

Install Guide for CasaTunes Keypads

NOTICE; Install your other hardware before installing the keypads. Do not connect the USB6 Keypad Hub to the USB port until told to in the instructions that follow.

NOTICE: CasaTunes hardware is designed for professional installation only. Follow all NEC (National Electrical Code) national wiring rules, as well as local codes. The Cat5 cables connecting between the USB6 Keypad Hub and the Keypads (Step 1 Below) should not be routed outside the home (to prevent risk of lightning damage and shock) and are not meant to be connected to any other equipment, such as Ethernet switches.

NOTICE: The DC inlet on the USB6 Keypad Hub (just below the USB connector on the front of the wall plate) is to be used only with a CasaTunes optional 5VDC power supply with positive center conductor. For future use with higher powered Keypads.

Please leave your Keypads and the USB6 Keypad Hub in their protective bags until you are ready to install them in the electrical box or mounting ring in steps 4 and 5 of the hardware installation section below. When handling these devices, try to keep yourself grounded as much as possible to minimize the possibility of damage due to electrostatic discharge.

Additional information:

See the CasaTunes Operation's Guide on the CD-ROM that came with the device for more information on the following:

- Troubleshooting information
- Important safety notices and regulatory information
- Detailed user instructions

General Information

The Keypads are controlled by the CasaTunes program and interface to the CasaTunes Server via the USB6 Keypad Hub that connects to the computer using the computer's USB port. Each USB6 Keypad Hub can support up to six keypads, so you will need one USB6 Keypad Hub for one to six Keypads and additional USB6 Keypad Hubs as you add more Keypads. The Keypads and the USB6 Keypad Hub mount into electrical boxes or low-voltage rings in a fashion similar to electrical outlets.

Hardware Installation

Hardware Installation Steps:

1. Pre-wire the house with CAT5, CAT5e, CAT6 (or better) cables, wiring from the Keypad locations to a location close to where the CasaTunes server PC will be placed. In this guide we will call the cables CAT5 cables, for convenience. Check your local building codes and make sure you use cable that is approved for in-wall home wiring. Do not route cables outside the house, since this improves the chance of lightning caused damage. Crimp RJ45 connectors to both ends of each cable. You can use any standard wiring scheme for these connectors as long as both ends are the same. These cables should NOT use "cross-over" wiring. Please use a good quality tool and verify that all connections are proper.
2. Mount single gang electrical boxes or low-voltage mounting rings at the location of each Keypad. If you will be mounting alongside AC switches or other high voltage devices, make sure you follow NEC, UL and local government codes. Specifically, all high voltage wires for the AC devices must be enclosed and the low voltage Keypad wires cannot be in the same enclosure as the high voltage wires. This means that if you use a dual gang box for an AC switch and the CasaTunes Keypad, there MUST be a divider between the two halves of the box.
3. Mount a single gang electrical box or low-voltage mounting ring for the USB6 Keypad Hub. The USB6 should be mounted close to where the CasaTunes server computer is to be installed. If you have more than 6 Keypads and need to mount two (or more) USB6 devices, make sure you separate the boxes so that the built-in wallplates of the USB6s do not interfere with each other. At this time, CasaTunes does not supply a dual mounting USB6 wallplate. Also, because of the built-in wallplate, the USB6 cannot be mounted in a multi-gang electrical box with other devices.
4. At the Keypad location, simply plug the CAT5 cable into the back of the Keypad and mount the Keypad to the box or ring using the supplied 6-32 x 1" screws. Attach any Decora® style wallplate. If you prefer "screwless" wallplates, our Keypad works perfectly with Lutron®'s line of screwless Decora style wallplates, and they also work well with the Leviton® Decora screwless wallplate. If you need a Keypad in a color other than Almond, we also have faceplates in Black, Ivory and White. They are easily replaced using a size 1 Phillips head screwdriver. (Included in box). Instructions are included with the replacement faceplates.
5. At the computer end, take the CAT5 cables from the Keypads and plug them into the back of the USB6 Keypad Hub and mount the Hub into the box or mounting ring using the supplied 6-32 x 1" screws. You can plug any CAT5 from any Keypad into any RJ45 socket of any USB6 Keypad Hub.
6. Plug the supplied USB cable between the USB6 Keypad Hub and a USB connector on the computer. We Supply a 6' USB cable with each USB6 Keypad Hub. If you need to use other lengths, we recommend that you use a good quality USB 2.0 certified cable. Also, the USB6 works will with USB extenders (even with USB 1.1 extenders) if the computer is not near the USB6 Keypad Hub. If you are using multiple USB6 Keypad Hubs in a large home and need more USB ports you can use a powered USB Hub.

Setup Guide

1. If you are installing the Keypads as part of a complete CasaTunes system, follow the guide included with the system for instructions on installing CasaTunes software. If you are adding the Keypads to an existing system, go to www.castunes.com/downloads.aspx to download and install the latest version of CasaTunes. During installation make sure you check the "Install the CasaTunes Keypad Driver Software" box. Even if you are not changing the version of the CasaTunes software, you should reinstall the latest version in order to install the Keypad driver.
2. After CasaTunes software is installed and the computer is running, plug the USB cable from the USB6 Keypad Hub into any USB connector on the PC.
3. Go to each Keypad and assign the zone that the Keypad controls
 - a. Turn on the Keypad (hit the lower right button)
 - b. Press and hold the Source button until you see a menu
 - c. Use the up and down buttons to highlight "Zone Setup" and press the right button to enter setup
 - d. Use the up and down buttons to highlight the zone name for the room that the Keypad is in and press the Source button to select this zone name.
4. The Keypads are now ready to use

Basic Keypad Instructions

For more details, see the operation guide

1. When the power in the room is off, you will see a display with no backlighting and with "CasaTunes" in the first line and the time of day in the second line. The Keypad gets the time from the CasaTunes Server computer.
2. When the power in the room is on, you will see a three line display with status information on the top line, information about the currently playing music, such as the artist and song, or the radio station if listening to internet radio, in the middle line, and the song progress in the bottom line.
3. The power in the room can be turned on and off with the lower right button
4. The top and bottom buttons in the ring of buttons turn the volume up and down
5. The center button changes the source, or player, that you are listening to
6. The left and right buttons change the song to the Next or Previous song or station, depending on whether you are listening to a playlist or a internet radio station
7. Holding the source button in for more than 3 seconds takes you to a menu where you can change Music, Bass, Treble, Balance, Loudness, and the DND (Do Not Disturb) and other settings.

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