iMage-E

Single-Person Fever Detection
User Manual for TK-008
**Version information:**

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1. **System Architecture**

Mount the FLIR AX8 and connect the camera using a PoE. If the operating system is equipped with DHCP, then an IP address will automatically be assigned to AX8. (The factory default IP address is: 192.168.1.155)

![Diagram of network setup](image)

2. **Installation Requirements**

Mount the FLIR AX8 to the same height as the test object, approx. 1 - 1.5 meters in the distance.

![Diagram of AX8 installation](image)
3. Camera Setup

3-1. Connecting the FLIR AX8

1. Connect the Ethernet Connector (M12,X-coded) to the left side port.
2. Connect the camera to the PoE Switch.
3. Connect the PoE Switch to the system via Ethernet cable.

Reset button and Indicator LEDs

1. Reset button: Do not hold down the reset button when connecting power to the camera!
2. Ethernet signal indicator:
   - Permanent Green Light: The camera is connected to the network, but no data is being transmitted.
   - Flashing Green Light: The camera is connected to the network and data is being transmitted.
3. Power/Error LED:
   - When the camera is operating normally, the LED indicator will display BLUE light.
   - If the camera enters “Recovery mode”, the LED indicator will display RED light.
3-2. **IP Address settings**

When FLIR AX8 has been successfully connected, an IP address will automatically be provided through DHCP.

(The factory default IP Address is: 192.168.1.155)

IP Address is displayed in the FLIR IP Config Tool window.

(FLIR IP Config Tool can be downloaded from the following link: [https://flir.custhelp.com/app/answers/detail/a_id/1137](https://flir.custhelp.com/app/answers/detail/a_id/1137))

Modifying IP setup:

- Modifying IP using Config Tool
  1. Right-click on the camera in the list of detected devices, and select Modify
(2) Select “Use the following IP address”, and then enter new values for the IP address, Subnet mask and gateway.

• Modifying IP using camera web interface
  (1) To connect to the web interface, enter the IP Address of the FLIR AX8 camera into the address bar of a web browser.

    ![IP Address Settings dialog]

    The default user credentials are:
    User: admin
    Password: admin

    ![User login dialog]

(2) Go to 【Settings】 > 【Network settings】 > 【setup】
Select ● Manual IP and insert values for the right column. Then click Save.
3-3. **Global Parameters settings**

1. Global parameters should be properly set up before using the AX8 to take temperature measurements. 
   Set the measuring distance. (Distance (m))

2. Select a wall with a low refractive index and measure its temperature as an indicator of the ambient temperature.

3. According to the ambient temperature, the *Reflected temperature* and the *Atmospheric temperature* should both be set to the same value.

4. *Emissivity* coefficient is a factor that can slightly compensate measurement results. If the measured temperatures are relatively high, the user can tune the *Emissivity* by a small amount as a correction to obtain accurate temperature measurements.
3-4. **Box measurement setup**
1. Click the *Box measurement* on Web interface to add new measurement areas.
2. The mouse can be used to drag or adjust the measurement area.

3-5. **Isotherm colorizing setup**
The *Colorize* list is in the upper right corner of the Web interface. You can change the palette to display different temperature within an image or increase the temperature readability.
3-6. Temperature alarm setup (Sync with EZ Pro)

- AX8 Web Settings

(1) After a Box measurement has been successfully added, the maximum, minimum and averaged temperature measured within the box will be displayed on the right.

(2) Click the Bell icon to set an alarm. Then select 【Yes】 for the Activate Alarm settings and set alarm conditions.

【Alarm conditions description】

**Condition**: The condition is usually is set to Above, meaning that an alarm will be triggered when the temperature is above a certain threshold value.

**Threshold**: Enter the temperature of an integer value.

**Hysteresis**: It is the interval within which the temperature value is allowed to vary without triggering an alarm. The hysteresis is usually set at 1°C, which means the alarm will be cancelled after the temperature
falls by 1°C. (E.g. If the alarm condition is set at 37°C, the alarm will cancel once the temperature drops below 36°C.)

- EZ Pro

【Camera recording setup】
To use EZ Pro’s push notification function, (including alarm triggering and event recording etc.), the camera recording should be properly setup first.

(1) Right-click on the camera name and select Camera Settings.

(2) In the 【Recording】 tab, turn on the recording and select 【all time frames】 on the "Recording Schedule".

(3) The small red dot next to the camera icon indicates that the camera is currently recording.
【Adding a new alarm rule】
EZ Pro can receive temperature data from AX8 and set event alarms.

(1) Add a new event rule
【Main Menu】 > 【System Administration】 > 【Event Rules】
> 【Add Event Rules】

(2) Setting event rules
Select DI on camera and your “FLIR AX8” camera. Then choose the alarm conditions (E.g.: box1).

(3) Setting an alarm action
Set an action to be executed by EZ Pro when alarm conditions are met. (E.g. Play sound, insert bookmark etc.; but only ONE action can be selected at a time. If the user wants EZ Pro to Play sound and insert bookmark at the same time, then two event rules are required.)
(4) Click OK and Save to complete alarm settings.