USER MANUAL

THERMAL CAMERA   **VISIBLE CAMERA**

FIXED HEAT SOURCE
Temperature-Controlled
Reference Device

9 cm

8 cm

9.5 cm

9 cm

Patents pending on Seek Scan System and Fixed Heat Source

SEEK SCAN DOES NOT DIAGNOSE COVID-19 OR OTHER DISEASE, ILLNESS OR DISORDERS. THE SYSTEM MEASURES SKIN TEMPERATURE AS A PROXY FOR BODY TEMPERATURE.

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HEAT SOURCE

CAMERA

5 Feet
(1.5 Meters)

Seek Scan™

WHAT'S IN THE BOX

Camera

Fixed Heat Source

Quick Start Guide

Warranty

Camera
USB-A Cable

USB Stick with
Seek Scan Software

Fixed Heat Source
Power Cable

Removable for
international
power plugs
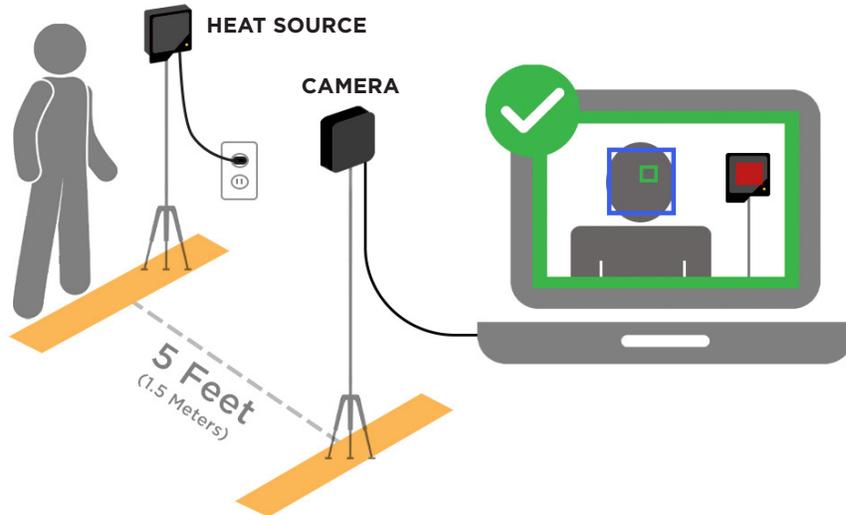
Seek Scan™

SYSTEM SETUP
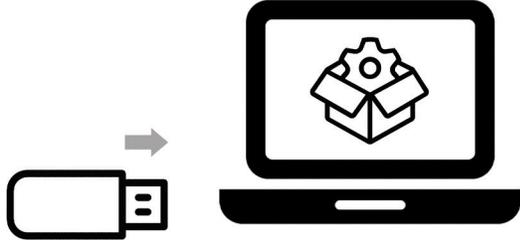
1. Connect USB stick to PC or tablet and follow instructions to install Seek Scan software.

5 Feet (1.5 Meters)
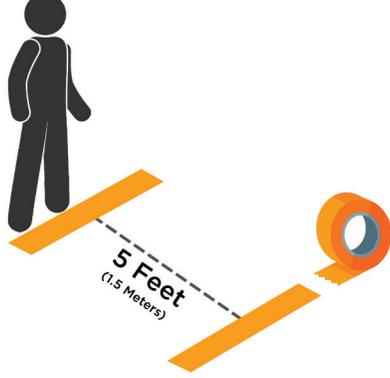
2. Place two pieces of tape 5 feet (1.5 m) apart. Distance is critical to system performance.

5 Feet (1.5 Meters)

5 Feet (1.5 Meters)
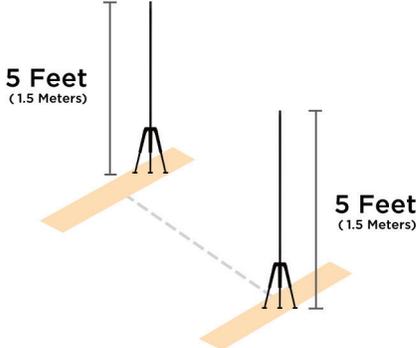
3. Set tripod heights to 5 feet (1.5 m). Tripods not included.
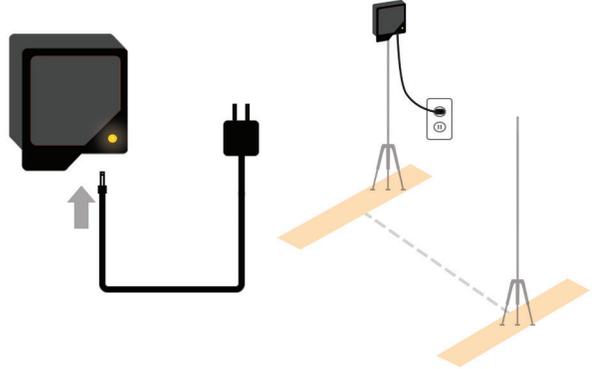
4. Heat source automatically turns on once plugged in. Ready when light stops blinking.
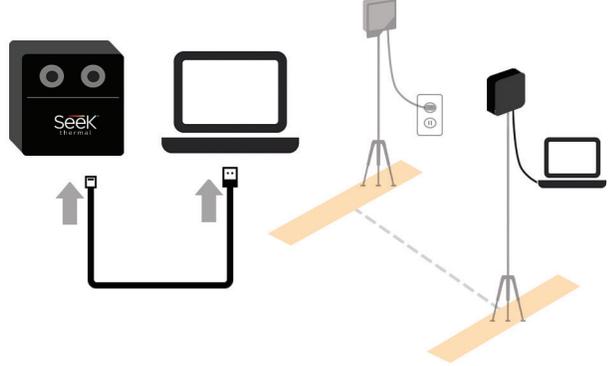
5. Attach camera to tripod and connect cable to PC or tablet. Software must be already installed.

5 Feet (1.5 Meters)
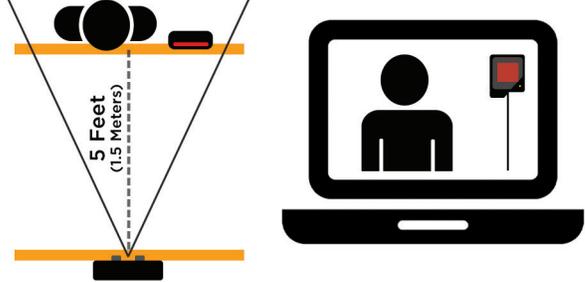
6. Heat source and subject should be no further than 5 feet (1.5 m) from the camera.

SOFTWARE OVERVIEW
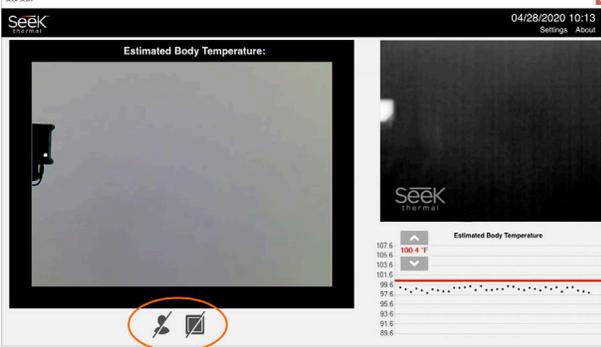
1. ⊠ means the heat source is not detected. 🏃 means the subject is not detected.
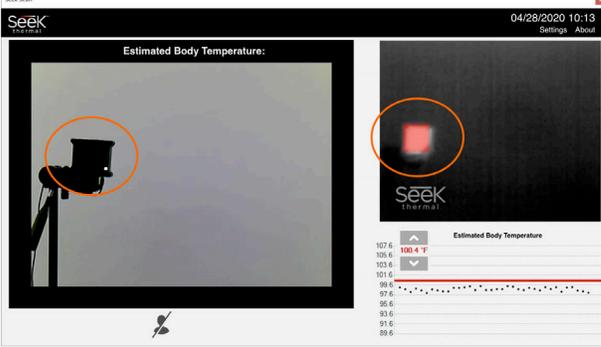
2. This shows the heat source is detected but a subject 🏃 is not detected.
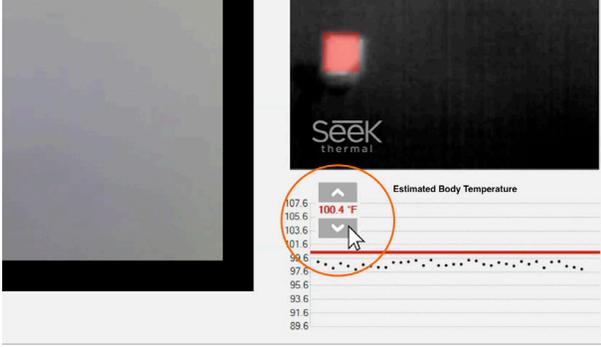
3. Set a custom alarm by clicking up & down arrows. Switch from F to C in settings menu.

4. Blue box means the camera has detected a face and is measuring skin temperature.

5. Green box means estimated body temperature is below the alarm temperature.

6. Red box means estimated body temperature is above the alarm temperature.

SETTTINGS MENU
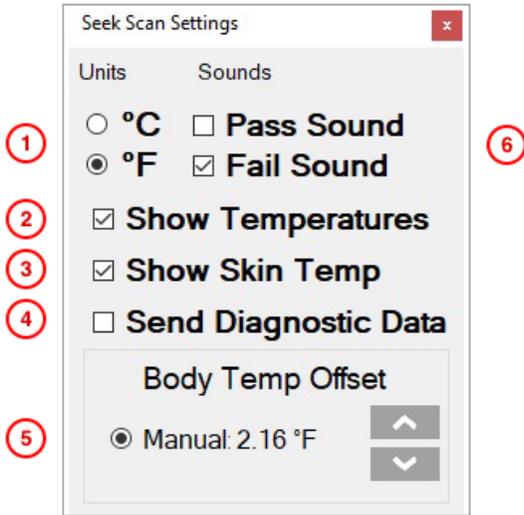
1. Change between Celsius and Fahrenheit.

2. Turn the temperature display on or off.

3. Seek Scan measures skin temperature as a proxy to estimate body temperature. Check this box to also show the skin temperature measurement.

4. Enabling this feature sends anonymous system data to Seek Thermal to help improve Seek Scan software.

5. This allows the user to adjust the skin to body temperature offset for their own environment.

6. Turn alert sounds on or off.

ABOUT MENU

1. Displays your version of Seek Scan Software.

2. Displays your camera's serial number. Enter this number when registering to activate your warranty.

3. Visit our support site to solve technical issues and receive support if needed.

4. It is important to register your product to activate your warranty and receive the latest product information from Seek Thermal.

SeeK Scan™
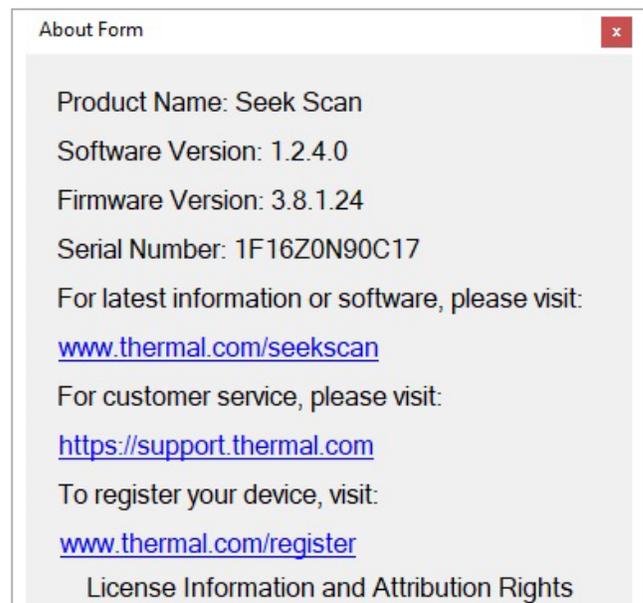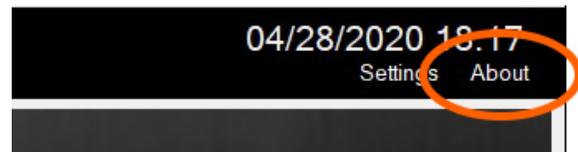
TIPS FOR OPTIMAL PERFORMANCE

IDEAL SCREENING AREA

1. Locate a screening area in a stable indoor controlled environment with a temperature range 68-76°F (20-24°C) and relative humidity range from 10% to 50%.
2. Locate a screening area to avoid significant convective airflow from blowing onto or into the screening area (e.g. from air conditioning ducts, or open doors or windows).
3. Locate a screening area to avoid thermal sources either hot or cold (i.e. sun-facing or cold windows, radiant heaters, outside walls, strong lighting), particularly within the field of view of the Seek Scan camera.
4. Backdrops and side screens can help ensure a controlled screening area. If used, they should be thermally uniform, non-reflective, and not dark in color in the visible spectrum (closer to white than black). Reflective panels such as glass panels should be avoided or covered with opaque materials.

IDEAL SEEK SCAN SETUP

1. Set up your screening area with the camera pointed at the Heat Source in front of a wall. This will help create a flat thermal background and allow for faster scan times and more reliable readings. Warm objects in the background that are near a person's skin temperature or warmer than 104°F (40°C) may reduce system performance.
2. Set up your camera to be positioned perpendicular, both horizontally and vertically, to the reference Heat Source and the face of the subject.
3. Measure and confirm the distance from the Heat Source to the Camera is no further than 5 feet (1.5 meters). Seek Scan has been qualified to work at 5 feet (1.5 meters) to accommodate people of different heights.
4. Verify that the field of view of the camera captures both the Heat Source and face of the individuals being screened. The subject's face should be directly next to the Heat Source.
5. Ensure that the reference Heat Source is not obstructed or accidentally moved from the field of view of the camera during screening events. The Seek Scan software will not perform a measurement event without the Heat Source detected in the scene. The Heat Source emits a constant and known temperature. This allows Seek Scan to reference and calibrate the camera prior to each assessment delivering high accuracy.
6. We recommend marking the ground with tape or floor decals to ensure all subjects are measured from the exact same spot and while positioning the subject next to the Heat Source.

SCREENING RECOMMENDATIONS

1. Subjects should look directly at the camera during measurement.
2. For more consistent readings, ensure the subject's eyes are clearly exposed by removing any eyewear. Subjects wearing a facemask should pull it down slightly and subjects wearing a hat should lift the brim to fully expose the eyes.

SKIN TEMPERATURE VS BODY TEMPERATURE

SEEK SCAN MEASURES SKIN TEMPERATURE AS A PROXY FOR BODY TEMPERATURE
Here are a few things to know about skin temperature measurement:

1. Skin temperature is typically a few degrees less than body temperature. Similar to an infrared temporal thermometer, Seek Scan uses skin temperature to provide an estimated body temperature.

2. Seek Scan is programed to measure the most reliable parts of the face to produce the best results with high accuracy.

3. A person's skin temperature may vary based on a variety of circumstances such as ambient temperature, sweat and eyewear. For this reason, Seek Scan is intended for indoor use only and in environmentally controlled rooms.

REGULATORY AND COMPLIANCE INFORMATION

Seek Scan has been designed to be used in conjunction with **ISO/TR 13154:2017** and **IEC 80601-2-59**.

Seek Scan is not 510(k) cleared or intended to replace a medical thermometer. However, based on new FDA guidelines published April 2020, the FDA stated that it accepts the use of thermal cameras for initial body temperature assessment for triage use without a 510(k) clearance during the health emergency, provided the thermal imaging system meets the standards set forth in the guidance. Seek Scan meets all of these applicable standards. Seek Scan should not be solely or primarily relied upon to diagnose or exclude a diagnosis of COVID-19, or any other disease. While this device can be used by anyone for initial body temperature assessment for triage use, only public health officials, through their experience with the device in the particular environment of use, can determine the significance of any fever or elevated temperature based on a skin telethermographic temperature measurement. Elevated body temperature in the context of use should be confirmed with secondary evaluation methods (e.g., an NCIT or clinical grade contact thermometer).

Seek Scan should be used "as designed" to measure only one subject's temperature at a time. The thermal image displayed in the software is a heat map representation of the temperature data collected from the thermal sensor and only intended for locating the points from which to extract the thermal measurement. The reference body site used for temperature measurement is primarily the inner canthus although other areas of the face may also be used for measurement.

FCC: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Note: Any changes or modifications not expressly approved by the Seek Thermal Inc. could void the user's authority to operate the equipment.

WEEE: This symbol on the product(s) and / or accompanying documents means that used electrical and electronic equipment should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with you national legislation.

ROHS: This RoHS-compliant product conforms to the European Union Restriction of the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment. Seek Thermal Inc. ensures RoHS conformance by requiring supplier Declarations of Conformity, monitoring incoming materials, and maintaining manufacturing process controls.

Industry Canada: This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme