



# UNIFIED FIRE AUTHORITY

## MEMORANDUM

25-199

November 20, 2025

TO: All Personnel

FROM: Logistics Division Chief Greensides

SUBJECT: New Thermal Imaging Cameras

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New Bullard Thermal Imaging Cameras (TICs) have been purchased as outlined in the capital replacement plan and are currently being distributed. The old TICs will be collected, and the trade-in value of our existing units will help offset some of the costs of the new TICs.

The new TICs function very similarly to the ones being replaced and are the QXT Pro model. These were recommended by the Research and Development Committee and use the same TIC charger we currently have. When turning the display on and off, it will show which unit the TIC is assigned to.

These new cameras differ from the older models in the following ways.

1. **Resolution jump:** The most significant practical change is resolution — the QXT Pro's 640×480 sensor captures noticeably more detail than the NXT's typical 320×240. This improves the ability to identify objects, victims, and flow patterns with greater clarity and from a greater distance.
2. **Image processing:** QXT Pro uses **X-Factor 2.0** (new algorithms: sharper edges, People-Focus, Fluid Viewing, Seamless Gain Transition). The newer unit not only has higher raw resolution but also smarter on-camera processing to make targets stand out faster.
3. **Field of view & scene awareness:** QXT Pro offers a wide 40°×50° FOV — more scene coverage in a single shot compared to older models, enhancing situational awareness.
4. **Thermal Throttle:** Easier to activate by pressing the "A" button and cycling through icons. See the attachments for more instructions.
5. **Battery and runtime tradeoffs:** The NXT TICs have traditionally offered 7–8 hours of runtime; QXT Pro is expected to provide 6.5 hours of runtime, depending on options and usage, such as display brightness and image enhancement.
6. **Feature maturity:** Numerous software features that were optional or first-generation on older NXT units (thermal throttle, zoom) are now refined and integrated into newer Pro models, providing better user experience and consistent image quality (no forced shuttering, smoother gain adjustments).

Additionally, a quick reference "cheat sheet" and user manual are attached for your convenience.