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User Guide To The RC3200 Touch Screen Remote Control



Automating Your Home Theater With Marantz

Automating Your Home Theater With The Marantz RC3200
RC3200 Remote Control User Guide

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FCC NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rule. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is not guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a different circuit from the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Note If serial or parallel ports are configured, a filtered/shielded serial or parallel cable is recommended to minimize EMI and ensure FCC class B compliance.

Table of Contents

Introduction	2
1. Installing the Batteries	3
Using Your RC3200	4
1. Buttons and Features	4
2. Details of the Touch Screen Display	5
3. Controlling the LCD Display	6
Turning on the Display and the Backlight	6
Changing the LCD Contrast	7
The Battery Status	8
4. Operating Audio Video Devices	8
Using the Two Home Pages	8
Selecting a Device from a Home Page	8
Using the Soft Buttons	9
Using the Hard Buttons	9
Setting Up Your RC3200	10
1. The Mode Button and the Mode Menu	10
2. Adjusting the Settings	11
First Setup Page	11
Second Setup Page	13
Third Setup Page	14
To Exit Setup Mode	14
3. Learning From Other Remotes	15
The Learn Sequence	16
Tricks for Remote Controls that are “Difficult”	17
4. Macro Planning	18
Overview	18
Secrets of Great Macros	19
Time the Power On Delays	20
5. Recording Macros	21
Programming Via PC	24
Minimum System Requirements	25
Maintaining RC3200	26
Important Notices	26
Cleaning RC3200	26
FAQ	27
Troubleshooting	28
Specifications	30
Index	31

The RC3200 is an intelligent remote control designed to control virtually all audio video devices that understand infrared (IR) remote control signals. Its easy-to-use LCD touchscreen and its intuitive interface make it a perfect remote control for every user.

The RC3200 is completely customizable and programmable. Although the RC3200 is pre-programmed for Marantz components, a collection of built-in pages with pre-arranged button art enables you to easily choose the perfect interface for any non-Marantz component. The RC3200 easily “learns” commands from your original remote control. See page 15 for more details.

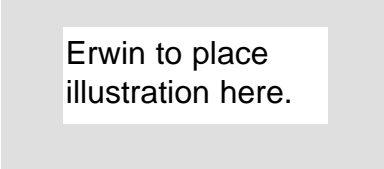
To tame complicated home theaters, the RC3200 will record your favorite sequences of commands as Macros, so that dozens of commands are initiated with the touch of one button. See page 18 for more details.

With the RC3200 Setup Programming Software for PC you can layout your pages, create and label new buttons to completely personalize your RC3200. In the future, the software will enable you to update your RC3200. You can download the software from www.marantz.com. See page 24 for more details.

1. Installing the Batteries

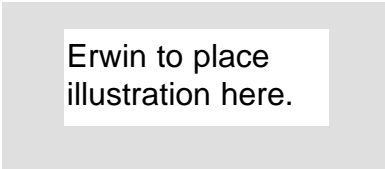
Before you use the RC3200 (and whenever the batteries run out), you will have to install three fresh AA batteries (3 x 1.5V). You can utilize conventional disposable or rechargeable batteries.

- 1 Release the catch to the battery cover by pressing it down.



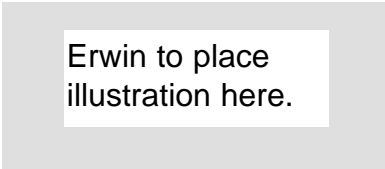
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- 2 Remove the battery cover by pulling it away from the body of the remote control.



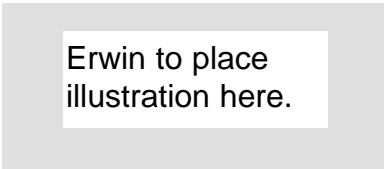
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- 3 Place the batteries in the compartment.



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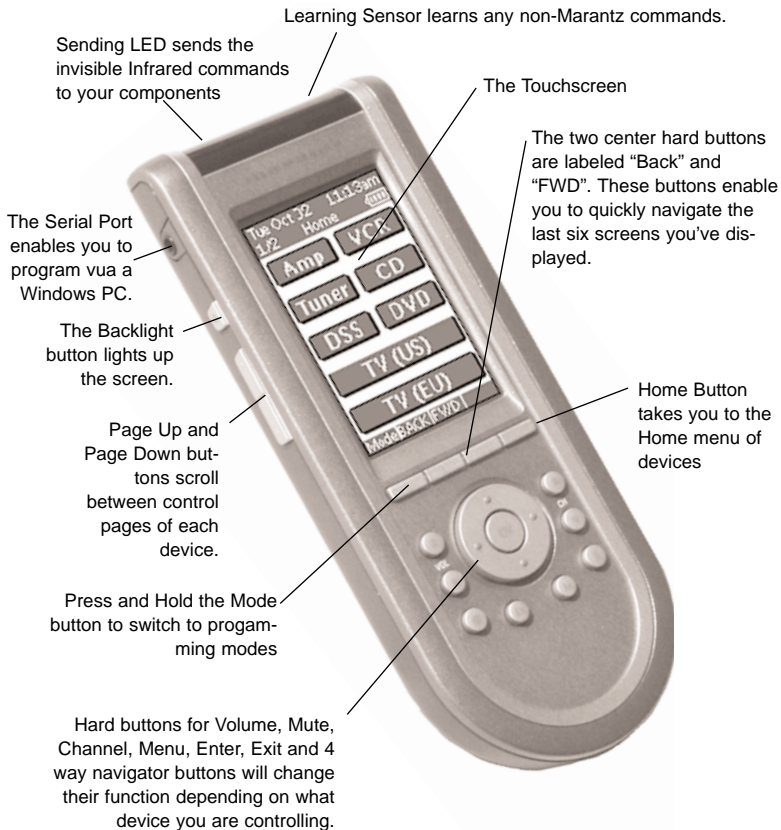
- 4 Replace the battery cover, bottom first, pressing the top into place so that the catch snaps into place securely.



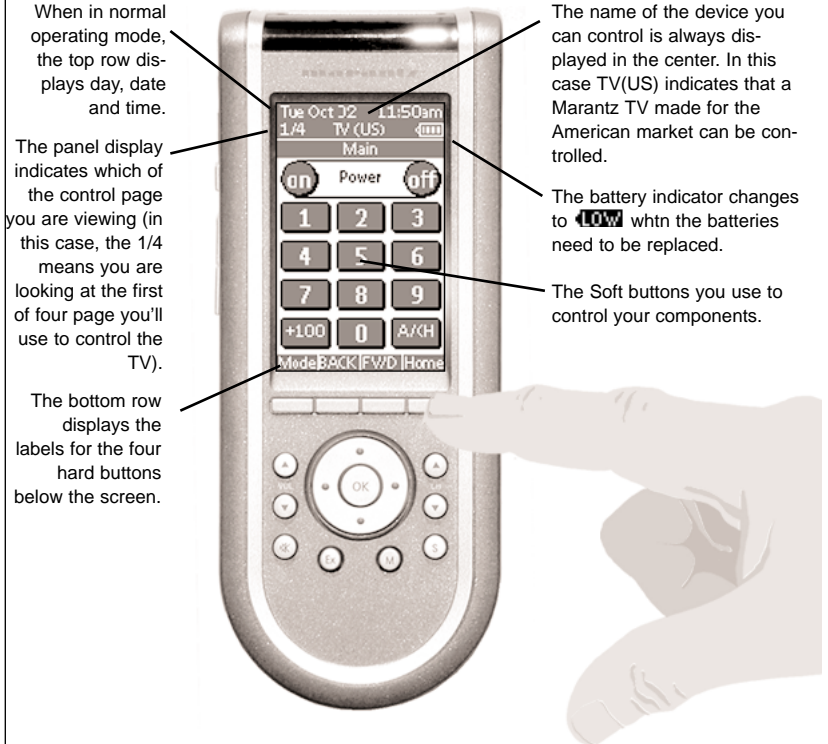
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Using Your RC3200

1. Buttons and Features



2. Details of the Touch Screen Display



Touch the Home button to operate another component. The RC3200 will immediately display one of two Home pages listing all of the components in your system. Switch between the two pages using the page up and page down buttons on the side of the RC3200. When you see the name of the component you want to operate, press its button. The RC3200 will display the first page of several devoted to controlling the device you selected.



3. Controlling the LCD Display

■ Turning on the Display and the Backlight

RC3200's display can be activated in two different ways:

- 1 Tap the touch screen gently with your finger or a blunt, soft object like a pencil eraser.

OR

- 2 Press the Backlight button on the left side of the RC3200.

If the LCD touch screen stays blank or becomes black when turning on the display, read the next section 'Changing the LCD Contrast' to adjust the contrast of the LCD touch screen.

Note RC3200 has a timeout feature: the LCD touch screen and the backlight automatically turn off to save power. See 'Adjusting the Settings' on p. 11 to adjust the timeout for the LCD and the backlight.

Changing the LCD Contrast




To adjust the LCD contrast on the touch screen:

- 1 Press and hold the Backlight button.
- 2 While still holding the Backlight button, press the Page Up button once to increase the LCD contrast one level. The LCD contrast is adjusted one level up. Or, press the Page Down button once to decrease the LCD contrast one level. The LCD contrast is adjusted one level down.
- 3 Release the Backlight button when the contrast is satisfactory. The LCD contrast can be adjusted 16 levels.

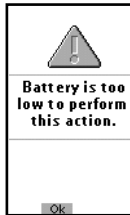
Note To adjust the contrast multiple levels, you have press the Page Up or Page Down button multiple times. When you press and hold the Page Up or Page Down button, the LCD contrast will only change one level.

The Battery Status

The battery icon  indicates the status of your batteries.

When the battery status is low, the Low Battery icon  appears at the top of the touch screen.

You can still operate your devices, but you cannot adjust the settings, learn commands or record macros anymore. When you try to perform these actions, a message screen appears.



Replace the batteries to make the RC3200 fully functional again. See 'The Batteries' on p. 3 to replace the batteries.

4. Operating Audio Video Devices

To operate your home theater components via your RC3200 you have to switch to the Home Page. This screen displays the available devices like TV, VCR, DVD, PreAmp and so on.

Using the Two Home Pages

- Press the far right Hard button directly beneath the screen (it's labeled "Home" directly above the button).

The first of two home pages appears, showing some of the available devices in the RC3200.

- Use the Page Up and the Page Down hard buttons on the left side of the body of the remote control to switch between the two home panels.

Selecting a Device from a Home Page

- Tap the soft button of the device you want to operate. The first page of the selected device appears. Use the Page Up and Page Down Button to go to another page of the device

You operate devices using the buttons on your RC3200:

- Soft buttons (touch screen buttons);
- Hard buttons.

Using the Soft Buttons

By tapping the soft buttons on the LCD touch screen you send IR commands to the device you have selected. The name of the active device is indicated at the top of the touch screen.

Note You can operate the soft buttons in the same way you operate hard buttons on a conventional remote control. When you keep the soft button pressed instead of tapping it, RC3200 keeps sending the IR command.

Using the Hard Buttons

Hard Buttons can be operated at any time, even without turning on the LCD touch screen.

Mode button:

Press and hold 3 seconds to activate the Mode screen (enables you to program the RC3200).

Back and Fwd buttons:

Tap to navigate back and forth between the last few panels you've viewed (like an internet browser).

Home button:

Tap to activate the Home screen.

Menu buttons:

To perform actions in the menu of a device, like the on screen display of a TV or a VCR display. Use the cursor to move up, down, left or right in the menu and press OK to select.

Volume Up and Volume Down

Mute

Function button:

Can be programmed at will.

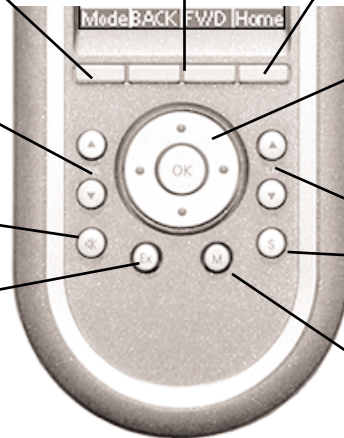
Channel Up and Channel Down

Status button:

Reserved for status of special Marantz products.

Function button:

Can be programmed at will.



Setting Up Your RC3200

1. The Mode Button and the Mode Menu

RC3200 starts up in Use mode. In this mode you operate your devices. For customizing the RC3200 (adjusting the settings, learning buttons or recording macros) you have to switch to the appropriate mode via the menu that appears when you press and hold the mode button.

The RC3200 can be put into 4 different modes. These modes are:

Use mode Normal operation. See 'Operating Devices' on p. 8.

Setup mode For changing the RC3200 system settings. See 'Adjusting the Settings' on p. 11 for more details.

Learn mode For learning commands from other remote controls. See 'Learning Commands' on p. 15 for more details.

Macro mode For recording macros. You can assign multiple commands to one single button. See 'Recording Macros' on p. 18 for more details.

Note Learning commands and recording macros is not possible from either of the Home pages. You must select a device or the Macro group first, then press and hold the Mode button.

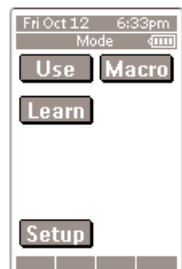
1 On one of the Home pages, tap the soft button of the device you want to customize.

The first page of the selected device appears.

2 Press and hold the Mode button for **3 seconds** (this prevents accidental reprogramming).

The Mode Menu appears.

3 Select the desired mode from the Mode Menu.



The Mode Menu

2. Adjusting the Settings

The RC3200 settings can be adjusted in the Setup mode.

- 1 Press and hold the Mode button for 3 seconds.
The Mode screen appears.
- 2 Tap Setup in the Mode screen.
The first Setup page appears.

The RC3200 settings consist of 3 setup pages with several settings per page. Use the Page Up and Page Down buttons to navigate to the appropriate setup page.

First Setup Page

On the first setup page you can adjust:

- the LCD timeout;
- the backlight timeout;
- the beep volume.

Adjust the LCD Timeout

The LCD timeout indicates how long the LCD touch screen stays active before it turns off. The LCD will only time out when you don't touch any buttons. You can set the timeout between 1 second and 120 seconds.

- Press '+' to increase or '-' to decrease the time the LCD stays active.
- Tap '+' or '-' once to adjust the timeout 1 second up or down.
- Press and hold '+' or '-' to adjust the timeout per 10 seconds up or down.



Setting Up Your RC3200

Adjust the Backlight Timeout

The backlight setting indicates how long the backlight of the LCD touch screen and the buttons stays active. The backlight timeout can be set between 1 second and 120 seconds.

Note The backlight cannot stay active longer than the LCD. If you increase the backlight timeout, the LCD timeout will automatically increase as well.

- Press '+' to increase or '-' to decrease the time the backlight stays active.
- Tap '+' or '-' once to adjust the timeout 1 second up or down.
- Press and hold '+' or '-' to adjust the timeout per 10 seconds up or down.



Note When the settings for the LCD timeout and the backlight timeout are high, the battery lifetime may be reduced.

Change the Beep volume

The beep volume setting adjusts or turns off the volume of all button and system beeps on the RC3200. The beep volume levels are mute, soft, medium and loud.

- Press '+' to increase or '-' to decrease the beep volume.

Second Setup Page

On the second setup page you can adjust:

- the date
- the time

Adjust the Date

You can set the year, the month and the day in the date settings.

- Press '+' to increase or '-' to decrease the value for the year, month and day.
- Tap '+' or '-' once to adjust the year, month and day one value up or down.
- Press and hold '+' or '-' to adjust the values for the year and the month more rapidly. The value for the day settings will change per 5 days.



The RC3200 will immediately reflect the date change at the top of the screen.

Adjust the Time

- Tap '+' or '-' once to adjust the time 1 minute up or down.
- Press and hold '+' or '-' to adjust the time more rapidly. The time will increase or decrease per 30 minutes.

The RC3200 will immediately reflect the time change at the top of the screen.

Third Setup Page

RC3200 Information

This page contains information that may be important to the dealer in case of a defect. The following information is displayed on this screen:

- Free memory (in percentage), which gives you an indication on how much memory is left to (further) customize the RC3200;
- Boot version;
- Application version;
- Configuration file;
- The Revert button.

The Revert Button

Warning When you revert the RC3200, all customization is lost permanently. You lose all RC3200 settings, learned codes and recorded macros.

By tapping the Revert button the RC3200 will be reverted to the default configuration. Reverting to the original configuration restores the RC3200 to its initial state. You might have to revert when you notice that scrolling through pages is slowing down. This might be the case when you have added a lot of commands to the RC3200.

- 1 Tap the Revert button.
A message screen appears to confirm or cancel the revert process.
- 2 Press OK or Cancel.

To Exit Setup Mode

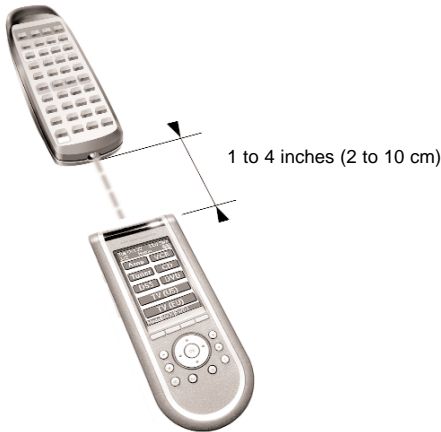
- 1 Press the Mode button.
The Mode screen appears.
- 2 Tap the mode button you want to go to.
RC3200 switches to this mode. See also 'Working with Modes' on p. 10.

3

Learning From Other Remotes

Overview of Learning

If you own any non-Marantz components, you can program RC3200 to reproduce IR signals from your existing remote controls via RC3200's learning eye. To do this, place RC3200 and the device's remote control on a flat surface, 1 to 4 inches (2 to 10 cm) apart.



To learn commands from other remote controls, RC3200 has to be in Learn mode. Switching to Learn mode is only possible from a specific device, not from the Home Pages. See “The Mode Button and the Mode Menu” on p. 10.

Per device you can learn all soft and hard buttons on the RC3200, except for:

- the Backlight button;
- the Back and FWD buttons;
- the Page Up and Page Down buttons;
- the Mode button;
- the “S” (Status) button;
- the Home button.

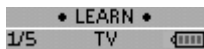
Setting Up Your RC3200

The Learn Sequence

1 From the Home page, select the device, e.g. TV, with the buttons you want to teach new commands to.
The device screen appears.

2 Press and hold the Mode button for 3 seconds.
The Mode Menu appears.

3 Tap Learn on the Mode Menu.
*RC3200 is now in Learn Mode. 'Learn' and the label of the selected device appear at the **top** of the touch screen.*



4 Use, if necessary, the Page Up or Page Down button to go to the next button you want to learn.

5 Press the soft or hard button you want to learn on the RC3200.
The Learn label changes to Learning, which means RC3200 is ready to receive commands from an existing remote control. The RC3200 will wait for 3 seconds to receive an IR code from another remote control.

Note When a hard button is pressed to learn, there is no on screen feedback to indicate which button is pressed.

6 Press and hold the button on the existing remote control you want to learn to the RC3200.

When the RC3200 receives an IR code:

- You hear a confirmation beep;
- The label changes from Learning to OK.



The Learn sequence has been successful.

When the RC3200 does not receive an IR code in 3 seconds:

- You will hear an error beep;
- The label changes from Learning to Failed.



The Learn sequence has failed. RC3200 will return to Learn mode. Return to step 5 of the Learn sequence to relearn the button.

Tip You do not have to wait for the OK or Failed to disappear. If you press another button (soft or hard button), the RC3200 Learn sequence immediately goes back to step 5.

7 Go to other pages of the selected device with the Page Up and Page Down buttons. Repeat steps 6 and 7 until you have copied all the commands of the existing remote control.

8 Press Done when you have finished learning commands to the buttons of your choice.
RC3200 returns to Use Mode.

You can try out the new IR codes or select another device to learn.

Tricks for Remote Controls that are “Difficult”

Replace the batteries in your original remote control. Poor battery charge in the original remote will still operate original component from long range, but will corrupt carrier frequency learning.

Change distance. Try increasing distance up to 4 feet. Start in the normal 1” to 4”, then double the distance to 8” and so on.

Use a short “Tap” instead of a press and hold. A press and hold is only really necessary when you are learning a button that in actual operation you would sometimes press and hold (e.g. volume up and down, fast forward scan). If your system is large and you are concerned about memory, try teaching most commands as taps rather than extended press and holds.

The “Flicker” technique – rapidly tap the button while learning (7x per second or faster). This is very useful for difficult volume up and volume down commands from some manufacturers.

The “Swoop”- Start from 2’ away and swoop the remote towards the learning remote. Use in absolute desperation, out of sight from anyone who might see you. Reportedly works occasionally.

The “Flasher” – Hold an opaque object in front of the remote and remove it then quickly replace it. This is especially useful when you want to capture one part of a macro from another remote.

4. Macro Planning

Overview

A macro allows you to send a sequence of commands using one single button. You can for instance, switch on your TV, select the external input, switch on your surround receiver, select the DVD input, switch on your DVD player and begin play. All this can be done by pressing a single “Watch DVD” button on your RC3200.

Basically, you can assign any button as a macro button. However, it is recommended that you use the reserved macro buttons in the Macro Group since they are conveniently labeled with popular Macro titles. However, any button (except those on the Home pages) can be reprogrammed to be a Macro.

Making Reliable Macros

If your entire system is new to you, practice using the RC3200 manually for a few days before programming any macros. You’ll find that your home theater requires many operations that require multiple steps to do. You have to decide whether to use a Macro or simply teach everyone how to do the procedure manually. Some macros will behave very inconsistently and are extremely frustrating to casual users. An example is turning on a non-Marantz home theater system.

Marantz builds components that are “macro-friendly”. Instead of a single “power” button, the remote controls have a discrete “On” and a discrete “Off” button. With a Marantz system, you can record a Macro that is very reliable from a series of “On” commands.

However, many other brands turn on and off with a single “Power” button. The RC3200 cannot “look” at your components to see if they are on or off. So, if you recorded a macro intended to power up a non-Marantz component with a toggle power command, it wouldn’t be very reliable. Here’s an example:

Your spouse goes out to the local video store and rents a videotape. When he/she gets home, they pop the tape in the VCR (most VCR’s automatically turn on when a tape is inserted). Your spouse touches the macro button you programmed to power up the sys-

tem. The recorded sequence of “power” buttons is played back. Unfortunately, since the VCR was already on, it is now off and everything else is on. Your spouse sees no picture, assumes the macro didn’t work, so touches the button again. This time, the macro turns the VCR on and everything else off. Frustrating!

Sometimes, the problem is not with a toggle type “power” command, but a toggling “input” command that scrolls through multiple tv inputs. There are some great tricks below, but sometimes, when there is no secret trick, you must simply leave the toggle type of command out of the macros and teach everyone in your family how to do some things manually.

Secrets of Great Macros

Sometimes there is a reliable way to use toggle type commands in macros. Unfortunately, it will not be written down in your component’s instruction manual. You will have to find it through experimentation and imagination. What you are looking for is an “anchor” command that will put your component in a known state. Once it is in a known state, you can use toggle commands in your macro.

Powering Up DVD Player Macro:

Most DVD players will turn on when off when they receive a Play command. Thus a discrete On command is two steps,

- 1) DVD Play

- 2) DVD Stop

A discrete off command is constructed by:

- 1) DVD Play

- 2) Delay (amount of delay varies with brand and model)

- 2) DVD Power

Setting Up Your RC3200

Selecting Source on a TV Macro:

Many televisions will return to a particular input with either a channel up or down command or by selecting a particular channel. Thus, to construct a macro that selects the EXT1 input:

- 1) Channel Up (selects the Antenna A input)
- 2) Input (toggles to the Antenna B input)
- 3) Input (toggles to the EXT 1 input)

The Ultimate “Watch DVD” Macro

Another secret of recording great macros is to automate processes that typically frustrate casual users. An example is the typical reaction of a casual user when faced with an older DVD that refuses to play until a menu is navigated. Typically, the menu can be bypassed by programming the last few steps (after the DVD player is turned on) of your “Watch DVD” macro with this sequence:

1. Stop
2. Delay (amount varies with brand and model)
3. Stop
4. Delay (amount varies with brand and model)
5. Play

Almost all DVD players will skip the Menu and begin playing the Movie directly with this macro!

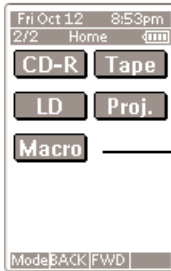
Time the Power On Delays

As you start acquiring ideas about what multiple step processes you would like to record as macros, write down the steps. Practice them manually and try them when all the components are OFF. Often you will find that extensive delays are necessary immediately after a component is powered on. When you actually record your macro, you must enter the correct amount of delay at the time of programming. The RC3200 does not enable you to correct the delay time, you must reprogram the entire macro. Thus, you'll keep more of your hair if you time things carefully and write them down first.

5. Recording Macros

Remember, you can assign any button as a macro button. However, it is recommended that you use the reserved macro buttons in the Macro Group since they are conveniently labeled with popular Macro titles. However, any button (except those on the Home pages) can be reprogrammed to be a Macro.

- 1 Navigate to the second Home page by pressing the Home button, then using either the Page Up or the Page Down buttons.



Tap the Macro button on the second home page to navigate to the Macro group of pages.

- 2 Select the Macro group of pages by tapping the Macro button.



The buttons on the Macro pages have popular labels preprogrammed for you. Use the page up and page down buttons to scroll through both of the Macro pages to see all of the available Macro buttons.

- 3 Press and hold the Mode button for 3 seconds.
The Mode Menu appears.
- 4 Tap Macro on the Mode Menu.
A message screen appears instructing you to select the button that will trigger the macro. RC3200 is now in Macro Mode.
- 5 Tap Next.
The Macro pages reappear so that you can pick the button that you want to issue a macro.

Setting Up Your RC3200

- 6 Tap the soft or hard button you want to select as a macro.
A message screen appears instructing you that the RC3200 is now recording the buttons you press as macro steps.
- 7 Tap Start.
The Home Pages appears with the 'Recording' label at the top of the screen. The buttons you tap on this screen will not be recorded. From the Home Pages you can go to the different devices or you can press the Extra hard button to go to the Extra screen with delays and beeps.
- 8 Tap the button of the device you want to go to.
The device screen appears.
- 9 Tap the soft or hard buttons with the commands you want to record.
- 10 Press the Page Up and Page Down buttons to go to different screens of the same device.
-or-
Press the Home button to go to the Home Pages again.
- 11 To add delays and beeps to the macro, press the Extra hard button on the Home Pages.
The Extra screen appears.



Delays

Use delays to compensate for the dead time when a component first powers up and will not respond to another IR command. Additionally, short .5 second delays make channel macros more reliable.

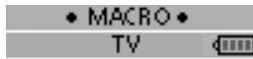
Beeps

Use beeps to signal that the macro is finished.

To add a delay or a beep, tap the corresponding button.

TIP By tapping several Delay buttons, the duration of the delay will be increased.

- 12 Press Stop to stop recording.



A message screen appears.

You have created
and recorded
the macro.

Press 'OK' to save.

Press 'Cancel' to
cancel the macro.



- 13 Press OK to save the macro and return to the Mode Menu. The existing command of the selected button is replaced by the macro.
-or-
Press Cancel to return to the Mode Menu without saving the macro. The button retains its previous command.
- 14 Set the RC3200 in Use mode to test the recorded macro. If you need to make changes, re-record the macro from the beginning.

Programming Via PC

1. RC3200 Setup Programming Software

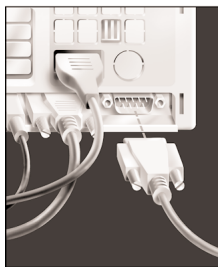
If you want to personalize your RC3200 even more beyond its standard programming features, RC3200 Setup Programming Software is the tool for you to use. You can find more information and updates of the software on <http://www.marantz.com>. RC3200 Setup Programming Software is the visual editor for creating and configuring RC3200 Configuration Files (windows file extension .NCF) on your computer. An NCF is a file that is used to define the RC3200 behaviour and look for the LCD touch screen.

Note It is advised to make backup copies of your own configurations. This can be done with RC3200 Setup Programming Software.

With RC3200 Setup Programming Software you can:

- define the types and brands of your devices;
- generate the Home Pages;
- design the page layout and the appearance of buttons;
- configure the behavior of the hard buttons and soft buttons;
- save, duplicate and share NCFs, devices, buttons, bitmaps or codes with another RC3200;
- preview the NCF on the RC3200 emulator;
- download the new configurations to your RC3200 by means of the included serial cable;

- 1 Plug one end of the serial cable in the serial port on your computer.
- 2 Plug the other end of the serial cable in the serial port on the RC3200.



Note When the RC3200 is connected to the PC, the battery lifetime may be reduced.

Minimum System Requirements

- PC with a Pentium 166 MHz or higher
- Windows 95/98/ME/XP or NT 4.0/2000
- 32 MB of RAM
- 16 MB of free hard disk space
- Free serial port

The first time you run RC3200 Setup Programming Software, you have to accept the license agreement. Otherwise RC3200 Setup Programming Software will not run.

Maintaining RC3200

Important Notices

Take care not to scratch the touch screen

Use your finger to tap the LCD touch screen or use plastic-tipped pens intended for use with touch screens. Never use an actual pen, pencil or other sharp object on the LCD touch screen.

Protect RC3200 from extreme temperatures

Keep RC3200 away from heaters and other heat sources.

RC3200 is not waterproof

RC3200 should not be exposed to rain or moisture.

Do not store or use RC3200 in any location that is extremely damp or wet.

When you have spilled water on RC3200, you have to take out the batteries and let RC3200 dry for 48 hours before you place the batteries back.

When you have spilled other liquids like coffee on the RC3200, you can clean it with distilled water. Make sure no water gets into the housing.

The touch screen of RC3200 contains a glass element

Do not drop RC3200 or subject it to any strong impact.

Cleaning RC3200

Use a soft, damp cloth to clean RC3200.

If the LCD touch screen of RC3200 is spoiled, clean it with a soft cloth moistened with a diluted window-cleaning solution.


Do not use a corrosive detergent or an abrasive sponge.

Avoid the use of abundant water.

How do I reset the RC3200?

Under normal circumstances, you will never have to reset the RC3200. However, on rare occasions, if the RC3200's touch screen freezes or if you notice unusual behavior, you need to perform a reset to get the RC3200 running again. All customized commands and devices are retained.

- 1 Slide the battery cover off the back of the RC3200. You will see the Reset button in the battery compartment.



Erwin to place illustration here.

- 2 Use an unfolded paperclip or a sharp pencil to carefully press the Reset button.

The RC3200 restarts and an Introduction screen appears. The RC3200 beeps twice to indicate it is ready for use.

How do I revert to the original configuration?

Reverting to the original configuration restores the RC3200's devices and commands to its state when you purchased it. This means that all programming is lost permanently. Normally, you never have to revert the RC3200. See 'Revert' on p. 14.

- 1 Press and hold the Mode button for 3 seconds.
The Mode Menu appears.

- 2 Tap the Setup button.

- 3 Scroll to the third setup page.

- 4 Tap the Revert button.
A message screen appears to confirm or cancel the revert process.

- 5 Press OK or Cancel.

Do I have to calibrate the touch screen?

The RC3200's touch screen is calibrated when it leaves the factory. You only have to re-calibrate when the software is upgraded.

General Problems

The display stays blank or becomes black

- Make sure the batteries are properly installed. See “The Batteries” on page 3.
- Press the Backlight button to make sure RC3200 and the backlight are turned on. See ‘Turning on the Display and the Backlight’ on p. 6.
- Adjust the contrast using the Backlight button and the Page Up or Page Down buttons on the left side of RC3200. See ‘Changing the LCD Contrast’ on p. 7.

The display is too light or too dark

- Adjust the contrast using the Backlight button and the Page Up or Page Down buttons on the left side of RC3200. See ‘Changing the LCD Contrast’ on p. 7.

RC3200 shuts off automatically

- This is a timeout feature of the RC3200 to save power. You can change the time RC3200 stays on in the Settings. See ‘Adjust the LCD Timeout’ on p. 12.

Devices do not respond to commands from RC3200

- Make sure RC3200 is in Use mode. See ‘Working with Modes’ on p. 10.
- Make sure RC3200’s sending LED is pointed towards the device you’re operating.
- Check if the battery level is low. If so, replace the batteries. See ‘The Batteries’ on page 3.
- Check that you have correctly learned the IR commands. See ‘Tricks for Remote Controls that are “Difficult”’ on p. 17
- If the button is programmed with a macro, and all other buttons are working correctly, reprogram the macro. See ‘Recording Macros’ on p. 21.

RC3200 does not learn commands from an existing remote control.

- Do not learn commands directly under fluorescent lights.
- Do not learn commands on a reflecting table surface.
- Check if the battery level is low. If so, replace the batteries. See ‘Tricks for Remote Controls that are “Difficult” ’ on p. 18.

After exhausting all previous suggestions, still cannot learn one more IR command.

- Check if there is sufficient memory to learn commands (more than 1% free memory). If not, revert the RC3200. See ‘RC3200 Information’ and ‘Revert’ on p. 14.

RC3200 is not recognized by the RC3200 Setup Programming Software software

- Make sure the serial cable is properly connected. See 'RC3200 Setup Programming Software' on p. 24.
- Disconnect other equipment connected to the serial ports, e.g. PDA's.
- Plug the serial cable in another serial port.
- Try to connect multiple times.

Programming Problems

Buttons are not sending the correct commands

- Check whether the button of the device is learned properly. See 'Learning Commands' on p. 15.
- Check whether the macro is recorded properly. See 'Recording Macros' on p. 21.

RC3200 will not switch modes

- Replace the batteries. When the batteries are low RC3200 prevents you from switching to customizing modes so that no customization can get lost.

RC3200 is low on memory

- Revert the RC3200. See 'Revert' on p. 14.

The configuration file is corrupted

- When this unlikely event occurs, you have to revert to the original configuration or use RC3200 Setup Programming Software to download a new configuration file. All your customized commands and devices will be lost and you will have to reprogram your RC3200. If you use RC3200 Setup Programming Software, it is advised to make backup copies of your customized configurations. See 'Revert' on p. 14 and 'RC3200 Setup Programming Software' on p. 24.

RC3200 error message

If the error message 'Invalid CF version or corrupt Flash!' occurs:

- Use the Reset button on the back of the RC3200. See 'How do I reset the RC3200?' on p. 27.
- Try to recover the RC3200 Configuration File (NCF) by downloading a backup copy or the default file from RC3200 Setup Programming Software. See 'RC3200 Setup Programming Software' on p. 24.
- Go to the Marantz website <http://www.marantz.com> for more information.

Specifications

The specifications and design of this product are subject to change without notice.

Display	Monochrome touch screen LCD with 4 gray levels and digital contrast control. Resolution: 160 x 100 pixels Blue EL backlighting for LCD and hard buttons
Interface	3-wire (RS232) serial port connector
Software	Marantz Digital Learning to operate different brands Built-in Marantz IR codes Total number of devices limited only by memory
Infrared (IR)	Infrared sending LED and learning eye Operating distance of 33 feet (10 meters) Learning frequency up to 56 kHz and 455 kHz Learning distance 1 inch (2 cm) up to 4 inch (10 cm)
Memory	1 MB non-volatile flash memory
Batteries	3 AA-batteries (3 x 1,5V): disposable or rechargeable
Power management	Power on by tapping the LCD touch screen or by pressing the Backlight button Power off automatically
Dimensions	7.8 inch x 3 inch x 1.3 inch (177mm x 74mm x 33mm)
Operating temperature	41°F to 113°F (5°C to 45°C)
Accessories	RS232 cable for PC connection 3 AA-batteries

A

- Ahead 4
- Anchor macro technique 19
- Application version 14
- Adjusting
 - Backlight timeout 12
 - Beep volume 13
 - Date 13
 - LCD Contrast 7
 - LCD Timeout 12
 - Settings 11
 - time 13

B

- Back 4
- Back and Ahead buttons: 9
- Backlight 6
 - adjusting 12
 - Switching off 6
 - Switching on 6
- Backlight button 4, 6, 10
- Batteries 3
- Battery cover 3
- Battery indicator 5, 8
- Battery Status 8
- beep 12
 - adjusting 12
 - two beeps 3
- Boot version 14
- Buttons that can't learn 1

C

- changing batteries 3
- Cleaning RC3200 26
- Cloning 16
- Computer Programming 24
- Connecting to PC 24
- Configuration file 14
- Contrast 7

D

- Date 13
- Delays 22
- Device name 5
- Difficult remote control tricks 17
- Discrete Codes 18
- DVD Movie Macro 20
- DVD Off Macro 19
- DVD On Macro 19

F

- Flasher technique 17
- Flicker technique 17
- Function button 9

H

- Hard buttons 4, 9
- Home Button 4, 5, 8, 9
- Home Menu 5, 8
- Home Pages 8

L

- LCD 30
- LCD Contrast 7
- LCD timeout 6, 11
- Learn mode 10, 15
- Learning 15
 - buttons that can't learn 15
 - Learn Sequence 16
 - learning distance 15
 - learning tricks 17
- Learning Sensor 4

M

- Macro mode 10
- Macro Planning 18
- Macros 21

- beeps in 22
- delays in 22
- Maintaining 26
- Menu buttons 9
- Mode button 4, 9, 10
- Mode Menu 10
- Modes 10
 - Learn 10
 - Macro 10
 - Setup 10
 - Use 10

P

- Page Down 4
- Page Up 4
- Page Number 4
- PC Programming 24
- PC System Requirements 25
- Power On Delays 20

R

- RC3200 Setup 24
- Recording Macros 21
- Reset 27
- Revert 27
- RS232 Programming 24

S

- Sending LED 4
- Sequences 18
- Serial Cable 24
- Serial Port 4
- Service and Support 31
- Settings 11
 - Backlight Timeout 12
 - Beep volume 12

- Date 13
- LCD Timeout 11
- Revert 14
- Time 13
- Setup mode 10
 - Exit Setup 14
- Soft buttons 5, 9
- Software 24
- Specifications 30
- Status button 9
- Swoop technique 17

T

- Tap technique 17
- Teaching 16
- Time 13
- timeout 6
- Toggle codes 18
- Touchscreen 4
- Tricks for Learning 17
- TV Input Macro 20

U

- Use mode 10

W

- Website 35

Service and Support

For service and support, please contact Marantz customer service at 1-800-447-1970. When you contact Marantz customer service, you will be asked for the technical information listed on the Info panel.

To view this information, follow these steps.

- 1 In Use mode, press and hold the Mode button.
- 2 Touch the Setup button on the Mode Menu.
- 3 Navigate to the third setup page using the page up and page down buttons on the side of the body of the remote.

Updates and New Products

For news about updates and new products, please visit us on the World Wide Web at:

<http://www.marantz.com>

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