

FEVER SCREENING KIT

Getting Started

This Quick Start Guide will instruct you on how to setup the Fike Fever Screening Kit.

STEP 1

Unpack the kit and verify that the following components are included:

- Dell Inspiron 3593 Laptop
- USB camera and lens in transport case
- USB cable, 1 m (3.3 ft)
- PIF cable, incl. terminal block, 1 m (3.3 ft)
- Table tripod
- Certificate of calibration

STEP 2

Remove the camera from its transport case.

STEP 3

Secure the camera to the table tripod.

STEP 4

Locate the USB cable supplied with the camera and attach the threaded connector to plug 1 on the back side of the camera.



- 1 Plug for USB cable
- 2 Plug for PIF cable (ambient reference)

Figure 1: Camera connections

STEP 5

Attached the other end of the USB cable to any available USB port on the laptop computer.

STEP 6

If the Ambient Temperature Reference Source (P/N 28-0060) has been purchased, install the radiator within the field of view of the camera, as shown in the following diagram. The radiator can be wall or ceiling mounted.

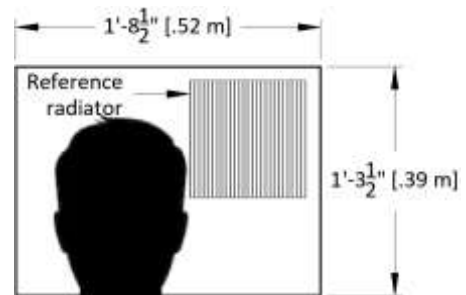


Figure 2: Screening field of view

STEP 7

Locate the PIF cable supplied with the reference radiator (65.6 ft. [20 m] long) and attach the threaded connector to plug 2 on the back side of the camera.

STEP 8

Attach the other end of the PIF cable to the reference radiator.

STEP 9

Attach the AC power cable to the laptop computer; then apply power. The fever screening software will automatically start. Once the software is open, you will see a thermal image on the left portion of the screen and "Temp of Measure Area" display in the upper right which will display the hottest temperature of any spot inside the box.

Step 10

Position the camera so the lens is no more than 25 inches from the target face and both the reference radiator and the face being screened are within the camera's field-of-view. See Figure 2 for correct positioning.

STEP 11

Apply colored tape to the floor to indicate where the individual to be screened should stand making sure that the individual's face is within 25 inches of the camera lens.

STEP 12

If necessary, focus the camera by turning the knurled ring on the outside diameter of the camera lens. It may turn with some resistance initially, but that is expected.

Step 13

If necessary, use the temperature span slide bar that is located just below the image pane to optimize the thermal image contrast to suit your specific needs. Slide the bar to the right or left to decrease or increase the width of the temperature span.



Figure 3: Temperature span slide bar

A temperature reference bar (Figure 4), located just below the “Temp of Measure Area”, indicates the temperature range displayed in the image pane.

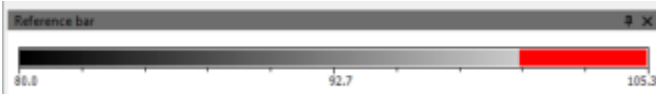


Figure 4: Temperature reference bar

STEP 14

If necessary, blow off loose particles on the camera lens using clean compressed air or clean the lens with a soft, humid tissue (moistened with water) or a lens cleaner. Never use cleaning compounds which contain solvents on the lens or the housing.

Step 15

Perform some trial measurements and record the temperatures displayed (96.15°F in Figure 5). Make sure that you consider the average time an employee spends in outdoor conditions and make sure test subjects are exposed to the same ambient temperature for the same time.

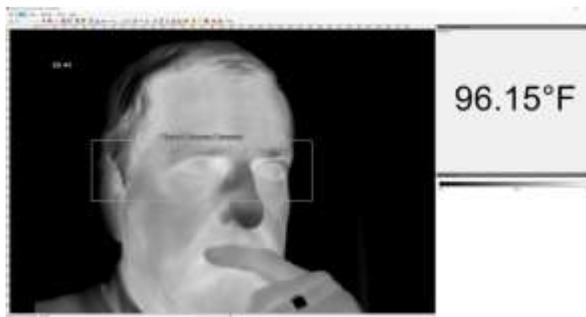


Figure 5: Temperature measurement display

Once you have recorded 4 to 5 test measurements, use these numbers as the “Baseline Average Temperature” and set the alarm value in the software as detailed in Step 16.

Step 16

From the software’s main toolbar, select the configuration icon (hammer and tongs) to open the Configuration screen and select the “Alarm” tab. Use the baseline average temperature determine in Step 15, and set the “Alarm High” value to 2°F over the baseline temperature.



Figure 6: Configuration Menu – Alarms tab

Step 17

To highlight temperatures above the alarm threshold with a colored overlay, from the Configuration screen select the “Measuring colors” tab. Enter the alarm value into the High Range Threshold (See Figure 7). The software will display the selected color in both the “Temp of Measure Area” and in the temperature display area for any temperature reading in excess of the alarm threshold.

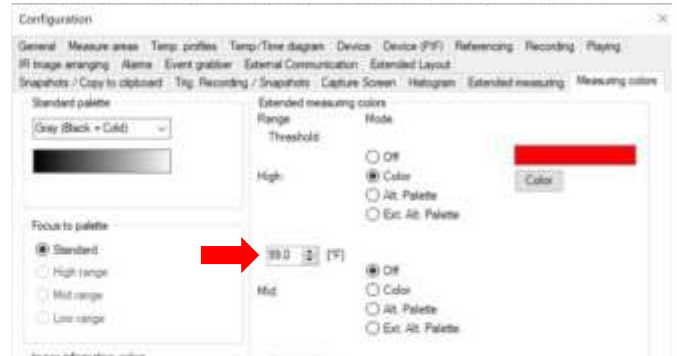


Figure 7: Configuration Menu – Measuring colors tab

Step 18 (Optional)

If preferred, the software can be full-screened so that only the “Temp of Measure Area” is shown on the screen. Software menu and temperature display area will be hidden. To overlay the temperature reading over the “Temp of Measure Area”, from the main menu select View > Image information > Temperature at main measure area (See Figure 8); then select View>Full Screen from the main menu or press Alt+Enter to set the software to full screen mode. The software is now ready for operation. Please note that the ESC key can be pressed to exit full screen mode.

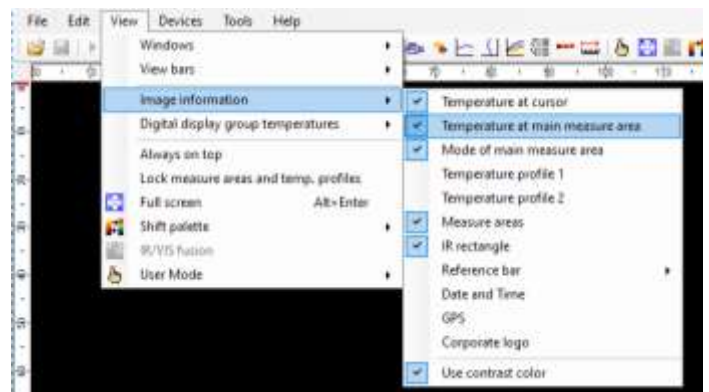


Figure 8: Enabling temperature display on main measure area

STEP 20

Post the following User Instructions (or similar) near the fever screening station.



Temperature Screening Station

Instructions:

1. Lower your mask, remove your glasses and hat.
2. Wait approximately 15 seconds before proceeding with screening.
3. Step inside the blue box taped on the floor, facing the camera.
4. Look straight ahead at the monitor in front of you making sure that your eyes are visible on the monitor image (see image to the right for reference).
5. Hold still to allow the system to take your temperature.
6. Take note of the average temperature reading displayed.
7. If your average temperature reading is higher than 99°F, please see the onsite nurse for a secondary core temperature check.



Thanks for your cooperation!