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 Retailer.
- 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 Screen 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 - Newly Construction: Plastic Model (C4-NWBS7C-P) or Metal Model (C4-NWBS7C-M)
- 5” or 7” In-Wall Touch Screen Wall Box Kit - Retrofit: Plastic Model (C4-RWBS7C-P) or Metal Model (C4-RWBS7C-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
- 5” and 7” In-Wall Touch Screens Wall Box Retrofit, Plastic (C4-RWBS7C-P)
- 5” and 7” In-Wall Touch Screens Wall Box Retrofit, Metal (C4-RWBS7C-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-100D VS 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 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 supply 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 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).

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.

Option 2: Ethernet Connection with AC
No PoE Injector is needed for Ethernet with AC power; the Ethernet connection is directed 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
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.

Warnings:
- For the location in which you are installing the Touch Screen, switch off the circuit breaker or remove the fuse from the fuse box.
- Pour l'emplacement dans lequel vous installez le Touch Screen, coupez le disjoncteur ou enlevez le fusible.

Figure 1: Touch Screen Placement

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

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

Figure 4: WiFi - Requires AC Power and WAP

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

Figure 6: Back View - 5” or 7” In-Wall Touch Screen and Power Box
**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 network. The 3G/LAN/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 injector**: PoE is used to power the Touch Screen when using an Ethernet or WiFi network connection.

**AC Power Connection**: The steps below represent a typical U.S. installation.

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

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

- **Align and carefully slide the power box into the wall box.**
- **Power Over Ethernet (PoE) Connection**: Install a PoE injector (sold separately) in the same wall box, 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.
  1. Connect the Control4 PoE injector to a power source, for example, an AC outlet, using the power cord (provided with the unit).
  2. 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.
  3. Connect the PoE injector’s POE LAN/CUT port to the RJ-45 Ethernet cable that will be connected to the Touch Screen.
  4. Pull the Ethernet cable through the box to the hole of the wall box to the Ethernet connector on the top back of the power box, and then connect it (see Figure 8).
  5. 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**

- **Secure the power box in 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.**
  1. Insert the unit’s power cable into the PoE injector’s port.
  2. Insert a paper clip into the hole (about 9/16”) with both hands, lift the Touch Screen from the bottom toward you to remove it (see Figure 9).

**Figure 9: Touch Screen Pin and Pinhole**

**Restore to Factory Default**

Press and hold the red 4 button in the top left corner of the screen until up, and follow the instructions presented on the screen to restore the factory 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 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**!

- **If your Touch Screen is not in a power box, it doesn’t pull any power.**
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**Figure 10: Wireless Configuration**

**MAGNET WARNING**

- **Location**: The plastic endcaps of this product are strong (are 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.**

**WARNING**!

- **Improve power or installation can cause LOSS/DAMAGE of power at power distribution.**
- **L'utilisation de l'installation inexacte peut causer LOSS/DAMAGE de propriété.**

**WARNING**!

- **Use this product in accordance with local national, state, and local electrical codes.**
- **WARNING**!

**WARNING**!

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

**WARNING**!

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

**WARNING**!

- **Use this product only in dry locations.**

**CAUTION**!

- **This product is for residential use only.**

**ATTENTION**!

- **Ce produit est pour l'usage résidentiel ou commercial.**

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AVERTISSEMENT! Aimants! Dans l'emballage en plastique de ce produit sont inclus des aimants très puissants utilisés pour attacher les plaques de surface aux boxe 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.) 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 avalez, 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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