

## THERMAL MATRIX IP-500

### *Adds Capability and Detection to Infrared Sensors*

**THE IP-500 IS AN ADD-ON COMPONENT THAT CAN BE TRANSPARENTLY INTEGRATED INTO EXISTING INFRARED DETECTION SYSTEMS, GREATLY INCREASING THE ABILITY OF IR SENSORS TO DETECT, IN REAL TIME, PBIEDS (PERSON BORNE IMPROVISED EXPLOSIVE DEVICES).**

**THIS INCLUDES DETECTION OF PLASTIC, LIQUID, POWDER AND GEL EXPLOSIVES COMMONLY USED BY SUICIDE BOMBERS, HIDDEN BENEATH CLOTHING.**



**THERMAL MATRIX IP-500**  
 is ultra small and lightweight,  
 measures 7"x 5.5"x 2.5"

THERMAL MATRIX INTERNATIONAL (TMI) is a leading researcher and developer of PBIED (Person-Borne Improvised Explosive Device) threat detection technology, and has been working in conjunction with the US Department of Defense since 2005.

TMI'S IP-500 now brings the same exclusive threat detection capability developed for military, law enforcement, and commercial security entities that do not require additional purchase of infrared sensors and/or monitor systems. ACT ADVANCED can seamlessly integrate threat detection into a wide range of mid and long-wave IR sensors.. Without the need to purchase additional hardware, TM threat detection can add real-time, standoff threat detection, indoors and outside, at a greatly reduced cost.

#### **FEATURES:**

- ✓ **ASSISTED THREAT DETECTION, TARGET TRACKING, IMAGE ENHANCEMENT.**
- ✓ **SUPPORTS COMPATIBLE MID-WAVE AND LONG-WAVE INFRARED SENSORS.**
- ✓ **WIRELESS CONNECTIVITY AND SIGNAL EXPORT.**
- ✓ **CONTINUOUS ELECTRONIC ZOOM.**
- ✓ **SPLIT SCREEN MULTI-IMAGE (LIVE INFRARED + CCTV).**



#### **BENEFITS:**

- ✓ **REAL TIME DETECTION OF CONCEALED WEAPONS, EXPLOSIVES, CONTRABAND.**
- ✓ **COST EFFECTIVE THREAT DETECTION BY ADDING CAPABILITY TO EXISTING IR SENSORS AND HARDWARE.**
- ✓ **STANDOFF CAPABILITY TO SEE SUSPECTS BEFORE THEY REACH THEIR TARGET.**
- ✓ **NO RADIATION EMITTED.**
- ✓ **NO PRIVACY INVASION.**



TMI'S IP-500 answers a critical need to mitigate operational risk at entry control points, large public gatherings, sporting events, visits of dignitaries and similar permanent or temporary outdoor situations. The system establishes probable cause for questioning, search, and secondary screening. The definitive, objective results of concealed object screening can help decrease concerns of profiling and random sampling.

In addition, the IP-500 meets the increasing need for security expenditures to be cost effective, by augmenting the capability of existing hardware, most notably IR sensors currently in use, without requiring additional expensive purchases.

**IP-500 INCLUDES:**

- 1) **DIAGNOSTICS:** Proprietary Thermal Matrix Threat Detection software that automatically targets and tracks individuals, analyzing and instantaneously providing visual depictions of heat signature anomalies that can be indicative of concealed threat objects. Standoff detection range is dependent on the optics of the IR sensor deployed. IP-500 is not an x-ray, so there is no invasion of privacy concern; the system does not see behind clothing.
- 2) **INPUTS:** Accepts inputs from a wide range of IR systems. IP-500 is designed to transparently integrate with COTS IR sensors, mid and long wave, cooled and un-cooled.
- 3) **SIGNAL EXPORT:** Ability to export signal to various monitors, including
  - a) MRAP monitors
  - b) Computer terminals
  - c) Flat screen televisions and monitors
  - d) Computer tablets including IPADs
  - e) PDAs
  - f) Integration into CCTV systems
- 4) **WIRED OR WIRELESS TRANSMISSION** for application in multiple environments.

