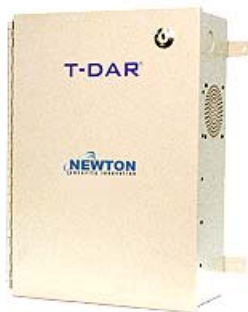
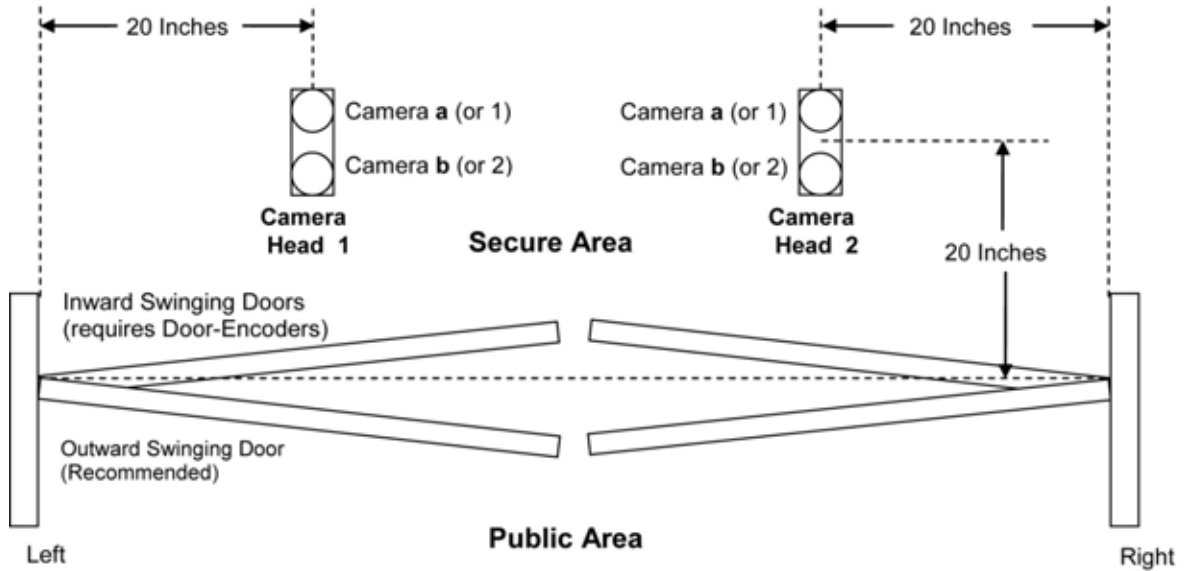


T-DAR Double-Door Installation Checklist

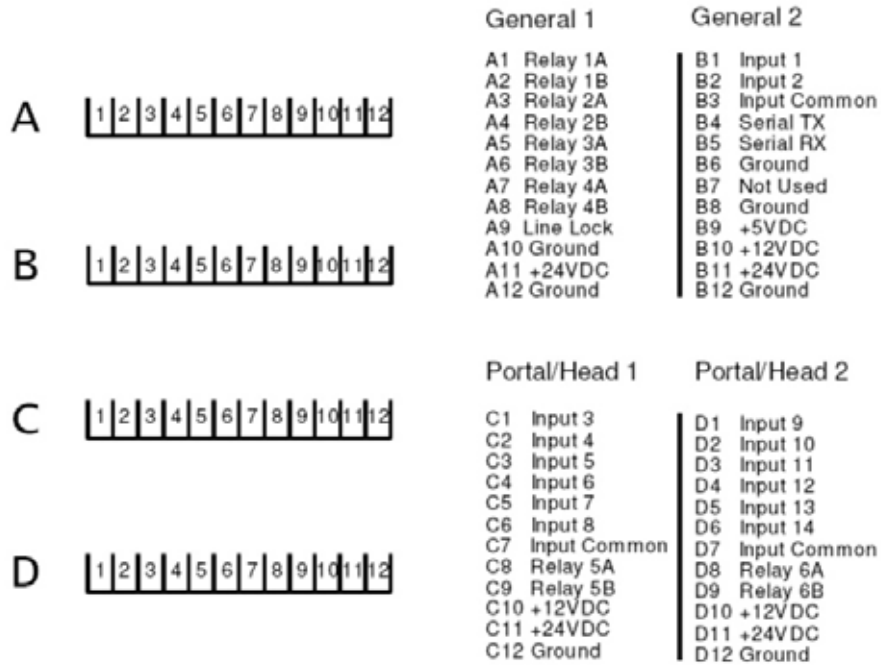
To be completed before commissioning



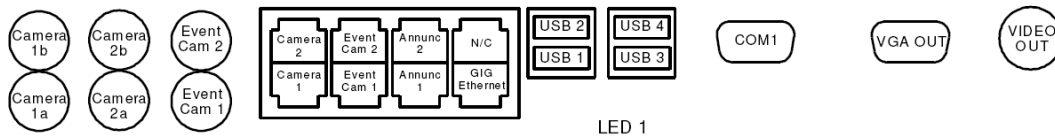
Double Door Set-Up – Top View



T-DAR Control Box Front Panel Connections



Upper Front Panel Connections



T-DAR Double-Door 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 double-door system. 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.

- 1. **No modifications on the T-DAR control box have occurred before or during the installation.**
 - 2. **Project Photographs** - As soon as the T-DAR system is installed at a doorway, shoot and send photos to T-DAR setup personnel.
 - a. Photos from the secure side should be taken of the ceiling, floor, and doors.
 - b. Send at least two pictures of the location and opened front of the T-DAR control unit showing all input/output wires terminated at the green Phoenix connectors.
 - 3. Ensure that the light level is at least 300LUX (downward light measurement) at all points under the camera heads. Take measurements at 40 inches (1metre) above the floor in a 2.5 ft. (760mm) radius centered on each camera head.
 - 4. Verify that all camera heads in the system are higher than eight feet (2.46 meters), but less than 11 feet (3.38 meters) above the floor and that the head(s) is parallel to the floor.
 - 5. Verify that each camera head is precisely positioned as shown in the diagram on page two. Especially note that Camera 1 (or "a") on each camera head in the system is positioned away from the door it is covering.
 - 6. Verify that the valid access signal from the access control system occurs at the same time or before the door is unlocked, to allow an entry, and has duration of at least 300 milliseconds.
 - 7. Confirm that each camera head in the installation is connected to the T-DAR control unit. Cameras "a" and "b", on each head are to be connected to Ports A and B of the control box. In addition, connect camera sync cables (Cat5) to the Camera 1 port for Head 1 of the T-DAR control unit.
- For steps 8 through 12, 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 monitor to the video-out port of the T-DAR control unit.**
- 8. Click the "Monitor" tab of the user interface to set the video output. There is a drop-down menu in the "Display Demo" section, indicating Door 1 and Door 2. Select the first door from the dropdown menu and observe two separate images on the lower half of the video monitor. Verify that these images are still, clear, and that they are not shifted up or down. Select the second door from the dropdown menu and verify the images are still, clear, and that they are not shifted up or down.

Select "Show I/O" on the "Monitor" tab of the user interface.

- 9. **For the door-contact.** Test and verify that as both doors close Input #3 changes from red to green on the input/output display of the monitor. If one door is closed and one is open, Input 3 is red.
- 10. **For Public Valid Access.** Test and verify that as the Valid Access request is granted, Input #4 changes from red to green on the input/output display of the monitor.
- 11. **For Supervisor Over-Ride** (portal reset). Test and verify that as the Supervisor Override indicator is activated (when override button is pressed), Input #1 change from red to green on the input/output display of the monitor.
- 12. **In-Swinging Door Encoder.** When installing door encoders (required on all inward swinging doors), one door will be wired to Inputs #7 and #8, and the other door will be wired to Inputs #13 and #14. Be sure that when each door is moved, the paired inputs corresponding to that door oscillate red and green on the input/output display of the monitor.
- 13. For inward swinging doors, confirm that they are equipped with door closers that automatically close in a slow consistent manner and that either door is not allowed to open more than 100 degrees.
- 14. If the lighting above the doorway is provided by low frequency florescent fixtures operating at 60Hz or less, verify that a low-voltage, AC transformer has been installed and connected to the Line Lock and Ground terminals (A9 and A10) in the T-DAR control box. The Line Lock transformer voltage should be 6-30VAC.
- 15. Ensure that there is at least six inches (15.24 cm) between each T-DAR and any other physical barrier for proper ventilation.
- 16. Verify that an alarm output line extends to the building security center and the line is connected across Relay #5 (pins C8 and C9). Relay #6 (pins D8 and D9) is available for secondary alarm situations.

I confirm that I have checked and verified these 16 items and that the proper installation of this T-DAR system is complete and ready for the commissioning process.

Name: _____ Date: _____

T-DAR Project Name: _____