is when a person's temperature has been measured and is above the alarm level set in your system.

You can add text to the message that is displayed for each of the four stages in the process. For instance, you could add emergency contact instructions to the **Alarm** message.

Click **OK** to close this window and save any changes. Click **Cancel** to close it without saving your changes.
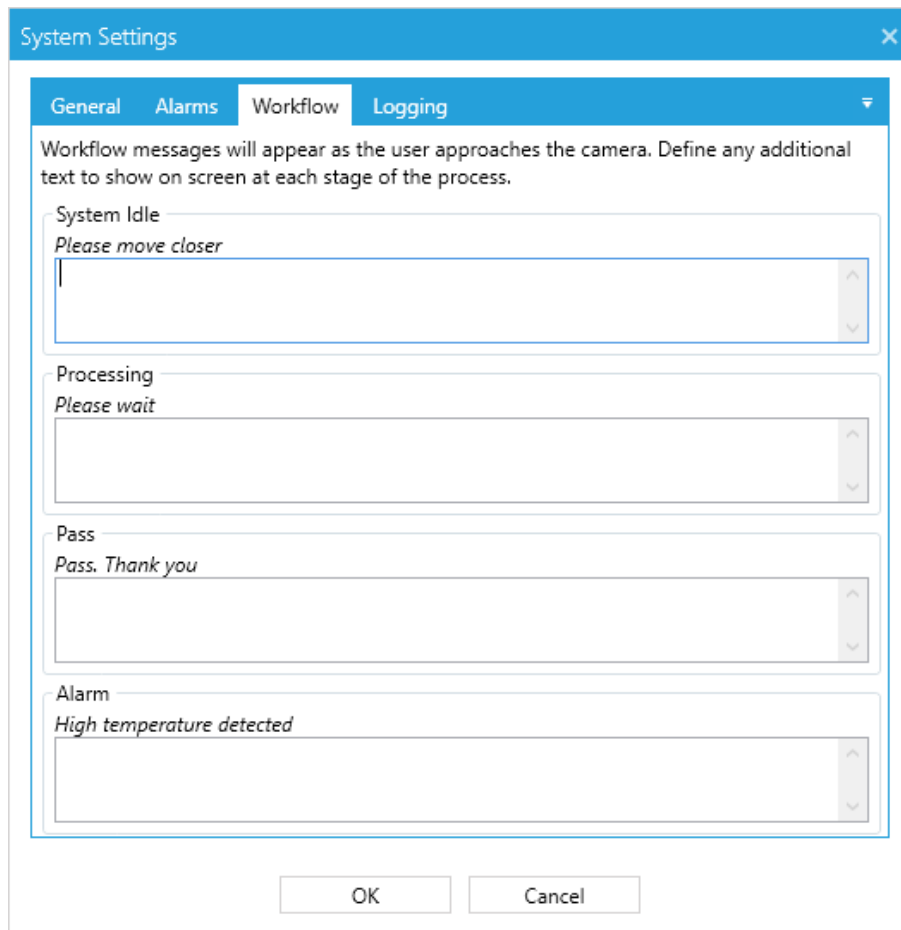


Fig. 5-6  System Settings - Workflow options

## 5.2.4  Logging

The **Logging** tab allows you to select whether or not images and data (such as temperature readings) are saved from the VIRALERT 3 system to your computer/network.

The logging tab is shown in Fig. 5-7.

Logging images is useful for identifying which person triggered an alarm, and logging data is useful for recording temperature value trends.
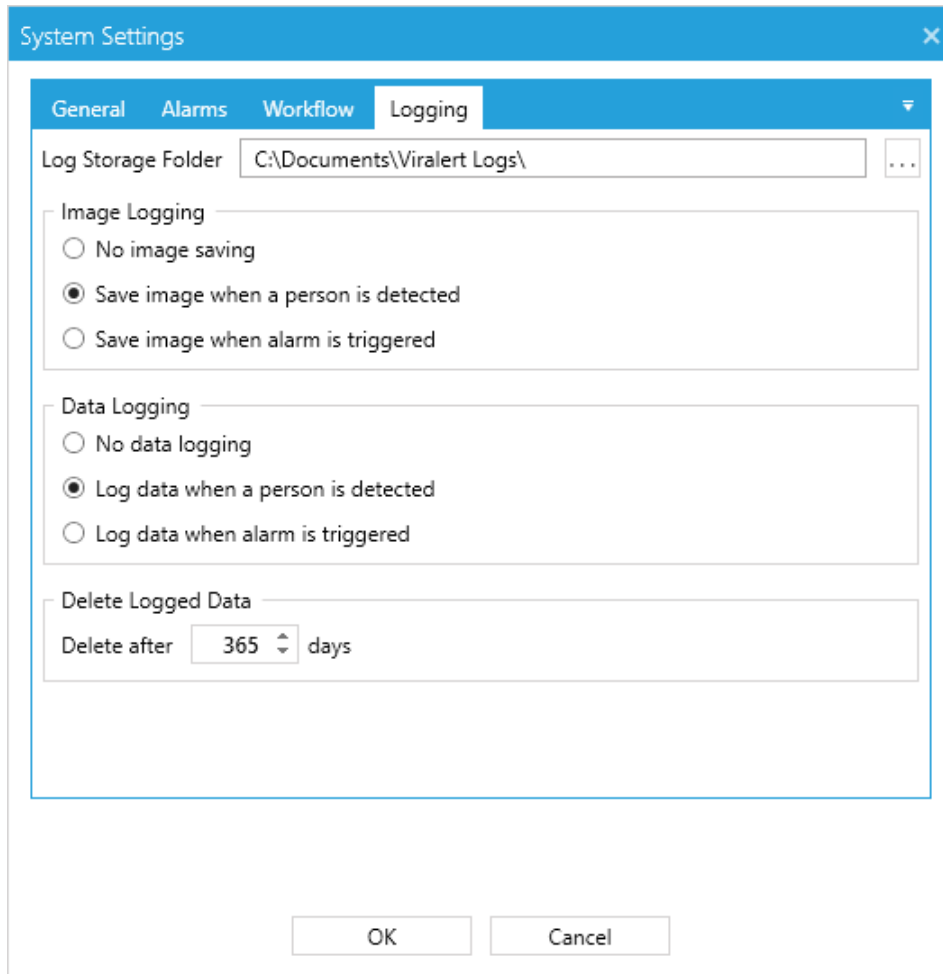
Fig. 5-7  System Settings - Logging options

The options available in the Logging tab are explained in the table below.

| Option | Description |
|---|---|
| Log Storage Folder | This is the folder on your computer/network where the logged images and data will be stored. A default folder is set up automatically during the installation process, but you can change this if desired. |

| Option | Description |
|---|---|
| Image Logging | • **No image saving**<br>No images are saved by the system.<br><br>• **Save image when a person is detected**<br>This option saves an image each time a person is detected in front of the camera, irrespective of their temperature reading. This option will take up the most storage space on your computer system.<br><br>• **Save image when alarm is triggered**<br>This option saves an image each time a person with a temperature reading above the alarm value is detected in front of the camera. |
| Data Logging | • **No data logging**<br>No data is saved by the system.<br><br>• **Log data when a person is detected**<br>This option logs data each time a person is detected in front of the camera, irrespective of their temperature reading. This option will take up the most storage space on your computer system.<br><br>• **Log data when alarm is triggered**<br>This option logs data each time a person with a temperature reading above the alarm value is detected in front of the camera. |
| Delete Logged Data | This option specifies the number of days after which logged images and data will be deleted from the Log Storage Folder.<br>You can adjust the number of days to **Delete after** to allow for the number of people the system is likely to measure and the space available on your computer. |

## 5.3  Camera Settings

To access the **Camera Settings** screen, select the **Camera** option from the **Settings** menu.

The Camera Settings screen contains two 'Tabs'. These are:
- General
- IP Address

### 5.3.1  **General** (Camera Settings)

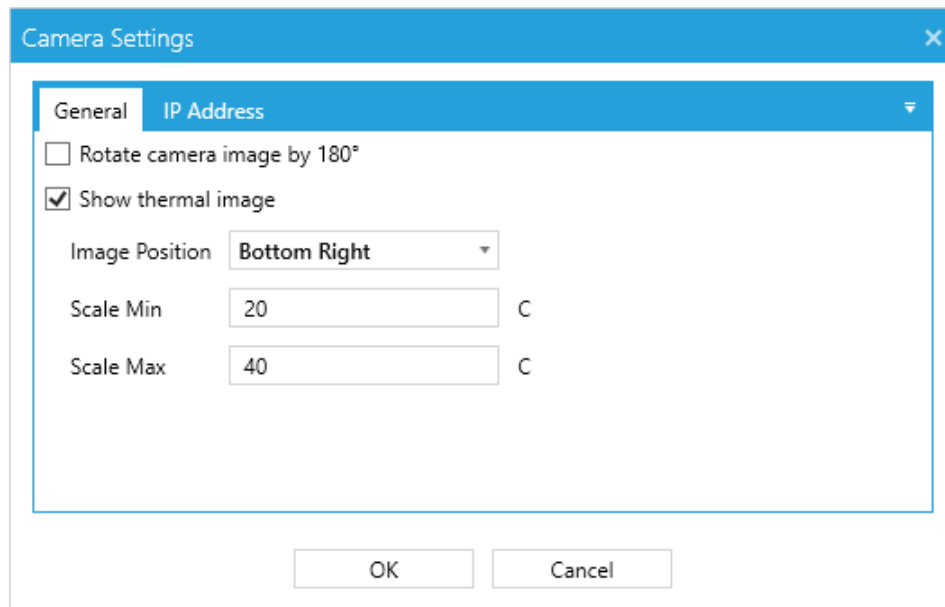The **General** tab is shown in Fig. 5-8.



Fig. 5-8  Camera Settings - General options

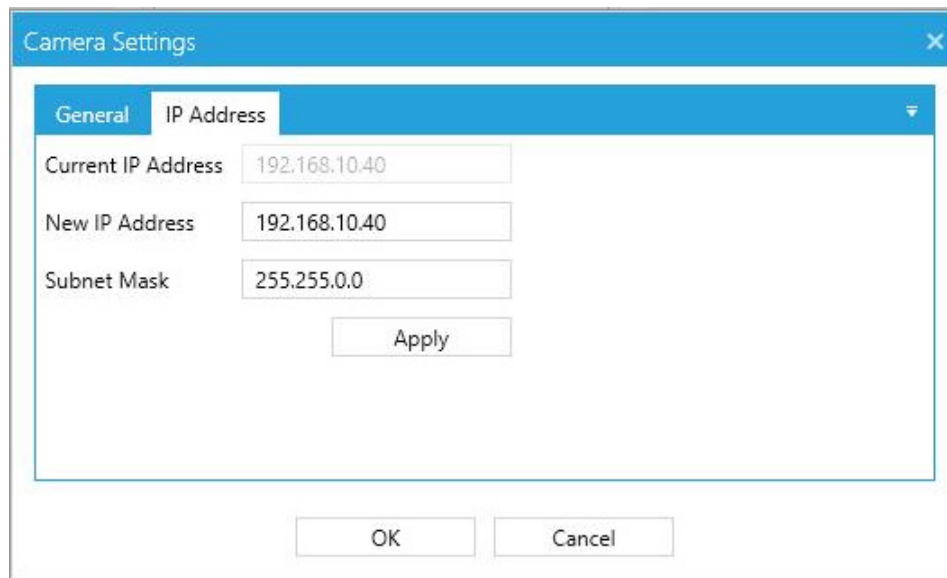The options available in the Camera Settings tab are explained in the table below.

| Option | Description |
|---|---|
| Rotate camera image by 180° | Select this option if the image appears upside down in the camera. |
| Show thermal image | Select this option if you want to display a small thermal image of the person being measured inset into the visual camera image.<br>Areas in the thermal image above the alarm temperature will be shown in red. |
| Image position | Use this drop-down list to select the area of the visual camera image in which you want the thermal image to appear. |
| Scale Min and Scale Max | These values define the upper and lower limits of the temperature range being measured by the system.<br>As the VIRALERT 3 is designed to measure human body temperature, the factory-set scale of 20 to 40 °C / 68 to 104 °F should be adequate for your system. |

## 5.3.2  IP Address

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**NOTE:** In the majority of systems, it should not be necessary to change the IP Address of the camera.

You should only change the IP Address if you have knowledge of how IP Addresses work and your system installation requires the IP Address to be in a certain format.

---

The **IP Address** tab is shown in Fig. 5-9.



Fig. 5-9  Camera Settings - IP Address

If you need to change the IP Address and/or Subnet Mask, enter the required details in the appropriate fields and press **OK** to confirm the changes.

## 5.4 Communication

> **NOTE: You should only access the Communications menu if you are familiar with the process of setting up IO Modules and/or creating Data Pairs via Modbus.**

The Communication menu contains two options:

- **Modules** - this screen allows you to configure IO Modules to work with your VIRALERT 3 system.
- **Pairs** - this screen provides an interface for creating Modbus data pairs.

### 5.4.1 Modules

The I/O modules supported by VIRALERT are listed below:

- MOXA ioLogik E1214 - 6 relay outputs
- MOXA ioLogik E1241 - 4 analog outputs (0 to 10 V or 4 to 20 mA via software configuration)
- EL4014 - 4 analog outputs (0 to 20 mA or 4 to 20 mA via software configuration)
- EL2624 - 4 relay outputs

A total of 16 modules, comprising any combination of the above modules can be added. For more information on the MOXA ioLogik modules, refer to the user documentation supplied with each MOXA unit.

### 5.4.2 Adding I/O Modules

1) From the **Settings** menu, select **Communication** then **Modules**.

Any modules detected on your system will be displayed on the left-hand column of the **IO Modules** screen, as shown in Fig. 5-10.
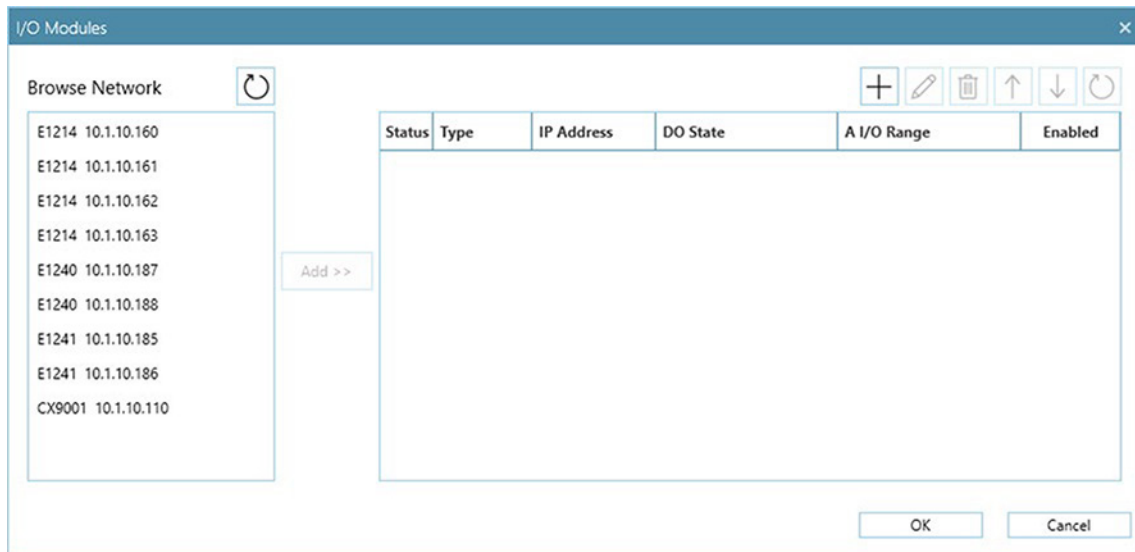


Fig. 5-10  Typical IO Modules screen

2)      To add an individual module, click on the required module in the list then click the **Add** button to add it.

3)      You can change the order of the modules in the list, for example, to reflect the order in which your modules are fitted on a DIN rail. Click on a module and use the Move Up or Move Down buttons to arrange the modules in the required order.

4)      The **Remove** button allows you to select a module and delete it from the list. Multiple modules can be selected for removal.

5)      If a module you require is not listed, you can use the **Add New...** button to enter the details of the required module.

6)      When you have listed all the required modules, click on **OK**.

The **IO Modules** screen now displays a list of the modules connected.

## 5.4.3  **Pairs** (IO Module Data Pairing)

When you have configured your Modules, you can then assign a data source in VIRALERT 3 to the output of a module. This is called 'configuring pairs.'

1)      From the **Settings** menu, select **Communication** then **Pairs**.

The **Data Pairs** screen displays a list of Available Data Sources and a list of Available Outputs, as shown in Fig. 5-11.
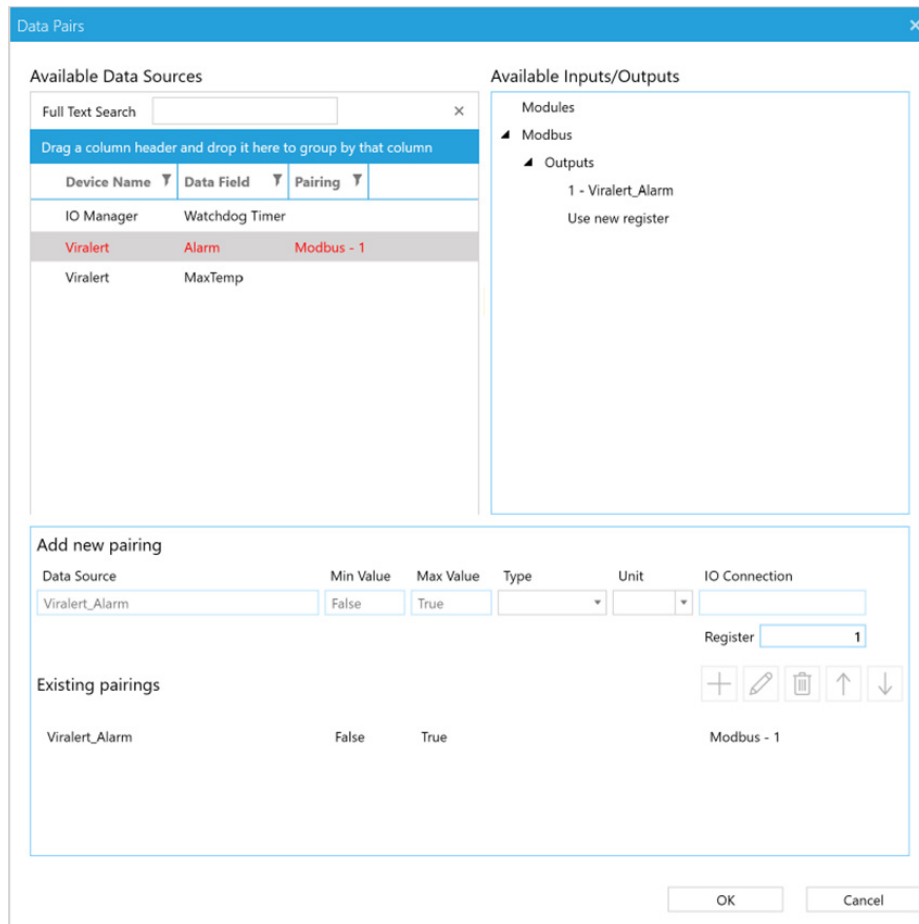
Fig. 5-11  Typical Data Pairs screen

The following outputs are available from VIRALERT 3:

- The Watchdog Timer is a signal which is transmitted at a user-defined interval to check that the system is functioning correctly. The loss of the Watchdog Timer could indicate a problem with the system.
- The Alarm signal is active whenever the alarm temperature threshold is triggered within VIRALERT 3.
- The MaxTemp signal sends the maximum temperature value registered within the detection area. This is the same temperature as that which can be displayed at the top of the screen in VIRALERT 3.

To configure a data pair:

1) Select the required output from the Available Data Sources table (for example "Alarm").
2) The list of Available Inputs/Outputs is expanded to show the corresponding available Digital Outputs that can be paired to the highlighted data source.
3) Click on the required output to highlight it e.g. E1214-1 DO 0.
   The details of the **New Pairing** will be displayed.
4) Check that this pairing is correct, then press the **Add Pair** button.
   The new pairing is added to the Existing Pairings list.
5) When you have configured the pairings, click **OK**.

## 5.5  Changing the Password

Each time you access the **Settings** menu, you will be asked for the Password. Enter the default password, which is **0000** (i.e. four zeros).

You can change the Password via an option in the **Settings** menu.

1) From the **Settings** menu, select **Change Password**.
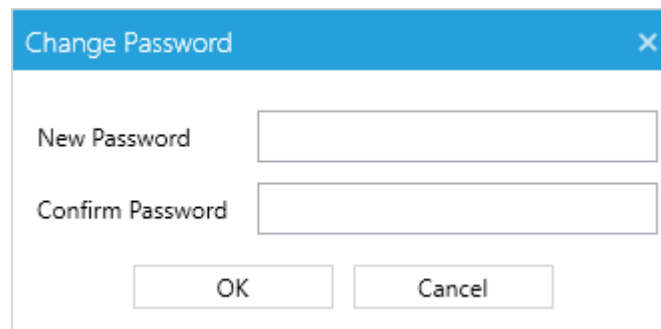   The **Change Password** screen is displayed, as shown in Fig. 5-12.



Fig. 5-12  Change Password screen

2) Enter the **New Password** and repeat it exactly the same in the **Confirm Password** text box.
3) Click **OK** to save the new password, or click **Cancel** to close it without saving your changes.

# 6   SPECIFICATIONS

## 6.1  System Specifications

| Item | Description |
|---|---|
| Contents | • VIRALERT 3 Combined thermal and visual imaging camera with 4 m connection cable.<br>• VIRALERT 3 Blackbody temperature reference source with power adaptor and 3 m connection cable.<br>• Preinstalled single point mounting bracket.<br>• Certificate of conformity.<br>• Quick Start Guide.<br>• Software available for free download from:<br>**www.Telguard.com/viralert3** |
| Temperature accuracy | ± 0.9 °F / 0.5 °C (at a distance of 39 inches / 1m) |
| Mounting | Integrated single point system mounting |
| System weight | 1.65 lb / 0.75 kg (without cables) |
| System dimensions (inches) | System 14 x 4.4 x 3.6<br>(BBS: 2.6 x 2.4 x 1.4; Camera 4 x 3.2 x 1.8) |
| System dimensions (mm) | System 350 x 110 x 90<br>(BBS: 65 x 60 x 35; Camera 100 x 80 x 45) |
| **Imager** | |
| Interface | Wired Ethernet - Local PC |
| Power supply requirement interfaces | 5 VDC (USB) - Local PC |
| Operating Temperature range | 50 to 122 °F / 10 to 50 °C |
| **Imager Thermal** | |
| Measurement range | 86 to 113 °F / 30 to 45 °C |
| Detector array format | 80 x 64 pixels |
| Detector | 8 to 14 µm, Uncooled Thermopile Array |
| Frame rate | <9 Hz |
| Temperature resolution | 0.2 °F / 0.1 °C |
| Field of view | 39 x 31° |
| Focus | Fixed focus, minimum 12 inches / 300 mm |
| **Imager Visual** | |
| Image resolution | 1.2 MP (1280 x 960) |
| Sensor type | CMOS |
| Frame rate | 12 fps |
| Image type | Color |

| Item | Description |
|---|---|
| **Blackbody Temperature Reference Source** | |
| Temperature | 100.4 °F / 38 °C |
| Target size | 1 x 1.8 inches / 25 x 45 mm |
| Combined accuracy/stability | ±0.3 °F (±0.2 °C) |
| Power supply requirement | 5 VDC (USB Mini B) power adaptor (supplied); US/JAPAN, EURO and UK plug compatible |
| Operating temperature range | 32 to 95 °F / 0 to 35 °C |
| Warm-up rate | 23 °F / 13 °C per minute |
| **Software** | |
| Features | **VIRALERT 3 Software:**<br>• Continuous live picture in thermal and visual image.<br>• On-screen and audible alarm status.<br>• Simple traffic light display.<br>• Automatic face detection.<br>• Customizable prompts, alarms and messaging tailored to user workflow.<br>• Body mode enabling calculated core temperature from measured skin temperature. |
| Operating system | Windows 10 |
| Recommended minimum PC specification | i3 processor or equivalent.<br>4 GB RAM.<br>1 x RJ45 port and 1 x USB-A port.<br>64 GB Hard disk. |
| Languages supported | English, French, German, Italian, Spanish, Chinese (simplified), Japanese, Korean, Portuguese, Russian |

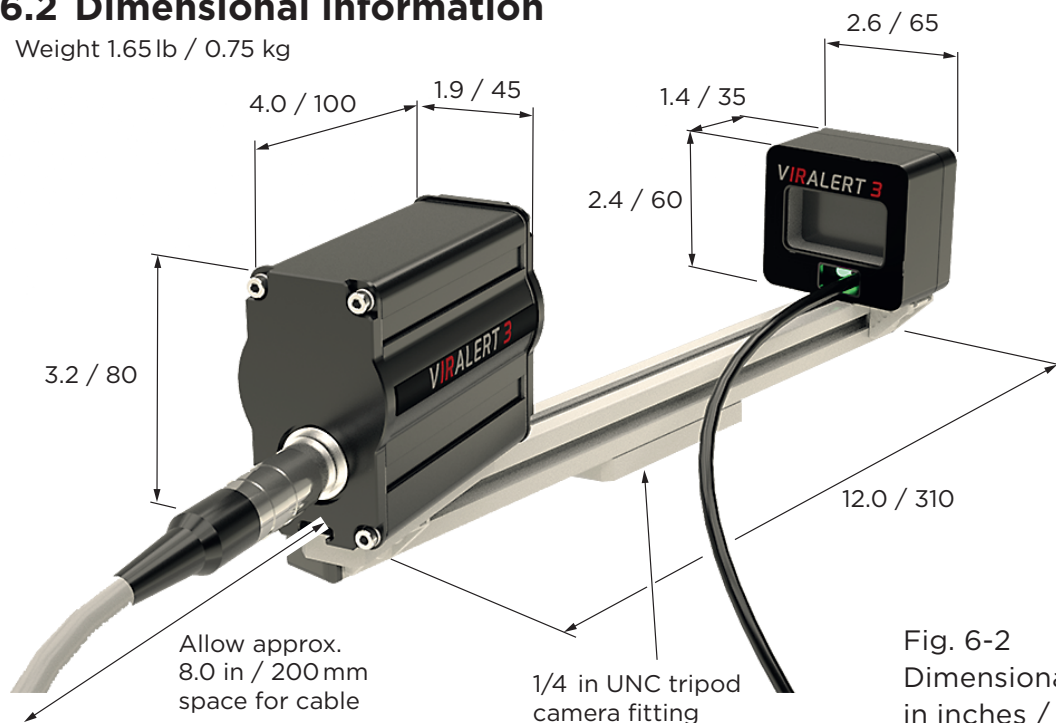## 6.2  Dimensional information

Weight 1.65 lb / 0.75 kg



Fig. 6-2
Dimensional information
in inches / millimeters

# 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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Continuous product development may make it necessary to change these details without notice.

*USER GUIDE*

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