

# **T-DAR Mantrap Installation Checklist**

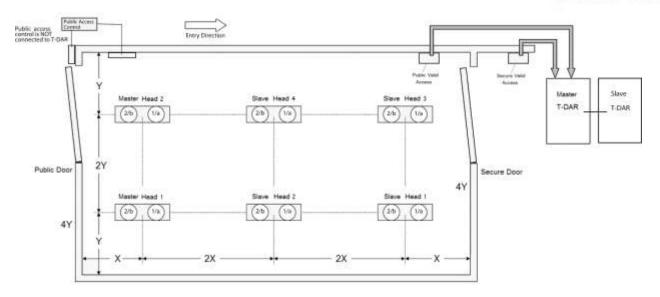
To be completed before commissioning

#### Model T6010MT Six-Head

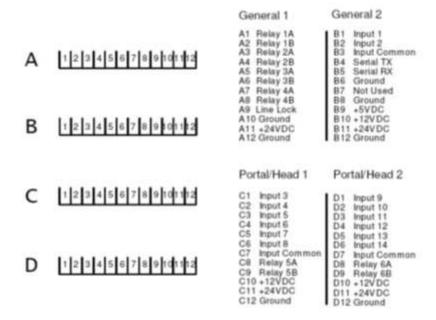




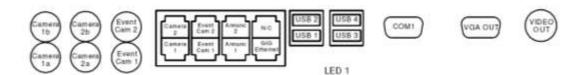




### **T-DAR Control Box Front Panel Connections**



#### **Upper Front Panel Connections**





## **T-DAR Six-Head Mantrap Installation Checklist**

An incorrectly wired T-DAR system, faulty connection, or bugs in access control programming will often not show up until the completion date of the project. Failure to finish the following installation procedures before the setup period may extend the completion date of the project. This check list is used to confirm completion of T-DAR installation for a six-head mantrap system which generally features over-sized single doors or double-door units to pass between public and secure areas. Successfully completing these procedures serves to confirm proper installation so that system setup may proceed. This list must be completed, signed and dated before commissioning by either a Newton Engineer or a trained and approved engineer.

dated before commissioning by earlier a Newton Engineer of a framed and approved engineer.
1. No modifications on the T-DAR control box have occurred before or during the installation.
2. <b>IMPORTANT:</b> There should be no direct sunlight into the mantrap at any time.
<ul> <li>Mantrap dimensions:</li> <li>For ceiling height that is between 8 ft. (2.46 m) and 9 ft. (2.77 m), the length and width of the mantrap should not exceed 9 ft. (2.77 m) by 14 ft. (4.25 m).</li> <li>For ceiling height that is between 9 ft. (2.77 m) and 11 ft. (3.38 m) the length and width of the mantrap should not exceed 10 ft. (3.08 m) by 15 ft (4.57 m).</li> </ul>
<ol> <li>Confirm that camera heads are at the same height, parallel to the floor and square with one another.</li> </ol>
5. If the camera head height is between 8 ft. (2.44 m) and 10 ft (3.05 m) a 1.9 lens is required.  OR  If the camera head height is between 10 ft. (3.05 m) and 11 ft. (3.35 m) a 2.5 lens is required.
<ol> <li>If the public single-door or double-door unit opens into the mantrap, a door encoder(s) will be required. For inward swinging public doors, confirm that they are equipped with door closers that automatically close in a slow consistent manner and are not allowed to open more than 100 degrees.</li> </ol>
7. Camera head units each contain two cameras which are labeled "1" (or "a") and "2" (or "b"). Verify that the camera heads are positioned as shown in the diagram on page 2 and that the "1" (or "a") end of each camera head is positioned toward the <b>secure side</b> of the mantrap.
<ul> <li>8. Project Photographs - When construction of the mantrap is complete and the answers to questions #1 through #7 are confirmed as correct, then shoot a minimum of eight, specific photos from inside and adjacent to the mantrap and send them to T-DAR set-up personnel: <ul> <li>a. With your back to the public door, take photos of the ceiling, the floor, and the secure door.</li> <li>b. With your back to the secure door, take photos of the ceiling, the floor, and the public door.</li> <li>c. Additionally, send at least two pictures of the location and opened front of the Master T-DAR control unit showing all input/output wires terminated at the green Phoenix connectors.</li> </ul> </li> </ul>
9. Ensure that the light level is at least 300LUX (downward light measurement) at all points under the camera heads. Take measurements at 40 inches (1m) above the floor.
10. Master camera heads 1 and 2 are connected to the T-DAR Master Control unit. Cameras "a" and "b" on master heads 1 and 2 are to be connected to ports "a" and "b" of the master unit. In addition, connect camera sync cables (Cat5) to the Camera 1 port for Head 1 and the Camera 2 port for Head 2.
11. Camera heads 3 through 6 are connected to the T-DAR Slave Control unit. Cameras 'a' and 'b', in heads 1, 2, 3, and 4 should be connected to the BNC ports on the slave control box. Six of these eight BNC ports are located on the top left of the slave unit and the remaining two BNC ports are located on an external BNC adaptor box. In addition, connect four camera sync cables (Cat5) to the

Cat5 ports of the T-DAR slave unit, labeled "Cam 1", "Cam 2", "Event Cam 1" and "Event Cam 2.



For steps 12 through 22, link a PC to the T-DAR control unit using an Ethernet connection. Once established, connect to the control box using the T-DAR User Interface (UI) application. The status "Connected" should be displayed at the bottom of the user interface. Connect a video or VGA monitor to the video-out or VGA port of the T-DAR control unit.

	Connected" should be displayed at to onitor to the video-out or VGA port		
1	Demo" section, indicating Public Do the dropdown menu and observe to that these images are motionless, of Door from the dropdown menu and	oor, Secure Door, portal wo separate images on the clear, and that they are not verify the images are me	re is a drop-down menu in the "Display 1, 2, 3, and 4. Select Secure Door from the lower half of the video monitor. Verify ot shifted up or down. Select Public optionless, clear, and that they are not der of the cameras in the drop-down
Se	elect "Show I/O" on the "Monitor" ta	b of the user interface.	
1		play of the monitor. If the	ublic door closes, Input #4 changes from public side is a double-door unit, then d.
1	granted (access grant signal from i	nside mantrap), Input #5 If the secure side is a do	the Secure Door Public Valid Access is changes from red to green on the uble-door unit, then Input #5 should only
1	<ol> <li>For the secure door-contact. Ter from red to green on the input/outp then Input #6 should only show green</li> </ol>	ut display of the monitor.	If the secure side is a double-door unit,
1	<ol> <li>For Secure Door Secure Valid. T granted (signal from outside mantra the input/output display of the monit</li> </ol>	ap on the secure side), Ir	Secure Door Secure Valid request is aput #3 changes from red to green on
1	and #8 oscillate red and green on t	he input/output display of t, Inputs #13 and #14 sh	ging public doors, be sure that Inputs #7 f the monitor, during door movement. If buld also oscillate red and green on the
1			rvisor Override indicator activates (when een on the monitor input/output display.
1	locking signals to either of these do	oors. If there is a delay in the door will be able to b	nmediately when the T-DAR unit sends lock engagement on the public door be pushed open during the interlock elay in its locking process.
	<ol> <li>Verify that an alarm output line exteriors Relay #5 (pins C8 and C9).</li> </ol>	ends to the building secu	rity center and that this line is connected
		or, in parallel (independe ystem locks it. <b>NOTE: Er</b>	
2	<ol> <li>Ensure the Public Valid (public read side.</li> </ol>	der) has been placed und	der the four slave cameras on the secure
	<ol> <li>If the mantrap lighting is 60Hz or be Lock and ground (A9 and A10). Th both T-DAR control units, if necess</li> </ol>	is signal can range from	ock signal is connected across Line 6-30VAC. Ensure this is performed on
	I confirm that I have verified all items or	n this check list and that th	is T-DAR system is ready for commissioning.
	Name:	Date:	Location: