

## T-DAR Mantrap Shield

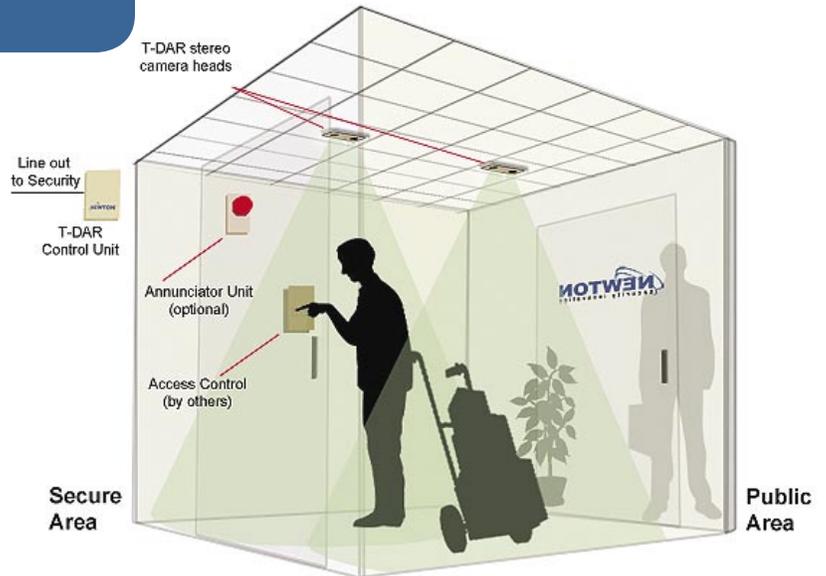
### High Security Anti-Tailgating System

#### Mantrap Shield Benefits:

- **Able to discern humans** from non-human objects within the mantrap.
- **Works with all entry control** systems, including PINs, biometrics and smart ID systems, as well as with electromechanical door locks
- **Adapts to an existing building** and can be integrated into an existing vestibule, small lobby, room or corridor.
- **Simple to install** - no civil works such as the digging up of expensive flooring.
- **Seamless incorporation** into existing, building-wide security systems.
- **Low or no maintenance** - The system has no motors, gearboxes or moving parts to wear out or break
- **No special lighting required**; overhead office-level of 300 lux is sufficient.
- **Allows mixed traffic** - can be used as an entry and egress point for both pedestrian and carts without the need of special staging areas on the floor.
- **It is a stand-alone system** requiring no central monitoring, control or management.
- **Simple controls** via a straight-forward graphical user interface for all operating and communication elements.
- **Eliminates the need** for security personnel at many points within a facility.
- **Return on investment (ROI)** for a mantrap can be rapid.

 All Newton Security products are manufactured in the USA

*Unblinking, 24/7 automated protection*



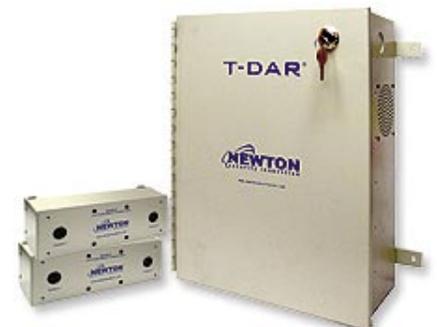
### The Adaptive, Definitive Anti-Tailgating Barrier

**T**he patented, stereo vision T-DAR Mantrap Shield system delivers the highest level of automated anti-tailgating and anti-piggybacking detection when installed in an airlock / mantrap application.

**Mantrap Shield permits the entry of only one authorized person** at a time, while ignoring carts, luggage or parcels in their possession. The system is a totally effective, stand-alone secure solution requiring no outside monitoring, control or management.

**The hardware and software** of the Mantrap Shield system is installed in conjunction with hardware and software of other new or existing entry control systems to create an automated, secure portal enclosed by two or more electronically interlocked doors. Such a high security portal may be a specifically constructed for that purpose within a building, or easily created by retrofitted an existing room or corridor section.

**At the heart of the Mantrap Shield** is T-DAR stereo vision technology which integrates with all entry control systems. T-DAR software sends commands to the interlocking doors, allowing for only one door to be opened at a time. Tailgating or piggybacking attempts are blocked by stereo scanning the mantrap interior to ensure that only one person is in the area before locking the entry door, then releasing the door into the secure area.



#### Basic elements of a Mantrap Shield:

- Control unit - wall mounted
- Stereo camera heads - in sets of 1, 2, 4 or 6 heads, depending upon airlock size

## Examples of T-DAR Mantrap Shield Applications:



New construction of two, side-by-side portals using T-DAR Mantrap Shield systems.

A Mantrap Shield system installed within an existing section of a corridor.

A Mantrap Shield airlock created using an existing small room with two doors

## How Mantrap Shield Works - The Sequence of Operation:

### Example of a normal passage:

- The secure-side airlock door is normally always locked.
- The public-side airlock door is normally always locked.
- When a person accesses the entry control system reader outside of the public door, and is approved, the T-DAR system scans the airlock interior to ensure that it is unoccupied.
- If the area is unoccupied, the T-DAR system will unlock the public door.
- As the person enters the vestibule, the system scans the doorway to determine if more than one person enters.
- If only one person is present, the system then locks the public door after it closes.
- The person will then access the control system reader for the secure-side door and be approved. The Mantrap Shield scans the interior to verify that there is only one person present and then unlocks the secure door.
- The person passes into the secure area and the door closes and locks.
- The Mantrap Shield is now ready for the next passage. ●●●

### T-DAR registers a violation:

- If the initial scan detects more than one person entering the vestibule, an electronic alarm signal is sent to security and the door to the secure area remains locked
- If the optional Annunciator unit is part of the system, a red warning light flashes and an audible alarm is accompanied by a recorded message instructing all to exit to the outside and for only one person to initiate the entry process again.
- After all persons have left the vestibule through the public door the system will reset after 10 seconds. ●●●

### Mantrap Shield is multidirectional :

- There are two optional modes of operation on egress for the T-DAR Mantrap Shield. The system will operate as a multidirectional tailgate system or as a uni-directional system.
- As a multi-directional system, Mantrap Shield prevents tailgating both on entry, as well as on egress. The passage cycle on egress is similar to the entry procedure.
- As a uni-directional system, Mantrap Shield prevents tailgating on entry, but will allow multiple people to egress the vestibule without alarming. ●●●

## T-DAR Mantrap Shield Optional Components:



### Annunciator

Generally installed within the mantrap, the Annunciator features a red strobe, a buzzer, and audible prerecorded instructions.



### Door Position Encoder

The Encoder tracks the position of an in-swinging mantrap door under a camera so T-DAR ignores the door.

### Cable Extender/Amplifier

This unit extends the distance that the T-DAR Control Unit can be placed from the mantrap. A Cable Extender is required for distances greater than 200 ft. (61m).



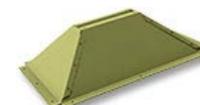
### Stereo Camera Mounting Kit

It provides support and positioning for a stereo camera head in a standard, drop-ceiling grid.



### Wall Mounting Bracket

For mounting a camera head out from a flat wall and for locations where mantrap ceiling height is in excess of 11 feet (3.35 M).



### Ceiling Height Extender

This raises the mounting height of a camera head. Where mantrap ceilings are lower than 8.5 feet (2.6 m) a Ceiling Height Extender is required.