

**INSTALLATION 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.

**SAFETY 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 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.

**Please note that there is a power inlet covered by a vinyl sheet, just below the USB connector on the USB6. It is not used in our current products. If it is used in the future, we will be supplying a DC power supply. The following safety notices are required by UL regarding this connector and any future CasaTunes supplied power supply.**

**SAFETY NOTICE:** The DC inlet on the USB6 (just below the USB connector on the front of the wallplate) is to be used only with a CasaTunes optional 5VDC power supply with positive center conductor.

**SAFETY NOTICE:** The XLe-USB DC power supply cord is not intended for permanent installation. Do not attach the power cord to the building surface nor run through walls, ceilings, floors or similar openings in the building structure.

**SAFETY NOTICE:** Measures must be taken to prevent physical damage to the XLe-USB power supply cord, to include the routing of the cord where it is unlikely to be walked on or crushed and provisions of a socket outlet near the XLe-USB, or positioning the XLe-USB near a socket outlet.

**SAFETY NOTICE:** The Keypads and the Keypad Hub are low-voltage devices. If you mount them in an electrical box, for safety's sake **do not** bring any high voltage wiring into the same box.

**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

**WARNING: Not for outdoor use.**

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.

## Hardware Installation

### General Information

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

### Steps

1. Pre-wire the house with CAT5, CAT5e, or 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. 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, CasaTools 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 wall plate. 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.
5. At the computer end, take the CAT5 cables from the Keypads and plug them into the back of the USB6 and mount the USB6 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. Room assignments for the Keypads are easily configured at the Keypad during software setup, later.
6. Do **not** install the USB cable from the USB6 to the computer at this time.

## 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 the customer service section at [www.casatunes.com](http://www.casatunes.com) and 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 CasaTunes 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 into any USB connector on the PC. In XP, the "Found New Hardware wizard" may pop up when the USB6 is connected to the computer. At this point you can follow the wizard's steps to finish the installation of the USB6 driver. In Vista this should happen automatically.
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.
  - e. The Keypads are now ready to use.

## Basic Keypad Instructions (for more details, see the CasaTunes Operations Guide and "Using CasaTunes Keypads" in the "How To Guides" section of [casatunes.com](http://casatunes.com))

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 an 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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