



# OmniTouch 7™ Touchscreen 7" Color Touchscreen

Installation Guide

WEBSITE VERSION - ENGLISH

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## SPECIFICATIONS

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### Size:

Mounting Bracket Cutout:	6.125" W x 4.625" H
Overall Dimensions:	7.375" W x 5.25" H x 0.55" D
LCD View Area:	7" diagonal

### Display:

Resolution:	800x480
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### Voltage:

Operating Voltage (PoE):	42 - 57 VDC
Nominal Voltage (PoE):	48 VDC
Nominal Voltage (Aux):	12 VDC

### Power:

Power Consumption:	5.4 Watts, maximum
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## DESCRIPTION

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The Model 99A00 OmniTouch 7 Touchscreen with Video is a colorful network touchscreen interface for Leviton Security & Automation controllers. The OmniTouch 7 features graphics for control of lights and small appliances, to monitor and adjust security and temperatures, pool and spa settings, ventilation, audio distribution, home theater equipment, surveillance video, and other essential elements controlled by a Leviton home automation system.

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## PLANNING

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The OmniTouch 7 is an IEEE 802.3af compliant Power over Ethernet (PoE) Powered Device (PD). The OmniTouch 7 receives its power over the same cable that connects the OmniTouch 7 to the network, using a Power Sourcing Equipment (PSE) device, such as a PoE network switch, hub, or power injector.

It is very important to plan where the OmniTouch 7 Touchscreen will be installed. Each OmniTouch 7 Touchscreen must be installed within 100 meters (328 feet) of a Power Sourcing Equipment (PSE) device.

In selecting a place to mount the touchscreen, be sure to avoid an area where studs, plumbing, or electrical wiring may be located behind the wallboard. Use a stud finder or probe to locate a suitable mounting position. The mounting area should be at least 2" deep. It should be mounted so that the display is at or slightly below eye level.

### **Wiring Requirements**

When connecting an OmniTouch 7 to the network, a Cat-5 (4-pair) cable is required for operation. Run the Cat-5 cable between the location of the PoE network switch, hub, or power injector and the location of the OmniTouch 7.

The maximum distance between the Power Sourcing Equipment (PSE) device and the OmniTouch 7 and is 100 meters (328 feet). Terminate both ends of the Cat-5 cable with 8-position modular connectors to make a standard straight through network patch cable.

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# INSTALLATION

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## 1) Make the cutout for the touchscreen

Tape the template (Installation Template for OmniTouch 7 Touchscreen) onto the wall, ensuring that it is level and plumb.

Use a sharp utility knife to cut along the 4 straight dotted lines on the template. This will score the wall surface below and transfer the template outline to the wall.

Remove the template and CAREFULLY cut through the wall material along the inside of the scored line. Remember – it is always easier to make the hole larger than it is to put back material that has been removed!

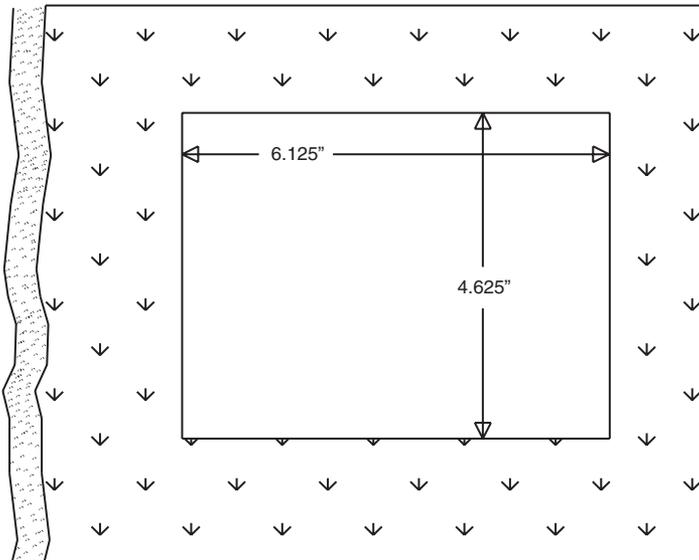


Figure 1

## 2) Install the mounting bracket into the cutout

- a. Insert the mounting bracket into the wall cutout with the flanges (marked "A" in Figure 2) at the bottom and retention clips (marked "B" in Figure 2) rotated to the interior of the bracket as shown.

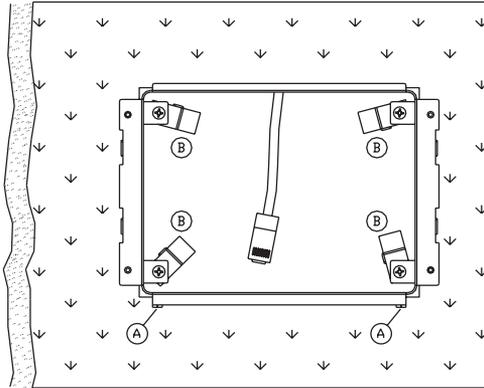


Figure 2

- b. Rotate each of the retention clips clockwise (as shown in Figure 3) so that the clip grasps the back of the wallboard and the clip stop comes to rest.

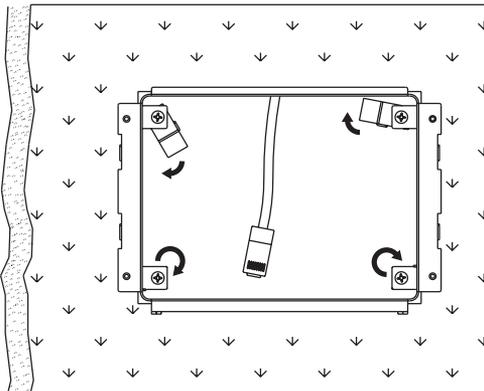


Figure 3

- c. Tighten the retention clip screws by turning clockwise.

### 3) Installing the touchscreen

- a. Insert the 8-position modular cable (marked "A" in Figure 4) into the RJ-45 connector (LAN/POE) on the touchscreen (marked "A" in Figure 5).
- b. Align the tabs on the mounting bracket (marked "B" in Figure 4) with the slots on the touchscreen (marked "B" in Figure 5). Attach the touchscreen to the mounting bracket by inserting the tabs on the bracket into the mating slots on the touchscreen and then gently pushing downward to lock into place.

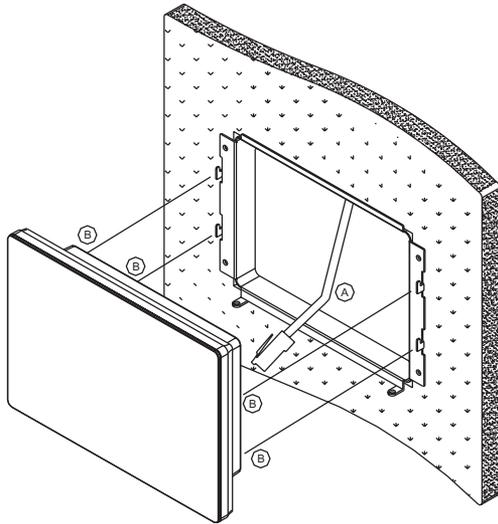


Figure 4

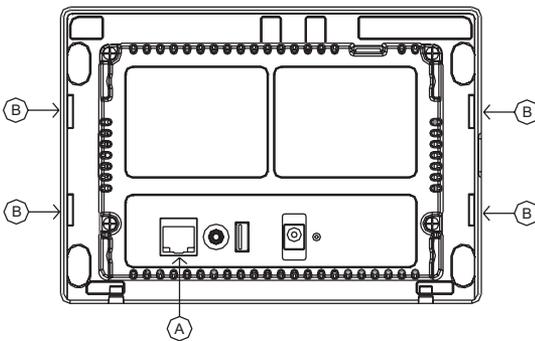
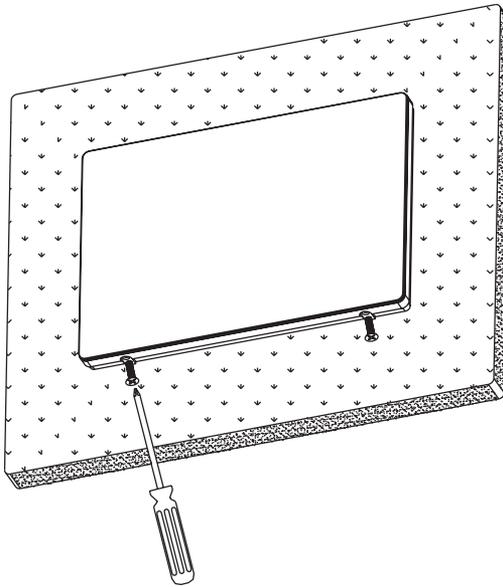


Figure 5

- c. Secure the touchscreen to the mounting bracket flanges using the provided screws.



**Figure 6**

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## **REMOVING THE TOUCHSCREEN**

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After installation, if it is necessary to remove the touchscreen from the wall:

- a) Remove the screws that secure the touchscreen to the mounting bracket.
- b) Push the touchscreen upward and then lift it away from the wall.

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## CONFIGURING THE TOUCHSCREEN

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When power is first connected to the OmniTouch 7 touchscreen, if the touchscreen hasn't previously been configured to communicate with the Leviton controller, the touchscreen Controller Settings screen is displayed.

The IP address of the OmniTouch7 is displayed next to "Touchscreen IP".

Use the keyboard to enter the data in each of the edit boxes:

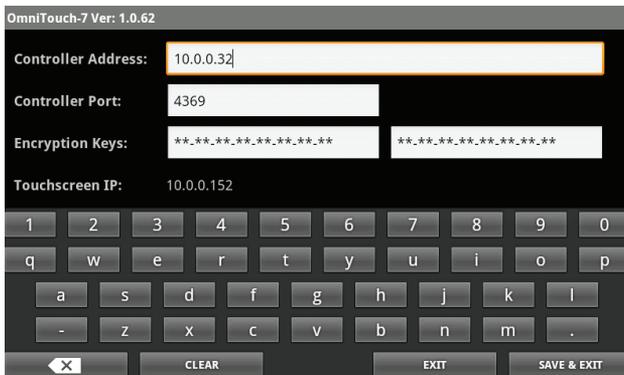
- After all controller connection settings have been entered and confirmed, press the "Save & Exit" button to save the settings and connect to the controller.
- Use the "Exit" button to exit the Controller Settings screen without saving any changes that were made.
- Use the "Clear" button to clear all of the content in the currently selected edit box.

### Controller Settings

To connect the OmniTouch 7 to a Leviton controller, enter the Leviton controller network connection information:

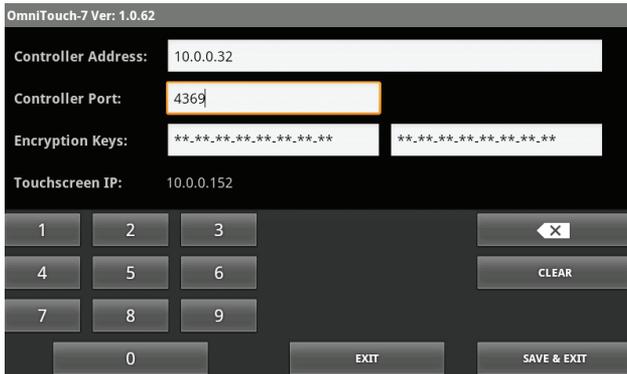
1. Touch the edit box to the right of "Controller Address:" and enter the IP address or hostname of the Leviton controller by pressing the respective keys on the keyboard.

The controller's local network IP address or hostname is used to identify the Leviton controller on the network. The format of the IP address is a numeric address entered as four numbers separated by periods.



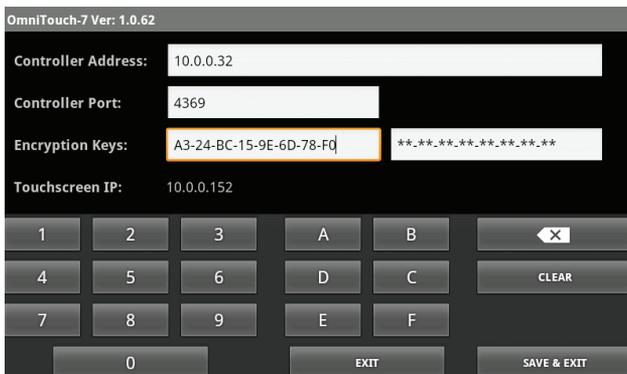
2. Touch the edit box to the right of "Controller Port:" and enter the port number of the Leviton controller by pressing the respective keys on the keyboard.

The controller's local network port number identifies the logical channel to the Leviton controller. In most installations, the default port number of "4369" can remain the same. Port numbers range from 0 to 65535.



3. Touch the first edit box to the right of "Encryption Keys:" and enter Encryption Key 1 for the Leviton controller by pressing the respective keys on the keyboard.

The Encryption Keys are used to encrypt and decrypt the data between the Leviton controller and the OmniTouch 7. This key consists of 16 bytes (16 2-digit values from 0-9 and/or the letters A-F). It is entered in two parts consisting of 8 bytes (8 2-digit values) in each edit box, with each byte separated by a hyphen.



4. Touch the second edit box to the right of "Encryption Keys:" and enter Encryption Key 2 for the Leviton controller by pressing the respective keys on the keyboard.

The screenshot shows the configuration interface for the OmniTouch-7 device. The title bar indicates the version is 1.0.62. The interface includes the following fields and controls:

- Controller Address:** 10.0.0.32
- Controller Port:** 4369
- Encryption Keys:** A3-24-BC-15-9E-6D-78-F0 and a second empty field with a cursor.
- Touchscreen IP:** 10.0.0.152

At the bottom, there is a numeric keypad (0-9) and function buttons: A, B, C, D, E, F, EXIT, and SAVE & EXIT. A CLEAR button is also present on the right side of the keypad area.

5. After all controller connection settings have been entered and confirmed, press the "Save" button at the bottom right of the screen to save the settings and connect to the Leviton controller.



## FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

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- **OmniPro II and Lumina Pro:** three (3) years from installation or 42 months from manufacture date.
- **OmniLT, Omni Ile, and Lumina:** two (2) years from installation or 30 months from manufacture date.
- **Thermostats, Accessories:** two (2) years from installation or 30 months from manufacture date.
- **Batteries:** Rechargeable batteries in products are warranted for ninety (90) days from date of purchase. **Note:** Primary (non-rechargeable) batteries shipped in products are not warranted.

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