7" Wall-Mount Touch Screen Installation Guide

Supported Models
- C4-TSWM7-E-B (Wall-Mount Touch Screen, Ethernet)
- C4-TSWM7-EG-B (Wall-Mount Touch Screen, WiFi and Ethernet)

What’s in the Box
Carefully unpack the Control4® contents from the box, and make sure the following items are included in the box. If any item is missing or damaged, please contact your Control4® Reseller immediately.

- 7" Wall-Mount Touch Screen
- 7" Wall-Mount Touch Screen Installation Guide (this document)
- Two (2) sheet metal screws (1/2-inch) for attachment to a plastic wall box.
- AC power adapter (brick-style)
- Three (3) mini nuts
- Three (3) wire nuts
- Three (3) 12-gauge or 14-gauge electrical wire long enough to pull between the 7" Touch Screen and the power source.

Important Safety Instructions
1. Read these instructions and keep these instructions.
2. Head all warnings and follow all instructions.
3. Do not use this apparatus near water.
4. Install in accordance with the manufacturer’s instructions.
5. Install in accordance with all national and local electrical codes.
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7. This product is designed for IT power systems with phase-to-phase voltage 120V or 240V.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not use this apparatus near sources of heat or expose to direct sunlight for an extended period of time.
10. Do not place unit near sources of heat or expose to direct sunlight for an extended period of time.
11. Do not place unit near sources of heat or expose to direct sunlight for an extended period of time.
12. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Accessories
- Control Power Over Ethernet (PoE) Injector (AC-POE1-B)
- Touch Screen Wall Box New Construction, Plastic (C4-NWB7M-P)
- Touch Screen Wall Box Retrofit, Plastic (C4-NWB7R- P)
- Touch Screen Wall Box Retrofit, Metal (C4-NWB7M-M)

Important Safety Instructions

Requirements
To install the Touch Screen, you need the following:
- Home Control system fully installed and configured for the Touch Screen.
- Control4® Touch Screen wall mount fixture installed.
- Control 7" Touch Screen wall mount fixture installed.
- Control Power Over Ethernet (PoE) Injector available.
- S20 cable power supply.
- S20 cable power supply.
- Option(s) An amplifier or amplifier needs to be installed.
- Option(s) Any RCA cables required to connect the Touch Screen and the amplifier or amplifier.
- Option(s) For Ethernet model using PoE power only:
  - An Ethernet network installed and available that includes a gateway/router switch.
  - A Firewall on the Touch Screen to prevent unauthorized access.
- Option(s) For Ethernet Model using AC power only:
  - An Ethernet network installed and available that includes a gateway/router switch.
  - A Firewall on the Touch Screen to prevent unauthorized access.
- Option(s) For WiFi model using AC power only:
  - A wireless network (WiFi) and Ethernet cable installed and available that includes a wireless access point (WAP).
- Option(s) For WiFi model using AC power only:
  - A wireless network (WiFi) and Ethernet cable installed and available that includes a wireless access point (WAP).

Placement, Network Connection, and Power Options
The 7" Wall-Mount Touch Screen offers complete system control in an elegant and sleek design. It is equipped with the Touch Screen, four (4) programmable shortcut buttons, a light sensor, and proximity sensor. Place the Touch Screen in a convenient location at eye level, typically near the entrance of the room, approximately 57 to 61 inches from the floor.

Depending on the Touch Screen model, this device will use either an Ethernet or WiFi connection. The Ethernet model can be powered by PoE or on an AC connection. The WiFi model must use an AC power connection.

Option 1: Ethernet Connection with PoE
PoE injects electrical current into the Ethernet cable using a PoE Injector to provide the Touch Screen with both power and a network connection. To set up your PoE and Ethernet connection, see Figure 1. The Touch Screen works with the Control4® PoE Injector (model #AC-POE1-B).

Option 2: Ethernet Connection with AC
No PoE Injector is needed for Ethernet power with AC power; the Touch Screen is connected directly to the switch. This power connection requires both network and hot connections. See Figure 2. Power the Touch Screen near your gateway/router switch. Pull the Ethernet cable through your wall box to where you want to position your Touch Screen.

Option 3: WiFi Connection with AC
When using WiFi, the Touch Screen gets its power from an AC power source nearby. This power connection requires both network and hot connections. See Figure 3. Place the Touch Screen above a power source, such as an outlet. Ensure you have WiFi in the home.

Wall Box Kit Options
There are four (4) wall box options to install this Touch Screen. Metal and plastic wall boxes are available for new or retrofit installations. The following diagrams show the available wall mounting kits.

FIGURE 4. 7" Wall-Mount Touch Screen Wall Box Kit - New Construction
Plastic model (C4-NWB7-P) Metal model (C4-NWB7-M)

FIGURE 5. 7" Wall-Mount Touch Screen Wall Box Kit - Retrofit
Plastic model (C4-NWB7-P) Metal model (C4-NWB7-M)

Front and Rear Panel Description

Requirements

Front View

1. Display: 7" viewing area, Touch Screen with 800 x 480 resolution TFT.
2. Shortcut buttons (6): For custom programming to initiate an action or sequence of actions.
3. Proximity sensor: Laser sensor that detects movement within two (2) feet of the Touch Screen and turns Touch Screen off.
4. Reset button: Button located under the bezel to reset the Touch Screen.
5. Light sensor: Detects light levels in room for programming purposes.
6. Front Dimensions (H x W): 6” x 8”.1.

Plastic model
Metal model

FIGURE 3. WiFi - Requires AC Power and WAP

FIGURE 2. Ethernet - Requires Connection to Ethernet and AC power

FIGURE 1. Ethernet - Requires Connection to PoE Injector

FIGURE 4. WiFi - Requires AC Power and WAP
For POE: Install a Poe Injector or switch.

a. Connect the Control 4 Poe Injector to a power source, such as an AC outlet, using the power cord (provided with the unit).

b. Connect one of the RJ-45 LAN ports on the gateway/router to the Poe Injector’s LAN port using the RJ-45 Ethernet cable. The STAND BY light on the Poe Injector lights up.

c. Connect the Poe Injector’s PWR LAN-OUT port to the Touch Screen using the RJ-45 Ethernet cable in the wall. The Poe mode LED lights up.

For AC Power:

Connect the wires to the AC power source according to your national and local electrical codes. The steps here denote a typical U.S. installation. Your installation may require alternative wires and the use of a terminal block.

a. If you are using a plastic wall box, attach the ground wire to the ground wire on the plastic box.

b. If you are using a metal wall box, attach the ground wire to the box in the location indicated by the ground or earth symbol. Attach the ground wire on the device to the box, as well.

Connect the AC power cable to the AC power source.

AC Power adapter

Remove the plastic power adapter cover from the back of the Touch Screen by pulling the three (3) pins indicated and rocking the cover as needed to remove it.

Plug the AC power cable into the provided AC power adapter, and then snap the cover over the power adapter.

For Network Communication:

• Poe: The Ethernet network connection is provided by the Poe injector. No additional wiring is needed.

• AC power: Connect the Touch Screen to the RJ-45 LAN ports on the gateway/router using the RJ-45 Ethernet cable.

Warning! If you use a WiFi connection, the WiFi connection must be set up on the back of the Touch Screen Audio Out ports (RCA red and white connectors) to your amplifier or amplified speakers.

With the screws provided, attach the Touch Screen to the base at the top and bottom-right corners of the wall box.

Hook the tabs on the top underside of the faceplate onto the snaps on the top of the Touch Screen. Close the faceplate over the top of the base from top to bottom, ensuring that the buttons are properly aligned.

Calibrate your Touch Screen the first time you use it or anytime the on-screen instruction prompts you to. To do this, use your fingertip to touch the screen firmly and accurately at the point indicated by the crosshairs. Repeat for each of the four (4) subsequent points indicated by the crosshairs.

6. For WiFi only: Connect to a wireless access point (WAP). Ensure that the WiFi connection is established before the Touch Screen works. If the Touch Screen does not work via WiFi, it is recommended to communicate with a Control 4 Controller:

a. Select More > Settings > Network under under

b. Select Enable

c. If you don’t see the network you want, select Other.

d. At Network Name, select to add the SSID or name of the wireless network based on the Control 4 Controller or Installer.

e. Select Connect, note that the IP settings change.

f. The IP address is set to DHCP by default. If you need to set a static IP address instead, complete the following steps:

   g. On the Network page, press Static.

h. Select each box one at a time and type the address, IP Address, Subnet Mask, Default Gateway, Preferred DNS, and Alternate DNS. When all the fields are filled in, type the address, and then press Done.

i. Press OK to return to the Network page.

j. You can now connect to a Control 4 Director running on a Control 4 device on the network.

To configure a screen saver:

1. Use one of the Screen-Saver options available from the More > Settings > Screen Saver menu. (Use a plain paper screen protector, available where hand-held electronic devices are sold) to help guard against scratches.

2. Now that your Touch Screen is physically installed and appearing on the home network, you can add it to the Control 4 System using the Composer software. See the Composer help for information about how to add the Touch Screen and other devices to the Control 4 System.

Regulatory Compliance

This product complies with standards described in this section that were established by North America, Europe, and Australia/New Zealand regulatory bodies.

FCC interference Statement

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 of the following measures:

a. Reorient or relocate the receiving antenna.

b. Increase the separation between the equipment and receiver.

c. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

d. Consult an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003. This equipment is not to be used in any manner that will impair 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 of the following measures:

• AS/NZS 4360: 2003

Warranty


Recycling

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