



Mini Touch Screen Installation Guide

Supported Models

Ethernet Models:

TSE-3.8C1-W (White)
TSE-3.8C1-B (Black)
TSE-3.8C1-A (Almond)

WiFi Models:

TSG-3.8C1-W (White)
TSG-3.8C1-B (Black)
TSG-3.8C1-A (Almond)

Graphical Symbols in this Guide

The following symbols and their descriptions draw your attention to important safe practices and additional information that can help you avoid injury, death, or loss of material or time.

WARNING! This indicates a potentially hazardous situation that, if **not** avoided, may result in death or serious injury. **DO NOT IGNORE A WARNING!**

CAUTION! This indicates a potentially hazardous situation that, if **not** avoided, may result in minor or moderate injury. **DO NOT IGNORE A CAUTION!**

IMPORTANT! This indicates information that will help you avoid damage to your equipment, loss of materials, or loss of time. **PAY ATTENTION TO THESE IMPORTANT STATEMENTS!**

NOTE: This indicates a note on related information about the current topic.

TIP: This indicates a tip that might save you time or effort.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cords, if applicable, from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. If applicable, unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- WARNING!** To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.
- WARNING!** To avoid bodily harm, always contact a Control4-authorized reseller for assistance if any repair or adjustment is required.
- CAUTION!** Do not place unit near sources of heat or expose to direct sunlight for an extended period of time.
- IMPORTANT!** Do not use pens or sharp objects to navigate or make selections on the screen. To select an item or scroll through a list, use either your fingertip or the Select Dial.
- IMPORTANT!** Improper use or installation can cause LOSS/DAMAGE OF PROPERTY.

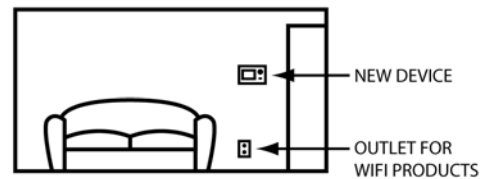
General Description

An essential component in every Control4 system is a user interface and navigation method that allows users to communicate with the system. Along with the Mini Touch Screen, Control4 offers a variety of other navigation options for every room, including the System Remote Control, On-Screen (television), 10.5" Wireless Touch Screen, etc.

The Control4 Mini Touch Screen offers complete system control in an elegant and compact design. The Mini Touch Screen is equipped with the touch screen, an intuitive Select Dial, and a unique programmable shortcut button.

The Mini Touch Screen comes in two models: *Ethernet* and *WiFi*. These two options are described in the following sections.

Mini Touch Screen Placement for both models: Place the Mini Touch Screen in a convenient location at eye level, typically near the entrance of the room, approximately 57 to 61 inches from the floor. Note that for the Wireless model, you need to place it near a power source, such as at an outlet, or be able to route AC power to it.

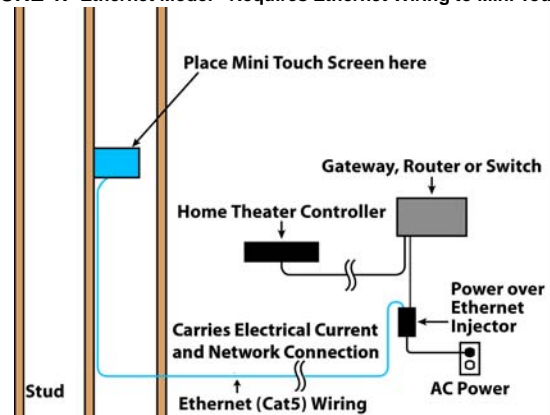


Option 1: Ethernet Model

The Ethernet Mini Touch Screen requires a Power over Ethernet (PoE) device that injects electrical current into the Ethernet cable in order to provide the Ethernet Mini Touch Screen with both power and a network connection. See Figure 1. The Ethernet Mini Touch Screen works with the Control4 Power Over Ethernet Injector (model # AC-POE1-B) or a third-party PoE injector or switch. If you plan to use a third-party PoE solution or a non-standard connection cable, refer to "Power Interface Requirements" for the specifications.

Ethernet Placement: Place the PoE Injector near your gateway/router/switch. Pull the Ethernet cable from that location to the location of where you want to place your Mini Touch Screen.

FIGURE 1. Ethernet Model - Requires Ethernet Wiring to Mini Touch Screen.



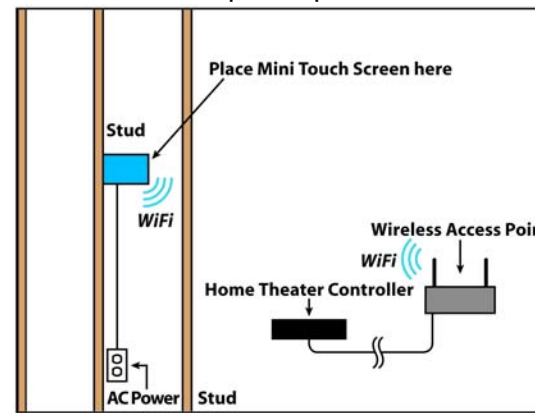
Option 2: WiFi Model

The WiFi Mini Touch Screen differs from the Ethernet model in two ways:

- It uses a WiFi antenna that communicates via WiFi to a Wireless Access Point to the Control4 Controller, such as the Home Theater Controller.
- It gets its power from an AC power source close to the Mini Touch Screen. This power connection requires both neutral and hot connections. See Figure 2.

WiFi Placement: Place the WiFi Model above a power source, such as at an outlet. Ensure you have WiFi in the home.

FIGURE 2. WiFi Model - Requires AC power to Mini Touch Screen.



IMPORTANT! If you already have a network setup distributing DHCP, manually disable any DHCP service on any device you add prior to putting it on the network, such as a wireless router. You cannot have two devices running DHCP or this may result in devices malfunctioning. For information about setting up a home network, see Composer online help topic: "Guidelines for Setting up a Wired or Wireless Network."

Wall Box Kit Options

There are four wall box options to install the Mini Touch Screen. Metal and plastic wall boxes are available for new or retrofit versions. The following diagrams show the available wall mounting kits.

FIGURE 3. Mini Touch Screen/LCD Keypad Wall Box Kits - New Construction

Plastic model # AC-NWB3.8-G

Metal model # AC-NWB3.8-M

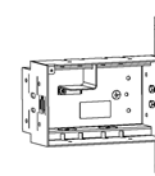
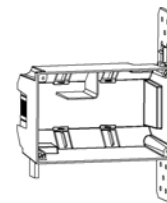
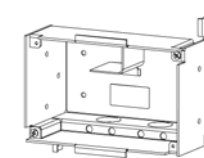
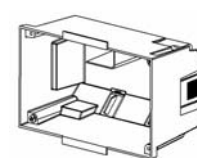


FIGURE 4. Mini Touch Screen/LCD Keypad Wall Box Kit - Retrofit (includes wall box template)

Plastic model # AC-RWB3.8-G

Metal model # AC-RWB3.8-M



What's in the Box

Carefully unpack the 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-authorized reseller immediately.

- Control4 Mini Touch Screen
- Warranty card

- *Mini Touch Screen Installation Guide* (this document)
- *Mini Touch Screen User Guide*
- Two sheet metal screws (1/2 inch) for attachment to a plastic wall box. (Metal wall boxes require machine screws. They are included with the the metal wall box kit.)

Requirements

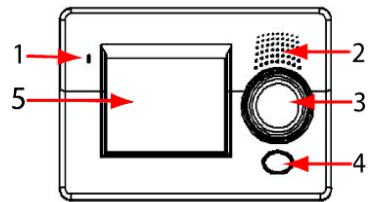
To install the Mini Touch Screen, you need the following:

- Home Theater Controller or Media Controller fully installed and configured with a Control4 system.
- (Optional) An amplifier or amplified speakers.
- (Optional) Any RCA cables required to connect the Mini Touch Screen and the amplifier or amplified speakers.
- **Ethernet only:**
 - Ethernet network installed and available that includes a gateway/router/switch.
 - Control4 PoE Injector (model #AC-POE1-B) or another third-party PoE injector or switch.
 - Two Ethernet Category 5 cables to support your PoE injector: (1) one that will run from the Ethernet gateway/router/switch to the PoE injector/switch and (2) one that will run from the PoE injector/switch to the Ethernet Mini Touch Screen wall box.
- **WiFi only:**
 - Wireless network (WiFi 802.11b/g) installed and available that includes a wireless access point (WAP).
 - Access to in-wall AC power. (A neutral connection is required).
 - 14 AWG electrical wire long enough to pull between Mini Touch Screen and power source.
- Control4 *Mini Touch Screen/LCD Keypad* custom wall box kit. See "Wall Box Kit Options."

Front and Rear Panel Description

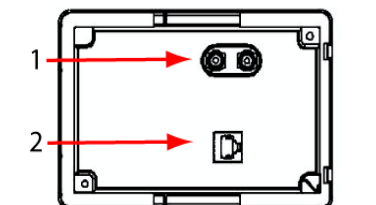
Front View

1. **Microphone:** (Future) Microphone for communication features.
2. **Speaker:** (Future) Speaker for intercom.
3. **Select Dial:** Use during setup to identify the device to the Control4 system. Once setup is complete, for scrolling through displays.
4. **Shortcut Button:** For custom programming to initiate an action or sequence of actions.
5. **Display:** 3.8" TFT (3.5" viewing area), Touch-Screen with 320x240 Resolution, QVGA.



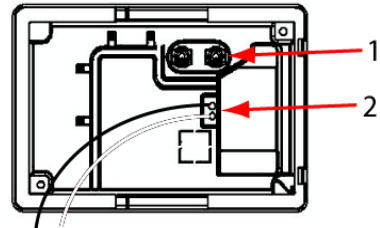
Back View: Ethernet Model

1. **RCA audio line-level output:** (Optional) Connect these ports to an amplifier or amplified speakers for audio output using a standard RCA stereo cable.
2. **RJ-45 port:** For connection to the Ethernet PoE source to power the device and provide network communication.
3. **Dimension:** Front - 6 1/2" (W) x 4 3/8" (H) x 1/5-2/5" (D)
In-Wall - 5 7/8" (W) x 3 5/8" (H) x 1 1/2" (D)
5. **Power Supply:** PoE (Power Over Ethernet).



Back View: Wireless Model

- RCA line-level audio output:**
(Optional) Connect these ports to an amplifier or amplified speakers for audio output using a standard RCA stereo cable.
- AC Wires:** Connect the black (hot) and white (neutral) wires from the back of the Mini Touch Screen to the hot and neutral wires from the wall.
- Dimension:** Front - 6 1/2" (W) x 4 3/8" (H) x 1/5-2/5" (D)
- In-Wall:** 5 7/8" (W) x 3 5/8" (H) x 1 1/2" (D)
- Power Supply:** AC Power
- Network Support:** WiFi IEEE 802.11b/g



Installation

WARNING! For the location where you are installing the Mini Touch Screen, switch off the circuit breaker or remove the fuse from the fuse box.



IMPORTANT! For new or retrofit, when cutting the opening for the wall box, DO NOT cut the opening too large. Be conservative and cautiously enlarge it as needed because there is not as much overhang on the faceplate of the Mini Touch Screen as you are accustomed to with standard switch and outlet plates.

IMPORTANT! Before you can complete the installation instructions for the Mini Touch Screen, you must have a Control4 Mini Touch Screen/LCD Keypad Wall Box installed according to the documentation provided in the wall box kit.

NOTE: The table top Mini Touch Screen model is sold assembled. These installation instructions do not apply.

- Prepare wall for installation.

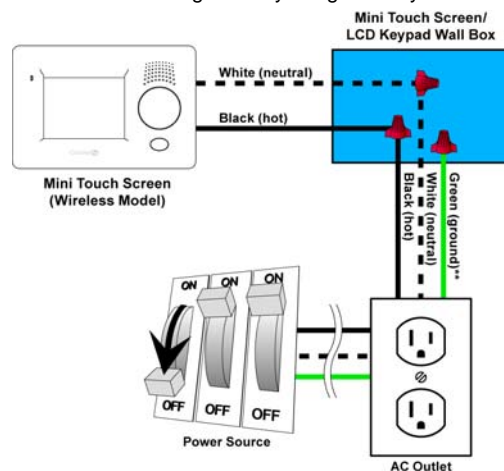
For Ethernet Model: Install a PoE injector or switch. To do this:

- Connect the Control4 PoE Injector to a power source, such as an AC outlet, using the 2-prong power cord (provided with the unit). The light comes on when power is applied.
- Connect one of the RJ-45 LAN ports on the gateway/router/switch to the PoE Injector's LAN port using the RJ-45 ethernet cable. The STAND BY light on the PoE Injector lights up.
- Connect the PoE Injector's PWR LAN-OUT port to the Ethernet Mini Touch Screen using the RJ-45 ethernet cable in the wall. The Power mode LED will change from orange to green.



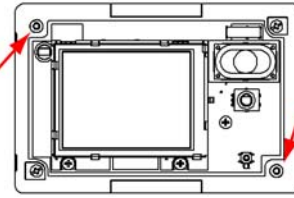
For Wireless Model: Connect wires to AC Power Source for Wireless Model. To do this:

- Connect the black (hot) and white (neutral) wires from the back of the Mini Touch Screen to the hot and neutral wires from the wall.
- Cap the ground wire from the wall if you are using a plastic wall box. If you are using a metal wall box, attach the ground wire to the box at the location designated by the ground symbol.



- (Optional) If you intend to send audio to an amplifier or amplified speakers, route a stereo RCA cable from your Mini Touch Screen audio out ports (RCA red and white connectors) to your amplifier or amplified speakers.

- With the screws provided, attach the Mini Touch Screen base at the top-left and bottom-right corners of the wall box (as shown).



- Hook the tabs on the left underside of the faceplate onto the lip of the base on the left-hand side. Then close the faceplate over the top of the base from left to right, feeding the Select-Dial post through the corresponding hole in the faceplate.

- Install the washer and the nut to hold the faceplate in place.

IMPORTANT! Tighten the nut by hand. Do not overtighten. Excessive force will permanently damage the rotary device and void the warranty.

- Install the Select Dial on the post.

IMPORTANT!

TIP: You need to calibrate your Mini Touch Screen: the first time you use it or any time the system requests it. When the device needs calibration, the on-screen instruction will prompt you to calibrate the device. 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 subsequent points indicated by the crosshairs.

NOTE: While you may use a stylus (a smooth pointing device that is sold with many hand-held electronic devices) with this device, the use of a stylus is not necessary or recommended. Instead, use your fingertips or the Select Dial to scroll through lists and make selections.

NOTE: To protect the display screen of your device: (1) Use one of the screen-saver options available from the **Info > Config > Screen Saver** page; (2) Use a plastic (cling-on) screen protector (available where hand-held electronic devices are sold) to help guard against scratches.

- (For WiFi Model only) From the WiFi Mini Touch Screen, configure a wireless access point:

- Press **Info > Wireless > Wireless**. The Wireless configuration screen appears.



- Press **Add** to add the WiFi Mini Touch Screen as a wireless device.
- Press in the **Network (SSID)** text box to enter the SSID. A virtual keypad displays for you to enter the information.
- Press the **WEP** button, then enter the WEP key in hex in the text box. A virtual keypad displays for you to enter the information. Press **OK** when finished.
- Highlight the **SSID** of the WiFi Mini Touch Screen and press **Enable**.
- Press **OK**.

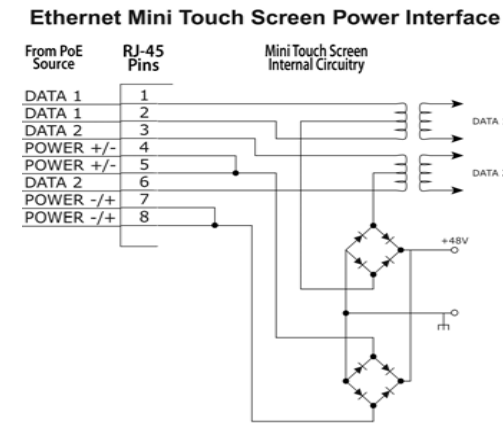


- Now that your Mini Touch Screen is physically installed and appearing on the home network, you can add it to the Control4 System using the Composer software (available for your PC). See Composer online help for information on how to add the Mini Touch Screen and other devices to the Control4 System.

Power Interface Requirements

If you plan to use any other PoE solutions besides the Control4 PoE Injector, such as a third-party injector or PoEswitch, then refer to the diagram of the Ethernet Mini Touch Screen Power and Connection Schematic to determine how to create a PoE solution and cabling to meet the power and connection requirements for Mini Touch Screen.

Ethernet Mini Touch Screen Power and Connection Schematic



Troubleshooting

If you experience operational problems with the Control4 Mini Touch Screen, check the following list for system troubleshooting. If problems persist, contact your authorized Control4 dealer for technical support.

Question: What if the on-screen display that reads "Welcome to Navigator" won't go away?

Answer: If screen also has text that reads "Touch the crosshairs firmly..." then you need to calibrate the device as described in the installation instructions.

Question: What if my Mini Touch Screen locks up or runs slowly?

Answer: Try rebooting by holding down the Select Dial for ten seconds. Reset the system by cutting and restoring power: for Ethernet model, disconnect and reconnect the PoE connector at the network gateway, router or switch.

Question: What if my Mini Touch Screen is damaged?

Answer: Contact your Control4-authorized reseller.

Question: What if I have network connection problems?

Answer: Make sure the network cable connectors are firmly locked into the network jack. See Composer online topic: "Guidelines for Setting up a Wired or Wireless Network."

Question: What if my Mini Touch Screen is unresponsive to the touch?

Answer 1: The nut under the Select Dial may be too tight. This can cause the faceplate to press against the overlay causing a false "press and hold" and renders the touch overlay inoperable. To fix this, loosen nut until proper operation is restored.

Answer 2: The lower-right display clip may be wedged between the overlay and the display. (It is one of seven clips that hold the display in place.) Do NOT use any metal or sharp objects to correct this. (1) Using your left thumb, press down firmly on the lower edge of the display to the left of the clip. (2) Using your right index finder in a hook-shape, slide your fingernail under the clip to allow the display to slide back under the clip.

Answer 3: The Mini Touch Screen may need to be recalibrated. Call technical support for further information on this procedure.

Warranty

See *Mini Touch Screen User Guide* for warranty information.

Regulatory Compliance

This product complies with standards established by the following regulatory bodies:

Federal Communications Commission (FCC)

Industry Canada

Underwriters Laboratories Inc. (UL)

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 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.

FCC Caution

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 Canada ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Underwriters Laboratories Inc. (UL)

This product has been tested by UL and has been found to be in compliance with:

UL 916:1998: Standard for Energy Management Equipment



About this Document

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