# User Manual





(H) armony Advanced UNIVERSAL 1100 REMOTE

Version 1.1

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## Introduction

You're about to experience a new standard in simplicity with even the most complex components. With just one touch you can start watching, listening or playing.

Whether you're new to Harmony products or you consider yourself an expert, this User Manual provides you with useful information to get you going.

### Getting to know your remote

#### How your Harmony 1100 works

The Harmony 1100 is an Activity-based infrared (IR) universal remote control. Using the Harmony Remote Software, you can configure the Harmony 1100 to control up to 15 devices.

When you pair the Harmony 1100 with the optional RF Wireless Extender, you can control up to eight components that are out of sight, for example, in a cabinet or in another room.

The Harmony 1100 uses Smart State Technology® to deliver powerful Activity-based control. This technology allows the Harmony 1100 to control your home theatre as a whole. It knows which devices need to be turned on and which inputs the devices need to be set to. Using Smart State Technology®, the Harmony 1100 switches effortlessly from watching a DVD to listening to music on the stereo with the touch of a button.

#### Activities, devices, and inputs

**Activities** are the basis for how the Harmony 1100 works. Watching a DVD, listening to the radio, and playing a game are all examples of Activities you can set up for your remote using the Harmony Remote Software.

During setup, a step-by-step wizard walks you through creating these Activities for your system.

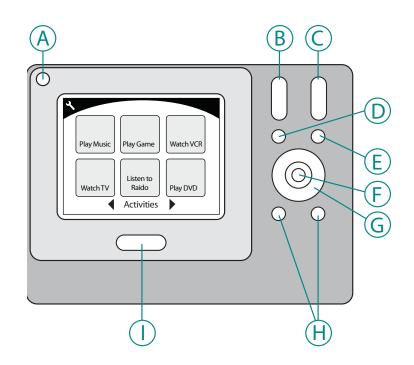
When you select an Activity, your Harmony 1100 sends a series of commands to your entertainment system to turn on the necessary devices and configure them for the selected Activity. All the buttons you need for that Activity are automatically at your fingertips.

**Devices** are the components that make up your entertainment system. The TV, cable box, DVD player, and game system are all examples of Devices.

**Inputs** are how your devices are connected. For example, if you look at the back of your TV, there are a number of ports where you can connect your devices. These are inputs.

#### The buttons on your Harmony 1100

The Harmony 1100 buttons can have different functions or control different devices, depending on which Activity you're in. For example, when you watch a DVD, the volume button controls your stereo while the Play and Pause buttons control your DVD player.



А	Off	Turns off all the devices used in an Activity
В	Volume Up/Down	Increases or decreases the volume of a device
С	Channel Up/Down	Changes channels
D	Mute	Temporarily turns off the sound
Е	Previous Channel	Returns to the last channel you were watching
F	OK	Confirms a selection from a menu on your device
G	Navigation Buttons	Use these buttons to scroll through menu options
Н	Smart Buttons	Customize your buttons
Ι	Activities	Displays the Activities screen on the remote

#### Navigation icons

The navigation icons are displayed in the corners of the LCD screen. Different icons are displayed, depending on which screen you are in. Pressing the icon takes you to the desired screen.



Home Takes you to the Activity home screen of your Harmony remote.



Settings Provides access to the Slideshow, Remote Settings, and the Devices home screen.



Numeric Entry Displays a numeric or alpha-numeric keypad to change channels, CDs, and more, depending on the Activity.



Transport Control Displays buttons like Play, Pause, Stop, and Record when you are in Activities such as Watch PVR, Watch a DVD, or Play a CD.



**Favorite Channels** Displays a list of your favorite channels in the TV Activities. To use this feature, you must set up favorite channels in the Harmony Remote Software.



Custom Control Displays secondary Activity controls (depending on the Activity) and additional buttons that you can customize.



Game Controller Provides access to your game controller buttons in certain video game Activities.



Back Returns you to the previous screen.

#### What's on the Harmony 1100 screen

#### **Commands common to your Activity**

When you're in an Activity, your Harmony 1100 screen displays all the commands you need for that Activity. For example, if you're watching TV, your screen displays functions and commands for your Set Top Box and your AV Receiver. You'll never have to pick up a different remote to raise the volume ever again!

#### **Favorite Channels**

You can set up your favorite channels on your Harmony so that you have quick access to the channels you watch the most. Each channel can have its own custom icon to make it easier to recognize. Just press the button and the Harmony 1100 will change to the desired channel for you. To access this feature, press the Heart Icon from your Watch TV start screen.

#### $\boldsymbol{\lambda}$ Help $\mathbf{\mathbf{v}}$ Menu Aspect Ratio List Display Guide В PIP Toggle PIP Swap С Info Exit Live TV Devices Watch TV <sup>1</sup>23 $\mathbf{\star}$



#### Activities

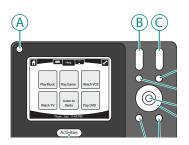
The Activities screen is your starting point on the Harmony 1100. From this screen, you select which Activity you want to start.

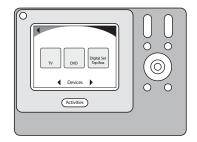
#### Devices

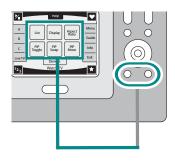
The Devices screen lists all of the devices in your entertainment system. You can access the Devices screen by pressing the Settings icon (wrench) from your main Activity page, or if you are in an Activity, by pressing the Custom Control icon. From there, press the Devices button.

#### **Smart Buttons**

Although there is a default setting for the buttons in most Activities, you can customize these buttons to send other commands you use on a regular basis. To access your custom buttons, press the Custom Control icon (star).





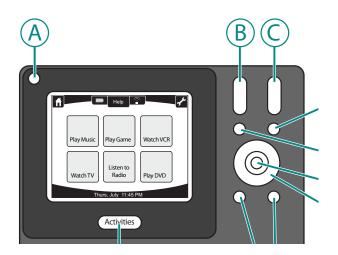


#### Status icons

The status indicator flashes whenever an  $\mathbb{R}$  command is being sent from your Harmony 1100.

The battery indicator shows the battery level or charging status. To ensure your Harmony stays properly charged, see Charging your remote.

The clock is on your main Activity screen so you always know what time it is.



## Using your Harmony 1100

#### Selecting an Activity

The **Activities** screen displays the Activities you created for the remote. You can start an Activity by touching the item on the screen.

#### Switching between Activities

To select a new Activity, press the **Activities** button, and then select the Activity you want to enjoy.

The Harmony 1100 takes care of powering on the needed devices, and powering off the ones not needed.

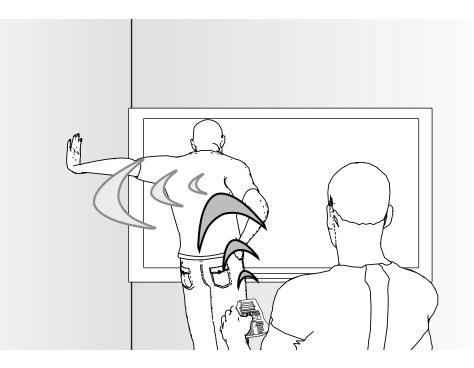
#### Turning off your devices

Press the system off button to power off all the devices used in an Activity.

You don't have to press the system off button when switching between Activities. When switching to a new Activity, the Harmony turns off the devices from the old Activity and turns on the devices for the new Activity. For example, if you switch from watching a DVD to watching TV, the Harmony turns off the DVD player, turns on the cablebox, but leaves the TV on because it's still in use.

#### Using the **Help** button

When you start an Activity, the Harmony 1100 sends out commands to turn your devices on and sets them to the right input. However, if someone walks between your Harmony 1100 and the TV when you press **Watch TV**, or you're too far away from the system when you start an Activity, or the remote isn't aimed at your entertainment system, the command may not reach the device. This causes the device to not respond and your Harmony 1100 becomes "out of sync" with your devices. The Help feature guides you through a series of questions to help you fix the problem and bring your devices back "in sync" with your remote.



To use the Help feature to get your Harmony 1100 back "in sync" with your entertainment system, on the Harmony remote screen:

- 1. Press the Help button.
- 2. Answer the questions on the Harmony 1100 screen by selecting Yes or No.

Based on your answers, the Harmony 1100 re-sends the necessary commands to synchronize the power and input settings for that Activity.

When you complete this process, the Harmony 1100 is back "in sync" with your devices.



Before using the **Help** button, make sure you've addressed the cause of the problem, such as removing any obstacles from the line of sight.

#### Controlling your devices individually

When you first set up an Activity, the Harmony Remote Software automatically assigns common commands for you to use in that Activity. For example, when you set up Watch TV, the Harmony Remote Software maps the channel and volume buttons in that Activity so that you can change channels and adjust the volume.

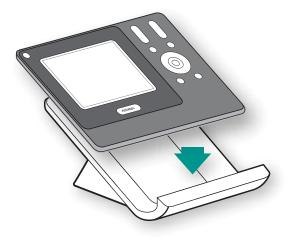
You may need a command that you use only once in awhile that is not in the Activity. To do this, from the Harmony remote:

- 1. From your main Activity page, press the Settings icon 🕟.
- 2. Select the Device for which you need the command.
- 3. Cycle through the list of commands until you find the command you need.

Once you've finished, return to Activities for optimal control of your entertainment system.

#### Charging your remote

Your Harmony 1100 comes with a charging station. The charging station plugs into a wall outlet and charges the battery every time you put the remote on it. All you have to do is pick up the remote, use it, and place it back on the charging station when you're done to make sure it stays charged.



## Setting up your Harmony 1100 for the first time

#### Overview of the setup process

When you insert the Harmony remote CD in your computer, the guided online setup launches. Follow the easy setup instructions to install the Harmony Remote Software. For more information on installing the Harmony Remote Software, refer to the Installation Guide.

After the software installs, start the Harmony Remote Software. When you start the Harmony Remote Software, it automatically checks for updates and downloads them if necessary.

After you install the Harmony Remote Software and gather your device information using the Device Worksheet, the setup process guides you through five steps in which you answer a series of questions about how your entertainment system is set up.

- 1. Create Account: the setup walks you through creating a user account on the Harmony Remote Software.
- 2. Check connection: the software ensures your computer and Harmony 1100 are communicating with each other.
- 3. Set up Devices: the software walks you through entering the manufacturer and model numbers of your entertainment system that you collected using the Device Worksheet.
- 4. Set up Activities: the software asks you questions about how your entertainment system is set up, and then saves the settings.
- 5. Update Remote: the software transfers the information from your PC to the remote.

#### Gathering your device information

To simplify the setup process, we recommend you fill out the Device Worksheet so that all the device information is at hand when you need it.



#### Locating manufacturer and model number on your devices

Manufacturer names and model numbers are typically found at the front of a device, on a label on the back of the device, or in the User Manual for that device.

#### Creating your user account

1.

2.

When you start the Harmony Remote Software for the first time, you must create a user account.

To create a user account, from the Harmony Remote Software:

- 1. Click Create New Account.
- 2. Complete the required account information.
- 3. Follow the instructions in the setup wizard.

After you create your user account, the Harmony Remote Software opens your home page each time you log in.

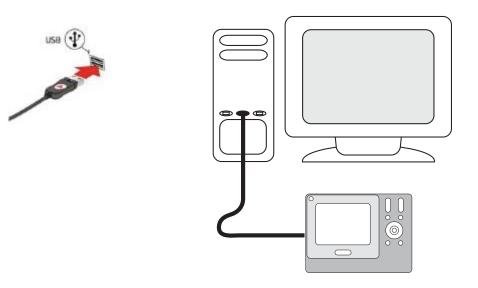
Your home page is where you manage your Activities and Devices, as well as change the settings on your remote.

Whether you want to add a new Activity or device, troubleshoot a problem with an Activity, or customize remote buttons, the Harmony Remote Software home page is the place to start.

#### Connecting your Harmony 1100 to your computer

To connect your Harmony 1100 to your PC, use the USB cable provided.

- 1. Remove your Harmony 1100 from the charging station.
- 2. Connect the smaller end of the cable to the USB port on your remote.
- 3. Connect the wider end of the USB cable to a USB port on your computer.



#### 3. Setting up the devices you want to control

The guided online setup asks you to enter your device information. Enter the information for all the entertainment components you want to control with your Harmony 1100. You should use the Device Worksheet\_to gather all your device information before starting the setup process.

To set up the devices you want to control, from the Harmony Remote Software:

- 1. Select the Device Type for each of your devices.
- 2. Select the Manufacturer for each device.
- 3. Enter the Model numbers for each device.



#### Adding new devices at a later time

If you want to add newly acquired devices after the initial setup, see Adding and changing your devices.

#### Setting up Activities for your Harmony 1100

To set up Activities, you need to enter the information related to the Activities you will be using on your Harmony 1100. The Harmony Remote Software shows you a selection of recommended Activities based on the device information you provided.

When you set up Activities, the software asks questions about the function of each device. For example, if you set up the Watch TV Activity, you're asked which device changes the channels (TV or satellite/cable box). If you have only one device that is capable of doing something, then the software skips the question. For example, if you have only one TV, the software doesn't ask you which device displays video.

If the device has more than one input, the software asks you which input the device needs to set. If you're not sure which input a device uses, see Determining your inputs for more information.

Activities are the basis for how the Harmony 1100 works. With Activities, the Harmony 1100 eliminates the need to use multiple remotes for simple tasks. Just select the Activity and the Harmony 1100 does the rest. For more information on Activities, see Adding and changing Activities.

#### Updating the remote

5.

After you enter your device and Activity information, the software saves your information. It also transfers the information to your Harmony 1100. After the software updates your remote, you're ready to test your setup. For specific details about testing your setup, see the chapter on Testing your Setup.

## Testing your setup

Every time you update your Harmony 1100, you should test your remote to make sure it's working the way you expect. This chapter gives you the information you need to test your remote. It also has some suggestions on what to check while you're testing your setup.

If you run into specific issues while testing your remote, refer to the Troubleshooting section of this manual for suggestions and possible fixes for your problems.

The process of testing your Harmony 1100 is straightforward. It involves simply trying the Activities you use most often and then using the on-remote help to correct any issues.

In some cases, you may need to return to the Harmony Remote Software to make changes to your remote's setup to ensure the remote is working the way you want.

To begin testing your remote:

- 1. Ensure all the devices in your entertainment system are turned off.
- 2. Disconnect the USB cable from your remote.
  - If this is the first time you've updated your remote, the Harmony 1100 tutorial will start on the remote's screen.
- 3. Follow the instructions displayed on the remote's screen.
- 4. Go to your entertainment system and try each of your Activities. For tips on what to look for when starting an Activity, or switching between Activities, see the tips in this chapter.

If an Activity doesn't start correctly, press the **Help** button on the remote and the on-remote help will get you back "in sync". After you finish testing your Activities, be sure to re-test any for which you had to use the Help.

#### Testing your setup -- Starting an Activity

Look for these things in particular:

- Did all of your devices for that Activity turn on?
- Do you hear the correct sound?
- If the Activity includes your TV, do you see the correct picture?



#### Testing your setup -- Switching between Activities

Look for these things in particular:

- Are all devices needed for this new Activity on?
- Did devices not needed for this Activity turn off?
- Do you hear the correct sound?
- If the Activity includes your TV, do you see the correct picture?

## Changing your setup

Whether you get a new device or want to change the behavior of some buttons, you may need to make changes to your Harmony 1100 setup. The following sections provide you with the information to help you with these tasks.

Adding and changing your Activities

To add or change an Activity, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. To add an Activity, click **Add Activity**.
- 3. To remove an Activity, click the 🗑 icon for the Activity you want to remove.
- 4. To modify the settings for an Activity, press the **Settings** button for the Activity you want to modify.

Renaming an Activity

There may be times when you may want to rename an Activity to something that is more meaningful for you.

To rename an Acitvity, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. In the Activity you want to rename, click **Settings**.
- 3. Select Rename <current Activity name>.

Adding and changing your devices

You can add a device, remove a device, or modify the settings for a device.

To add, remove, or change a device, from the Harmony Remote Software:

- 1. Select the **Devices** tab.
- 2. To add a device, click **Add Device**.
- 3. To remove a device, click the <sup>⊕</sup> icon for the device you want to remove.
- 4. To modify the settings for a device, press the **Settings** button for the device you want to modify.



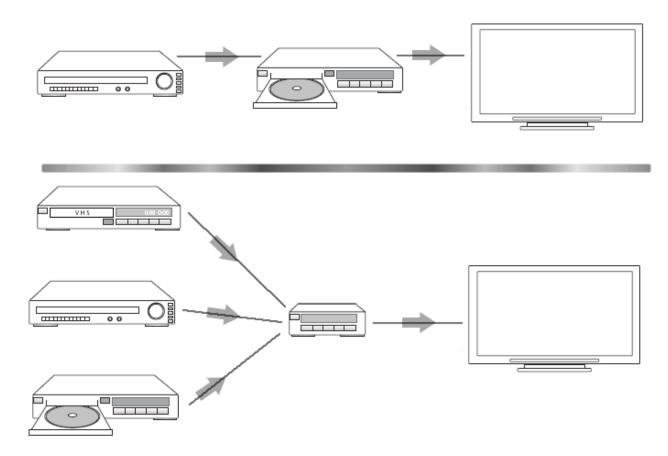
If you delete a device, be sure to update your Activities!

#### Adding an extra device (passthrough) to an Activity

A passthrough device is a device that you add to your system that a signal passes through unaltered.

For example, if you use your DVD recorder (or VCR) to record shows from your satellite or set top box, you may need to add your DVD recorder as a passthrough device.

In these examples, the DVD Recorder and the A/V Switch are used as passthrough devices.



To add an extra device (passthrough) to an Activity, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. Click **Settings** next to the appropriate Activity.
- 3. Select review the settings for this Activity.
- 4. Select Yes, but I want to add more control of options and devices for this Activity.
- 5. Click Next.
- 6. Follow the online instructions to complete the setup.

#### Customizing the on-remote help

Using the Harmony Remote Software, you can customize the Harmony 1100 on-remote help by selecting between two types of help:

#### Smart Help

Asks questions about the devices that are on during a specific Activity.

To customize the on-remote help, from the Harmony Remote Software:

- 1. Select the **Remote Settings** tab.
- 2. Click **Display Settings**.
- 3. Follow the online instructions.

#### Controlling the Remote Assistant

The Harmony 1100 Remote Assistant guides you through starting Activities. It also gives you more information about the status of your remote and the Activity you selected.

For example, when you select the Watch TV Activity, the Remote Assistant asks you if the TV is on and if the other devices in the Activity are configured properly.

You can turn this feature on and off from the Harmony Remote Software.

To turn the Remote Assistant off, from the Harmony Remote Software:

- 1. Select the **Remote Settings** tab.
- 2. Click **Display Settings**.
- 3. Follow the online instructions.

## **Customizing your Harmony 1100**

You can customize your Harmony 1100 to make the screen look and act the way you want.

#### Renaming an Activity

There may be times when you may want to rename an Activity to something that is more meaningful for you.

To rename an Acitvity, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. In the Activity you want to rename, click **Settings**.
- 3. Select Rename <current Activity name>.

#### Changing the order of Activities on your Harmony 1100 screen

You can easily change the order in which your Activities appear on the remote screen. Rearranging the order of the Activities allows you to have the Activities you use most often appear at the top of the list.

To change the order of Activities on your Harmony 1100 screen, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. Click **Re-order Activities**.
- 3. Follow the online instructions.

#### Setting up your favorite channels

To set up your favorite channels, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. Under Watch TV, click **Settings**.
- 3. Select Set up Favorite Channels.
- 4. Follow the online instructions.

After you set up your favorite channels, a heart icon  $\bigcirc$  appears on your Harmony 1100 screen when you are in the Watch TV Activity.

To use your favorite channels, on the Harmony remote screen:

- 1. Press the **Heart** icon O. The favorite channels you've added appear on the remote's screen.
- 2. To select a channel, press the button associated with the channel.

#### Favorite channel icons



For optimal results, use a .jpg or .png with the following image dimensions:

- Width: 55 pixels
- Height: 55 pixels

The maximum file size is 160 KB.

#### Changing how buttons work in an Activity

When you select an Activity, your Harmony 1100 turns on all the required entertainment devices, sets up the device inputs correctly, and sets up the remote buttons to control the devices in the Activity. For example, when you select the Watch a DVD Activity, you can use the volume buttons on the Harmony 1100 to change the volume.

However, there may be some commands you want to add to buttons or display on the remote screen. Using the Harmony Remote Software, you can add or customize how buttons work in any Activity quickly and easily.

To change how buttons work in an Activity, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. Select the Activity for which you want to change a button.
- 3. Click **Customize Buttons**.
- 4. Follow the online instructions.

#### Adding custom-labeled buttons to an Activity

If you want a button to do something specific, or if there's a function on your device's original remote that's not on the Harmony 1100, you can create your own buttons that appear on the Harmony 1100 screen.

You can also change the name of buttons on your remote's screen to make them easier to find.

If there's a button that you don't use, you can use the Harmony Remote Software to remove it so that it doesn't appear on the remote's screen.

To customize the buttons that appear on the Harmony 1100 screen, from the Harmony Remote Software:

- 1. Select the **Activities** tab.
- 2. Select the Activity for which you want to customize a button.
- 3. Click Customize Buttons.
- 4. Follow the online instructions.



#### Naming buttons that appear on the remote's screen

When you create a custom name for a button, think about how the name will look on the remote's screen. We recommend keeping button names to 10 characters or less.

#### Adding a slideshow to your Harmony 1100 screen

You can use your own pictures or images to create a slideshow on your Harmony 1100.

To add a slideshow to your Harmony 1100, from the Harmony Remote Software:

- 1. Click the **Remote Settings** tab.
- 2. Click Set Up a Slideshow.
- 3. Follow the online instructions.

Viewing a slideshow on your Harmony 1100 screen

You can also use the Harmony 1100 to manually start the slideshow.

To manually start a slideshow, from your Harmony 1100 screen:

- 1. Press the **Settings** icon
- 2. Select Slideshow.

#### Sizing slideshow images to fit your remote display

For optimal results, use a .jpg with the following image dimensions:

 $\mathbf{i}$ 

Your image will automatically change to meet these requirements.

The maximum file size is 160 KB.

Width: 320 pixels Height: 240 pixels

#### Changing the backlight settings

The Harmony 1100 senses when you pick it up, and lights up the display and buttons.

To set the length of time the backlight stays on, change the color of the backlight, or change the brightness level of the backlight, from your Harmony remote screen:

- 1. Press the **Settings** icon S.
- 2. Select **Remote Settings**.
- 3. Select **Backlight**.
- 4. Follow the online instructions.

#### Setting a background

You can change the background on your Harmony 1100 by either selecting a new background from the list of Harmony defaults or by uploading your own.

To change the background on your Harmony remote, from the Harmony Remote Software:

- 1. Select the **Remote Settings** tab.
- 2. Select **Set a background**.
- 3. Follow the online instructions.

#### Sizing background images to fit your remote display

For optimal results, use a .jpg with the following image dimensions:

- Width: 320 pixels
- Height: 240 pixels

The maximum file size is 160 KB.

## Adding additional features to your Harmony 1100

It's possible that a device's commands are not recognized by your Harmony 1100. Maybe you have a very rare device? Or a new one? Although we update our device list regularly, there are always new devices in the market. To remedy this, you can teach your Harmony remote how to control this device by using the device's original remote.

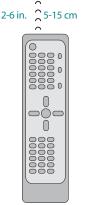
#### Teaching your Harmony 1100 new commands using your old remote

With the Learn IR feature of the Harmony 1100 and the Harmony Remote Software, you can use your device's original remote to "teach" your Harmony 1100. You should need to use this feature only when Logitech's device list doesn't have your device listed, or there's a button you want to use that's missing from the device configuration.

To use the Harmony 1100 learning feature, from the Harmony Remote Software:

- 1. Select the **Devices** tab.
- 2. Click **Learn IR** located next to the device you want to control.
- 3. Follow the online instructions.





#### Naming a new command your remote learned

When you teach your Harmony a new command, you have to give the command a name. This way, you can refer to the command by name in various locations in the Harmony Remote Software.

Logitech recommends you use the default names listed on the Learn IR page. By using the default names, you minimize the chance of a button being assigned incorrectly on the Harmony 1100.

#### Naming conventions

When naming a command for which there is no default name on the Learn IR page, use the following naming conventions to make button assignment easier:

- Don't use spaces or special characters such as /, & or \* in the command name.
- Capitalize the start of words (for example, *NextDisc, ModeDigital*).
- Start the command name with its main function (for example, *VolumeRearUp, VolumeRearDown, VolumeFrontUp*). This helps group related commands in lists.

- Start infrared commands that select inputs (for example, on a stereo receiver) with the prefix "Input".
- Don't name the input based on what you've connected to your device, rather name it based on what it's called on the front of the device, or on the remote control (for example, *InputAux, InputVideo1, InputTape, InputDVD*).

#### Types of delays or speed settings

If your device doesn't react to a command from the Harmony 1100, it may be because the delay setting needs to be adjusted. By default, different devices take different amounts of time to react to a command from a remote control. To accommodate these differences in your devices, the Harmony 1100 uses several types of delays, or speed settings, to control your devices.

#### **Power On Delay**

The Power On Delay is the amount of time that a device needs to "warm up" before receiving another command. For instance, when you turn on a device, you may notice that the device needs a certain amount of time before it can receive another command from the remote.

**Example:** Every time I turn on my system with an Activity, my TV powers on but doesn't go to the correct input. However, it does go to the correct input when switching between Activities when the TV is already on. The **Help** button fixes it each time, but I don't want to use the **Help** button every time.

#### **Inter-Key Delay**

The Inter-Key Delay is the amount of time allotted for commands to be sent between button presses.

**Example:** Any time I press volume up multiple times in a row for my AV Receiver, it takes a long time to increase the volume. I would like my devices to respond quicker to these presses.

#### Input Delay

The Input Delay is the amount of time that the remote takes when switching between inputs. Many devices need a certain amount of time before changing to the next input in the input list.

**Example:** My TV doesn't always go to the correct input when switching between Activities and I have already verified that the input list is correct.

#### **Inter-Device Delay**

The Inter-Device Delay is the amount of time between commands for different devices when you start an Activity. The Inter-Device Delay is also the time between the next sequence of commands that are sent to other devices within an Activity.

**Example:** My DVD player doesn't always turn on when I start the Activity. I can get the DVD player to turn on by using the **Help** button, however I don't want to use **Help** every time.

#### Repeats

The Repeats are the number of times the remote repeats a command for a device to properly respond to the command. For instance, many devices need longer or shorter command repetitions to respond properly.

**Example:** Any time I press channel up, my Digital Set Top Box skips two channels at a time.

#### Adjusting the delay between IR commands (speed settings)

If you find the delay between IR commands is too long, especially when changing channels on your TV, you can change the delay time for a device that is reacting too slowly.

The Harmony 1100 uses several different delays to control your devices. For more information on which delay you need to adjust, see Types of delays or speed settings.

To adjust the delay between IR commands, from the Harmony Remote Software:

- 1. Click the **Devices** tab.
- 2. Select the device for which you want to apply the change and click **Settings**.
- 3. Select Adjust the delays (speed settings).
- 4. Click Next.
- 5. Follow the online instructions.

### Maintaining your Harmony 1100

### Testing your remote settings after a remote upgrade

After you finish making any changes to your Harmony 1100 configuration, you should test the new setup to ensure everything is working the way you expect. This testing process is the same as the one you did when you set up your Harmony 1100 for the first time.

## Troubleshooting problems with your Harmony 1100

In this section, you'll find some commonly reported issues and the suggested solutions. These solutions may help you fix problems you're experiencing. If you still cannot fix the problem, refer to Getting help with your Harmony 1100.



## The TV doesn't turn on when starting an Activity, but using the Help button on the remote fixes the issue.

• Try increasing the Inter-Device Delay for your television. Sometimes commands are sent too close together for different devices and need to be spaced out more.



#### The TV doesn't go to the right input when starting Activities.

• Using the Harmony Remote Software, check your Activity to ensure the Activity is set up to use the correct input your TV needs to be set on to get a picture. Next, check that the inputs are in the correct order for the Harmony 1100 to know how to cycle through each input. If you're still experiencing trouble, try raising the Inter-Device and Input Delays for your TV.



## When pressing buttons in an Activity, the remote sends the command twice.

• Try lowering the repeats for the device that is receiving the command. You can do this by using the troubleshoot option in the Harmony Remote Software.



## When you try to add a new TV to your account, you get a message informing you that you haven't entered the correct model number.

• The model number for most devices can be found on the front of the device. If it isn't there, it can be found on a label on the back or bottom of the device. The model number shouldn't be confused with the serial number or the model number of the device's remote control, as many different devices by a manufacturer can share the same remote.



## The On Demand command isn't on the Harmony 1100 for the Watch TV Activity.

• You can map the command to any unused button on the Harmony 1100 or on the remote's screen. The command is likely in our database, but wasn't mapped to the Activity. If we're missing the command, the Harmony 1100 can learn it from your original remote. For more information, see Teaching your Harmony 1100 new commands using your old remote.



## The Harmony Remote software is unable to communicate with the Harmony 1100.

• Try disabling any Internet security software you have, including firewalls and anti-virus software.

## Figuring out which inputs your system uses

One of the most important parts of creating Activities for your Harmony remote is determining which inputs your system uses for each device. This chapter gives you some suggestions on how to figure out which inputs your entertainment system uses if you're not sure.

Inputs are how the devices in your entertainment system are connected. For example, your DVD or cable box is connected to your TV through an input. If you use an AV Receiver to control the sound on your devices, for example if you have a home theater system, this chapter also helps you figure out the inputs for your audio connections.

After you know how your devices are connected, you can use the information to create your Activities using the Harmony Remote Software.

#### Figuring out which type of input control you have

The first step in determining which inputs you have is to figure out how you use your device's original remote to change inputs. In general, there are four possibilities and each one is described in this section. To figure out which option your TV or AV Receiver uses, look at your device's original remote and see which option fits.

#### **Option 1** — **One source button**

In this case, your remote has only one source or input select button.

When you press the source button, your device switches to the next input and the label appears on your TV screen.

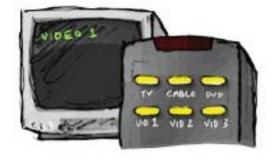
Each time you press the source button, the device switches to a new source until you get back to where you started.

#### **Option 2** — Several source buttons

In this case, your device's original remote has several source buttons — one for each input. For example, you may have buttons labeled TV, DVD, VIDEO 1, or S-VIDEO.

When you press one of the source buttons, the device switches to the source you selected and the label appears on your TV screen.





## Option 3 — Select the input from an on-screen menu

In this case, your device uses an on-screen menu from which you can select the input you want.

When you press the source button, the menu appears on your TV screen. Then, you use another button on the remote to choose the input you want, and then a third button to select the input.

For example, you press the source button to display the on-screen menu, the arrow keys to select an input, and then the **OK** button to enter your selection.



#### **Option 4** — **Select the source from a list**

In this case, your device has a list of inputs and you can use the buttons on the remote to select the input you want from the list.

After you press the source button, you have to press another button on the remote that selects the input you want.

In this option, there's no menu from which to choose (Option 3) and you don't have to cycle through all inputs to get to the one you want (Option 1).



#### Step 1— Turn on all your devices

To determine which devices are using which inputs, Logitech recommends you start by turning on all the devices in your entertainment system.

If possible, you should even start playing something in your DVD player, CD player, VCR, etc.

By having all your devices on, it's easier to see how they're connected.

It's also handy to have some paper and a pen so you can note which devices are connected to which inputs.

#### Step 2 — Watch the TV

In this step, you must use your TV's original remote control to switch between inputs.

- 1. Using your TV's original remote, select each input one-at-a-time.
- 2. For each input, note which device appears to be connected to that input. For example, if you switch to VIDEO 1 and see your DVD playing, you know your DVD player is connected to VIDEO 1.
- 3. Repeat step 2 for each input.

#### Step 3 — Listen to the sound

You need to complete this step only if you have a separate device (called an AV Receiver) that manages the sound for your entertainment system. For example, you have a home theater system or connect your TV to your stereo so the sound comes out of your stereo speakers.

You must use your AV Receiver's original remote control to switch between inputs.

- 1. Using your AV Receiver's original remote, select each input one-at-a-time.
- 2. For each input, note which device appears to be connected to that input. For example, if you switch to OPTICAL 1 and hear the sound from your DVD playing, you know your DVD player is connected to OPTICAL 1.
- 3. Repeat step 2 for each input.

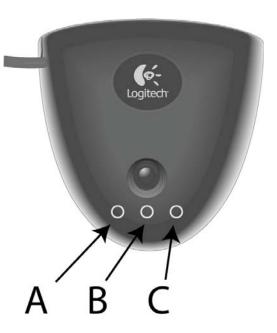
## RF Wireless Extender

The RF Wireless Extender extends the range of your Harmony remote so that you can control devices that are not in plain view. For example, you can put the components of your entertainment system inside a cabinet and close the door and still be able to turn them on and off, or you can turn on a component that is located in a different room.

#### The lights on the RF Wireless Extender

The lights on the RF Wireless Extender provide the following information:

А	Status	Indicates that the RF Wireless Extender is sending commands
В	Power	Indicates that the RF Wireless Extender is powered by either AC or USB
С	RF	Indicates that the RF Wireless Extender is sending commands



#### Setting up the RF Wireless Extender

To set up the RF Wireless Extender, from your Harmony Remote Software home page:

- 1. Click the **Remote Settings** tab.
- 2. Click Manage Remotes.
- 3. Click Add.
- 4. In "Which product would you like to add?", click **Wireless Extender**.
- 5. Click Next.
- 6. Follow the online instructions until you reach the screen "Now it's time to test the setup."



You must update the RF Wireless Extender whenever you change the configuration of your remote.

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

You can control your devices with either the Harmony remote or the RF Wireless Extender. Typically, you use the Harmony remote to control devices with which you have a clear line-of-sight, and you use the RF Wireless Extender to control devices that are in a closed cabinet or that span different rooms. For example, you would likely use the Harmony remote to control the TV because it is out in the open, but you would use the RF Wireless Extender to control the AV receiver and the DVD player, which are tucked away inside a cabinet.

To assign devices to the Harmony remote or to the RF Wireless Extender, from your Harmony software:

- 1. Click the **Remote Settings** tab.
- 2. Click Manage Devices.
- 3. Click **Control Devices**.
- 4. Select whether to control each device with the remote or the RF Wireless Extender.
- 5. Click Next.
- 6. Click **Done**.

Note: Logitech recommends that you use the RF Wireless Extender to control a device whenever possible because it preserves the on/off state of the devices.

## Controlling a device with the RF Wireless Extender

If you set the RF Wireless Extender to control a device, the following events occur when you select an Activity:

- 1. The remote sends radio frequency (RF) signals to the RF Wireless Extender.
- 2. The RF Wireless Extender converts the RF signals to infrared (IR) signals.
- 3. The RF Wireless Extender sends the IR signals to the device.

Controlling devices using the RF Wireless Extender means you can control the devices even if they are behind closed doors, such as inside a cabinet, or in a different room. IR commands for a device can fire from any of the following:

- from all ports simultaneously (default)
- from individual ports (A, B, C or D)
- from the top-mounted IR blaster

## Controlling a device with the Harmony remote

If you set the remote to control a device, the remote sends IR signals to the device. For the remote to control a device, there must be a direct line of sight between the signal sent by the remote and the device receiving the signal.

### Installing the RF Wireless Extender

You have a lot of flexibility where you can install the RF Wireless Extender. You can mount it on a wall or you can install it inside the cabinet where your devices are located.

Before you install the RF Wireless Extender, you should decide what you are doing with the emitters. If you are attaching emitters to the devices, then the RF Wireless Extender has to be within connecting distance to the devices. If you are not connecting the emitters to the devices, then all of the components of your system must be within 5 metres and have a direct line of sight with the RF Wireless Extender.

Logitech recommends that you make sure all of your devices are working properly before installing the RF Wireless Extender.

#### Using the Emitters

The RF Wireless Extender has four dual-head IR (infrared) emitters that can control up to eight devices. Each emitter can control two devices.

There are 3 possible ways the RF Wireless Extender can send IR signals to the devices of your entertainment system:

- 1. The RF Wireless Extender sends IR signals in all directions. In this case, no emitters are attached to the components or plugged into the RF Wireless Extender. For this method to work, all of the system components must be within 5 meters and have a direct line of sight with the RF Wireless Extender.
- 2. An emitter is attached to each of the components and each emitter is randomly plugged into the RF Wireless Extender ports. No ports are assigned for individual components, so it doesn't matter which emitter is plugged into A, B, C, or D port on the RF Wireless Extender.
- 3. An emitter is attached to each of the components, individual ports are assigned to each of the components, and the emitters are plugged into specific ports of the Wireless Extender.

### Finding where to place the emitters

To find where to place the emitters:

- 1. Take the remote you use to turn the device on or off, move toward the device and press the power button on and off as you get closer to the device.
- 2. If the device stops responding, stop moving forward, move the remote slightly up/down/left/right until the device responds again.
- 3. Repeat Step 1 and 2 until the remote is touching the device.

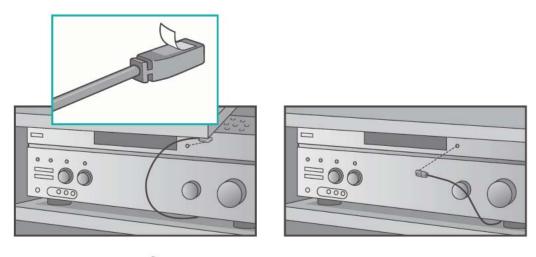
## Attaching the emitters

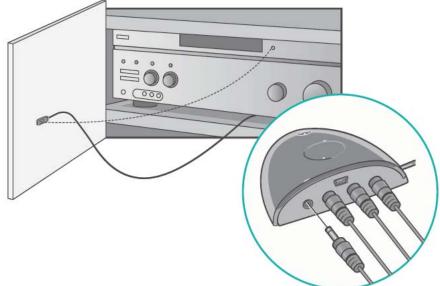
To attach the emitters:

- 1. Locate the area on the device where the signals are received.
- 2. Attach an emitter directly to this area, or if you do not want to place the emitter on the device, attach it to a surface above, below, or in front of this area on the device.
- 3. Connect the other end of the IR emitter cable to a port on the RF Wireless Extender.



You don't have to attach the emitters if all of the components of your system are within range of the RF Wireless Extender blaster.





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#### Assigning a device to a specific port on the RF Wireless Extender

You can assign a device to a specific port on the RF Wireless Extender. This allows multiple identical devices to be controlled independently from just one RF Wireless Extender. For example, you can assign one DVD player to one port and a different DVD player to another port.

To assign a device to a specific port on the RF Wireless Extender, from your Harmony Remote Software home page:

- 1. Click the **Remote Settings** tab.
- 2. Click Manage Remotes.
- 3. In the Manage Remotes page, click **Control Devices**.
- 4. In the Control Devices page, at the very bottom of the page, select **Assign IR Port on Wireless Extender**.
- 5. Click Next.
- 6. In the Assign IR Ports on Wireless Extender page, under **Port**, select the port you want to assign for each device.
- 7. Click Next.
- 8. Click Done.
- 9. On the Remote Settings page, click **Update Remote**.

## Adding additional RF Wireless Extenders

To add additional RF Wireless Extenders, from your Harmony Remote Software home page:

- 1. Click the **Remote Settings** tab on your home page.
- 2. Click Manage Remotes.
- 3. Click Add.
- 4. Follow the online instructions.

## Removing the RF Wireless Extender from your network

To remove the Wireless Extender from the network, from your Harmony Remote Software home page:

- 1. Click **Remote Settings**.
- 2. Click Manage Remotes.
- 3. Click **Remove** beside RF Extender.
- 4. Click **Done**.

## Getting help with your Harmony remote

#### Contacting Customer Support

If you're experiencing problems and can't find the solution, our courteous and expert professionals can assist!

From your home page, click the **More Help** button located in the **Tip Center** and then select the **Contact Us** tab.

#### Finding answers to questions

You can access our online help to search for topics or Frequently Asked Questions (FAQs).

From your home page, click the **More Help** button located in the **Tip Center**.

Getting help with your online setup

You have access to several online features that help guide you through the online setup and customization of your Harmony remote:

Harmony Remote Software	Provides instructional help to guide you through a series of question-and-answer steps to accomplish a task.
FAQs (Frequently Asked Questions)	A searchable list of customer questions with answers provided by the Harmony 1100 support center.
More Help button	Provides specific online help for the page you're on.

## Using the On-Remote Help

When one or more of your devices don't power on or off, or when they don't switch inputs correctly, you can use the **Help** button on the remote for simple troubleshooting. Answer the questions on your Harmony remote to re-synchronize it with your entertainment system. See Using the Help button.

### Logitech's Harmony Remote user forums

You can also access the user forums to see what other users like you're discussing. Simply go to <u>http://forums.logitech.com/</u>.



# In the Add Devices step of the setup software, you will need to enter information about the components in your entertainment system. Fill out this worksheet to use as your guide.

List the entertainment components below that you would like your new remote to control.

Device Type	Manufacturer	Model Number
example: DVD Player	example: Pioneer	example: DV-414

#### Tips for identifying Device Type:

- a general category description
- examples: Television, VCR, CD Player, DVD Player, Stereo Receiver, Amplifier, Game Console, etc.

#### Tips for identifying Manufacturer:

- also referred to as "make" or "brand name"
- typically on the front of the component
- sometimes on the label with the Model Number
- examples: Sony®, Phillips®, Denon®, DirecTV®, TiVo®, etc.

#### Tips for identifying Model Number:

- also "Model" or "M/N"
- usually on a label on the front, back or bottom of the component (see the Tip Center )
- model number may be different than model name
- also found in the component's user manual
- NOT model number on the old remote control
- NOT serial number (SN) which is usually much longer
- examples: RC-QN3BK, CT-36XF36C, Explorer 3100, L32 HDTV 10A, etc.

Once you have gathered all of your information, take this worksheet to your computer and continue with the Setup software.

## Tip Center

How to Find Model Numbers

On most entertainment components, the model number is usually found on a label located on the front, back or bottom.

ACME		M
MODEL NO.	50-3990-	sca
120V AC-	60Hz 13V	V
SN: MC11	00000123	54
	1	
	5000	TO
	5	
		6014
1 Elos		
2		M 1 .
1	2F	
	ACME	AR MIL
000 000		14

If you cannot find the model number on the component itself, the user manual that came with your component should list the manufacturer and model number.

## Appendix B - Glossary

Amplifier	A stereo component that outputs to speakers, and increases the gain or level of an audio signal. An amplifier doesn't typically include a radio.
Anamorphic views	Also referred to as Enhanced for Widescreen, or Enhanced for 16:9. The process that horizontally shrinks a 16:9 image into a 4:3 space to convert images between widescreen and typical television image aspect ratio. Used on many DVDs.
Aspect ratio	The ratio of image width to image height. Common motion- picture ratios are 1.85:1 and 2.35:1. Television screens are usually 1.33:1 (also known as 4:3). HDTV is 1.78:1, or 16:9.
A/V switch	A device with several audio and video source inputs that sends a selected audio/video source input signal to an output device like speakers or a TV.
DLP® (Digital Light Processing)	Projector screen technology that relies on using individually controlled tiny mirrors (micro mirrors) to produce an image. Developed originally by Texas Instruments.
DVD recorder (DVR)	A standalone unit that resembles and functions very much like a VCR. Like a VCR, DVD recorders all have AV source inputs. It can also record TV shows.
HDTV (High Definition Television)	The high-resolution form of television. HDTV has 1125 lines of resolution, or more than five times the video information than that of a TV set, creating a much crisper, more detailed picture.
Light controller	A device that is connected to a set of lights and allows the lights to be powered or dimmed remotely.
Mini-system	A single unit that is some combination of the functionality of a DVD, VCR, radio, and amplifier.
NTSC (National Television System(s) Committee)	The standard video broadcast format used in North America.
Output Device	A device that produces the sound or picture, for example, a TV or speakers.
PAL (Phase Alternating Line)	Asia.
	Universal Electronics Exhibit 2038, Page 44

Universal Remote Control v. Universal Electronics, Trial No. IPR2014-01106

Passthrough	A device that routes video or audio from one device to another device.
Personal Video Recorder (PVR)	Contains an internal recorder and player that records and plays video without the use of a removable tape or disc. Typically PVRs can pause, rewind, instantly replay, and play slow-motion for live or recorded TV. Examples of PVR service providers are TiVo, ReplayTV, UltimateTV, and Keen PM. Many satellite providers also provide PVR services and have PVRs included in some of their satellite receivers.
Pre-amplifier	A control and switching component that may include equalization functions.
Pre-amp Sound Processing	Takes a small signal and amplifies it sufficiently to be fed into the power amplifier for further amplification. A pre-amp includes all of the controls for regulating tone, volume, and channel balance. This task is known as sound processing.
Receiver	Also referred to as a tuner or a stereo receiver. A receiver can be any component that receives or tunes broadcast signals, or AM/ FM radio. Typically refers to the single component that includes a preamplifier, surround processor, multi-channel amplifier, and AM/FM tuner.
RF (Radio Frequency)	Used by some remote controls to control devices because it doesn't have the same line-of-sight restrictions as IR (infrared) signals.
RF Wireless Extender	Extends the range of your Harmony remote so that you can control devices that are inside a cabinet or in a different room.
SACD (Super Audio CD)	A read-only optical audio disc aimed at providing much higher quality of digital audio reproduction than the compact disc.
Satellite Radio	A service in the United States that provides digital programming directly from satellites. Currently the 2 main providers for service are XM and Sirrus.
SDTV Standard Definition Television	One mode of operation of digital television where the broadcaster transmits pictures with detail similar to, or slightly better than, today's analog television. Since the picture contains less information, there is "room" in the digital signal multicast broadcasting.
	Universal Electronics Exhibit 2038, Page 45

Stereo receiver	Also referred to as a tuner or a receiver. A stereo receiver is any component that receives or tunes, broadcast signals, or AM/FM radio. Typically refers to the single component that includes a preamplifier, surround processor, multi-channel amplifier, and AM/FM tuner.
Tuner	Also referred to as a receiver or a stereo receiver. A tuner is any component that receives or tunes, broadcast signals, or AM/FM radio. Typically refers to the single component that includes a preamplifier, surround processor, multi-channel amplifier, and AM/FM tuner.
Power strip	A common device that acts like an extension cord, providing additional cord length, as well as a mechanism that offers several electrical outlets.

## Appendix C - Product Specification

LCD Size	3.5" Diagonal
LCD Resolution	320 x 240 (QVGA)
LCD Screen	64K Color
Touch Screen Technology	Resistive
Power Source	Rechargeable
Power Type	Lithium Ion
Brands Supported	5,000+
Devices Supported	225,000+
Maximum number of devices per account	15
Backlit keypad	Yes
Backlight Color	White
IR Learning	Yes (Up to 200 Khz)
IR Transmitters	2
IR Transmission Range	Up to 65ft
Weight	7.2 oz (with battery installed)
Dimensions	5.48" x 4.09" x 0.68"
Supported Platforms	Windows 2000/XP/Vista
	MAC OS X 10.3-10.5

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