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 device may be connected via WiFi or Ethernet. Available for new construction or retrofit.

Supported Models
- C4-TSWMCS5 - 5” In-Wall Touch Screen
- C4-TSWMNC7 - 7” In-Wall Touch Screen

Associated SKUs:
- C4-TSWMCS5-EG-WH - 5” In-Wall Touch Screen, White
- C4-TSWMNC7-EG-WH - 7” In-Wall Touch Screen, White
- C4-TSWMNC7-EG-BL - 7” In-Wall Touch Screen, Black

Requirements for In-Wall Installations
To install the 5” or 7” Touch Screen, you need the following:
- A Control4® system
- Control4® 5” and 7” Touch Screen custom wall box installed. See “Wall Box Kit Options” in this document.
- A PoE Injector (model C4-POE1-B) or another third-party PoE Injector or switch (which are certified to UL/ANSI standards).

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) Phillips head screws to attach the power box to the wall
- Warranty card

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 (C4-NWB57C-P) or Metal (C4-NWB57C-M)
- 5” or 7” In-Wall Touch Screen Wall Box Kit - Retrofit: Plastic (C4-RWB57C-P) or Metal (C4-RWB57C-M)

Refer to the Control4® 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) or Metal (C4-NWB57C-M)
- 5” and 7” In-Wall Touch Screens Wall Box Retrofit, Plastic (C4-RWB57C-P) or Metal (C4-RWB57C-M)

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).

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- C4-TSWMCS5 - 5” In-Wall Touch Screen
- C4-TSWMNC7 - 7” In-Wall Touch Screen

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- 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.
  - Access to in-wall AC power (a neutral connection is required).

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Accessories
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- 5” and 7” In-Wall Touch Screens Wall Box New Construction, Plastic (C4-NWB57C-P) or Metal (C4-NWB57C-M)
- 5” and 7” In-Wall Touch Screens Wall Box Retrofit, Plastic (C4-RWB57C-P) or Metal (C4-RWB57C-M)

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 C4-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.

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 1: Touch Screen Placement

![Figure 1: Touch Screen Placement](image1)

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

![Figure 2: Ethernet Model - Requires Ethernet Connection to PoE Injector](image2)

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

![Figure 3: Ethernet - Requires Connection to Ethernet and AC Power](image3)

Figure 4: WiFi - Requires AC Power and WAP

![Figure 4: WiFi - Requires AC Power and WAP](image4)

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

![Figure 5: Front View - 5” or 7” In-Wall Touch Screen](image5)

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

![Figure 6: Back View - 5” or 7” In-Wall Touch Screen and Power Box](image6)
**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 Surface screen and four (4) programmable shortcut buttons. The screens are available in Metal (C4-RWB57C-M) or Plastic (C4-RWB57C-P) models. The device may be connected via WiFi or Ethernet. Available for new construction or retrofit.

**Supported Models**

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

**Requirements for In-Wall Installations**

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

- A Home Controller fully installed and configured with a Control4® system
- Control4® 5” or 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 C4-POE1-B) or another third-party PoE injector or switch (those that 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.
    - (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).
  - Two (2) Ethernet CAT5 cables:
    - (1) one that runs from the Ethernet gateway/router/switch to the Touch Screen.
  - If wireless with AC power:
    - Wireless network (WiFi 802.11g) 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.

**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) Phillips head screws to attach the power box to the wall
- Warranty card

**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.

**Placement, Network Connection, and Power Options**

**Placement**

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).

**New Device**

**AC Power (unless using PoE)**

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

**Option 1: Ethernet Connection with a PoE Injector or Switch**

PoE injects electrical current into the Ethernet cable using a PoE Injector (model C4-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.

**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).

**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).

**Installation**

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

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

**WARNING!** Für die Position, in der Sie die Berührungseingabe anbringen, den Geshbrelser ausschalten oder die Sicherung vom Sicherungsraum entfernen.
WARNING! Do not touch the Touch Screen near sources of heat or expose from sunlight for an extended period of time.

AVERSISMENT! Ne placez pas l'appareil près des sources de chaleur ou exposition directe au soleil pendant une période prolongée.

WARNUNG! Setzen Sie die Benutzeroberfläche nicht in der Nähe der Hitzequelle oder des direkten Sonnenlichts.

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

IMPORTANT! Die Benutzerführungsschnittstelle kann nicht gestört werden. Stellen Sie sicher, dass der Benutzer rythmisch angesteuert wird.

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

IMPORTANT! L'utilisation ou l'installation masquée peut causer LOSS/DAMAGE OF PROPERTY.

IMPORTANT! Utiliser ce produit en quelque sorte autre que décrit dans ce document voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See “Warranty.”

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

AVERSISMENT! Ne placez pas l'appareil près des sources de chaleur ou à l'extérieur du soleil pendant une période prolongée.

WARNUNG! Setzen Sie die Benutzeroberfläche nicht in der Nähe der Hitzequelle oder des direkten Sonnenlichts.

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

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Figure 7: AC Power Connection

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

- Align and connect the Power Over Ethernet (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 PoE or LAN-DUT 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 panel of the Touch Screen, 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

1. Power Over Ethernet (PoE).
2. AC Power.
3. Power Box.
4. Terminal Block.
5. Power Cable.
6. Wall Box.

Network Options

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

Power Configurations

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

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 a terminal block.

- Thread the power cable through the bottom hole of the wall box straight through to the terminal (Figure 7). Remove the tab covering the hole first.
- Strip the black and white power wires ends to 1/4" if necessary. Using a Phillips head screwdriver, loosen the screws on the power box's terminal block and connect the power wires to each terminal (see Figure 7).
- 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.

- Insert paper clip here to remove Touch Screen.

5. Secure the power box into the wall box using the screws provided. Note: Over-tightening power box screws could result in a poor connection between the Touch Screen and the power box.
- Align and slide the back of the Touch Screen into the power box. The Touch Screen is magnetic and should snap right into place.
- (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.
- Note the pinhole on the bottom underside of the Touch Screen's faceplate. If you 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. After initialization, press and hold the large white button in the center of the Touch Screen to enter the configuration screen.

8. Press the Network button on the Touch Screen configuration page.

   - Under Wireless, select Enable if you don't see the network you want, select Other.
   - At Network Name, select to add the SSD 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 OK.
     - 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.

9. When your Touch Screen is physically installed and appears on the home network, you can add and configure it in 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.

Figure 10: Wireless Configuration

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 (C4-TS5WMC7) or 7” Touch Screen (C4-TS7WMC7). Add Composer Pro and add it to your project. If the driver doesn't appear in the My Drivers list, right-click a driver and select the Restore Default List menu option to refresh the list.

To check if you have the correct driver, after it's installed in the project, hover over the driver in the project tree and the SKL will appear. See the Composer Pro User Guide for more 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: Les prises et les interrupteurs doivent être protégés par un disjoncteur ou un fusible de 6A maximum en usage en Europe.

AVERTISSEMENT: Ce produit du chaleur La saleté doit avoir une VENTILATION proportionnelle ou la capacité d'absorber la chaleur efficacement.

WARNING: Ce produit doit être utilisé seulement dans des endroits secs. CAUTION: This product is for residential use only...
ATTENTION! Ce produit est pour à l'usage résidentiel ou commercial seul.

MAGNETIC 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 boîtes 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 proximités (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.) Garder 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 champ 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.

Third-Party Trademarks
Libretto
Lanix
Firmware copyright statement for Touch-Screens 06/09
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