

5” and 7” In-Wall Touch Screens Installation Guide

Introduction

The Control4® 5” or 7” In-Wall Touch Screen offers complete system control in an elegant and compact design. These Touch Screens are equipped with a capacitive Touch Screen surface and four (4) programmable shortcut buttons. The power options are AC power or Power-Over-Ethernet (PoE). The device may be connected via WiFi or Ethernet. Available for new construction or retrofits.

Supported Models

- C4-TSWMC5 – 5” In-Wall Touch Screen
- C4-TSWMC7 – 7” In-Wall Touch Screen

Associated SKUs:

- C4-TSWMC5-EG-WH – 5” In-Wall Touch Screen, White
- C4-TSWMC5-EG-BL – 5” In-Wall Touch Screen, Black
- C4-TSWMC7-EG-WH – 7” In-Wall Touch Screen, White
- C4-TSWMC7-EG-BL – 7” In-Wall Touch Screen, Black

Box Contents

Carefully unpack the contents of 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.

- 5” or 7” In-Wall Touch Screen
- Power box (used to power the Touch Screen)
- Two (2) Orange wire nuts and two (2) screws to attach the power box.
- 5” and 7” In-Wall Touch Screens Installation Guide (this document)

Wallbox Kit Options

There are four (4) wall box options available to install this Touch Screen. Metal and plastic wall boxes are available for new construction or retrofit installations.

- 5” or 7” In-Wall Touch Screen Wall Box Kits - New Construction
  Plastic Model (C4-NWB57C-P)
  Metal Model (C4-NWB57C-M)

- 5” or 7” In-Wall Touch Screen Wall Box Kit - Retrofit
  Plastic Model (C4-RWB57C-P)
  Metal Model (C4-RWB57C-M)

Refer to the Control4 *5” or 7” In-Wall Touch Screen Wall Box Installation Guide - New Construction* or *5” or 7” In-Wall Touch Screen Wall Box Installation Guide - Retrofit* for your wall box installation instructions.

Accessories

- Control4 Power Over Ethernet Injector, sold separately (AC-POE1-B)
- 5” and 7” In-Wall Touch Screens Wall Box New Construction, Plastic (C4-NWB57C-P)
- 5” and 7” In-Wall Touch Screens Wall Box New Construction, Metal (C4-NWB57C-M)
- 5” and 7” In-Wall Touch Screens Wall Box Retrofit, Plastic (C4-RWB57C-P)
- 5” and 7” In-Wall Touch Screen Wall Box Retrofit, Metal (C4-RWB57C-M)

Requirements for In-Wall Installations

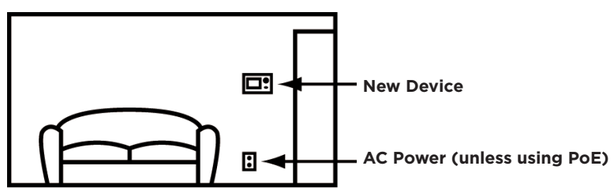
To install the 5” or 7” Touch Screen, you need the following:

- Home Controller HC-200B, HC-300C, or HC-1000 V3 fully installed and configured with a Control4® system.
- Control4 5” and 7” Touch Screen custom wall box installed. See “Wall Box Kit Options” in this document.
- If using Ethernet with PoE power:
  - An 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 (which are certified to UL/ANSI standards).
  - Two (2) Ethernet CAT5 cables to support your PoE Injector: (1) one that runs from the Ethernet gateway/router/switch to the PoE Injector/switch and (2) one that runs from the PoE Injector/switch to the Ethernet Touch Screen wall box.
- If using Ethernet with AC power:
  - An Ethernet network installed and available that includes a gateway/router/switch.
  - Access to in-wall AC power (a neutral connection is required).
  - One (1) Ethernet CAT5 cable that runs from the Ethernet gateway/router/switch to the Touch Screen.
- If using wireless with AC power:
  - Wireless network (WiFi 802.11 b/g) installed and available with a wireless access point (WAP).
  - Access to in-wall AC power (a neutral connection is required).
  - A 14-gauge electrical wire long enough to pull between the Touch Screen and the power source.

Placement, Network Connection, and Power Options

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 (see Figure 1).

Figure 1. Touch Screen Placement

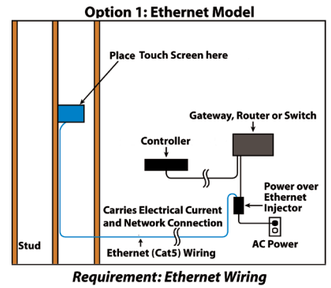


This device uses an Ethernet or WiFi network connection, and can be powered using PoE or AC power. Note: Do not attempt to use PoE and AC at the same time.

Option 1: Ethernet Connection with a PoE Injector or a Third-Party Injector or Switch

PoE injects electrical current into the Ethernet cable using a PoE Injector (model #AC-POE1-B) or a third-party PoE solution to provide the Touch Screen with power and a network connection. The 5” and 7” Touch Screens work with the Control4 PoE Injector or a third-party PoE Injector. To set up your PoE and Ethernet connection with a PoE Injector, see Figure 2.

Figure 2. Ethernet Model - Requires Ethernet Connection to PoE Injector

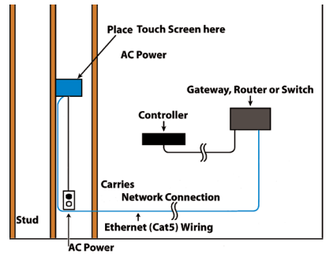


Place the PoE Injector near your gateway/router/switch. Pull the Ethernet cable from that location to where you want to install the Touch Screen.

Option 2: Ethernet Connection with AC

No PoE Injector is needed for Ethernet with AC power; the Ethernet is connected directly to the switch. This power connection requires both neutral and hot connections (see Figure 3).

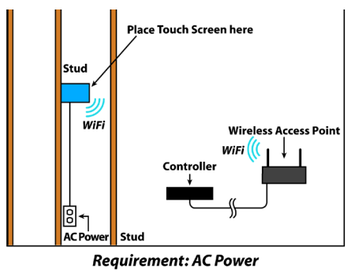
Figure 3. Ethernet - Requires Connection to Ethernet and AC Power



Option 3: WiFi Connection with AC

WiFi placement: Place the Touch Screen above a power source, for example, an outlet. Ensure that you have WiFi in the home (see Figure 4).

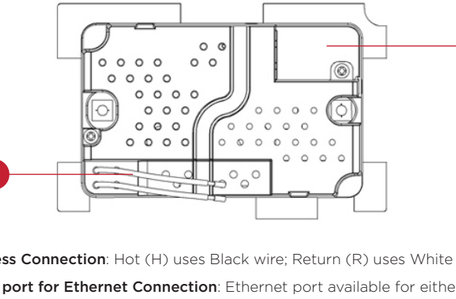
Figure 4. WiFi - Requires AC Power and WAP



Front and Rear Panel Description

Front View

Figure 5. Front View - 5” or 7” In-Wall Touch Screen



1 **Display**: 5” or 7” viewing area, Touch Screen with 800 x 480 resolution.

2 **Shortcut buttons (4)**: For custom programming; to initiate an action or sequence of actions. Use Composer Pro or Composer HE to configure these buttons.

3 **Touch Screen Removal**: Small hole located under the Touch Screen to remove the Touch Screen from the wall.

- **Front dimensions**. 5” Touch Screen (H x W x D): 3.15” x 4.8 x 0.9” (80mm x 122mm x 23mm); 7” Touch Screen (H x W x D): 4.6” x 6.9 x 0.9” (117mm x 175mm) x 23mm)
- **Wall box dimensions**. 5” or 7” Touch Screens (H x W x D): 2.7” x 4.1” x 2.4” (68mm x 104mm x 61mm)
- **Power box dimensions**. 5” or 7” Touch Screens (H x W x D): 2.8” x 4.5” x 1.8” (71mm x 114mm x 46mm)

Back View

Figure 6. Back View - 5” or 7” In-Wall Touch Screen and Power Box

1 **Wireless Connection**: Hot (H) uses Black wire; Return (R) uses White wire.

2 **RJ-45 port for Ethernet Connection**: Ethernet port available for either a standard Ethernet source that provides network communication only OR a PoE source that provides power to the device and network communication.

Installation

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

AVERTISSEMENT! Pour l’endroit où vous installez l’écran tactile, coupez le disjoncteur ou enlevez le fusible de la boîte de fusible.

WARNUNG! Für die Position, in der Sie die Berührungseingabe anbringen, den Circuit breaker ausschalten oder die Sicherung vom Sicherung Kasten entfernen.

IMPORTANT! When cutting the opening for the wall box, DO NOT cut the opening too large. Be conservative and cautiously enlarge it as needed.

IMPORTANT! En coupant l'ouverture pour la boîte de mur, ne coupez pas l'ouverture trop grande. Soyez conservateur et agrandissez-avec précaution la comme nécessaire.

WICHTIG! Wenn Sie die öffnung für den Wandkasten schneiden, schneiden Sie NICHT die große öffnung zu. Seien Sie konservativ und vergrößern Sie es vorsichtig, wie gebraucht.

IMPORTANT! Before you can complete these instructions below, you must have a Control4 5" or 7" Touch Screen wall box installed according to the documentation provided in the wall box kit. See "Accessories" for details.

IMPORTANT! En coupant l'ouverture pour la boîte de mur, ne coupez pas l'ouverture trop grande. Soyez conservateur et agrandissez-avec précaution la comme nécessaire. Voyez que <<Accessories>>.

WICHTIG! Bevor Sie diese Anweisungen durchführen können, müssen Sie ein Control4 7 haben" der Berührungseingaben- Wandkasten, der entsprechend den Unterlagen angebracht wird, die in den Wandkasteninstallationssatz bereitgestellt werden. Sehen Sie daß "Accessories."

Network Options

- **Power Over Ethernet (PoE)**: The Ethernet network connection is provided through the PoE Injector. No additional wiring is needed.
- **Standard Ethernet Connection**: Connect the Touch Screen to one of the RJ-45 LAN ports on the gateway/router using the RJ-45 Ethernet cable.
- **WiFi Connection**: The internal WiFi antenna will communicate with the LAN's WAP. If the LAN has a WAP set up, no additional wiring is needed.

Power Configurations

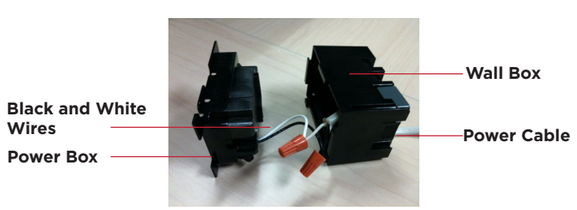
- **AC Power**. AC power is used to power the Touch Screen when using an Ethernet or WiFi network connection.
- **PoE**. PoE is used to power the Touch Screen when using an Ethernet or WiFi network connection.

1 Prepare the plastic power box for installation into the wall box by inserting either the Ethernet cable or the AC power cable into the power box (see Figures 7 and 8).

AC Power Connection. The steps below represent a typical U.S. installation. Connect wires to the AC power source for the Touch Screen according to your national and local electrical codes. Your installation may require alternative wires and the use of a terminal block.

- Thread the power cable through the bottom back hole of the wall box to the terminal (Figure 7). Remove the tab covering the hole first.
- Using the orange wire nuts (shipped in the box) connect the white-to-white wire and the black-to-black wire, and then cap each one with a wire nut. Strip the wire to 1/4" if necessary.
- Cap the ground wire from the wall if you are using a plastic wall box. Attach the ground wire to the wall box when using a metal wall box.

Figure 7. AC Power Connection

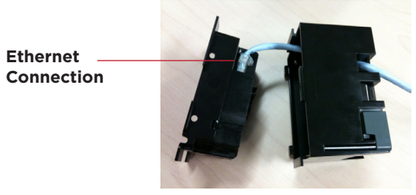


- Align and bend the wires carefully to fit them inside the wall box.
- Align and carefully slide the power box into the wall box.

Power Over Ethernet (PoE) Connection. Install a PoE Injector (sold separately) or switch, and then connect the PoE Injector to the power and network. Connect to the power box. The steps below describe how to install a Control4 PoE Injector.

- Connect the Control4 PoE Injector to a power source, for example, an AC outlet, using the power cord (provided with the unit).
- 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.
- Connect the PoE Injector's PWR LAN-OUT port to the RJ-45 Ethernet cable that will be connected to the Touch Screen.
- Pull the Ethernet cable through the top back hole of the wall box to the Ethernet connector on the top back of the power box, and then connect it (see Figure 8).
- Align and carefully slide the power box into the wall box. Unless the Touch Screen is in the power box, it doesn't pull any power.

Figure 8. Ethernet Connection



2 Secure the power box into the wall box using the screws provided. **Note**: Overtightening power box screws could result in a poor connection between the Touch Screen and the power box.

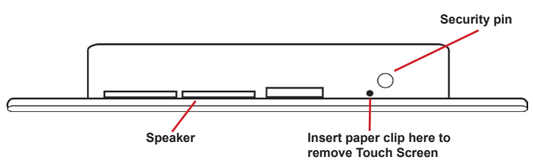
3 Align and slide the back of the Touch Screen into the power box. The Touch Screen is magnetic and should snap right into place.

4 (Optional) To secure the Touch Screen inside the power box, remove the tape covering the bottom security pin (see Figure 9) before attaching the Touch Screen to the power box.

5 Note the pinhole on the bottom underside of the Touch Screen's faceplate. If you ever need to remove the Touch Screen from the wall, do the following:

- Locate the small pinhole on a tab (right side) underneath the Touch Screen.
- Insert a paper clip into the hole (about 1/4"). With both hands, lift the Touch Screen from the bottom of the screen toward you to remove it (see Figure 9).

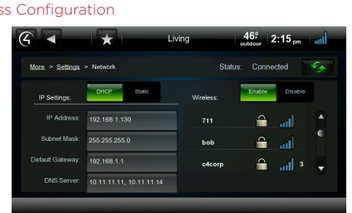
Figure 9. Touch Screen Pin and Pinhole



6 To protect the screen's display: Use one of the screen-saver options available from the **More** > **Settings** > **Screen Saver** page.

7 (WiFi only) Connect to a WAP on the Touch Screen (see Figure 10):

Figure 10. Wireless Configuration



- After initialization, press and hold the large red **4** on the center of the Touch Screen to enter the configuration screen.
- Press the **Network** button on the Touch Screen configuration page. The network configuration screen displays.
- Under Wireless, select **Enable**. If you don't see the network you want, select **Other**.
- At Network Name, select to add the SSID or wireless network when the keyboard appears. Select **Done**.
- At Security, select **None**, **WEP 64**, **WEP 128**, or **WPA**. At Password, type the password on the keyboard that appears. Press **Done**.
- Select **Connect**. Notice that the IP settings change. The IP address is set to DHCP by default. (Optional) If you need to set a static IP address instead, complete the following steps:
  - On the Network page, press **Static**.
  - Select each box one at a time and type the address: IP Address, Subnet Mask, Default Gateway, Preferred DNS, and Alternate DNS. When the keyboard appears, type the address, and then press **Done**.
- Press **OK** to return to the Network page. You can now connect to a Control4 Director running on a Control4 device on the network.
- Press **OK**.

8 When your Touch Screen is physically installed and appears on the home network, you can add and configure it to the Control4 System using the Composer Pro software. See the *Composer Pro User Guide* for information about how to add and identify the Touch Screen to the Control4 System.

Restore to Factory Default

Press and hold the red **4** button in the top left corner of the screen upon start up, and follow the instructions presented on the screen to initiate the factory restore process and to reset the Touch Screen to the factory default settings.

Composer Driver Information

Choose either the **5" Touch Screen** or **7" Touch Screen** driver in Composer and add it to your project. If the driver doesn't appear, right-click a driver and select the **Restore Default List** menu option to refresh the list. See the *Composer Pro User Guide* for details.

WARNING! The Touch Screen must be protected by an external circuit breaker or a fuse rated at 6A maximum when used in Europe.

AVERTISSEMENT! Pour réduire le risque du feu ou de choc électrique, n'exposez pas cet appareil à la pluie ou à l'humidité.

WARNUNG! Die Berührungseingabe muß durch einen externen Circuit breaker oder eine Sicherung geschützt werden, die am Maximum 6A veranschlagen wird, wenn sie in Europa verwendet wird.

WARNING! Do not place the Touch Screen near sources of heat or expose to direct sunlight for an extended period of time.

AVERTISSEMENT! Ne placez pas l'unité près des sources de chaleur ou exposition pour diriger la lumière du soleil pendant une période prolongée.

WARNUNG! Setzen Sie Maßeinheit nicht nahe Quellen der Hitze oder des Exposés, um Tageslicht während eines ausgedehnten Zeitabschnitts zu verweisen.

IMPORTANT! Do not use pens or sharp objects to navigate or make selections on the Touch Screen. To select an item or scroll through a list, use your fingertip.

IMPORTANT! N'employez pas les stylos ou les objets pointus pour diriger ou pour faire des choix sur l'écran. Pour choisir un article ou un rouleau par une liste, employez votre bout du doigt.

WICHTIG! Benutzen Sie nicht Federn oder scharfe Gegenstände, um oder Vorwähleren auf dem Schirm zu bilden zu steuern. Um ein Einzelteil oder eine Rolle durch eine Liste vorzuwählen, benutzen Sie Ihre Fingerspitze.

IMPORTANT! Improper use or installation can cause LOSS/DAMAGE OF PROPERTY.

IMPORTANT! L'utilisation ou l'installation inexacte peut causer LOSS/DAMAGE DE PROPRIÉTÉ.

WICHTIG! Unsachgemäßer Gebrauch oder Installation können LOSS/DAMAGE DER EIGENSCHAFT verursachen.

IMPORTANT! Using this product in a manner other than outlined in this document voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Warranty."

IMPORTANT! Utilisant ce produit en quelque sorte autre que décrit dans ce document vide votre garantie. De plus, Control4 n'est pas responsable d'aucun dommage encouru avec l'abus de ce produit. Voyez que «Warranty.»

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WARNING! Install in accordance with all national, state, and local electrical CODES.

AVERTISSEMENT! Installez selon tous les national, état, et codes électriques locaux.

WARNING! This product generates heat. The room must have adequate VENTILATION or the ability to dissipate heat effectively.

AVERTISSEMENT! Ce produit produit de la chaleur. La salle doit avoir à VENTILATION proportionnée ou la capacité d'absorber la chaleur efficacement.

WARNING! This product must be grounded in accordance with the National Electrical Code (NEC) requirements.

AVERTISSEMENT! Ce produit doit être fondu selon les conditions électriques nationales de code (NEC).

WARNING! Use this product only in dry locations.

AVERTISSEMENT! Employez ce produit seulement dans des endroits secs.

CAUTION! This product is for residential use only.

ATTENTION! Ce produit est pour à l'usage résidentiel ou commercial seulement.

MAGNET WARNING! Located within the plastic enclosures of this product are strong (rare earth) magnets that are used to attach the face plate to the electrical box. If someone handling or using the product has a pacemaker, defibrillator, or similar electronic device used for health purposes, avoid close proximity (closer than 20 inches) to the product until you consult your physician. Magnetic fields can cause damage to magnetic storage media (for example, credit cards, video tapes, computer hard drives, etc). Keep all magnets at least 20 inches away from all types of magnetic media. Certain electronic devices are sensitive to magnetic FIELDS and may be damaged permanently or temporarily disabled if exposed to a magnetic field that is too strong. Consult the owner's manuals of your electronic devices for further information.

INGESTED magnets can cause serious injuries and may result in death. If magnets have been ingested (or you suspect they might have been), seek competent medical attention immediately.

AVERTISSEMENT! Aimants! Dans l'emballage en plastique de ce produit sont inclus des aimants très puissants utilisés pour attacher les plaques de surface aux boites électriques. Si quelqu'un, manipulant ou utilisant ce produit est muni d'un pacemaker, défibrillateur ou autre dispositif d'ordre médical, il doit éviter de se trouver à proximité (moins de 20 pouces) de ce produit avant d'avoir consulté son médecin. Les champs magnétiques des aimants peuvent endommager le stockage d'information d'ordre magnétique (ex : cartes de crédit, bandes vidéo, disques durs d'ordinateur, etc.) Gardez tous les aimants au moins à 20 pouces de distance de tout type de stockage d'information d'ordre magnétique. Certains dispositifs électroniques sont sensibles aux champs magnétiques et peuvent être endommagés de façon permanente ou être désactivés si ils sont exposés à un champs magnétique trop puissant. Pour plus d'information, consultez le manuel d'utilisateur propre à votre pièce électronique.

SI avalés, les aimants peuvent causer des blessures graves et aussi causer la mort. Si des aimants ont été avalés (ou vous doutez qu'ils ont pu l'être) obtenez les soins médicaux de personnes compétentes immédiatement.

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Libertas
Libertas Firmware copyright statement for Touch Screens 6/26/09

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Warranty

For complete warranty information, including details on consumer legal rights as well as warranty exclusions, visit www.control4.com/warranty.

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