

## **INSTALLATION:**

### Tools, Equipment, & Material Required:

- General hand tools, screwdrivers, etc.
- Tape Measure, pencil/marker
- Drill with drill bit set
- Fish sticks/tape for routing cables (if necessary)
- Cable ties for bundling cables and strain relief
- Protective equipment such as safety glasses.



- Check the packing list! Verify you have received everything listed.
- Survey the premises with store manager to determine the optimal mounting location for the ZOOM Nitro. Take into consideration:
- User accessibility

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- Appropriate space for mounting all system components
- Proximity to a power outlet
- Cable lengths required between connections
- Clearance from obstructions like electrical and plumbing obstructions when drilling
- Mount the system high enough on a wall to be out of the way but still visible/accessible.

Remove (if attached) and discard the monitor base stand (see Fig1.2).



# ZOOM Nitro<sup>™</sup> QUICK REFERENCE INSTALLATION GUIDE

- Mount the monitor bracket to the wall. To do this, find an appropriate location (preferably along a stud if wall construction is a wood stud frame).
  - Hold the wallplate level against the wall, and mark the wall through the two mounting holes.
  - Drill holes at the marked locations.
  - Mount the bracket to the wall using the necessary hardware (screws and wall anchors or toggle bolts if necessary); see Fig. 1.3.



Attach the monitor to the faceplate with the provided hardware (see Fig. 1.4).

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6 Attach the CU to the CU wallplate using the provided hardware (see Fig. 1.5).



Fig. 1.5

- Mount the CU on the wall.
- Hold the plated CU against the wall, and mark the wall through the four outside mounting holes.
- Drill holes at the marked locations.
- Mount the plated CU to the wall using the necessary hardware (screws and wall anchors if necessary); see Fig. 1.6

**Note**: The HME Sales and Service sticker should be right side up.



Connect the cables (reference Fig. 1.7 for each step):

- 1. Connect the network cable to the network port (verify it is also connected at the network router end).
- 2. Connect a mouse (and keyboard if desired) to the USB port (see all connections in the following diagram).
- 3. Connect the HDMI cable for the primary monitor to the port labeled HDMI 1.
- 4. Connect the power adapter.

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**Note**: HDMI 2 is for the Drive-Thru Leaderboard display (if desired). Remove port cap to access.



Fig. 1.7

Connect the power cable and the HDMI cable to the monitor (see Fig. 1.8). Connect the other end of the power cable to an electrical outlet.



PUB-00066 Rev A 02/16/21

### **10** Mount the TSP60 through the three mounting holes at the rear of the unit. The two lower holes can be accessed by opening the lower front cover of the housing. The latch is magnetic, and finger tabs allow you to grip the cover edge on both sides. Pull away from the housing to open (see

Fig. 2.1).

- Use the TSP Template image on the last page of this guide to punch through and mark all three mounting holes on the wall (the top hole cannot be accessed through the TSP housing).
- Drill three holes at the marked locations.
- Install the provided hardware (screws and • wall anchors if necessary) but do not tighten. Leave a gap (~  $^{1}/8$ th inch (3.2 mm)) between the screw heads and wall.



- Align the mounting holes to the screw heads. •
- Mount the TSP60 over all three screw heads until flush against the wall, then slide it down onto the screws to secure it in place.

**11** Route and terminate component cables to the TSP60 through the opening on the rear housing. Refer to the TSP Wiring Connections and Fig. 3.1 on page 3 while following these bullet-point instructions.

• Base Station cable to the TSP: Connect the three wires to the J1 connector: Green = GRT1, White = GRT1; Ground/Shield wire = GND (see Fig. 2.2). These GRT1 connections are polarized, so if for example, the Green wire is connected to the +ve Outside Spkr terminal on the Base Station, it must likewise be connected to the + terminal on the TSP. The White wire would, therefore, connect to - ve terminal on both ends. Connect the remaining Red and Black wires to one of the Detector inputs on J2 of the TSP (there are four inputs available). If Red is the signal wire on the Base Station, it connects to EXT IN on J2 of the TSP. While Black, if ground, connects to GND on J2 of the TSP (see example in Fig. 2.2). For stores with another menu (e.g., a Y-Lane). Repeat this step (for Greet 2 and Menu 2) and connect to GRT2 of J1 and to another one of the Detector Inputs on J2 of the TSP.



Fig. 2.2

### • Connecting Loop Detectors:

After the Base Station has been connected to the TSP, connect the first loop detector cable to the LOOP1 connector (J4) of the TSP using Red and Black wires. These may be connected in any order (see Fig. 2.3). Any additional loops after the menu point, such as a pickup window or a pull-forward spot, can be connected to LOOP2, 3, and 4 connectors (J5, J6, and J7), respectively.

- Note: Activation is required to use LOOP2 4
- Connecting the USB cable: Connect the USB type B end to the TSP60. Connect the other end to the Black (bottom) USB port on the front panel of the CU60. The TSP60 turns on automatically when the CU60 is powered on (see Fig. 2.3).



### Fig. 2.3

Use cable ties and the strain relief holes on the TSP60 rear housing to bundle and strain relief the cables exiting the unit at the rear. **73** Turn on the monitor using the power button.

### **14** The ZOOM Nitro screen:

- When you first boot up the system, the Installation Wizard screen appears (see Fig. 2.4).
- The Installation Wizard walks you through several screens. Fill in the required information to progress to the next screen. For example, on the second screen, you must scroll through and read EULA page and click on the Agree button to advance to the next screen. When you reach the Network Settings screen, enable "DHCP" to auto-populate the fields. Finally, a Congratulations prompt completes the Installation Wizard; click Done to exit. The Dashboard now appears.
- Click the menu icon in the Dashboard's upper left corner, choose the SECURITY option, and log in as the Installer.
- Use the CAR DETECTION SETTINGS option to configure system to the store's layout. Use the STORE and DASHBOARD SETTINGS options to customize the system further based on the customer's preference.

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We	elcomet	the Z	OOM Ni	tro Insta	Illation	Wizard	
This installation wizard will help you to configure key settings on your ZOOM Nitro timer system. You may start by accepting the End-User license agreement, entering you store specific deality, and figuring your methods settings, and registering to HME CLOUD so those snapshot settings may be applied to your device.							
			Next				
			Fig. 2	2.4			

- Your system is now ready for use.
- Refer to the ZOOM Nitro User's Guide for details on how to use the system.
- If there are any installation issues, call HME Technical Support at 1.800.848.4468.

# **TSP WIRING CONNECTIONS**

J1 Greet Inputs		
Pin #	Label	Description/wire color
1	GREET1+	+ve (Green?) Outside Mic/Speaker wire from Base Station
2	GREET1-	-ve (White?) Outside Mic/Speaker wire from Base Station
3	GREET2+	
4	GREET2-	
5	GND	Gray/Shield Mic/Speaker wire from Base Station
6	/ALT_GREET1	
7	/ALT_GREET2	
8	GND	

J1 supports two greet signal inputs from the Base Station. Standard greet signals received from the audio lines (speakers) are terminated at GREET1 and GREET2 inputs. The ALT GREET 1 & 2 inputs are for digital inputs from other sources, such as using a headset button. Two greet signals is the maximum supported at the same time. Both can be from the same source or can be a combination of two sources such as GREET1 and ALT GREET2.

J2 External Detector Inputs			
Pin #	Label	Description/wire color	
1	EXT_IN1/RLY_NO	+ve (Red?) Menu Det. wire from Base Station	
2	GND/RLY_COM	GND (Black?) Menu Det. wire from Base Station	
3	EXT_IN2/RLY_NO		
4	GND/RLY_COM		
5	EXT_IN3/RLY_NO		
6	GND/RLY_COM		
7	EXT_IN4/RLY_NO		
8	GND/RLY_COM		

J2 supports up to four external detector inputs. These include both relay closure and logic-level signal inputs in support of non-HME, wireless or generic detectors, including positive polarity signal compatibility.



PCBA SN Label: This serial number identifies the TSP60 if more than one is used. It can be found under TSP SETTINGS>TSP60 on the ZOOM Nitro display (see Fig. 3.2).



J3 Vehicle Detection Output				
Pin #	Label	Description/wire color		
1	VEH_DET_OUT1	Output signal from LOOP5 (at J1)		
2	VEH_DET_OUT2	Output signal from LOOP6 (at J2)		
3	VEH_DET_OUT3	Output signal from LOOP7 (at J3)		
4	VEH_DET_OUT4	Output signal from LOOP8 (at J4)		
5	GND			
6	GND			

J3 is for Vehicle Detection outputs to the Base Station to support menu detection in the absence of an external VDB. These outputs are from the four Onboard detectors.

J4, J5, J6, J7 Onboard Detector Inputs				
Pin #	Label	Description/wire color		
J4-1	Loop 5 +ve	Menu point/first detector loop in Lane		
J4-2	Loop 5 -ve			
J5-1	Loop 6 +ve	Additional loop after first detection point		
J5-2	Loop 6 -ve			
J6-1	Loop 7 +ve	Additional loop after first detection point		
J6-2	Loop 7 -ve			
J7-1	Loop 8 +ve	Additional loop after first detection point		
J7-2	Loop 8 -ve			

J4 is the default available onboard VDB for a direct connection. Connect loop/wireless detector input here.

In addition to accepting a direct detector connection, these inputs (J4 - J7) can also be configured to support both relay closure and logic-level signal inputs.

J5 - J7 requires activation to use (call HME at the phone number at the end of this guide for details).

A copy of this guide and much more including User Guides, Regulatory, Compliance, and Safety information can be found by scanning this QR code. or going to: https://www.hme.com/qsr/drive-thru-user-manuals/



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TSP60 TEMPLATE FOR MOUNTING HARDWARE This way up



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