



# InfinityEdge™ 5” and 7” In-Wall Touch Screen Installation Guide



## Introduction

The Control4® InfinityEdge™ 5” or 7” In-Wall Touch Screens offer 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, and are available with AC power for wireless connections and Power-Over-Ethernet (PoE) for Ethernet connections. Available for new construction or retrofits.

## Supported Models

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

### Associated SKUs:

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

## What’s in the Box

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.

- InfinityEdge™ 5” or 7” In-Wall Touch Screen
- InfinityEdge™ power box (used to power the Touch Screen)
- Two (2) Orange wire nuts
- *InfinityEdge™ 5” and 7” In-Wall Touch Screens Installation Guide* (this document)

## Wall Box 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.

- InfinityEdge™ 5” or 7” In-Wall Touch Screen Wall Box Kits - New Construction

Plastic Model (C4-NWB57C-P)  
Metal Model (C4-NWB57C-M)

- InfinityEdge™ 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 *InfinityEdge 5” or 7” In-Wall Touch Screen Wall Box Installation Guide - New Construction* or *InfinityEdge 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)
- InfinityEdge™ 5” and 7” In-Wall Touch Screens Wall Box New Construction, Plastic (C4-NWB57C-P)
- InfinityEdge™ 5” and 7” In-Wall Touch Screens Wall Box New Construction, Metal (C4-NWB57C-M)
- InfinityEdge™ 5” and 7” In-Wall Touch Screens Wall Box Retrofit, Plastic (C4-RWB57C-P)
- InfinityEdge™ 5” and 7” In-Wall Touch Screen Wall Box Retrofit, Metal (C4-RWB57C-M)

## Important Safety Instructions

1. Read and keep these instructions.
2. Heed all warnings and follow all instructions.
3. Do not use this apparatus near water.
4. Clean only with a dry cloth.
5. Install in accordance with the manufacturer’s instructions.
6. Install in accordance with all national and local electrical codes.
7. This product is also 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. Only use attachments/accessories specified by Control4.
10. If applicable, unplug this apparatus during lightning storms or when unused for long periods of time.
11. 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!** 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 vermeiden.



**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 Vorwählern 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.»

**Wichtig!** Das Verwenden dieses Produktes in gewissem Sinne anders als umrissen in diesem Dokument hebt Ihre Garantie auf. Weiter ist Control4 NICHT für irgendeine Beschädigung verantwortlich, die mit der Fehlanwendung dieses Produktes genommen wird. Sehen Sie, daß "Warranty."

## Requirements for In-Wall Installations

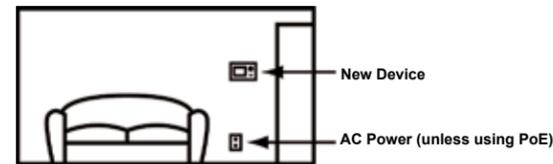
To install the InfinityEdge™ 5” or 7” Touch Screen, you need the following:

- Home Controller HC-200, HC-300, HC-1000, Commercial Controller CC-300, or CC-1000 fully installed and configured with a Control4® system.
- Control4 InfinityEdge™ 5” and 7” Touch Screen custom wall box installed. See "Wall Box Kit Options" in this document.
- If using Ethernet with PoE power:
  - Ethernet network.
  - Control4 PoE Injector (model #AC-POE1-B) or another third-party PoE Injector or switch.
  - 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 a power outlet.
  - 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



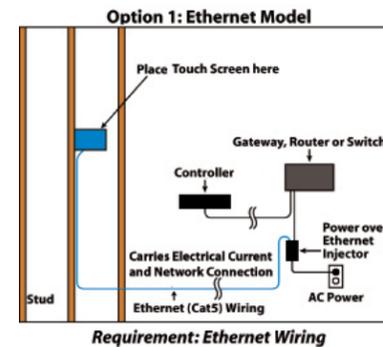
This device uses an Ethernet network connection with PoE or WiFi, and can be powered using PoE or AC power.

**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 InfinityEdge™ 5” and 7” Touch Screens work with a PoE Injector or a third-party PoE Injector. If you plan to use a third-party PoE solution, see "Installation." 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

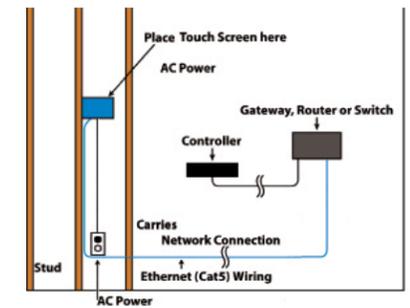


Place the PoE Injector near your gateway/router/switch. Pull the Ethernet cable from that location to where you want to install the Touch Screen.

## 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).

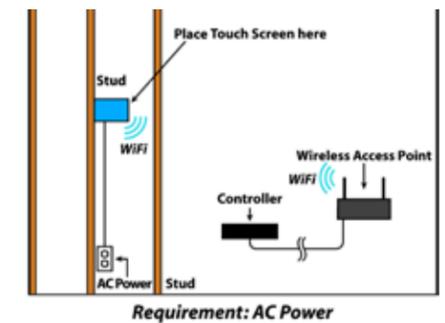
Figure 3. Ethernet - Requires Connection to Ethernet and AC Power



## Option 3: WiFi Connection with AC

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

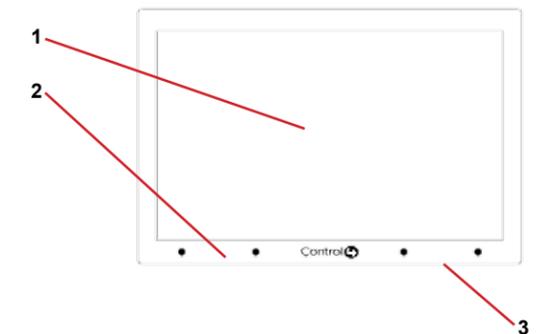
Figure 4. WiFi - Requires AC Power and WAP



## Front and Rear Panel Description

### Front View

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



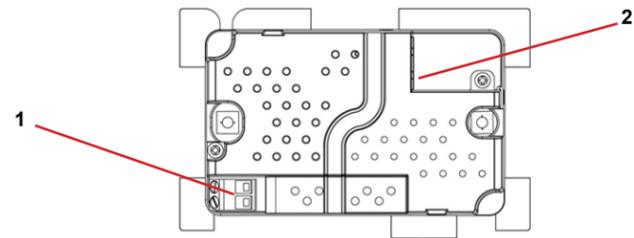
1. **Display:** 5” or 7” viewing area, Touch Screen with 800 x 480 resolution TFT.
2. **Shortcut buttons (4):** For custom programming; to initiate an action or sequence of actions.
3. **Touch Screen Removal:** Small hole located under the Touch Screen to remove the Touch Screen from the wall.

**Front dimensions:** 5” Touch Screen - (H x W): 3.13” x 4.75” (76.2mm x 101.6mm); 7” Touch Screen - (H x W): 6.00” x 8.10” (152.4mm x 205.7mm).

**Wall box dimensions:** 5” and 7” Touch Screens - (H x W x D): 2.65” x 4.06” x 2.36” (50.8mm x 101.6mm x 50.8mm).

## Back View

Figure 6. Back View of the InfinityEdge 5" or 7" In-Wall Touch Screen and Power Box



1. **Wireless Connection:** High-voltage power (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 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

- **POE:** The Ethernet network connection is provided by 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

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

- 1 Prepare the wall for installation by establishing the power and network connections.

**Power Over Ethernet (PoE):** Install a PoE Injector (sold separately) or switch:

- a. Connect the Control4 PoE Injector to a power source, such as an AC outlet, using the power cord (provided with the unit). The light comes on when power is applied.
- b. 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.
- c. Connect the PoE Injector's PWR LAN-OUT port to the Touch Screen using the RJ-45 Ethernet cable in the wall. The Power mode LED will change from Orange to Green.

**AC Power:** 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.

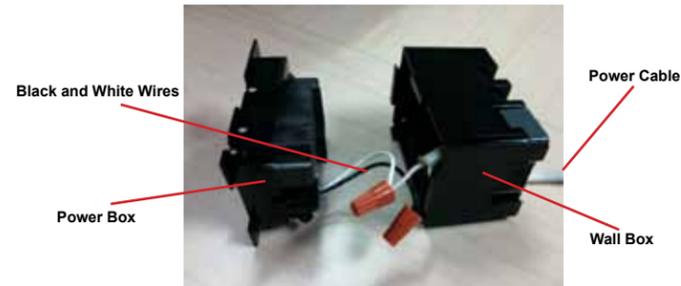
- a. Connect the black (hot) and white (neutral) wires from the back of the Touch Screen to the hot and neutral wires from the wall.
- b. Cap the ground wire from the wall if you are using a plastic wall box.

- 2 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:**

- a. 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.
- b. 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.

Figure 7. AC Power Connection

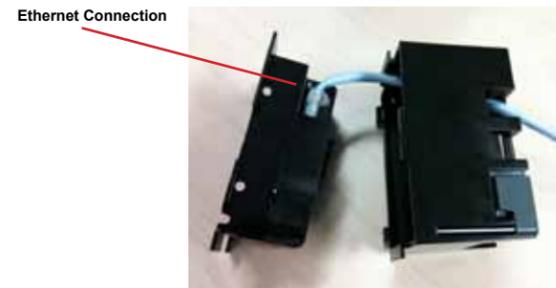


- c. Align and bend the wires carefully to fit them inside the wall box.
- d. Align and carefully slide the power box into the wall box.

**PoE Power Connection:**

- a. 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).
- b. Align and carefully slide the power box into the wall box.

Figure 8. Ethernet Connection

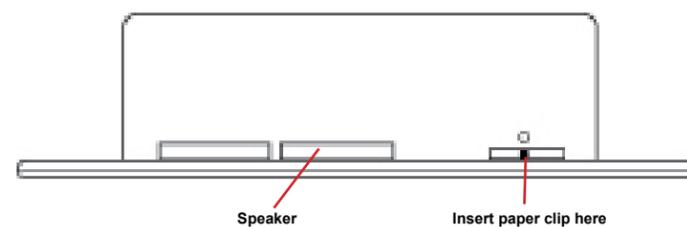


- 3 Align and slide the back of the Touch Screen into the power box. The Touch Screen is magnetic and should snap right into place.

- 4 (Optional) Note the pinhole on the bottom underside of the Touch Screen's faceplate. Should you ever need to remove the Touch Screen's faceplate, do the following:

- a. Locate the small pinhole on a tab (right side) underneath the Touch Screen.
- b. 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 Pinhole



- 5 To protect the display screen: Use one of the screen-saver options available from the **More > Settings > Screen Saver** page (OS 2.0 and later).

- 6 (WiFi only) Connect to a WAP on the Touch Screen:

- a. Select **More > Settings > Network**. The Wireless configuration screen appears.
- b. Under Wireless, select **Enable**. If you don't see the network you want, select **Other**.
- c. At Network Name, select to add the SSID or wireless network when the keyboard appears. Select **Done**.



- d. At Security, select **None, WEP 64, WEP 128, or WPA**. At Password, type the password given to you by the person who set up your home's wireless network (Control4 Dealer or Installer) on the keyboard that appears. Press **Done**.
- e. Select **Connect**. Notice that the IP settings change. The IP address is set to DHCP by default. If you need to set a static IP address instead, complete the following steps:
- f. On the Network page, press **Static**.
- g. 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**.
- h. Press **OK** to return to the Network page. You can now connect to a Control4 Director running on a Control4 device on the network.
- i. Choose the WEP key length from the drop-down list.
- j. Press **OK**.

- 7 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.

## Regulatory Compliance

### FCC/Industry Canada

FCC ID: R33D2 (InfinityEdge 5" In-Wall Touch Screen); R33D3 (InfinityEdge 7" In-Wall Touch Screen)/Canadian ID: 7848A-D2 (InfinityEdge 5" In-Wall Touch Screen); 7848A-D3 (InfinityEdge 7" In-Wall Touch Screen)

This device complies with Part 15 of the FCC Rules Sub-Part A and B and with Canada ICES-003 and RSS-Gen. 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.

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.

### Australia/New Zealand Compliance

- AS/NZS CISPR 22:2006



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

## Third-Party Trademarks

### Libertas

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

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## Warranty

Limited 2-year Warranty. Refer to <http://www.control4.com/warranty>.

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