

# TAMAR

## Non-contact Physiological Signs Monitor

Body Temperature, Heart & Respiratory Rates



### General

The TAMAR is an innovative, state-of-the-art, hi-tech tool which can be used in any venue that requires people have their physiological signs monitored. Tamar detects people who do not meet predetermined physical parameters; as such, the TAMAR may be used as a tool to help highlight individuals that may be at risk, thus reducing the burden and cost for mass testing while maintaining safe distance for the staff.

To meet the challenge of providing more reliable screening in high traffic areas, ELTA has designed a unified, remotely operated system able to accurately sense **body temperature, heart and respiratory rates** in a few seconds. By integrating ELTA's field proven radar sensor and a high-performance thermal camera together with an intelligent, easy to operate application with Artificial Intelligence (AI), an optimized solution has been achieved - **TAMAR**.



*Where Courage Meets Technology*

# Introduction to TAMAR

The Tamar system and detection algorithm is unique.

It provides a multi-criterion identifier tool **without** establishing physical contact, thus protecting venue staff. The information is measured from three feet, enabling safe distance between the operator and the subject. Each individual passing through a screening access location is positioned in front of the Tamar and the measurement process is initiated by a remote operator. The system quickly and reliably determines the results and displays them graphical and digitally on the operator screen. This provides a fast and efficient way to have the individual “SKIP” (can proceed on –accelerating the process) or “NOT SKIP” (Individual should proceed to the regular questioning process).

## TAMAR Components

The TAMAR solution is portable and can be easily set up within several minutes. The solution comprises:

**Civilian 24 GHz Radar Sensor** - a compact, lightweight Doppler radar which monitors and measures heart and respiratory rates. The sensor transmits at very low power, complies with CE & FCC regulation and safety standard IEEE C95.1 guaranteeing protection to the subject and operator.

**Thermal Camera System** - a COTS thermal imaging camera with Blackbody Automated Calibration Source that separately measures the temperature of different parts of the body.

**Operator workstation** - hosts the TAMAR application which interfaces to the sensors. The application performs the screening using AI algorithms and manages the solution. The application utilizes an open architecture to allow additional systems to be integrated upon request.



## Benefits

- Noncontact operation
- Automatic and AI
- Very safe and accurate
- Lightweight & portable



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