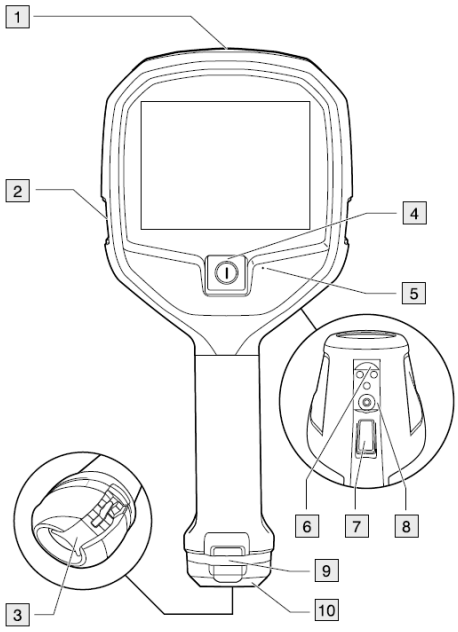
THERMAL IMAGING CAMERA
FLIR K33

1. EQUIPMENT

- FLIR K33 TIC
- In-truck charger
- Li-Ion Battery Pack
- Retractable lanyard

2. PARTS and CONTROLS



1) USB Mini-B connector
2) Attachment points for the lanyard strap/neck strap (left and right side
3) Eccentric latch to secure the battery.
4) On/off button. This button has three functions:
    - Push the on/off button to turn on the camera.
    - Push and hold the on/off button for more than 3 seconds but less than 10 seconds to put the camera into standby mode. The camera then automatically turns off after 6 hours.
    - Push and hold the on/off button for more than 10 seconds to turn off the camera.
5) Pin hole for setting of the temperature unit (°C/°F).
6) Connectors for the in-truck charger.
7) Trigger
8) Mount for the tripod adapter.
9) Attachment points for the retractable lanyard.
10) Battery

❖ *This thermal imaging system **<u>is not rated</u>** as intrinsically safe. **<u>Do not</u>** use the camera in atmospheres where static or spark may cause an explosion.*

3. OPERATING FEATURES

Screen Elements



1) Low-sensitivity mode indicator. The indicator is displayed when the camera identifies a hot area and automatically switches to the low sensitivity mode.
2) Overheating indicator. The indicator provides a visual warning to the user that the thermal imager is about to shut down due to internal overheating.
3) Reference bar
4) Temperature bar
5) Spotmeter temperature
6) Battery Condition indicator
7) Spotmeter

Inserting the Battery

1) Insert the battery into the battery compartment.
2) Fasten the eccentric latch.

Power On

1) Push the on/off button to turn the camera on.

Power Off

1) Push and hold the on/off button for more than 10 seconds to turn the camera off.

Basic Mode

The camera features one camera mode: Basic mode. This is a multipurpose mode for the initial fire attack with life-saving operations and control of the fire. The camera automatically switches between the high-sensitivity range and the low-sensitivity range, to maintain an optimal infrared image while at the same time maintaining a safe and consistent heat colorization of the fire scene. This automatic switching of ranges occurs when objects with a temperature above 302°F enter the field of view of the camera.

Reference Bar

1) The coolest objects in the scene are depicted in the black to white color band with black being the coldest and white being the hottest.
2) Yellow starts immediately following the hottest (white) temperature.
3) Orange starts immediately following the hottest temperature in the yellow temperature band.
4) Red starts immediately following the hottest temperature in the orange band.

4. ROUTINE MAINTENANCE

- When not in regular use, the camera should be switched on for a period of five minutes every Sunday duty to check for correct operation.
- The battery should be switched every Sunday duty.
- After use and prior to storage, the camera should be cleaned using a cloth soaked with warm water. Solvents should not be used.
  - ➢ Keep the lens clean.
    - Dirt or soot build up on the lens will obscure or reduce the clarity of the thermal image. Wipe the lens with a cloth as needed. Clean lens thoroughly after use.

5. BATTERY CHARGING

Battery in Camera

1) Pull up the top cover of the in-truck charger.
2) Push the camera into position.
3) Push down the top cover.



The charging of the camera has now started and is finished when the blue light glows continuously. Charging a fully depleted camera takes approximately 4 hours.

Battery Separately

1) Pull the eccentric latch on the bottom of the camera.
2) Pull out the battery from the camera.
3) Push the battery into the slot at the lower front of the charger.
4) Secure the battery using the eccentric latch on the charger.

The charging of the battery has now started and is finished when the blue light glows continuously. Charging a fully depleted battery takes approximately 4 hours.

6. REPAIR

If the camera is placed out of service, an officer must be notified, and the member shall prepare the appropriate form on the website.