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# 890 Pro Harmony Remote

User Manual version1.0

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# Introduction

Congratulations on the purchase of your Harmony remote! This User Manual will introduce you to the basic online setup process, customizations and main features of your Harmony remote, and instructions on using the remote with a Harmony RF Wireless Extender.

If in doubt about how to set up your Harmony remote, follow the information and instructions using the Logitech Harmony remote software (also referred to as Harmony remote software).

The Harmony remote is an Internet-powered universal remote control. Your Harmony remote can control most devices that understand infrared (IR) signals.

The configuration of your Harmony remote is simple:

- You will be prompted to answer questions about your entertainment devices to create your own personal Harmony remote configuration.
- Your answers will provide us with a description of the entertainment devices you want to control, how they are set up, and your preferences for controlling them.
- If one of your devices is not in the Harmony remote's database, the Harmony remote software will learn about your device and add it to your configuration.
- Once you have told us about your devices, you will then be guided through setting up Activities. Creating Activities is simple: you will be prompted to indicate the devices you use within an Activity and how you want to control specific features, such as the volume, within that Activity.
  - An Activity is a set of commands the Harmony remote sends to your entertainment system to turn on the necessary devices.
  - Once you have selected an Activity, you are in Activity mode, and the functionality of each button on your Harmony remote is automatically configured for that Activity.
  - Additionally, the display buttons will give you access to other commands for that Activity, which cannot be set to the standard buttons.

## Example

For the Watch Television Activity, the Harmony remote sends commands to your entertainment system to turn on the necessary devices so you can watch television. The remote will automatically be configured for the Activity based on the answers you selected during the online setup process for the Activity.

At the end of the setup process, you will have your own configuration loaded in your Harmony remote.

Use your Harmony remote software to:

- Customize any of your Harmony remote's features.
- Add more entertainment devices.
- Add more Activities.

## Getting to Know Your Harmony Remote

Many of the Harmony remote's buttons are standard remote buttons. However, there are buttons and other hardware that may not be so familiar to you. The extra buttons and hardware give you access to the special features of the Harmony remote.



**USB Connector:** Connect one end of the USB cable to this connector and the other end to your computer so that you can download your configuration using the Harmony remote software.

**OFF:** Turns all devices off with one button press.

**ACTIVITIES:** Press Activities to view a list of Activities you have added. Press the display button next to the Activity you want and the Harmony remote will set up your entertainment system.

**HELP:** Asks you simple questions so that your Harmony remote can fix problems you are having within an Activity.

**Display:** Shows a list of your Activities and devices, help, infrared (IR) commands and any available listings.

**Display Buttons:** Use the buttons at the side of the display to select the corresponding command.

**GLOW:** Turns on and off the backlight on the Harmony remote.

**PREV:** Goes to previous television channel.

**DEVICE:** Lists all your devices on the display, and allows you to select and directly control any device.

**MEDIA:** In the Watch TV Activity, press this button to view your Favorite Channels on the display.

**Left/Right Arrow:** Allows you to view more options on the display.

**Smart Buttons:** While there is a default setting for the buttons in most Activities, you can customize these buttons to send different commands.

**MENU:** Gives you access to the menu system on a device, if you have a device with this feature.

**EXIT:** Exits from the Guide feature.

**GUIDE:** Gives you access to view program listings, if you have a device with this feature.

**INFO:** Gives you additional information on program listings, if you have a device with the Guide feature.

**Infrared Learning Port:** The Harmony remote uses this port to learn commands from your original remote.

## ***Beginning the Setup Process***

Once you have installed the Logitech Harmony remote software, you will be guided through a series of question-and-answer steps to complete each of the five main steps of the online setup process:

1. **Login Information:** Create your login information.
2. **Check Connection:** Ensures your computer and your Harmony remote are communicating properly.
3. **Set Up Devices:** Helps you provide us with information about the devices in your personal home theater system.
4. **Set Up Activities:** Helps you provide us with information about the way your devices work together to perform Activities (e.g. **Watch Television** Activity).
5. **Update Remote:** Updates your remote with your personal settings.

**Note:** When using the Harmony remote software, click **Help** to view specific help for the step you are at.

# Using Your Harmony Remote

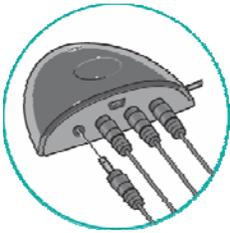
This section provides you with information that will help you get the most out of your remote.

## ***Using the Remote with the RF Wireless Extender***

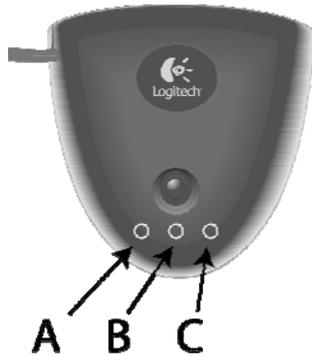
The Harmony RF Wireless Extender allows you to use the Harmony remote to control devices that are out of view (e.g. they are inside a cabinet).

**Note:** Update the RF Wireless Extender each time you make any changes to the configuration of your remote.

The RF Wireless Extender has four dual-head IR (infrared) emitters (one emitter can control two devices) that can be used to control up to eight devices that are out of extender's range.



The lights on the RF Wireless Extender provide users with important information, such as:

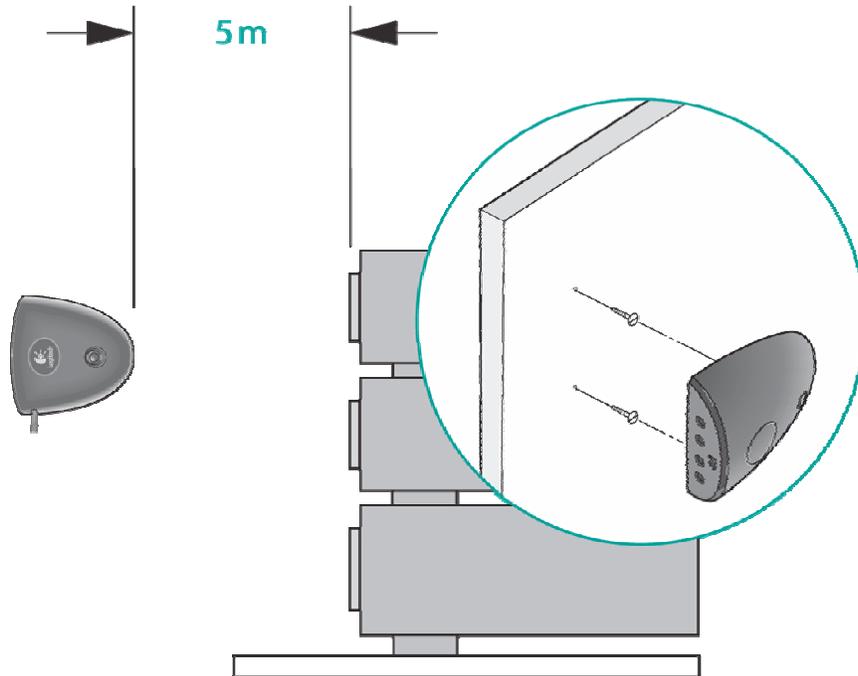


- Status (A)
  - Indicates that the RF Wireless Extender is sending commands.
- Power (B)
  - Indicates that the RF Wireless Extender is powered either by AC or USB.
- RF (C)
  - Indicates that the RF Wireless Extender is receiving RF signals.

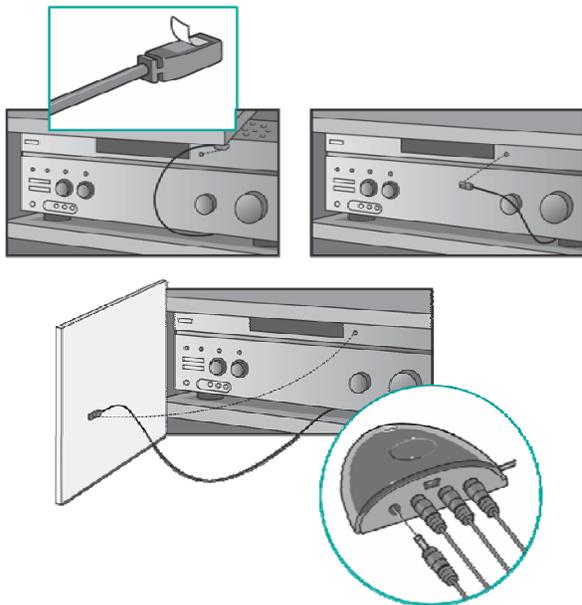
## Installing the RF Wireless Extender

The extender can be wall-mounted or installed inside the cabinet where your devices are located.

### Wall-Mounted



### Cabinet



### Adding Additional RF Wireless Extenders to an 890 Pro Account:

You are able to add up for 6 Harmony 890 Pro remotes to one account. Additional RF Extenders must be added in the Z-Wave network setup portion of the remote control software. Once added, the must be paired with the primary remote.

This ensures the remote properly stores the pairing information. In the event the battery in the 890 Pro is removed and the remote reboots, the remote will still be able to control all the devices that are mapped to the RF Extender.

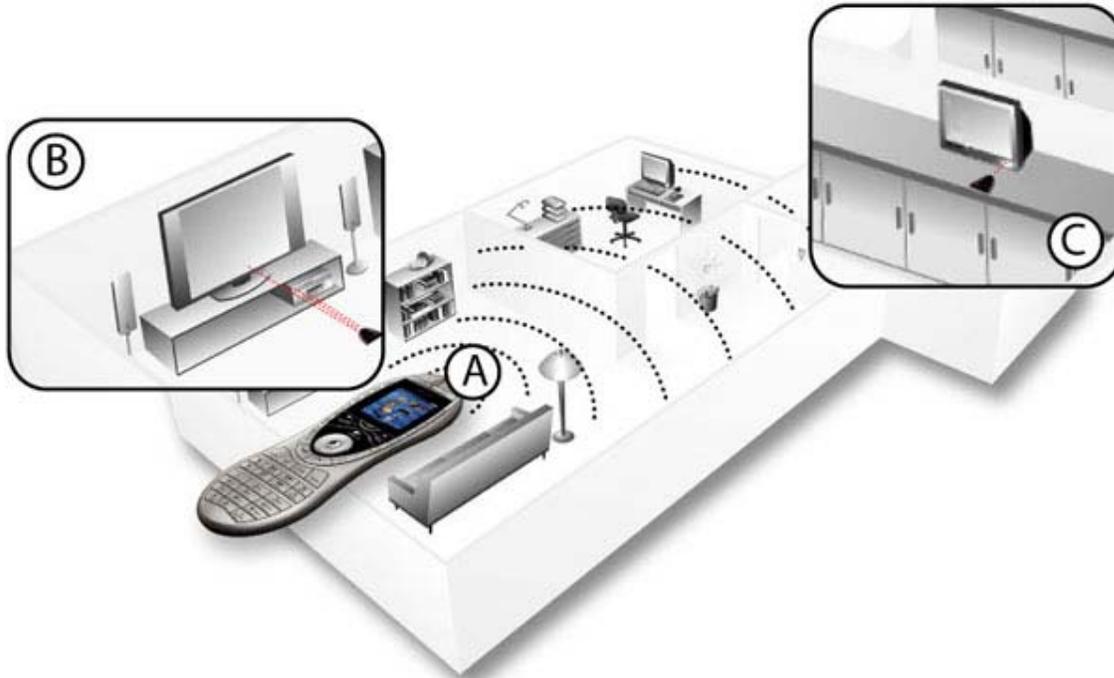
**To add additional RF Extenders:**

1. Click **My Remote** on your home page.
2. Click **Add**.
3. Select **RF Extender**.
4. Click **Next**.
5. Ensure your RF Extender is connected to your computer via the USB cable.
6. Click **Next**.
7. Once the RF Extender has been successfully added, return to your home page.
8. Click **Modify Settings** on your home page.
9. Click **Modify** under the lights column.
10. Select **No** when asked if you want to update your account with the changes from the remote.
11. Click **Lighting Setup**.
12. Ensure the primary remote is connected to your computer via the USB cable.
13. Once the remote control software is finished transferring the information to the remote, unplug the remote from the USB cable.
14. Press the **Activities** button on the remote.
15. Select **System Options** from the LCD of the remote.
16. Select **RF Network Tools**.
17. Select **Connect to RF Extender**.
18. Follow the instructions on the LCD of the remote to pair the remote with the RF Extender.
19. Once the remote has been paired successfully with the RF Extender, connect the remote to your computer.
20. Click **Next** to upload the pairing information to the remote control software.
21. Click **Update Remote** on your home page to update your remote and extender with your configuration.

**Note:** Once the pairing information has been uploaded, you can then map devices to your newly added RF Extender.

## Assigning Devices to the Harmony Remote and the RF Wireless Extender

You can assign either the Harmony Remote or the RF Wireless Extender to control your devices. Non-shared devices (devices that do not span different rooms) should be controlled by the remote. All other devices should be controlled by the RF Wireless Extender to preserve the on/off state of the devices.



#### ***Controlling a Device with the RF Wireless Extender:***

If you have set the RF Wireless Extender to control a device, the remote will send RF (radio frequency) signals (see A) to the RF Extender, which will then convert the signals to IR and send the signals to the device. Controlling devices using the RF Extender means you can control the devices even if they are behind closed doors (e.g. a cabinet) or in a different room (see B and C).

#### ***Controlling a Device with the Remote:***

If you have set the remote to control a device, the remote will use IR (infrared) signals to control the device. In order for the remote to control the device, there must be a direct line of sight between the signal sent by the remote and the device receiving the signal (see A).

### **Port Addressing on the RF Wireless Extender**

The RF Wireless Extender can have its ports addressed. This allows a single port on an extender to control a device independently from the other ports. This allows multiple identical devices to be controlled independently from just one RF Extender.

IR commands for a device can be assigned to either fire from all ports simultaneously (default), individual ports (A, B, C or D), or the top-mounted IR blaster.

#### ***To assign a device to a specific port:***

1. From **Home** in the Harmony software, click **Devices**.
2. Click **Control Devices With....**
3. Click the **Assign IR Port on Wireless Extender** checkbox.
4. Click **Next**.
5. Select the port next to the device under the **Port** column.
6. Click **Next**.
7. Click **Done**.
8. Click **Update Remote** to upload these changes to the remote.

## ***Adding Additional Harmony 890 Pro remotes to a Harmony 890 Pro Account***

You can add up to 6 Harmony 890 Pro remotes to a Harmony 890 Pro account. Only Harmony 890 Pro remotes can be added to a Harmony 890 Pro account. You cannot add other remotes to Harmony 890 Pro accounts. In addition, Harmony 890 Pro remotes cannot be added to other accounts.

### ***To add additional Harmony 890 Pro remotes:***

1. Log in to your account.
2. Click **My Remote**.
3. Click **Add**.
4. Select the 890 Pro remote.
5. Click **Next**.
6. Ensure your 890 Pro remote is connected to your computer via the USB cable.
7. Click **Next**.

Once the remote is added to the account, devices can then be mapped to it.

## ***Using Multiple Remotes and RF Wireless Extenders***

When setting up a multi-remote, multi-extender account, it is important to remember which remote performs the Z-Wave network setup (the remote that you pair the lights and extender to). This remote is referred to as the **Primary remote**. It is strongly recommended that you put a means of identifying the primary remote (e.g. a sticker) on the remote for easy identification later.

Even though each remote is connected and a configuration file is downloaded after account setup, some Z-Wave information is not transmitted to the other remotes.

Once you have completed the setup you must send the information from the primary remote to the other remote(s) (these other remotes are referred to as secondary remotes). This is an important step in ensuring that everything works properly. The instructions for this step can be found on the web page immediately after the configuration is downloaded.

Once the remotes and RF extenders have been updated, you need to set the **Primary remote** and the **Secondary remote**.

**Note:** Do not have more than one remote operating at the same time in the same room.

### ***Setting the Primary Remote:***

1. Once you have updated your remotes, the display on the remotes will show a welcome greeting; press **OK**.
2. Continue pressing **OK** until you see the start of the **Activities** menu.
3. Press **System Options**.
4. Press **RF Network Tools**.
5. Press **-->** to view more options.
6. Press **Add a Secondary Controller** (only the Primary remote has this option) to add the remote.

**Note:** If you do not see this option, it means you are not setting the correct remote. Go to step 4 in [Setting the Secondary Remote](#).

7. Once the remote has been added, a message will appear. Press **OK** to return to the start of the **Activities** menu.

**Setting the Secondary Remote:**

1. Press **System Options**.
2. Press **RF Network Tools**.
3. Press --> to view more options.
4. Press **Set Learn Mode** (option only available on the secondary remote).

**Note:** If you don't see this option, it means you are not setting the correct remote. Go to step 6 in [Setting the Primary Remote](#).

5. A message will appear indicating the mode has been set. Press **OK** to return to the start of the **Activities** menu.

**Adding Multiple Locations**

When setting up the remote, add locations for each room that contains devices you wish to control with the remote. You can add a maximum of 6 locations. If you have locations in your home that are different from the default locations listed, you can type the name of the location in the text box provided. Even if you only have 1 location, still add it.

Setting up locations will allow the remote to keep track of the state (i.e. if they are on or off) of your devices so you can use the remote in any room, without your devices getting out of sync.

**Adding Z-Wave Devices**

Additional Z-Wave devices must be added to the primary remote.

**To add additional Z-Wave devices:**

1. Log in to your account.
2. Click **Modify Settings**.
3. Click **Modify**.
4. Select **No** when asked if you want to download Z-Wave network setup from the remote.
5. Click **Modify** beside the location you wish to add Z-Wave devices to.
6. Click **Add Z-Wave Devices**.
7. Once added, confirm the name you are giving the Z-Wave device. We recommend giving the Z-Wave device an intuitive name. For example, "Bedroom Small Lamp".
8. Click **Save**.
9. Click **Lighting Setup** to begin uploading the Z-Wave configuration to your remote.
10. Connect the primary remote to your computer.
11. Click **Next**
12. Once the remote control software has finished uploading the information to the remote, disconnect the remote from the USB cable
13. Follow the instructions on the LCD of the remote to pair the remote with your Z-Wave device. You will only need to pair with the new Z-Wave you added.
14. Once the Z-Wave device has been paired with your remote, return to your computer and connect the remote to your computer via the USB cable.
15. Click **Next** to upload the pairing information to the remote control software

**Note:** Once the pairing information has been uploaded, you can then create scenes that include your newly added Z-Wave device and finally map your scenes to an Activity.

## Adding Multi-zone Receivers

When adding a multi-zone A/V receiver or multi-zone amplifier, it is not automatically recognized as a multi-zone device when you enter the model number. To add a multi-zone device to the account, you must add each zone as its own device.

For example, on a Denon AVR-1804 2-Zone A/V receiver, you add zone one first (by simply adding any other device). Add it as:

**Device Type:** Amplifier

**Brand:** Denon

**Model:** AVR-1804.

To add the second zone, simply add the device again but with “(Zone 2)” as a suffix:

**Device Type:** Amplifier

**Brand:** Denon

**Model:** AVR-1804 (Zone 2)

The “(Zone 2)” suffix identifies that device as having an “Additional zone” and uses the appropriate IR (infrared) codes for that second zone. Add additional zones from the A/V Amplifier/Receiver as Zone 3, 4, 5...etc.

If the database does not have the device categorized as a multi-zone device then you will need to learn the IR codes for this device.

## Creating a Scene

Creating Scenes allows you to set the state of one or more Z-Wave devices. Once a scene is created it can then be mapped to an Activity. This allows you to set the state of one or more of your Z-Wave devices when entering an Activity.

When setting up your scenes, the following default scenes will be created:

- **All On:** Turns all z-wave devices in all locations on.
- **All Off:** Turns all z-wave devices in all locations off.
- **All 50%:** Sets all dimmable z-wave devices in all locations to half.

In addition, three default scenes will be created per location. If two locations are added (e.g. Master Bedroom and Living Room), the following scenes would be added by default:

- Master Bedroom On
- Master Bedroom Off
- Master Bedroom 50%
- Living Room On
- Living Room Off
- Living Room 50%

### **To make modifications to a default scene:**

1. Click **Modify Settings** on your home page.
2. Click **Modify** under the Scenes column.

3. Click **Change** beside the scene. This allows you to add or remove Z-wave devices from a scene as well as adjusting the dimmable z-wave devices.
4. Click **Next** after making all your desired changes.
5. Click **Done**.

**To add a new Scene:**

1. Click **Modify Settings** on your home page.
2. Click **Modify** under the Scenes column.
3. Click **Add Scene** on the Scene Setup page.
4. Type the name of the scene in the text box provided.
5. Click **Save**.
6. Select the Z-Wave devices to add to the Scene.
7. Adjust the slider to set the state of the device. Far left = Off, middle = 50%, far right = On
8. Click **Next**.

### Mapping a scene to an activity

Mapping a scene to an activity tells the remote to play that particular scene at the beginning of the selected activity. For example, if you want the remote to turn off all the lights in the living room when you watch a DVD, you could map the "Living Room Off" scene to the Watch DVD activity.

**To map a scene to an activity:**

1. Click **Modify Settings** on the home page.
2. Click **Modify** under the Scenes column.
3. Click **Map Scene to Activity**.
4. Map the desired scene to an activity by clicking the drop down under the Scene column.
5. Click **Save**.

**Note:** It is not possible to map a scene to the end of an activity or when you press the OFF button.

Once you have powered your system off, you can manually launch a scene by doing the following:

1. Press the **Activities** button on the remote.
2. Press **RF Control** from the LCD screen.
3. Select the scene using the soft buttons on either side of the LCD.
4. If you do not see the scene you are looking for, try selecting **Change Room** to look for scenes in other rooms.

### Using the Glow Button

Press the **Glow** button to light up or turn off the display backlight. Use the Harmony Remote Software to determine the length of time the backlight stays on.

## Recharging the Battery

Place your remote in the base station to charge. While the remote's battery is charging:

- The display and its backlight, and the keypad backlight remain on.

**Note:** Press the GLOW button to turn the backlight off.

- The battery level icon in the status bar flashes when the battery is still charging or will display a full battery level when charging is complete.



When the battery is low, the display will flash a message to remind you to charge the battery.

## Using the Tilt Sensor

**Note:** Whenever you pick up the remote from the base station, or replace it in the station, you will hear a beep.

When you pick up the remote slightly tilted, the display will automatically turn on and the keypad light up. To enable/disable these features:

1. From **Home** in the Harmony software, click **Remote Preferences**.
2. Click **Settings**.

## Selecting an Activity

View the Activities you have added by pressing the **Activities** button. The display will then list the Activities you have added. Press the corresponding display button next to the Activity you want to start.

As a default, when you select an Activity, you will see a message on the remote's display reminding you to keep the remote pointed at your entertainment system while the Activity starts. This helps ensure that all infrared (IR) signals are properly sent.

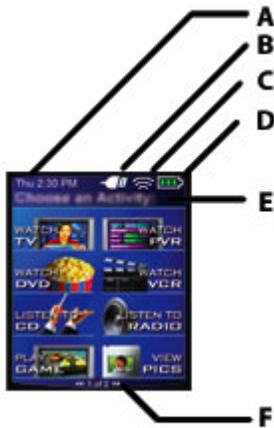


To turn on/off the "Starting Activity" message:

1. Connect your Harmony remote to your computer to start the Harmony remote software.
2. Click **Remote Preferences**.
3. Select **Settings**.
4. Click **Next**.

## Viewing the Status and Navigation Bars

The status bar provides users with important information such as:



- **A:** Date and time
  - To set the time-display format click **Remote Preferences** (from home in the Harmony software) and then click **Settings**.
- **B:** Indicator if the USB is attached
- **C:** Indicator when infrared (IR) commands are being sent to your devices
- **D:** Battery indicator (battery's power)
- **E:** Activity you are in (if applicable)

The navigation bar displays information such as:

- **F:** The number of screens available in a menu, and the screen currently displayed

## Displaying Help on Your Harmony Remote

From time to time when you select an Activity, the Activity may not work. This can happen when the Harmony remote sends many infrared commands to set up all your devices for an Activity, but one or more devices are not receiving some commands. The Harmony remote is then "out of sync" with your devices (e.g. it thinks one of your devices is on, but it is turned off). Some of the reasons the Harmony remote can become "out of sync" with your system are:

- Someone walks between the Harmony remote and your entertainment system while an Activity is starting.
- You point your Harmony remote away from your system while an Activity is starting.
- There is an object blocking the line-of-sight between your Harmony remote and the system.
- You are very far away from your entertainment system.

You will need to use the **Help** button on your Harmony remote to resynchronize the remote with your devices. Before resynchronizing, ensure the cause of the problem has been addressed.

### Example

Remove all obstructions so that the entertainment devices can receive the infrared commands from the Harmony remote.

### To resynchronize:

1. Press the **Help** button.



2. Answer the questions on the remote's display by selecting **Yes** or **No**. If you answer no to any question, the Harmony remote will resend the necessary command and ask you the same question again.

When you are done, the Harmony remote will be "in sync" with your devices again.

## Types of Help Available

You can customize the **Help** button on your Harmony remote to provide one of the following types of help:

- **Smart help**  
Asks questions about the devices that are on during a specific Activity.
- **Full help**  
Asks questions about all the devices in your help system.

Select **Full help** if you find devices that aren't being controlled the way you want them to, and the help on the remote is not asking you questions about these devices.

### ***To select the type of help you want:***

1. Connect your Harmony remote to your computer to start the Harmony remote software.
2. Click **Remote Preferences**.
3. Select **Settings**.
4. Click **Next**.

## Using the Remote Assistant

Extra help is available from your remote by turning on the **Remote Assistant**.

### ***To turn on/off this feature using the Harmony remote software:***

1. From **Home** in the Harmony software, click **Remote Preferences**.
2. Select **Settings**.
3. Click **Next**.

While the **Help** button helps you solve device problems within an Activity, the **Harmony Assistant** teaches you how to use your Harmony remote. The following is an example of the type of help the **Harmony Assistant** offers:

#### **Example**

If any devices are not set up correctly, press "Help" now.

## Controlling Individual Devices

Press **Devices** to enter device mode. Device mode gives you access to all the possible commands for each device included in your Harmony remote configuration. To access device mode you do not need to be in an Activity. However, you should never need to use device mode during normal use of your Harmony remote. This mode should only be used to send a specific command to a specific device.

You can eliminate the use of device mode by customizing your Activities.

#### **Example**

You can put commands on the display or customize specific buttons for the commands.

See [Customizing Your Harmony Remote](#).

At any time, press **Devices** to switch into device mode. Once in this mode, the Harmony remote will display a list of all the devices you have in your configuration. Select a device from the list and the Harmony remote will only control the device features for the device.

#### Example

If you choose Television as the device, the number, volume and channel buttons will all control your television.

Press **Devices** to return to Activity mode.

### Sound Mode

Sound mode focuses on controlling the sound features of the device you have chosen to control your sound (e.g. Stereo Receiver). When you are in any Activity, press **Sound** to switch to this mode. Once in Sound mode, the Harmony remote will only control sound features.

#### Example

If you choose Stereo Receiver to control the sound in your **Watch a DVD** Activity, press **Sound** and your Harmony remote buttons will now be set to control the sound features of the Stereo Receiver. The display will provide you with access to other sound-related commands such as Surround Field or Bass+.

Press **Sound** to return to Activity mode.

### Picture Mode

Picture mode focuses on controlling the picture features of the device (e.g. TV or Projector) you have chosen to display video.

When you are in any Activity, press **Picture** to switch to this mode. Once in Picture mode, the Harmony remote will only control picture features.

#### Example

If you have chosen your Projector to display the video in your **Watch a DVD** Activity, press **Picture** and your Harmony remote buttons will now be set to control the picture features of the Projector. The display will provide you with access to other picture-related commands such as Aspect or Picture Adjust.

Press **Picture** to return to Activity mode.

## Using the Smart Buttons

While there is a default setting for the buttons in most Activities, you can customize these buttons to send different commands. See [Changing the Behavior of Buttons Within an Activity](#).



## Using System Options

Press **System Options** on your Harmony remote to:

- Set the time and date.
- Turn the slide show on/off.
- Temporarily turn the **Remote Assistant** on/off (available only if you selected the option under **Remote Preferences** on home in the Harmony software—see [Using the Remote Assistant](#).)

# Customizing Your Harmony Remote

This section provides information that will help you to customize the commands and options listed on the Harmony remote's display.

## Changing the Behavior of Buttons within an Activity

When you select an Activity, the Harmony remote will:

- Turn on all the correct entertainment devices
- Set the device inputs correctly
- Set up the remote's buttons to control the Activity

Based on our knowledge of how each of your devices is controlled, the Harmony remote will make its best effort to match all the buttons you need to control an Activity.

However, there may be some commands you want to add to buttons or list on the display. Commands can be added to buttons quickly and easily by customizing any Activity to change the behavior of buttons.

### ***To change the behavior of buttons:***

1. Connect your Harmony remote to your computer to start the Harmony remote software.
2. Click **View Activities**.
3. Click an Activity.
4. Click **Change the Behavior of Buttons** to view the:
  - Buttons that have a command associated with them
  - Device being controlled
  - Command being sent to the device

### ***To set a button to send a command to more than one device at a time:***

1. Connect your Harmony remote to your computer to start the Harmony remote software.
2. Click **View Activities**.
3. Click an Activity.
4. Click **Change the Behavior of Buttons**.
5. Select a command from the list in each of the required device columns, next to the name of the button for which you want to set a command.

## Adding Custom-Labeled Buttons

You can also add any number of custom-labeled buttons to an Activity.

### ***To add a custom-labeled button for an Activity:***

1. Connect your Harmony remote to your computer to start the Harmony remote software.
2. Click **View Activities**.
3. Click an Activity.
4. Click **Change the Behavior of Buttons**.
5. Under the **Custom Button Label** column, type the name for the button label you would like to appear on the display.

6. Select a command from the list in the appropriate device column, next to the name of the button you want to set.
7. Click **Done**.

**Note:** Custom-labeled buttons are displayed on the Harmony remote's display from left to right, top to bottom.

***Add a custom-labeled button to send a command to more than one device at a time:***

1. Connect your Harmony remote to your computer to start the Harmony remote software.
2. Click **View Activities**.
3. Click an Activity.
4. Click **Change the Behavior of Buttons**.
5. Select a command from the list in each of the required device columns next to the name of the button you want to set.
6. Add as many custom-labeled buttons as you like. Click **More Custom Labels** to add labels one at a time.
7. When you update your Harmony remote, use the **Right Arrow** and **Left Arrow** on the remote to view your custom-labeled buttons.

## ***Changing the Settings for your Harmony Remote***

Click **Remote Preferences** to change the remote's settings:

- Turn on/off Harmony Assistant (for additional information, see [Displaying Help on Your Harmony Remote](#).)
- Select the type of help to display on the remote (for additional information, see [Displaying Help on Your Harmony Remote](#).)
- Set the backlight timing (for additional information, see [Using the Glow Button](#).)
- Show/Hide the "Starting Activity" message (for additional information, see [Selecting an Activity](#).)

## ***Learning Infrared (IR) Commands***

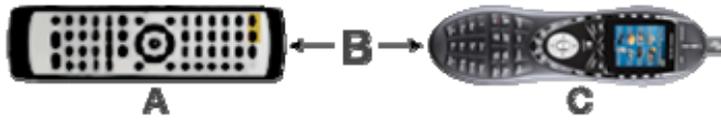
The Harmony remote can learn infrared commands from other remote controls, and should only be used in situations where the Harmony remote's database does not already contain an infrared command you would like to use.

Determine the device you would like to send the infrared command to:

1. Connect your Harmony remote to your computer to start the Harmony remote software.
2. Click **View Devices**.
3. Click a device.
4. Click **Learn Infrared Commands**.

## Using the Infrared Sensor

The Harmony remote has an infrared sensor at the end opposite to the USB connector. The Harmony remote uses this sensor to learn commands from original device remotes.



- **A:** Your original remote
- **B:** Distance between remotes: 5-10 cm (2"-5") apart
- **C:** Your Harmony remote

The following steps outline what happens when you press a button on your original remote control:

1. The infrared sensor on the Harmony remote learns the infrared signal.
2. The Harmony remote uploads it via the USB cable (and your computer's internet connection) to the Harmony database.
3. The Harmony remote software will try to find a matching pattern for the infrared signal.
4. If no pattern is found, the signal will be stored as-is in its original format.
5. If a pattern is found, the Harmony remote software converts the signal into a format for convenient storage.

Either way, the signal is then available for you to assign to a button on your Harmony remote.

## Naming an Infrared Command

When the Harmony remote learns an infrared command, give the command a name. This way you can refer to this command by name in various locations of the online setup process. It is best to use the default names listed in the **Learn infrared commands** step so that automatic button function assignments can be applied to your Harmony remote.

### Example

If the Harmony remote learns the volume button infrared commands from your original remote control, name the commands "VolumeUp" and "VolumeDown" (i.e. with no space, and capitalization as shown). The Harmony remote software looks for commands with these names to automatically assign them to the volume up and down buttons on the Harmony remote.

### Naming Conventions

When naming a command for which there is no default name under the **Learn infrared commands** option, use the following naming conventions to make button assignment and sharing infrared commands easier:

- Capitalize the start of words (e.g. NextDisc, ModeDigital).
- Start the command name with its main function (e.g. VolumeRearUp, VolumeRearDown, VolumeFrontUp, VolumeFrontDown). This helps group related commands in lists.
- For infrared commands that select inputs (e.g. on a stereo receiver), start with the prefix "Input".

Do not name the input based on what you have connected to your device, rather name it based on what it is called on the front of the device, or on the remote control (e.g. InputAux, InputVideo1, InputTape, InputDVD, InputVCR).

# Getting Additional Help

The Harmony remote provides you with several features to assist you with:

- Finding answers to your questions quickly and easily.
- Troubleshooting the setup and customization process.

## Finding Answers to Your Questions

To help you find answers to your questions quickly and easily, use any of the following features:

Feature	Description
Search	A support tool that enables you to do a keyword search.
FAQs (Frequently-Asked Questions)	A searchable list of customer questions, with answers provided by Harmony's support center.
User Manual	The User Manual explains the concept of your Harmony remote and provides information about setting up and using the remote.
<b>Help</b> button	When running the Harmony remote software, click this button for help specific to the step you are at.
<b>Help</b> button (remote) 	Asks you simple questions so the Harmony remote can automatically fix problems you are having with an Activity.

## Troubleshooting Your Harmony Remote

In addition to the tools listed under **Finding Answers to Your Questions**, you can use the following feature:

Feature	Description
Troubleshoot	To be used when the Harmony remote is not controlling your system correctly.

If you cannot find the answer to your question(s) or troubleshoot your problem(s), contact your Harmony Support Team.