VIRALERT 3

USER GUIDE

PUBLICATION Nº 814274
LANGUAGE: ENGLISH

ISSUE: 1
DATE: 02 JULY 2020

HUMAN BODY
TEMPERATURE
SCREENING SYSTEM

LAND
AMETEK®

LANDVIRALERT.COM

IMPORTANT INFORMATION - PLEASE READ

AMETEK®
PROCESS & ANALYTICAL INSTRUMENTS

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 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 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 AMETEK Land.

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For further details on all AMETEK Land offices, distributors and representatives, please visit our website.

Storage

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

The maximum storage temperature is 10 °C (18 °F) higher than the maximum operating temperature.

The minimum storage temperature is 10 °C (18 °F) lower than the minimum operating temperature.

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 AMETEK Land 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.

UK Calibration Laboratory: UKAS 0034.

USA Calibration Laboratory: ANAB Accredited ISO/IEC 17025.

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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1 INTRODUCTION

This User Guide gives you information on how to install, set up and customise the AMETEK Land 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 business premises, hospitals, airports, schools, sporting and social gathering venues etc.

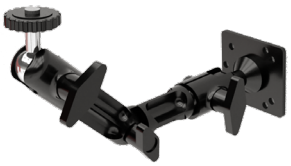
1.2 What's in the box?

	VIRALERT 3 Camera and Blackbody Reference source Pre-mounted on a bracket with tripod fixings
	Camera Cable Power and signal cable. Connects the camera to the Laptop/PC Ethernet and USB connections to the Laptop/PC
	Power Cable For the Blackbody Reference Source International mains adaptors included

1.3 Optional Accessories

Laptop PC running VIRALERT 3 software

VIRALERT 3 software is available for download from **www.landviralert.com**



Surface Mount Bracket

Part Nº 814266

An adjustable mounting bracket that can be screwed to a wall, ceiling or any other suitable flat surface. Fixings included

Clamp Mount Bracket

Part Nº 814267

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

Tripod

Part Nº 814268

A tripod for installation on a flat surface

2 SYSTEM OVERVIEW

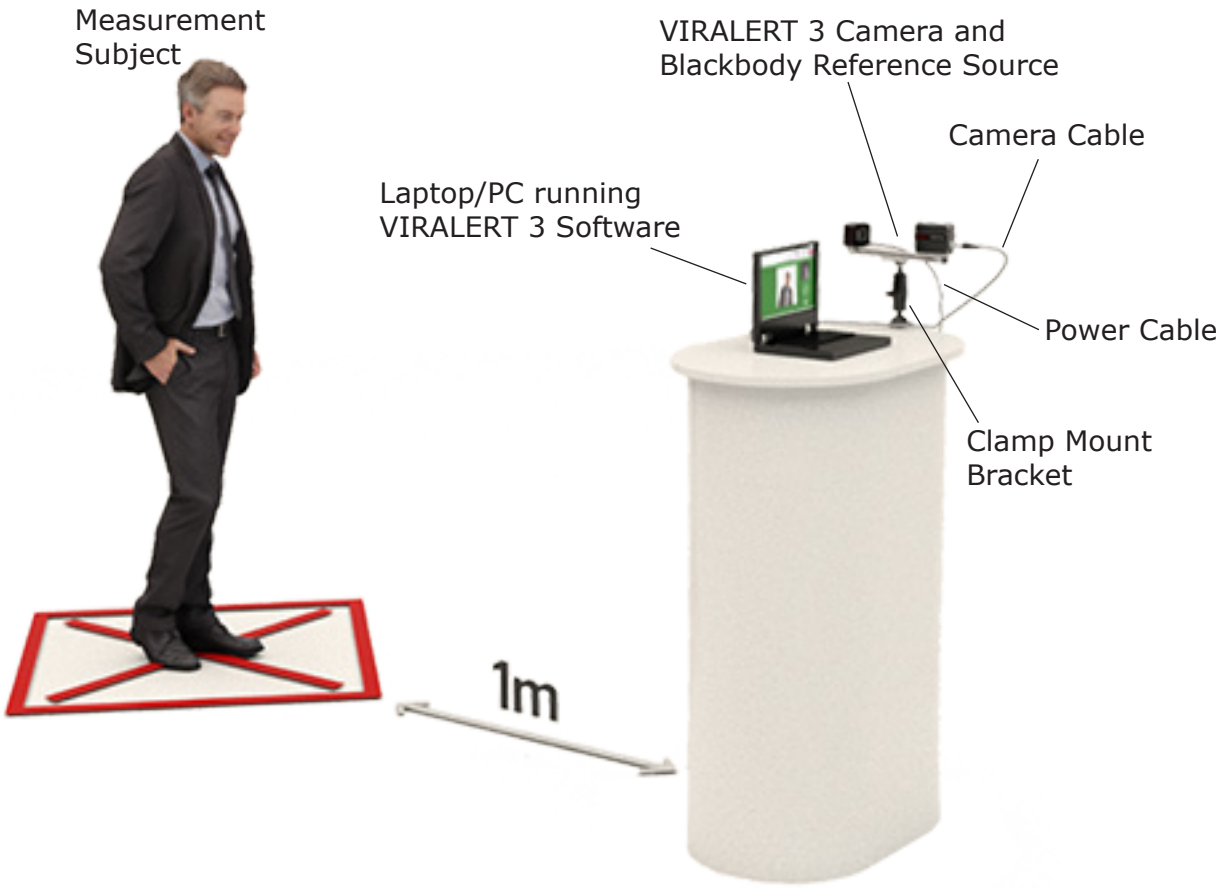


Fig. 2-1 VIRALERT 3 Typical System Overview

3 SYSTEM SETUP

3.1 Measurement Location

1) Choose a location near the area you want to protect.
2) There must be space to install the VIRALERT 3 so that the Measurement Subject can face the Screening System from a distance of 1 m / 3 ft, as shown in Fig. 2-1.
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) 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.
6) 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 AMETEK Land (see Section 1.3).
7) The Blackbody Reference Source requires a mains voltage supply. You will also need to provide power to the Laptop/PC running the VIRALERT 3 software.
8) Once the system is installed and operating, use cable ties to secure the cables to suitable structures. This minimises the risk of the cables becoming dislodged and reduces the risk of tripping over the cables.
9) 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.landviralert.com

3.2 System Connections

NOTE

If you have purchased a mounting accessory i.e. Surface Mount Bracket, Clamp Mount Bracket, or Tripod from AMETEK Land, 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 mains 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 mains adapter to connect the cable to the mains supply.

System connections are now complete

4 START THE SOFTWARE

NOTE

If you purchased a Laptop/PC from AMETEK Land with your VIRALERT 3 system, then the Network Adapter Settings will already be configured and the software installed on the computer.

4.1 Network Adapter Settings

If you are using your own Laptop/PC, 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 **Network status**.

The Search results will be similar to the screen shown in Fig. 4-1 below.

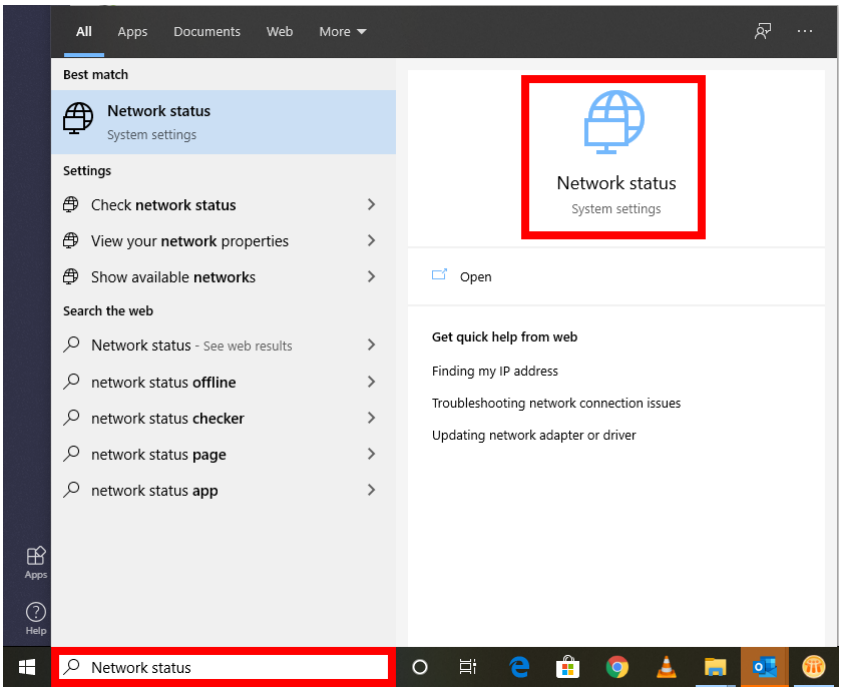
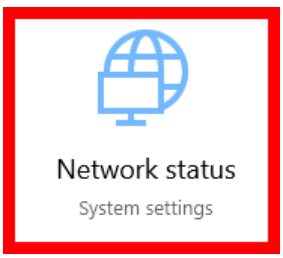


Fig. 4-1 Network status search

3) Click on the **Network Status** link.



The **Status** screen is displayed. See Fig. 4-2 below.

4) Click on the **Change adapter options** link.

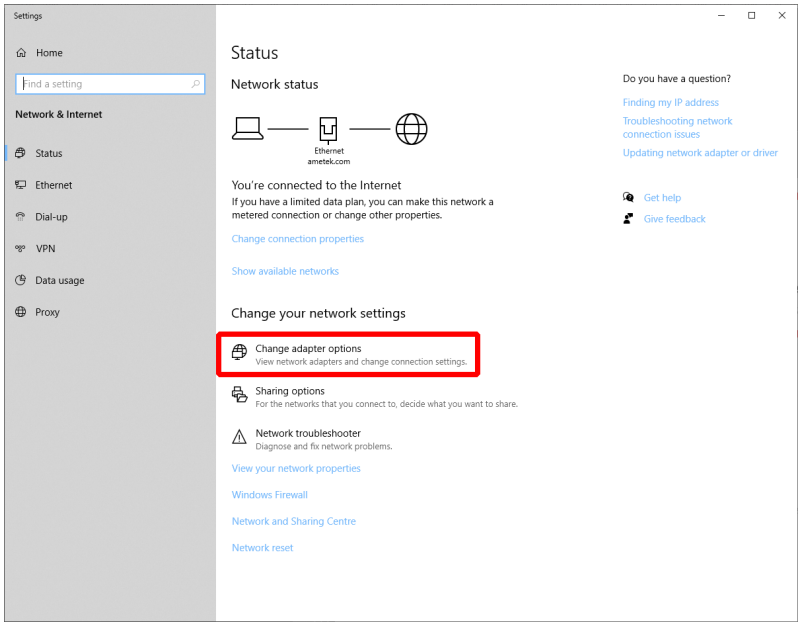


Fig. 4-2 Status screen

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

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

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

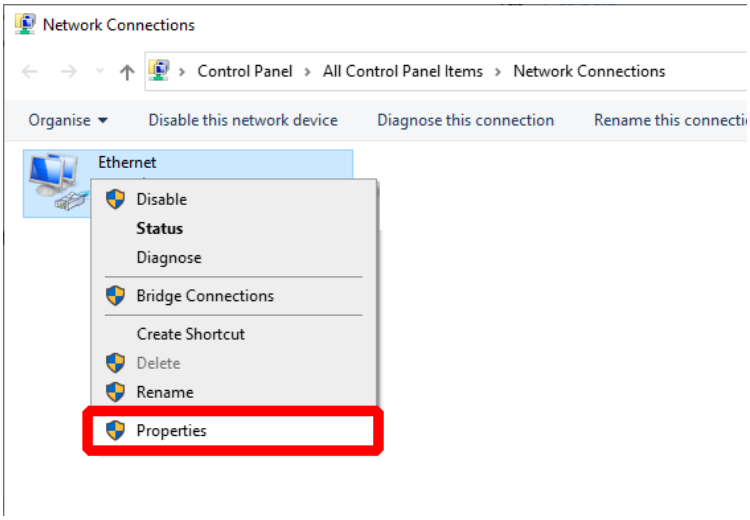


Fig. 4-3 Network Connections screen

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

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

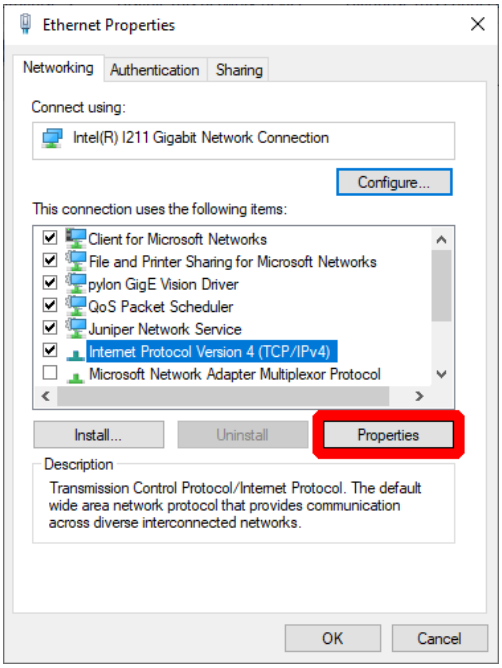


Fig. 4-4 Network status search

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

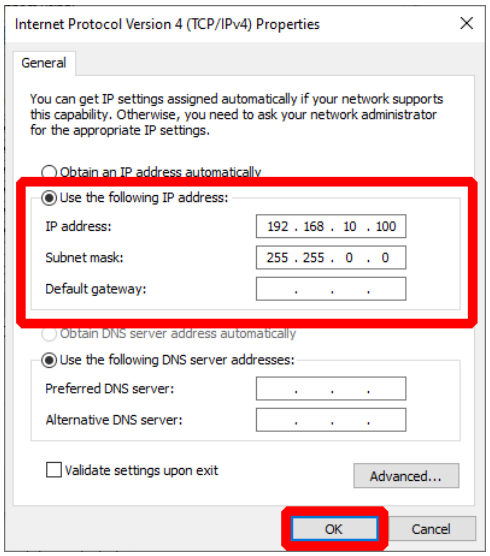


Fig. 4-5 Internet Protocol Version 4 (TCP/IPv4) Properties screen

8) Click the small round button next to **Use the following IP address** to select this option.
9) In the text boxes, enter the following values:
   - IP address: 192.168.10.100
   - Subnet mask: 255.255.0.0
10) Click on **OK** to save these settings.
11) Close the **Networking Properties** and **Network Connections** screens.
    The Network Adapter Settings are now complete.

4.2 Starting the Software

If you are using your own Laptop/PC, download and install the software from the AMETEK Land website.

The minimum specification for a computer running VIRALERT 3 are:

- I3 processor or equivalent
- 4 GB RAM
- Minimum 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*

VIRALERT 3 software is available for download from **www.landviralert.com**.

1) On the Laptop/PC, click on the **VIRALERT 3** icon or search for VIRALERT in the Windows search bar.

   The software will start automatically in Measurement mode.

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

2) Position a Subject in front of the Camera. The subject must:

   - Remove glasses
   - Remove any hat, hood or mask
   - Have 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.landviralert.com

   The software will automatically detect the presence of the subject and measure their body temperature. During the measurement process, the screen background will turn yellow

3) 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.

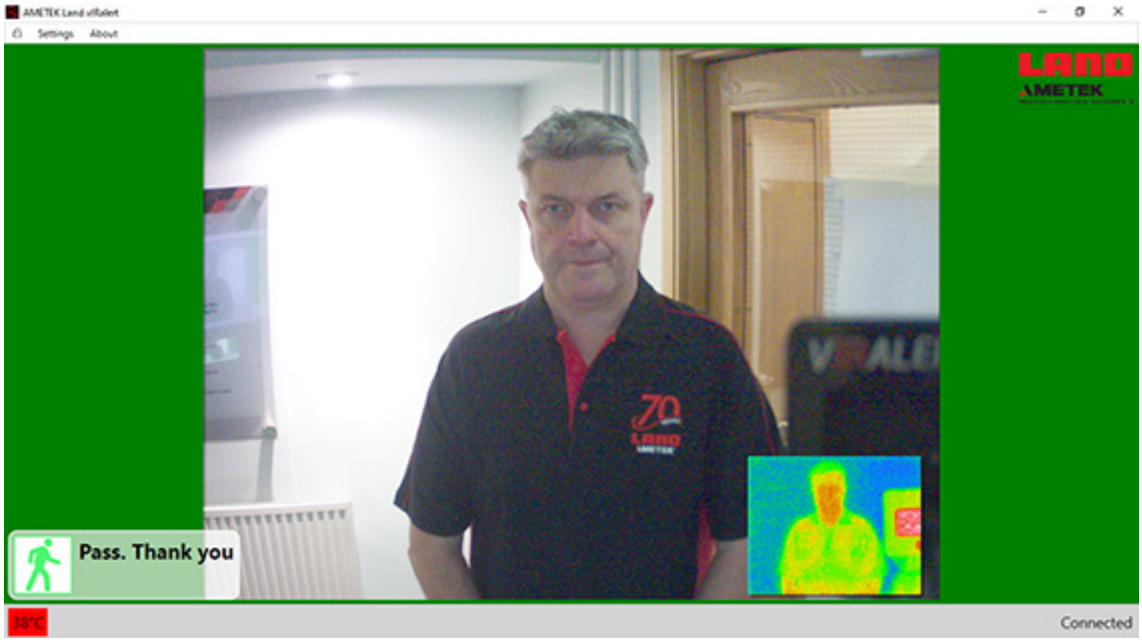


Fig. 4-6 VIRALERT 3 Software Normal Body Temperature display

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

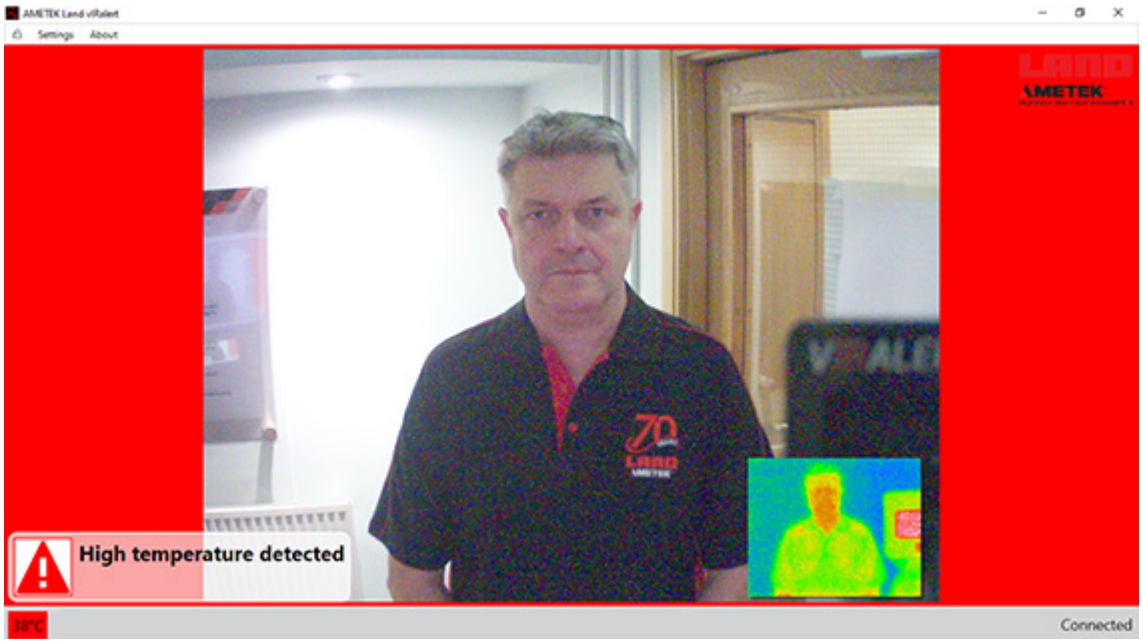


Fig. 4-7 VIRALERT 3 Software Elevated Body Temperature display

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

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.

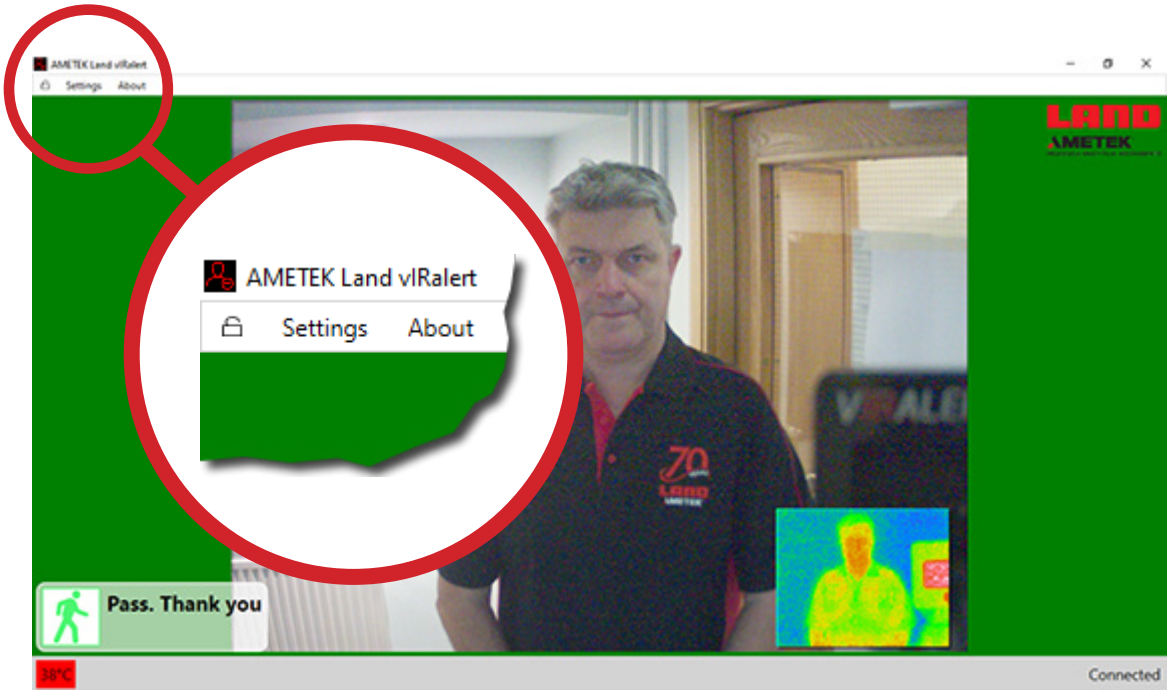
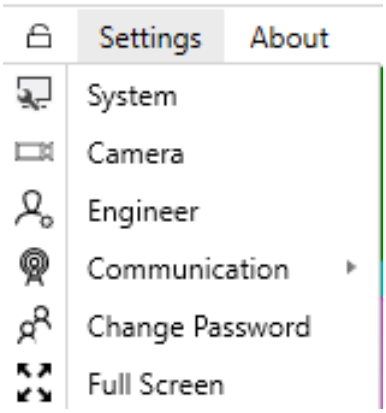


Fig. 5-1 VIRALERT 3 Settings Menu location

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

1) 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.

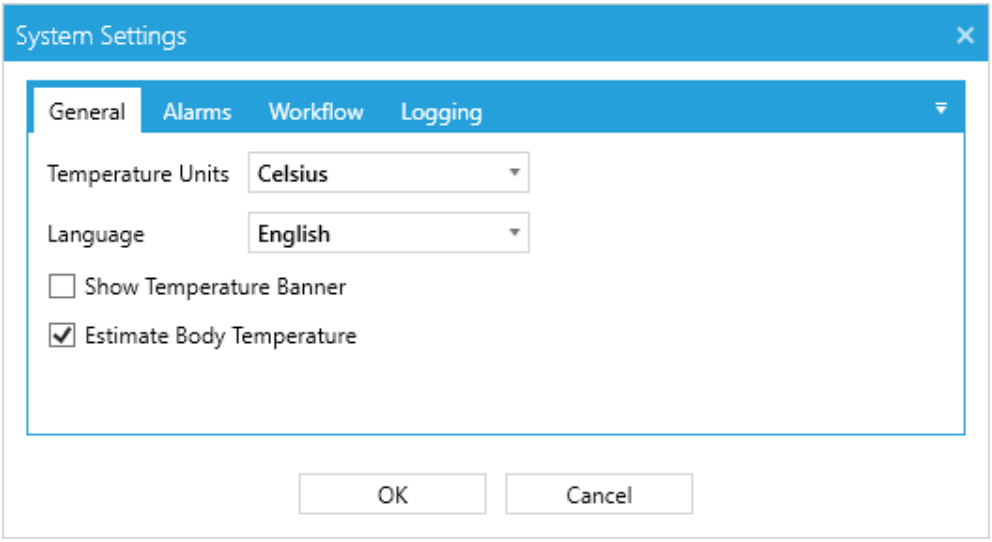


Fig. 5-2 System Settings - General options

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: • **Celsius** • Fahrenheit
Language	VIRALERT 3 screens can be displayed in the following languages. Select from: • **English** • French • German • Italian • Spanish • Chinese (simplified) • Japanese • Korean • Portuguese • Russian
Show Temperature Banner	Use this tick-box to choose whether or not the measured temperature is displayed at the top of the VIRALERT 3 software screen. The default is **OFF**.

Option	Description
Estimate Body Temperature	Use this tick-box to choose whether or not the system estimates a person's body temperature based upon the measured skin temperature. The default is **ON**.

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

5.2.2 Alarms

The **Alarms** tab is shown in Fig. 5-3.

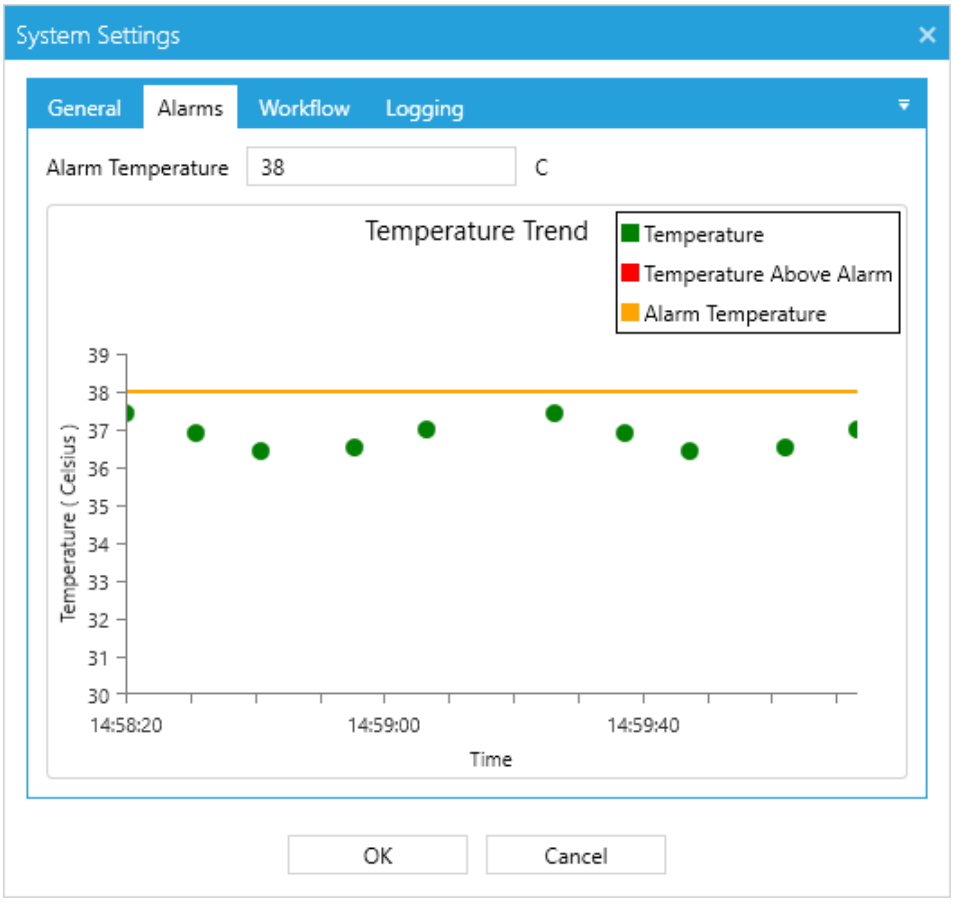


Fig. 5-3 System Settings - General options

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. The default value is **38 °C** or **100 °F**.
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 customise the messages that are displayed during the temperature monitoring process.

The **Workflow** tab is shown in Fig. 5-4. 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 additional 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.

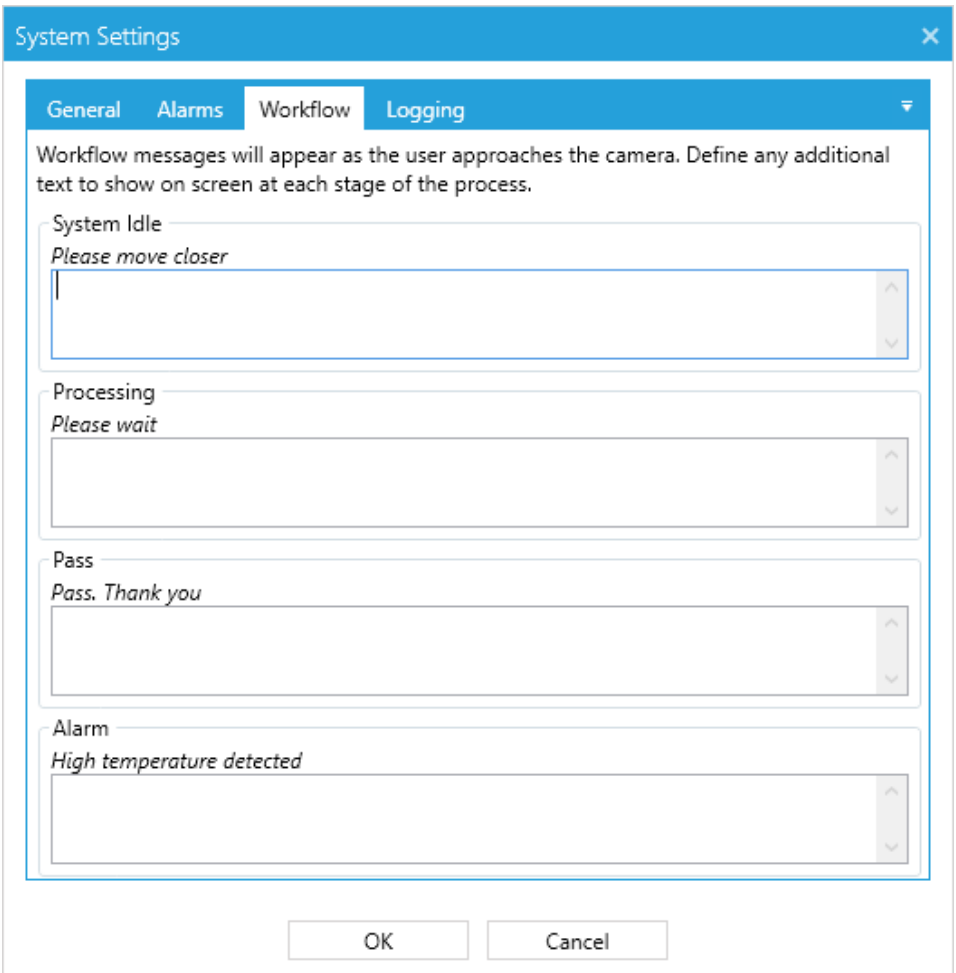


Fig. 5-4 System Settings - Workflow options

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. 5-5.

Logging images is useful for identifying which person triggered an alarm, and logging data is useful for recording temperature value trends.

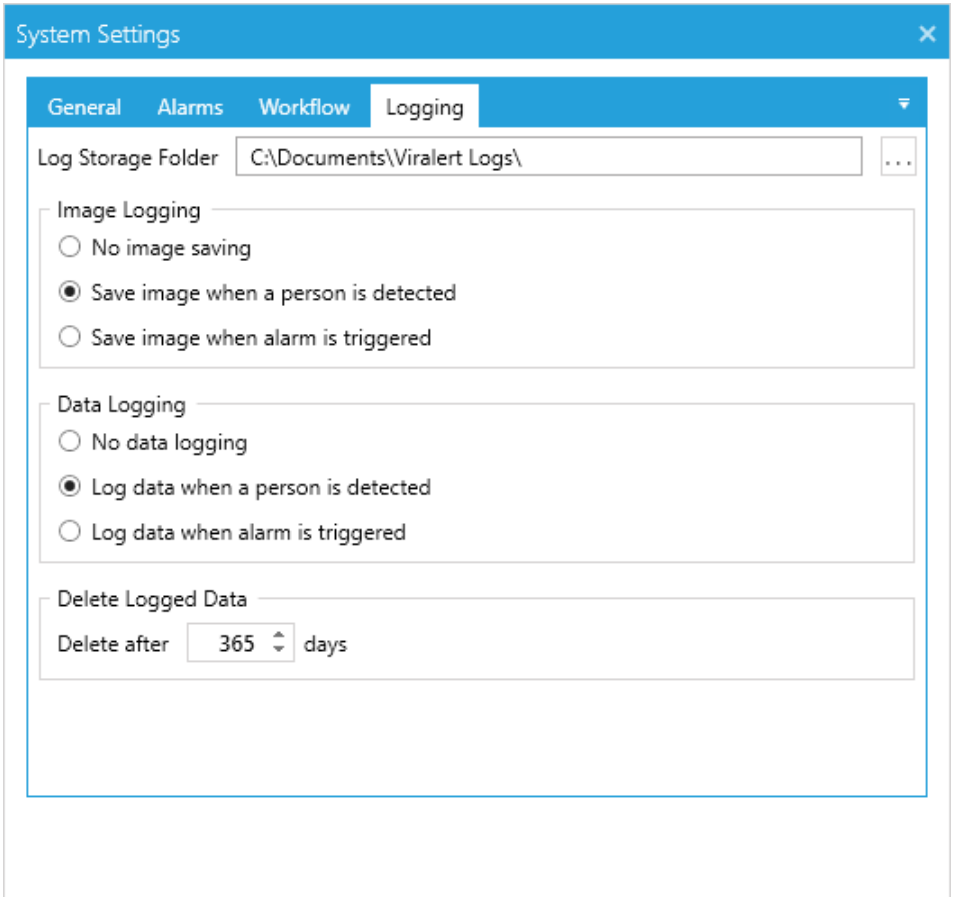


Fig. 5-5 System Settings - Logging options

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 required.
Image Logging	• **No image saving** No images are saved by the system. • **Save image when a person is detected** 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. • **Save image when alarm is triggered** 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** No data is saved by the system. • **Log data when a person is detected** 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. • **Log data when alarm is triggered** 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. 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

1) 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. 5-6.

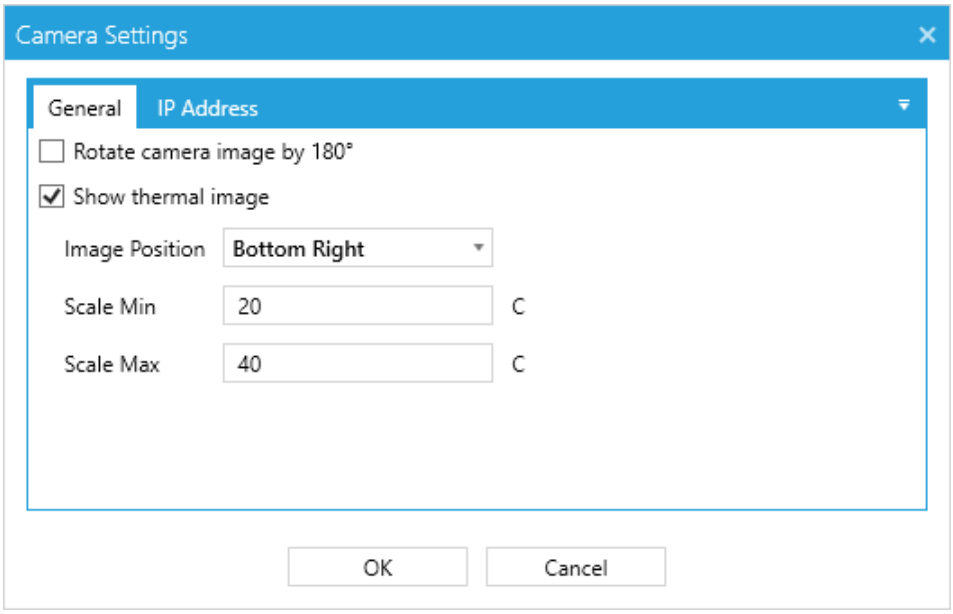


Fig. 5-6 Camera Settings - General options

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. Areas in the thermal image above the alarm temperature will be shown in red.
Image position	Use this drop-down list to select the are 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. 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

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. 5-7.

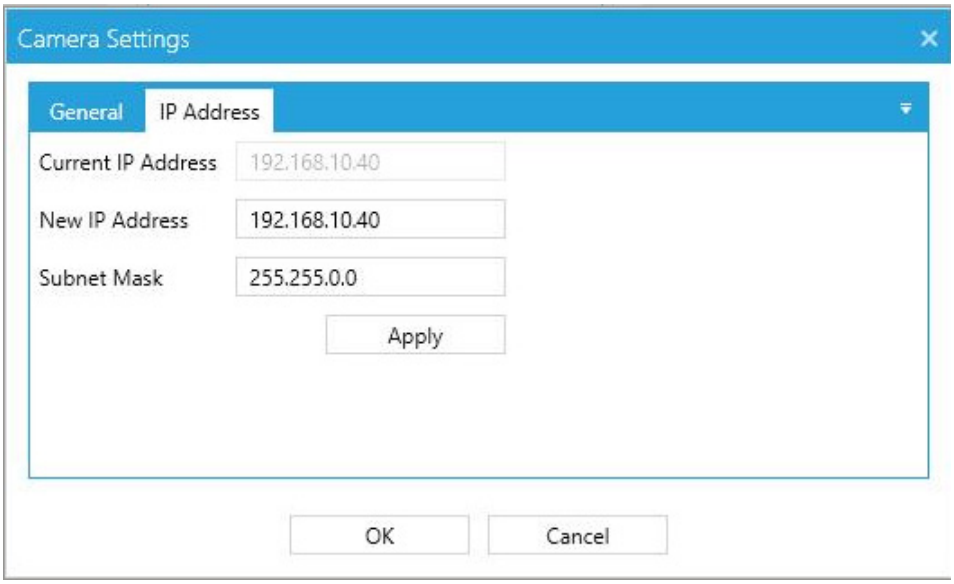


Fig. 5-7 Camera Settings - IP Address

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** need to 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 analogue outputs (0 to 10 V or 4 to 20 mA via software configuration)
- EL4014 - 4 Analogue 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. 5-8.

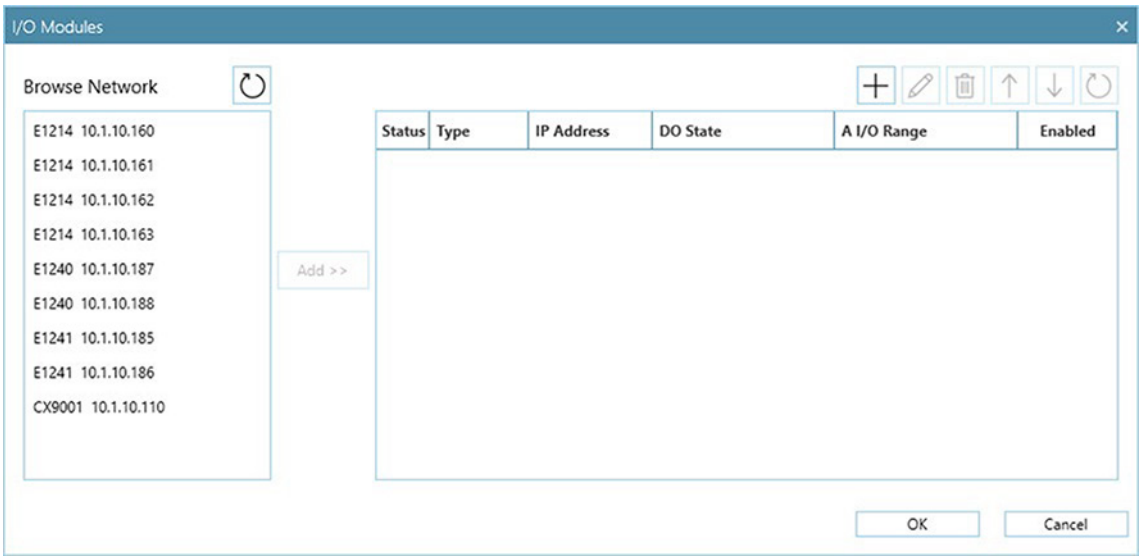


Fig. 5-8 Typical IO Modules screen

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. 5-9.

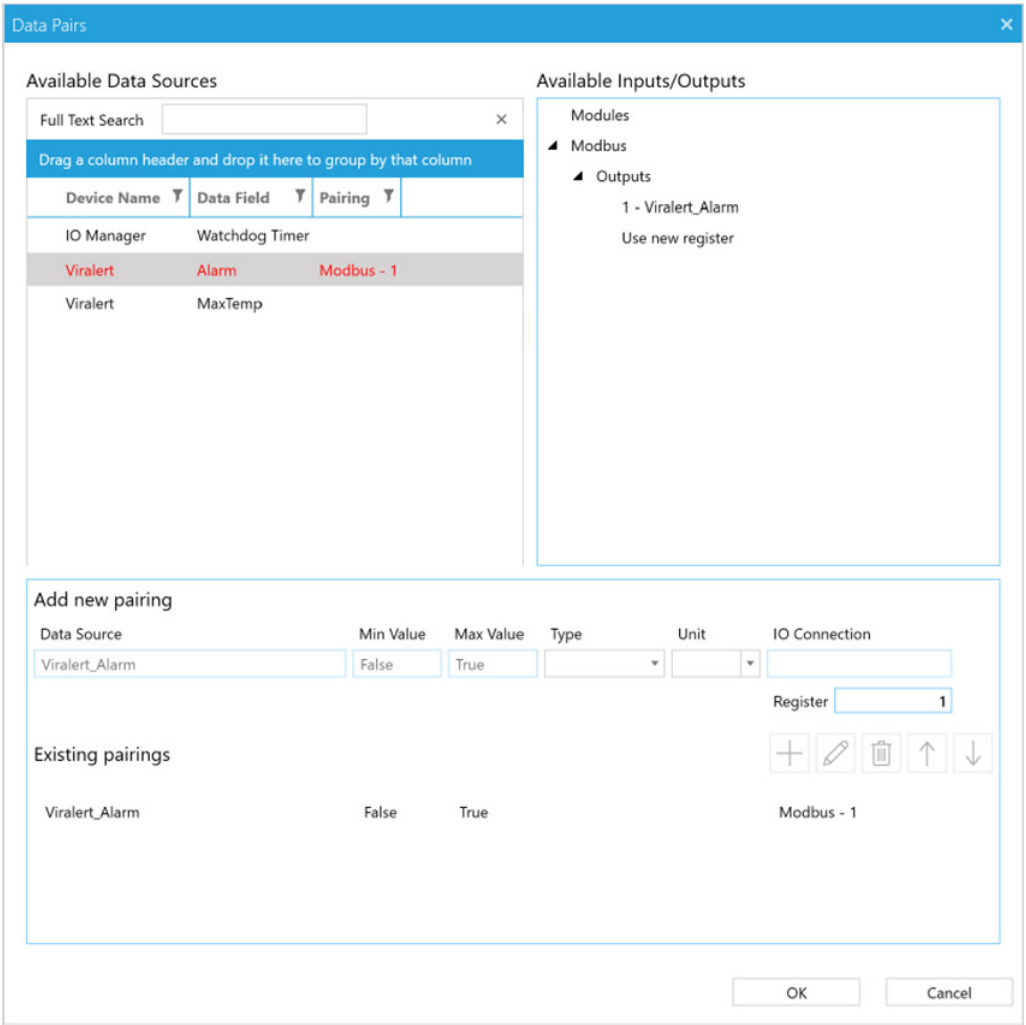


Fig. 5-9 Typical Data Pairs screen

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 D0 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 zeroes).

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. 5-10.

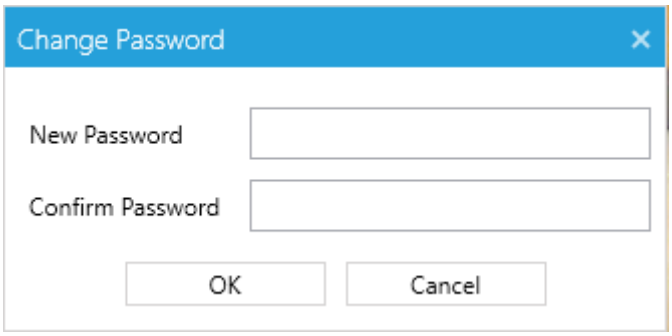


Fig. 5-10 Change Password screen

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

Item	Description
Blackbody Temperature Reference Source	
Temperature	38 °C / 100.4 °F
Target size	25 x 45 mm / 1 x 1.8 inches
Combined accuracy/stability	±0.2 °C (±0.3 °F)
Power supply requirement	5 VDC (USB Mini B) power adaptor (supplied). US/JAPAN, EURO and UK plug compatible
Operating temperature range	0 to 35 °C / 32 to 95 °F
Software	
Features	**VIRALERT 3 Software:** Continuous live picture in thermal and visual image. On-screen and audible alarm status. Simple traffic light display. Automatic face detection. Customisable prompts, alarms and messaging tailored to user workflow. Body mode enabling calculated core temperature from measured skin temperature.
Operating system	Windows 10
Recommended minimum PC specification	I3 processor or equivalent. 4 GB RAM. Minimum 1 x RJ45 port and 1 x USB-A port. 64 GB Hard disk.
Languages supported	English, French, German, Italian, Spanish, Chinese (simpli ied), Japanese, Korean, Portuguese, Russian

6.2 Dimensional information

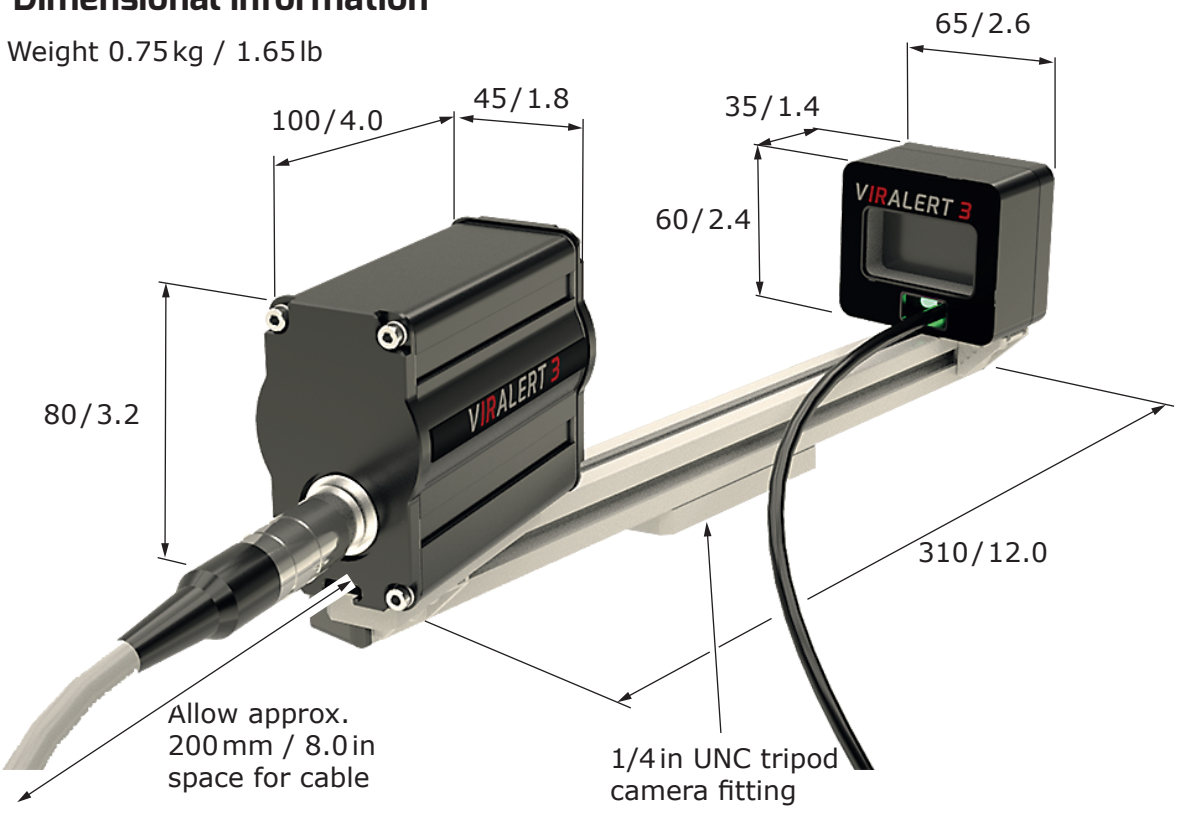


Fig. 6-1 Dimensional information in millimetres / inches

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. 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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VIRALERT 3 System User Guide, Issue 1, 02 July 2020