

# Control4

## Control4 CORE Lite Controller Installation Guide



- ### Supported model
- C4-CORE-LITE    CONTROL4 SINGLE ROOM HUB & CONTROLLER

### Introduction

Designed for an exceptional family room entertainment experience, the Control4® CORE Lite Controller does more than automate the gear around your TV; it is the ideal smart home starter system with entertainment built in.

The CORE Lite delivers a beautiful, intuitive, and responsive on-screen user interface with the ability to create and enhance the entertainment experience for any TV in the house. The CORE Lite can orchestrate a wide range of entertainment devices including Blu-ray players, satellite or cable boxes, game consoles, TVs, and virtually any product with infrared (IR) or serial (RS-232) control. It also features IP control for Apple TV, Roku, televisions, AVRs, or other network-connected devices, as well as secure wireless Zigbee control for lights, thermostats, smart locks, and more.

For entertainment, the CORE Lite also includes a built-in music server that allows you to listen to your own music library, stream from a variety of leading music services, or from your AirPlay-enabled devices using Control4 ShairBridge technology.

### Box contents

The following items are included in the CORE Lite controller box:

- CORE Lite controller
- AC power cord
- IR emitters (2)
- Rubber feet (2, pre-installed)

- ### Accessories available for purchase
- CORE 1 Wall-Mount Bracket (C4-CORE1-WM)
  - Control4 1U Rack-Mount Kit, Single/Dual Controller (C4-CORE1-RMK)
  - Control4 Dual-Band Wi-Fi USB Adapter (C4-USBWIFI OR C4-USBWIFI-1)
  - Control4 3.5 mm to DB9 Serial Cable (C4-CBL3.5-DB9B)

### Requirements and specifications

- Note: We recommend using Ethernet instead of Wi-Fi for the best network connectivity.
- Note: The Ethernet or Wi-Fi network should be installed before starting the CORE Lite controller installation.
- Note: The CORE Lite requires OS 3.3.3 or newer.

Composer Pro software is required to configure this device. See the *Composer Pro User Guide* ([ctrl4.co/cpro-ug](http://ctrl4.co/cpro-ug)) for details.

- ### Warnings
- 

Caution! To reduce the risk of electrical shock, do not expose this apparatus to rain or moisture.

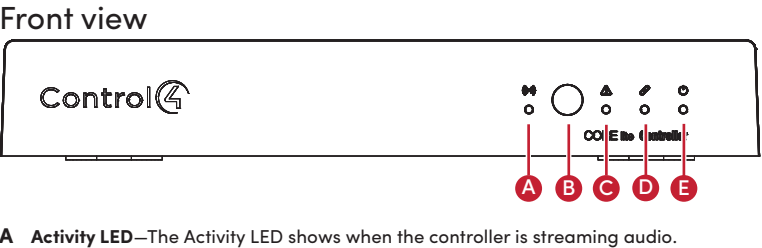
AVERTISSEMENT ! Pour réduire le risque de choc électrique, n'exposez pas cet appareil à la pluie ou à l'humidité.
- 

Caution! In an over-current condition on USB, the software disables the output. If the attached USB device does not appear to power on, remove the USB device from the controller.

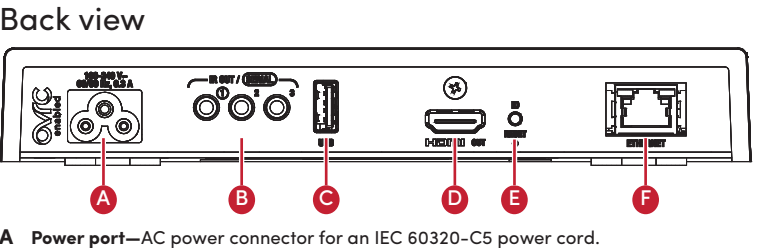
AVERTISSEMENT ! Dans une condition de surintensité sur USB ou sortie de contact le logiciel désactive sortie. Si le périphérique USB ou le capteur de contact connecté ne semble pas s'allumer, retirez le périphérique du contrôleur.

| Inputs / Outputs               |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| Video out                      | 1 video out—1 HDMI                                                       |
| Video                          | HDMI 2.0a; 3840x2160 @ 60Hz; HDCP 2.2 and HDCP 1.4                       |
| Audio out                      | 1 audio out—HDMI                                                         |
| Audio playback formats         | AAC, AIFF, ALAC, FLAC, M4A, MP2, MP3, MP4/M4A, Ogg Vorbis, PCM, WAV, WMA |
| High-resolution audio playback | Up to 192 kHz / 24 bit                                                   |
| Network                        |                                                                          |
| Ethernet                       | 1 10/100/1000BaseT compatible network port                               |
| Wi-Fi                          | Optional Dual-Band Wi-Fi USB Adapter (2.4 GHz, 5 GHz, 802.11ac/b/g/n/a)  |
| Zigbee Pro                     | 802.15.4                                                                 |
| Zigbee antenna                 | Internal antenna                                                         |
| USB port                       | 1 USB 2.0 port—500mA                                                     |
| Control                        |                                                                          |
| IR out                         | 3 IR out—5V 27mA max output                                              |
| IR capture                     | 1 IR receiver—front, 20-60 KHz                                           |
| Serial out                     | 1 serial out (shared with IR out 1)                                      |
| Power                          |                                                                          |
| Power requirements             | 100-240 VAC, 60/50Hz                                                     |
| Power consumption              | Max: 18W, 61 BTUs/hour<br>Idle: 12W, 41 BTUs/hour                        |
| Other                          |                                                                          |
| Operating temperature          | 32°F ~ 104°F (0°C ~ 40°C)                                                |
| Storage temperature            | 4°F ~ 158°F (-20°C ~ 70°C)                                               |
| Dimensions (H × W × D)         | 1.16 × 7.67 × 5.2" (29.5 × 195 × 132 mm)                                 |
| Weight                         | 1.5 lb (0.68 kg)                                                         |
| Shipping weight                | 2.3 lb (1.04 kg)                                                         |

- ### Additional resources
- The following resources are available for more support.
- Control4 CORE series help and information: [ctrl4.co/core](http://ctrl4.co/core)
  - Snap One Tech Community and Knowledgebase: [tech.control4.com](http://tech.control4.com)
  - Control4 Technical Support: [ctrl4.co/techsupport](http://ctrl4.co/techsupport)
  - Control4 website: [www.control4.com](http://www.control4.com)



- A Activity LED**—The Activity LED shows when the controller is streaming audio.
- B IR window**—IR receiver for learning IR codes.
- C Caution LED**—This LED shows solid red, then blinks blue during the boot process.
- Note: The Caution LED blinks orange during the factory restore process. See “Reset to factory settings” in this document.
- D Link LED**—The LED indicates that the controller has been identified in a Control4 project and is communicating with Director.
- E Power LED**—The blue LED indicates that AC power is present. The controller turns on immediately after power is applied to it.



- A Power port**—AC power connector for an IEC 60320-C5 power cord.
- B IR OUT/SERIAL**—3.5 mm jacks for up to three IR emitters or for a combination of IR emitters and serial devices. Port 1 can be configured independently for serial control (for controlling receivers or disc changers) or for IR control. See “Connecting the IR ports/serial ports” in this document for more information.
- C USB**—One port for an external USB drive (such as a USB stick formatted FAT32). See “Setting up external storage devices” in this document.
- D HDMI OUT**—An HDMI port to display navigation menus. Also an audio out over HDMI.
- E ID button and RESET**—ID button is pressed to identify the device in Composer Pro. The ID button on the CORE Lite is also an LED that displays feedback useful during a factory restore. The RESET pinhole is used to reset or factory restore the controller.
- F ETHERNET**—RJ-45 jack for a 10/100/1000BaseT Ethernet connection.

### Installation instructions

- To install the controller:
- Ensure that the home network is in place before starting system setup. An Ethernet connection to the local network is required for setup. The controller requires a network connection to use all of the features as designed. After initial configuration, Ethernet (recommended) or Wi-Fi (with an optional adapter) can be used to connect the controller to web-based media databases, communicate with other IP devices in the home, and access Control4 system updates.
  - Mount the controller near the local devices you need to control. The controller can be hidden behind a TV, mounted on a wall, installed in a rack, or placed on a shelf. The CORE 1/Lite Rack Mount Kit is sold separately and is designed for easy installation of up to two CORE 1/Lite controllers side by side in a rack. The CORE 1/Lite Wall-Mount Bracket is sold separately and designed for easy installation of the CORE Lite controller behind a TV or on the wall.
  - Connect the controller to the network.
    - Ethernet**—To connect using an Ethernet connection, connect the network cable into the controller’s RJ-45 port (labeled **ETHERNET**) and into the network port on the wall or at the network switch.
    - Wi-Fi**—To connect using Wi-Fi, first connect the unit to Ethernet, connect the Wi-Fi adapter to the USB port, and then use Composer Pro System Manager to reconfigure the unit for Wi-Fi.
  - Connect system devices. Attach IR and serial devices as described in “Connecting the IR ports/serial ports” and “Setting up IR emitters.”
  - Set up any external storage devices as described in “Setting up external storage devices” in this document.
  - Connect the power cord to the controller’s power port and then into an electrical outlet.

- ### Connecting the IR ports/serial ports (optional)
- The controller provides three IR ports, and port 1 can be reconfigured independently for serial communication. If not used for serial, they can be used for IR. Connect a serial device to the controller using the Control4 3.5 mm-to-DB9 Serial Cable (C4-CBL3.5-DB9B, sold separately).
- The serial ports support baud rates between 1200 to 115200 baud for odd and even parity. The serial ports do not support hardware flow control.
  - See Knowledgebase article #268 ([ctrl4.co/contr-serial-pinout](http://ctrl4.co/contr-serial-pinout)) for pinout diagrams.
  - To configure a port for serial or IR, make the appropriate connections in your project using Composer Pro. See the *Composer Pro User Guide* for details.
- Note: The serial ports can be configured as straight-through or null with Composer Pro. Serial ports by default are configured straight-through and can be changed in Composer by selecting *Null Modem Enabled (SERIAL 1)*.

- ### Setting up IR emitters
- Your system may contain third-party products that are controlled through IR commands.
- Connect one of the included IR emitters to an **IR OUT** port on the controller.
  - Place the stick-on emitter end onto the IR receiver on the Blu-ray player, TV, or other target device to emit IR signals from the controller to the target device.

- ### Setting up external storage devices (optional)
- You can store and access media from an external storage device, for example, a network hard drive or USB memory device, by connecting the USB drive to the USB port and configuring or scanning the media in Composer Pro.
- Note: We support only externally powered USB drives or solid state USB sticks. Self-powered USB drives are not supported.
- Note: When using USB storage devices on an CORE Lite controller, you can use only one partition with a 2 TB maximum size. This limitation also applies to the USB storage on other controllers.

### Composer Pro driver information

Use Auto Discovery and SDDP to add the driver to the Composer project. See the *Composer Pro User Guide* ([ctrl4.co/cpro-ug](http://ctrl4.co/cpro-ug)) for details.

### OvrC setup and configuration

OvrC gives you remote device management, real-time notifications, and intuitive customer management, right from your computer or mobile device. Setup is plug-and-play, with no port forwarding or DDNS address required.

- To add this device to your OvrC account:
- Connect CORE Lite controller to the Internet.
  - Navigate to OvrC ([www.ovrc.com](http://www.ovrc.com)) and log in to your account.
  - Add the device (MAC address and Service Tag numbers needed for authentication).

Troubleshooting

Reset to factory settings

 Caution! The factory restore process will remove the Composer project.

To restore the controller to the factory default image:

- 1 Insert one end of a paper clip into the small hole on the back of the controller labeled **RESET**.
- 2 Press and hold the **RESET** button. The controller resets and the **ID** button changes to solid red.
- 3 Hold the button until the **ID** flashes double orange. This should take five to seven seconds. The **ID** button flashes orange while the factory restore is running. When complete, the **ID** button turns off and the device power cycles one more time to complete the factory restore process.

 Note: During the reset process, the **ID** button provides the same feedback as the Caution LED on the front of the controller.

Power cycle the controller

- 1 Press and hold the **ID** button for five seconds. The controller turns off and back on.

Reset the network settings

To reset the controller network settings to the default:

- 1 Disconnect power to the controller.
- 2 While pressing and holding the **ID** button on the back of the controller, power on the controller.
- 3 Hold the **ID** button until **ID** button turns solid orange and the Link and Power LEDs are solid blue, and then immediately release the button.

 Note: During the reset process, the **ID** button provides the same feedback as the Caution LED on the front of the controller.

LED status information

     —Flashing LED     —Solid LED

|                                                                                   |                                                                                     |                                                                                     |                                                                                                              |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|  |  |                                                                                     |  Just powered on          |
|                                                                                   |                                                                                     |                                                                                     |  Boot started             |
|                                                                                   |                                                                                     |                                                                                     |  Boot complete            |
|  |  |  |  Network reset check      |
|                                                                                   |  |                                                                                     |  Factory restore underway |
|                                                                                   |                                                                                     |  |  Connected to Director    |
|  |                                                                                     |  |  Playing audio            |
|                                                                                   |                                                                                     |  |  Updating                 |
|                                                                                   |  |  |  Update error             |
|                                                                                   |  |                                                                                     |  No IP address            |

More help

For the latest version of this document and to view additional materials, open the URL below or scan the QR code on a device that can view PDFs.



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