Bath Township Fire Department			Standard Operating Guideline	
Section Equipment	**Referral No.** E-O8	**Subject:** Thermal Imaging Camera Operation	**Date Issued** 11/02	**Date Revised** 11/11

Purpose:

- To provide guidelines for use of the thermal imaging camera at an emergency scene

Scope:

- This standard operating guideline shall apply to all personnel.

Responsibilities:

- Officer
  - All officers will ensure that any personnel operating the thermal imaging camera are properly trained.
  - The person operating the thermal imaging camera will do so in a safe manner.
- Personnel
  - All personnel have the responsibility of wearing proper safety equipment and operating the thermal imaging camera in a safe manner.

Guidelines:

- One Thermal Imaging Camera (TIC) will be kept in the cab of Engine 1304.
- One Thermal Imaging Camera (TIC) will be kept in the cab of Ladder 1301.
- One Thermal Imaging Camera (TIC) will be kept in the cab of Tanker 1303.
- The Thermal Imaging Camera (TIC) is only to be used be personnel trained in its use.
- Anyone using the TIC will also carry a handheld 2-Way radio with them and communicate with the incident commander on the appropriate channel.
- The TIC team will consist of a minimum of 2 firefighters trained in TIC use and in full protective clothing and SCBA.
  - **If a 3rd firefighter is available, they will accompany the team with a charged hose line.**
- The TIC team will also carry with them a forcible entry tool.
- The TIC is standard equipment for the Rapid Intervention Team (RIT) (refer to the RIT guideline)
- The TIC in Engine 1304 will be stored in a charging unit capable of charging the TIC and one additional battery.
- The TIC in Ladder 1301 will be stored in a charging unit capable of charging the TIC and one additional battery.
- The TIC in Ladder 1303 will be stored in a charging unit capable of charging the TIC and one additional battery.
- There will be a 110-volt charger in the dispatch office for battery charging.

- DO NOT plug the cord from the 110-volt charger into the camera, it is higher voltage than the vehicle charger and will damage the camera.

- The TIC (Bullard) is designed to operate within an internal core temperature range of 0 degree F to 175 degrees F
- Dynamic range will be 1020 degrees F
- Capable of being submerged in 3 feet of water for 30 minutes.
- When fully charged, the battery will power the TIC for 3 hours.

- Following any use, the camera is to be cleaned with a soft cloth and a mild soap and water solution

- The TIC (Scott) is designed to operate within an internal core temperature range of $^{-}40^{o}$ - $^{+}158^{o}$F
- If the core temperature of the TIC reaches 160^{o}F, the TIC will alert the user with the HI TEMP red LED below the display screen.
- The unit may shut down until the core temperature drops below 158^{o}F.
- When fully charged, the battery will power the TIC for 2 hours.
- When the battery has 30 min. remaining, the LO BAT orange LED below the display will light.
- Thermal images can detect an image for a range of up to 600 feet.
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- After each use, the battery should be charged for a minimum of 2 hours.