

SRC-3810

Touch Screen Remote Control



User Manual

021201

Preface

About this manual

This manual is designed to make using the SRC-3810 Touch Screen Remote Control as easy as possible. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice.

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Chapter 1 - Introducing the SRC-3810

Congratulations on your purchase of the SRC-3810 Touch-Screen Remote Control. The SRC-3810 is a digital universal remote control that is easy to use, enabling you to control all of your electronic devices equipped with an infrared (IR) remote.

The SRC-3810 uses a Touch Screen panel and control buttons and is simple to use. Simply select a device and the appropriate screen appears. You can control up to sixteen devices, including VCRs, DVDs, TVs, and satellite dishes.

The SRC-3810 is easy to set up. You can quickly configure each device in your household or office using the innovative “learning eye” feature. In addition, the advanced macro function enables you to initiate a chain of up to 60 commands with the touch of a single button.

Convenient and easy to use, the SRC-3810 provides you with a complete central control solution.

Note: *This manual helps you learn how to use the advanced features of the SRC-3810. It does not explain how to use the functions for your devices. Please refer to your device user's manual for information related to your device.*

SRC-3810 Features

The following list identifies the SRC-3810's key features.

- Large Touch Screen display
- Macro sequence function—each macro can store 60 commands
- Controls up to 16 devices including DVDs, TVs, Satellite Receivers, VCRs and CDs
- Learns the IR codes from your existing remote controls to quickly set up devices.
- Pre-programmed manufacturer's codes for many models.
- User programmable buttons for each device include 6 hardware buttons, the device key and 42 soft buttons.
- Optional PC Interface for connection to a personal computer.

Unpacking the SRC-3810

After you have unpacked the SRC-3810, check the contents to make sure the following items are included.

- SRC-3810
- This User's Manual
- Pre-programmed Code List

If any of the above items are missing or appear damaged, contact your dealer immediately. Do not throw the shipping carton away in case you need to ship your SRC-3810.

Identifying Components

Refer to the following illustration to identify the components of the SRC-3810.

Infrared Eye: point the infrared eye at the device you want to operate.

Light Sensor: detects ambient light to automatically set the LCD panel backlight.

Quick Channel: enables you to group channel types for easy access.

LCD: backlit LCD emulates the hard key controls, and provides a user interface for the SRC-3810.

Touch Screen: enables you to change channels, configure the SRC-3810, create macros, and more.

Backlight/Sleep: press this button to turn on the LCD backlight. Press and hold this button to set a timer and Macro that will automatically turn off the SRC-3810 in a set amount of time.

Hard Key: these buttons enable you to turn the controlled devices on and off, change channels, and adjust or mute the audio volume.

Page/Date: press this button to browse through the device screens. Press and hold this button to display the date and time.

Device Keys: press these buttons to display remote control screens for the devices listed.

Learning Eye: point your device's remote control at the learning eye to enable the SRC-3810 to learn your device's infrared codes.

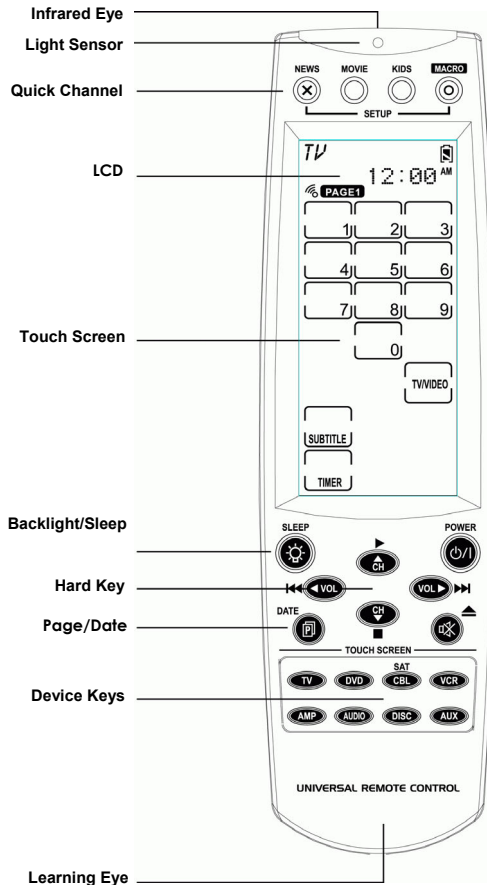


Figure 1: Front View

Chapter 2 - Getting Started

This chapter provides you with the information to quickly get using the SRC-3810.

Installing Batteries

The SRC-3810 operates on four AAA Alkaline batteries (not included). Batteries must be inserted before you can operate the SRC-3810.

1. Turn the remote over, push the tab in the direction of the arrow on the battery cover and slide the cover off.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery case.
3. Snap the battery cover back into place.

Battery Indicator

A battery icon is displayed in the upper right-hand corner near the time display:



Figure 2: The Battery Icon

When the batteries are almost depleted, the battery low icon appears.

Note: When the battery low icon appears, you are not allowed to enter setup mode or sleep mode.

Battery Tips and Precautions

- Immediately replace the batteries when the battery low icon appears.
- The SRC-3810 will not lose programmed data when batteries are replaced, but will reset the time.
- Always use fresh batteries. Alkaline batteries are recommended. Do not mix different types of batteries.
- Be sure that the positive (+) and negative (–) polarities of the batteries match the diagram shown in the compartment.
- Do not expose the batteries to excessive heat or flame.
- Keep batteries out of the reach of children.
- Weak batteries reduce the effective distance of the unit.
- To reduce danger of leakage and damage, remove used batteries when used longer than two years.

About the Touch Screen

The Touch Screen reduces the number of buttons by changing its configuration for each device selected. In this way, the Touch Screen provides 672 buttons (16 devices x 2 pages x 21 buttons per page).

Turning the Touch Screen On

Touch the screen to activate it. It will turn itself off after the user-defined power down time period. (To change the time, see *Setting the Power Down Time* on page 36.

Touch Screen Precautions

Please read the following instructions carefully:

- Tap the LCD Touch Screen gently; never use force.
- Do not use a pen or any sharp object to tap the screen. You might damage the surface.
- Keep the Touch Screen dry. Wipe off any spills immediately. The SRC-3810 is not waterproof; never immerse it in liquid.
- Don't expose the SRC-3810 to extreme temperatures. Keep it away from heat sources.
- Avoid dropping the SRC-3810.
- Don't drop anything on the Touch Screen.
- Clean the LCD Touch Screen with a soft cloth. If needed, dampen the cloth slightly before cleaning. Never use abrasives or cleaning solutions.

Touch Screen Buttons

The Touch Screen buttons enable you to operate the SRC-3810 and your external devices. Use these buttons to program codes from your existing remotes, control your devices, and set up command sequences called macros. You will hear a beep when you press a button. To activate or deactivate the beep, see *Setting the Beep Signal* on page 38. The SRC-3810 turns itself off after a user specified time. To change the time, see *Setting the Power Down Time* on page 36.

Using Hard Keys

The buttons on the bottom part of the SRC-3810 enable you to operate devices as well as program the SRC-3810.

Three buttons have special functions:

- **Page/Date Button:** Toggles from Page 1 to Page 2 of the device buttons menus. If held down for more than two seconds, the date and time are displayed.
- **Power Button:** Turns devices off and on. During Touch Screen Layout (see page 24) displays all possible LCD options.
- **Backlight/Sleep Button:** Press this button quickly to turn on the backlight. Press and hold this button to enter the Sleep menu.

DATE



POWER



SLEEP



Entering the Setup Menus

Press and hold the ⊗ and the ⊙ buttons simultaneously to access the setup menus.

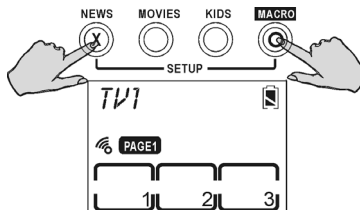


Figure 3: Entering the Setup Menus

Note:

When the battery low icon appears or you are in Channel Classification mode, you are not allowed to enter setup mode or sleep mode.

Navigating the Setup Menu

While in the setup menu, press ▲ and ▼ on the Touch Screen to scroll up and down through the menu and settings. Press ◀ and ▶ to scroll left and right through menu and settings. Press **OK** or ⊙ to confirm settings, and press ⊗ to exit a menu.

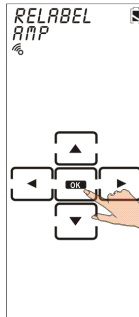


Figure 4: Navigating Menu

Note: When using the setup menu, you must press each button within two minutes of pressing the last button. Otherwise, the SRC-3810 will exit setup mode and return to normal operation mode.

The following illustration shows the setup menu tree:

SETUP

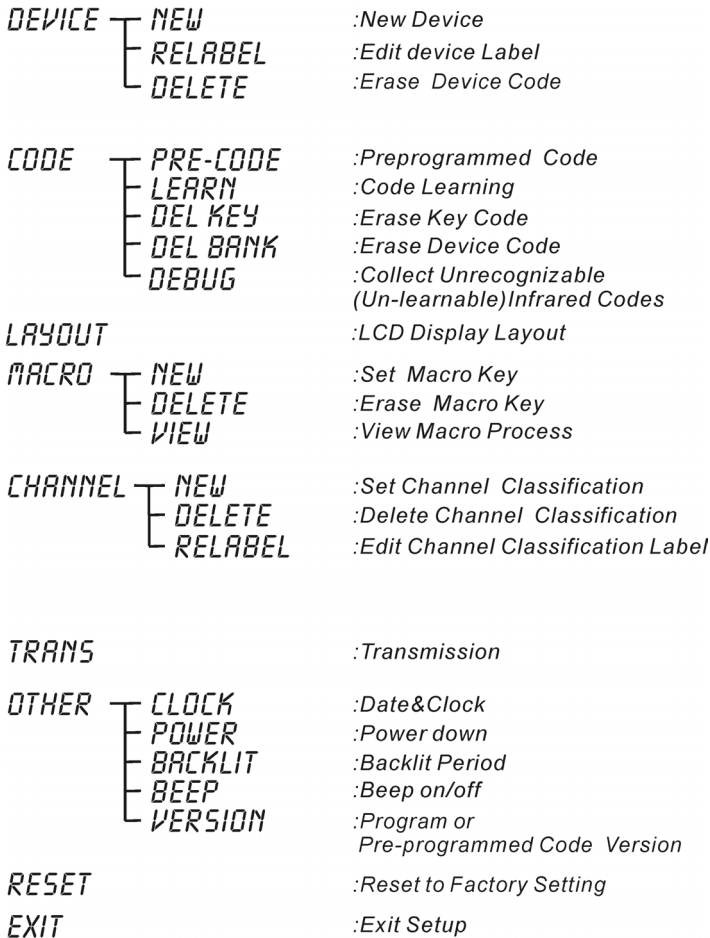


Figure 5: Setup Menu Hierarchy

The following chapter describes each menu.

Chapter 3 - Setting Up the SRC-3810

Before the SRC-3810 can be used to control a device, it needs to be configured to display your existing remote control buttons and it must be programmed to send the correct infrared signals.

This chapter guides you through the Touch Screen layout and SRC-3810 setup procedure.

Before continuing, refer to *Navigating the Setup Menus* on page 8 to learn how to navigate the menus.

Device Menu

Enter the setup menus, scroll to Device and press **OK** to enter the device menu. In the device menu, press **▲** and **▼** to scroll through the menu options:

- **NEW:** enables you to set up a new device
- **RELABEL:** enables you to rename a device
- **DELETE:** enables you to delete a device configuration

Note:

The SRC-3810 includes eight default devices:

TV DVD SAT VCR

AMP TUNER CD AUX

When a new device is created, the SRC-3810 automatically loads a default device configuration making it easy for you to edit the new device layout.

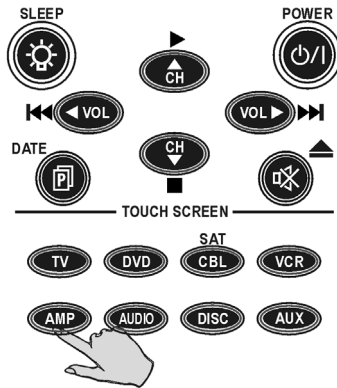
Creating a New Device

Follow these steps to create a new device:

1. Press ▲ or ▼ to select *NEW*.
2. Press **OK**.
3. Press the device key you want to use for this device (for example AMP).
4. Edit the device label. The label can be up to 8 alphanumeric characters:
 - Press ▲ or ▼ to scroll through the characters (from A-Z, 0-9, and the space key).

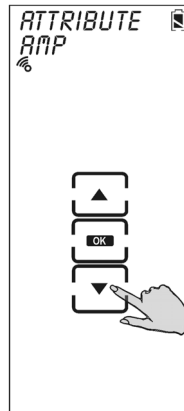
Note: Press and hold ▲ or ▼ to quickly scroll through the characters.

- Press ◀ or ▶ to move to the previous or next character. When selected, the character blinks.
- Press **OK** to confirm the entry.



You are prompted to select an attribute for the new device.

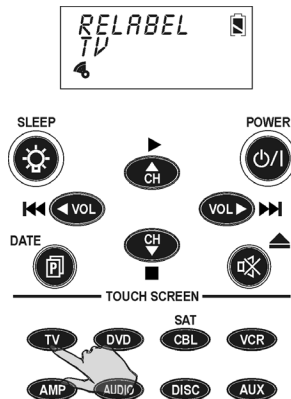
5. Press ▲ or ▼ to select a device whose attributes will be loaded to the new device.
6. Press **OK** to confirm the entry.



Re-Labeling Devices

Follow these instructions to edit a device label.

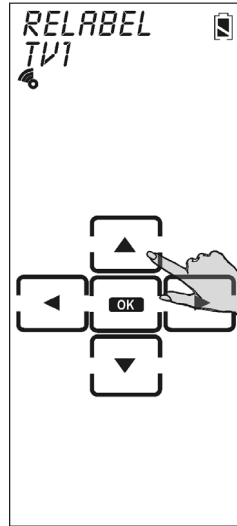
1. Press ▲ or ▼ to select *RELABEL*.
2. Press **OK**.
3. Press the device key you want to relabel (for example TV).



4. Edit the device label:
- Press ▲ or ▼ to scroll through the characters (from A-Z, 0-9, and the space key).

Note: Press and hold ▲ or ▼ to quickly scroll through the characters.

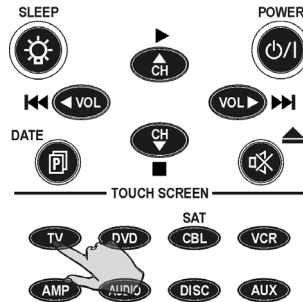
- Press ◀ or ▶ to move to the previous or next character. When selected, the character blinks.
 - Press **OK** to confirm the entry.
5. Press ⊗ to exit to the device menu.



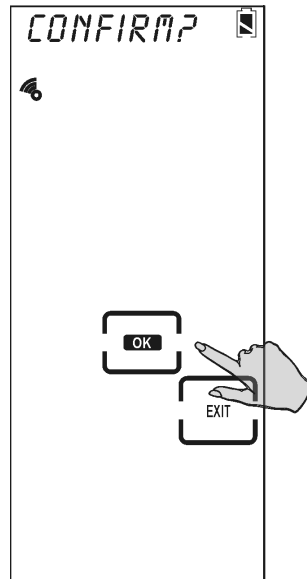
Deleting Devices

Follow these instructions to delete a device configuration including the LCD display and codes.

1. Press ▲ or ▼ to select *DELETE*.
2. Press **OK**.
3. Press the device key you want to delete (for example TV).



4. Press Ⓞ to delete the device. You are prompted to confirm the deletion.
5. Press **OK** to confirm the deletion. Press EXIT to cancel the deletion.
6. Press ⊗ to exit the setup menu.



Code Menu

Enter the setup menus, scroll to Code and press **OK** to enter the code menu. In the code menu, press **▲** and **▼** to scroll through the code menu options:


- **PRE-CODE:** use this method to automatically configure all buttons on the SRC-3810 for use with a specific manufacture model number. This feature is the fastest way to program the SRC-3810 but requires that your device be located in the Pre-programmed Code List that was bundled with the SRC-3810. Some newer or less-common devices may not be pre-programmed and must be learned using the Learning Function.
- **LEARN:** use this method to directly learn the proper infrared signals from another remote control. This method is perfect for newer or less common devices or if a certain button still not does perform the desired function after using pre-programmed manufacturer codes; however, not 100% of codes can be learned and it may be necessary to collect unrecognized codes and send them to Sunwave. (See page 22 for more information on unrecognized code collection.)
- **DEL KEY:** erases the key code
- **DEL BANK:** erases the device code
- **DEBUG:** collects unrecognizable (un-learnable) infrared codes for debugging purposes

Using Pre-Code to Program Devices


Follow these instructions to program a device using preprogrammed codes.

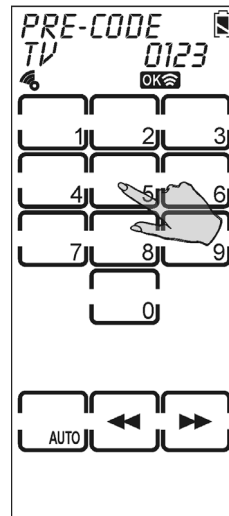
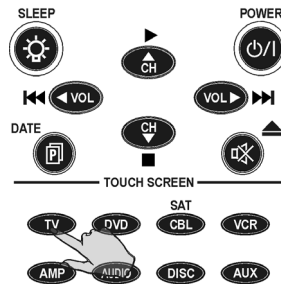
Press ▲ or ▼ to select *PRE-CODE*, and then press OK.



Manually Selecting the Code

1. Turn on the device you want to program the SRC-3810 to control.
2. Select the device (for example TV).
3. Check the preprogrammed code list that was bundled with the SRC-3810 for the four-digit code number of your device. If no code is displayed, that means this device has no pre-code.
4. Enter the four-digit code number and press  to confirm the entry.

Note: If the code only has one digit (for example, 0001), you do not have to input the preceding zeros; in this example, press '1'.

5. Press the POWER button  to test the code. The device you are trying to control should turn on (or off) as you press this button. If not, return to Step 2 and try another code.



You can also press  or  to increase or decrease the four-digit code number.


Note: Some codes are designed to operate more than one model. It may take several tries to find the code that works with your unit.

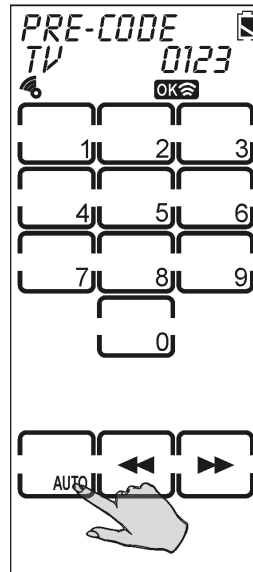
6. Press  to confirm the selection and save the settings or click  to exit.

Note: When you enter the Manufacture Code and an 'ERROR' message is displayed, it could be for two reasons:


1. That code number doesn't exist in the Manufacture Code table yet.
2. That code number is not in the range of the Manufacture Code table reserved for the default device screen

Selecting a Code Automatically

1. Turn on the target device you want the SRC-3810 to control.
2. Press the device hardware button (for example TV).
3. Point the SRC-3810 at the target device.
Press the AUTO button. An "AUTO" message displays while the SRC-3810 automatically cycles through the codes. Wait for the device to turn on and then press the POWER button  or AUTO key to stop the automatic search.



The last tried code is displayed in the upper right-hand corner. Test this code by pressing the POWER button .

If it doesn't work, you may need to press the tuning down key  and try a few of the previously scanned codes.

4. Press  to confirm the selection and save the settings or click  to exit.

Using Code Learning Mode

Follow these instructions to enable the SRC-3810 to detect and learn a remote control's configuration.

Before Using the Learning Function

Before you start using the SRC-3810's learning function, please heed the following precautions:

- Not all infrared codes are learnable by the SRC-3810. You may need to first collect the codes (see page 22 for more information) and then email them to Sunwave. New system firmware will be sent to you allowing your SRC-3810 to learn the codes.
- To change from a device that has already been programmed, delete all of the commands or the first device before teaching new ones. For example, to operate the living room TV instead of the bedroom TV, delete all commands for the bedroom TV first. Then re-configure the TV device screen for the living room TV.

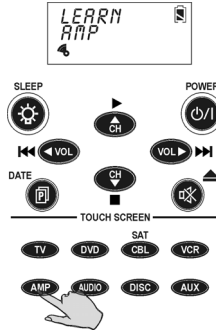
Note:

- Code learning does not work with all devices.
- Select one device screen in advance before using code-learning mode.
- All keys except the quick channel keys, sleep, page , and macro keys can be learned.

Learning from Another Remote Control

Before using learning mode, set both remotes on a flat surface so that the device's remote control IR is pointed at the SRC-3810's learning eye, which is located at the bottom of the unit.

1. Press ▲ or ▼ to select *LEARN*.
2. Press **OK**.
3. Point the target device's remote control at the SRC-3810 learning eye located at the base of the unit (see Figure 1: Front View).
4. Press the button corresponding to the target device.



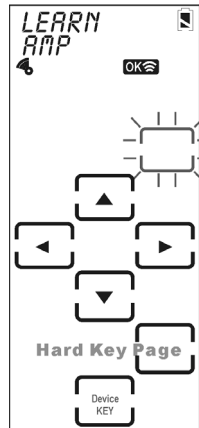
The SRC-3810 Touch Screen sequentially displays screens corresponding to first the hard keys, then page one of the soft keys, and finally page two of the soft keys. The blinking rectangle denotes the key being learned.

5. Press the corresponding button of the target device's remote control.

The SRC-3810 screen displays an **OK** message if the code was successfully learned or an **ERROR** message if the code was not learned.

Press **PI** to toggle between hard and soft key displays.

Note: When the remote has learned the last button on the page, the next page is automatically displayed.

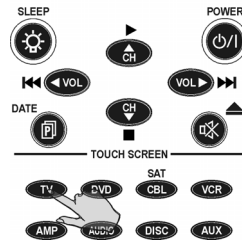
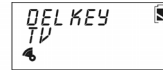


6. Press **⊙** to exit learning mode.

Erasing Key Codes

Follow these instructions to delete either SRC-3810 key codes.

1. Press ▲ or ▼ to select **DEL KEY**.
2. Press **OK**.
3. Select the device whose key code you want to delete (for example TV).



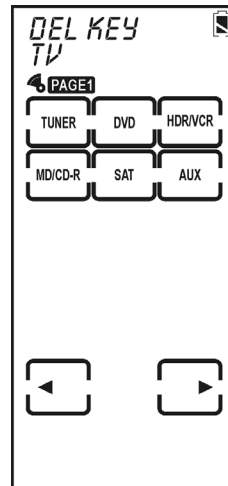
4. Select the key corresponding to the code that you want to delete.

The SRC-3810 screen displays an **OK** message if the code was successfully deleted.

Press **⏏** to toggle between hard key and soft key displays.

Press the device buttons to select a different device.

5. Repeat the above steps to delete other keys.
6. Once you press the button that you want to delete, the code is deleted.
Press **⊙** or **⊗** to exit.

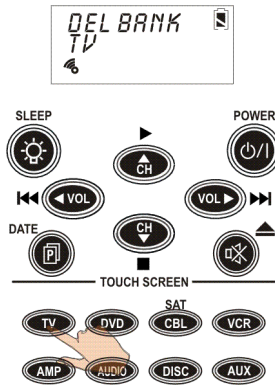


Soft Key Page1

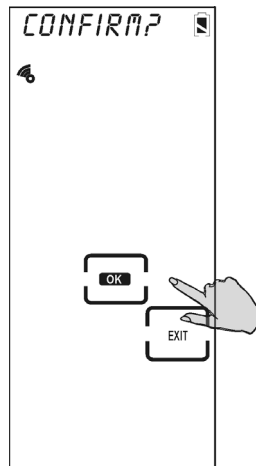
Erasing Device Codes

Follow these instructions to delete a device code from the SRC-3810.

1. Press ▲ or ▼ to select *DEL BANK*.
2. Press OK.
3. Select the device whose codes you want to delete (for example TV).
Press **PI** to scroll between device pages.



4. Press **OK** to delete the device codes. You are prompted to confirm the deletion.
5. Press **OK** to confirm the deletion or EXIT to cancel.



Debugging Device Codes

Use this procedure if the SRC-3810 is unable to recognize the infrared signals from another remote control.

Once you have collected unrecognizable codes, you can use the optional SLC-2080 link cable (see *Appendix B - Accessories* on page 48 for more info) to upload the unrecognized codes to your personal computer and then email them to Sunwave for analysis. Sunwave can then update the system firmware and send you an updated version that will recognize the codes.

Sunwave's service email address is:

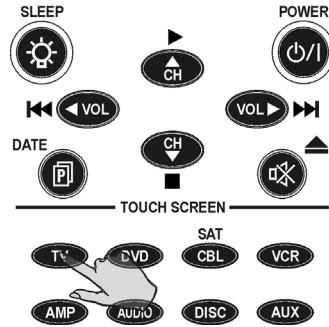
support@sun-wave.com

All unrecognized codes should be sent to this address.

Note: *Every time you enter DEBUG mode, the SRC-3810 replaces previously stored unrecognized codes with new ones. If you have more than one remote that is not programmable, upload the first remote's unrecognized codes and then gather the second remote's unrecognized codes.*

Set up the LCD display before using this function. See *LCD Layout* on page 24.

1. Press ▲ or ▼ to select *DEBUG*.
2. Press **OK**.
3. Point the target device's remote control at the SRC-3810 learning eye located at the bottom of the unit (see Figure 1: Front View).
4. Select a device (for example TV).



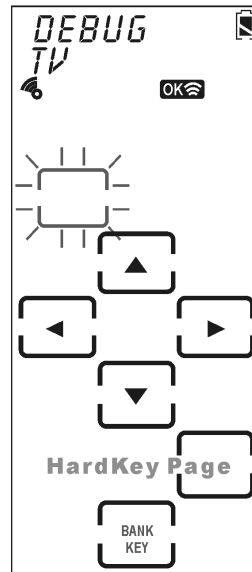
The SRC-3810 Touch Screen sequentially displays screens corresponding to first the hard keys, then page one of the soft keys, and finally page two of the soft keys. The blinking rectangle denotes the key being learned.

5. Press the corresponding button of the target device's remote control.

The SRC-3810 screen displays an **OK** message if the code was successfully learned .

Press **PI** to toggle between hard key and soft key displays.

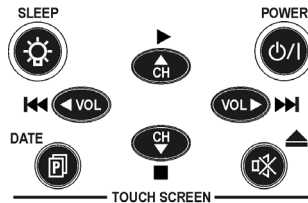
6. Press **⊙** or **⊗** to exit debug mode.



LCD Layout

The layout edit mode enables you to customize the SRC-3810's Touch Screen display to match your existing remote controls.

1. Press ▲ or ▼ to select **LAYOUT**.
2. Press **OK**.
3. Select a device (for example TV).

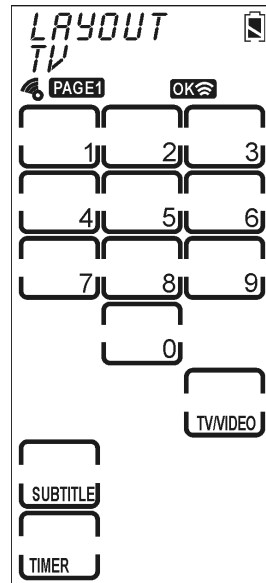


4. On the device pages, select the key you want to customize. Continue pressing the key to scroll through the available choices for the key.

Press **OK** to display available icons for the page of LCD display.

Press **PI** to scroll through the LCD screens for the device.

5. After you have finished customizing the layout, press **OK** to confirm changes, or press **EXIT** to exit without making any changes.



Using Macros

A macro is a series of commands. The Macro feature enables you to initiate a sequence of up to 60 commands with a single button. You can create a macro on any control button and insert time delays into the sequence. Remember, however, assigning a macro eliminates the button's original function.

Note: *You cannot assign a macro to any of the eight Device keys, the page/date key, the backlight/sleep key, and the macro key, or the three channel classification keys.*

Enter the setup menus, scroll to Macro and press OK to enter the macro menu. In the macro menu, press ▲ and ▼ to scroll through the menu options:

- **NEW:** enables you to set up a new macro
- **DELETE:** delete a macro
- **VIEW:** view the macro steps

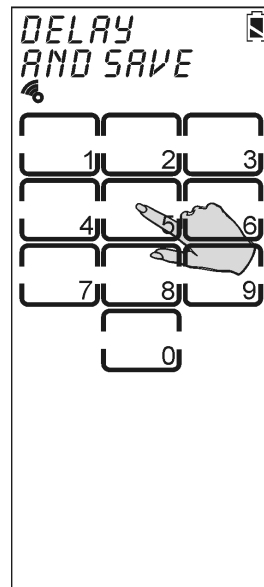
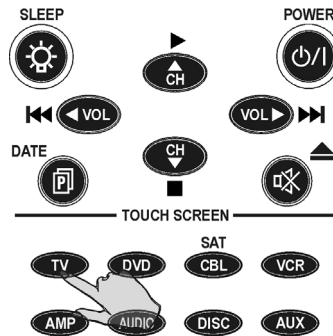
Creating a New Macro

Follow these steps to create a new macro:

1. Press ▲ or ▼ to select *NEW*.
2. Press **OK**.
3. Press the device key you want to use for this macro (for example TV), and then press any key to define as the macro key. You hear three beeps to indicate that macro creation mode has started.

Note: If you select a key that already has a macro stored in it, the new macro will replace the old macro.

4. Press the key or button sequence that you want to record.
5. Press **⊙**. You enter the Delay and Save screen. Do one of the following:
 - Enter the number of seconds you want to delay between each command. For example, if you want a six second delay between turning on your TV and then turning on your VCR, press '6'.
 - Press **⊙** to save the macro and exit macro creation mode.



The following example will help you to better understand creating a macro sequence. It is provided to teach you how to record a macro but is by no means the only macro sequence you can create.

Example: the following defines a macro that turns on your TV, switches the TV to DVD viewing mode, turns on the DVD, and plays a DVD.

1. Press the TV device button
2. Press the TV power button
3. Press the TV/Video key
4. Press the DVD device button
5. Press the DVD power button
6. Press © to select the time delay (1-10 sec) for each step.

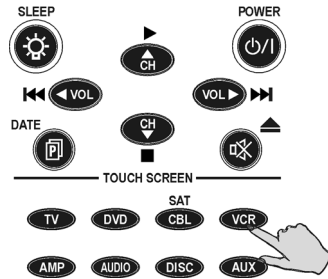
Note: Press '0' on the screen to select 10 seconds.

7. Press the DVD play key.

Deleting a Macro

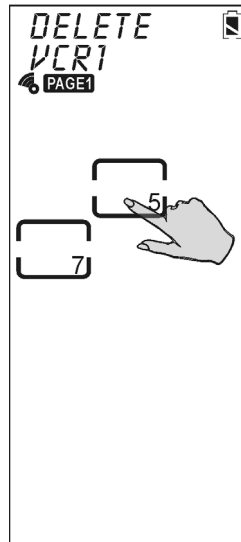
Follow these steps to delete a macro:

1. Press ▲ or ▼ to select *DELETE*.
2. Press **OK**.
3. Press the device key for the macro you want to delete.



The screen displays the macro key for the device.

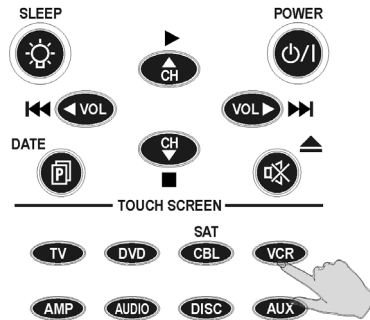
4. Press the macro key you want to delete; the macro key is deleted when the key is pressed.
5. Press **⊙** or **⊗** to exit



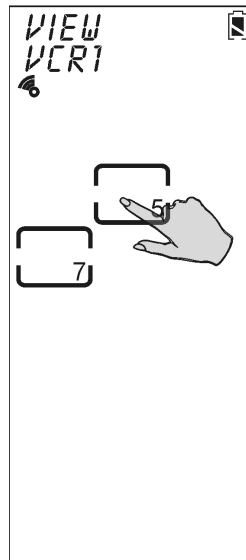
Viewing a Macro

Follow these steps to view the steps of a macro:

1. Press ▲ or ▼ to select *VIEW*.
2. Press **OK**.
3. Press the device key for the macro you want to view.



- The screen displays the macro keys for the device.
4. Press the macro key for the macro you want to view.
The screen displays the macro sequence.
 5. After viewing the macro, press **⊗** to exit this menu.



Setting Channels

The SRC-3810 enables you to classify channels into groups making it easier to locate all the programs on every device.

Enter the setup menus, scroll to Channel and press **OK** to enter the channel menu. In the channel menu, press **▲** and **▼** to scroll through the menu options:

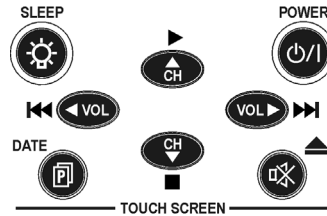
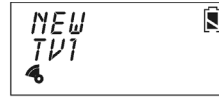
- **NEW:** enables you to set a channel classification
- **DELETE:** enables you to delete a channel classification
- **RELABEL:** enables you to rename a classification label

Note: The SRC-3810 has three sets of channel classification groups; the total number of channels that can be assigned to all three groups is 50. For example, if 40 channels are included in the "News" category, 8 channels in "Movie", then only 2 channels can be included in the "Kids" category

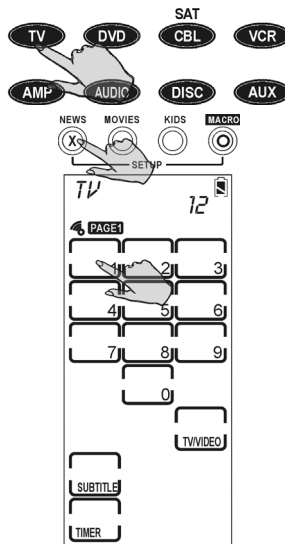
Setting a Channel Classification

Follow these steps to create a new channel classification:

1. Press ▲ or ▼ to select *NEW*.
2. Press **OK**.
3. Press the device key you want to use to set the channel classification (for example TV).



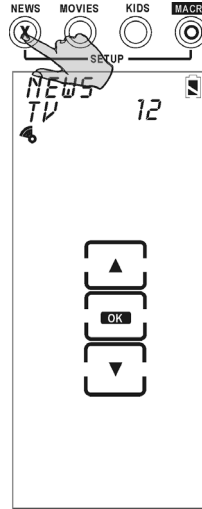
4. Enter the channel number (e.g., 12).
Note: You can only use buttons number 0-9, +10, and Enter to enter the channel.
5. Select the channel classification (e.g., News).
6. Repeat steps 3 ~ 4 to continue adding channels.
7. Press **⊙** to exit to the setup menu.



Deleting a Channel Classification

Follow these steps to delete a channel classification:

1. Press ▲ or ▼ to select *DELETE*.
2. Press **OK**.
3. Press the device key whose channel classification you want to delete (for example TV).
4. Press the channel classification that has the channel you want to delete (e.g., News).
5. Press ▲ or ▼ to locate the channel.
6. Press **OK** to delete the channel.
7. Repeat the previous steps to delete other channels.
8. Press Ⓞ to exit.

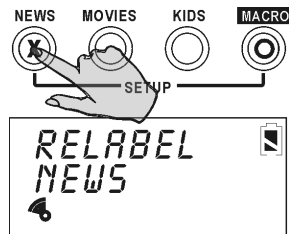


Relabeling a Channel Classification

This option enables you to edit the channel classification label on the LCD.

Follow these steps to edit a channel classification:

1. Press ▲ or ▼ to select *RELABEL*.
2. Press **OK**.
3. Press the channel classification that you want to relabel (e.g., News).

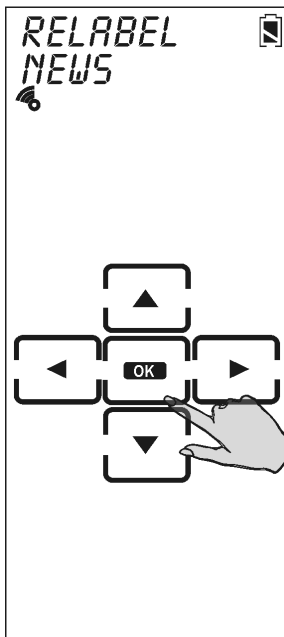


4. Edit the channel classification. The name of the channel classification can be up to 8 alphanumeric characters:

- Press ▲ or ▼ to scroll through the characters (from A-Z, 0-9, and the space key).

Note: Press and hold ▲ or ▼ to quickly scroll through the characters.

- Press ◀ or ▶ to move to the previous or next character. When selected, the character blinks.
- Press **OK** to confirm the entry.
- Press ⊗ to exit to the device menu.



After you have set up the channel classification, press any channel classification (e.g., “NEWS”) to open the channel classification screen. Using the CH+ and CH- to scroll through all channels stored in this channel classification . Press that channel classification (e.g., “NEWS”) again to exit the channel classification screen.

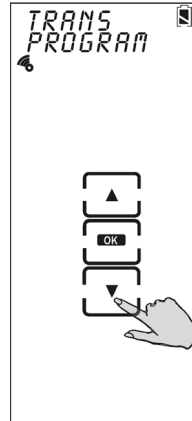
Using the Transmission Feature

The SRC-3810 can transmit data to another SRC-3810 or to a PC with the optional USB-UART cable. You can download firmware upgrades from the Internet or transfer configuration data.

Enter the setup menus, scroll to TRANS and press **OK** to enter the transmission menu.

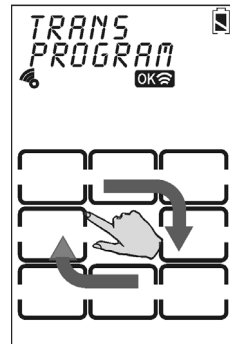
Note: Before you use this feature to transfer data with your PC, you must connect the optional USB-UART cable. Refer to Appendix B for more information.

1. Press ▲ or ▼ to select *TRANS*.
2. Press **OK**.
3. Press ▲ or ▼ to select one of the following options:
 - PROGRAM – transmits MCU Program
 - PRE-CODE – transmits Preprogrammed Code only
 - MEMORY –transmits All Flash Memory Data (Preprogrammed Code included)



4. Press **OK** to begin transmission. During the transmission, the LCD displays blank keys as shown in the illustration.

When the transmission is completed, **OK** is displayed on the LCD. If there is an error in transmitting the data, **ERROR** is displayed.



Miscellaneous Menus

Enter the setup menus, scroll to Other and press **OK** to enter this menu. Press ▲ and ▼ to scroll through the menu options:

- **CLOCK:** enables you to set the date and time
- **POWER:** enables you set the time that will elapse before

the SRC-3810 turns off

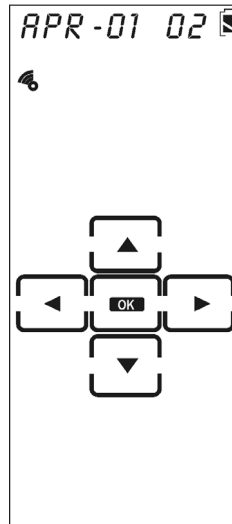
- **BACKLIGHT:** lets you set the time that the backlight remains on
- **BEEP:** turns the key and button beep signal on and off
- **VERSION:** displays the SRC-3810 firmware version

Setting the Date and Time

1. Press ▲ or ▼ to select *CLOCK*.
2. Press **OK**.
3. Enter the date:
 - Press ▲ or ▼ to scroll through the characters:
Month: JAN~DEC
Day: 01~31
Year: 02~50 (2002~2050)

Note: Press and hold ▲ or ▼ to quickly scroll through the characters.

- Press ◀ or ▶ to cycle between the month, day, and year fields. When selected, the characters in the field blink.

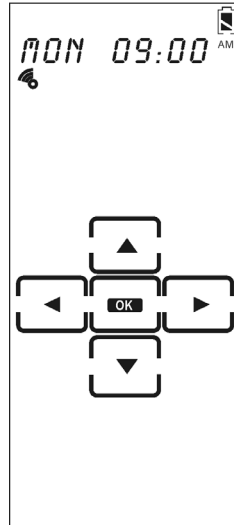


4. Press **OK** to confirm the date. You are prompted to enter the hour and minute.
5. Set the hour and minute:
 - Press ▲ or ▼ to scroll through the characters (from 1~12 hours, 00 ~59 minutes).

Note: Press and hold ▲ or ▼ to quickly scroll through the characters.

- Press ◀ or ▶ to move the cursor to the previous or next character.
- Press **OK** to confirm the time.

Note: The clock is in a 12-hour format.

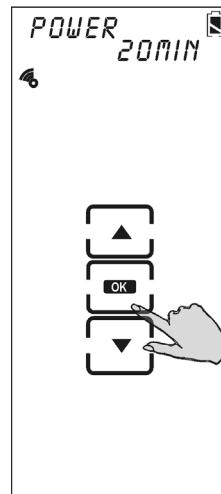


Setting the Power Down Time

1. Press ▲ or ▼ to select *POWER*.
2. Press **OK**.
3. Press ▲ or ▼ to select the time that will elapse before the SRC-3810 turns off.

Note: The power down time can be set from 01 ~ 90 minutes at 1-minute increments.

4. Press **OK** to confirm the setting.




Setting the Backlight On Time

1. Press ▲ or ▼ to select *BACKLIT*.
2. Press **OK**.
3. Press ▲ or ▼ to select the time that the backlight stays on after pressing a key or button.

Note: The backlight ON time can be set from 00 ~ 60 seconds at 1-second increments.

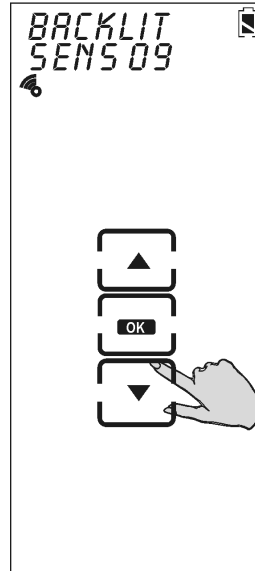
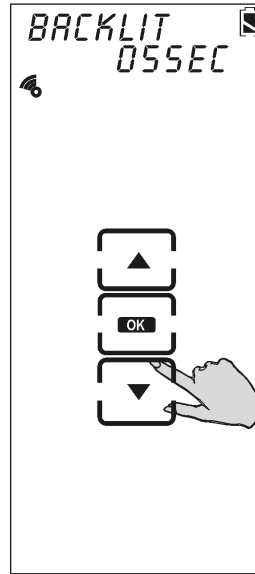
Choose 0 second will disable Backlight function.

4. Press **OK** to confirm the setting.

5. Press ▲ or ▼ to set the light sensor sensitivity manually or press  to automatically detect the ambient light brightness.

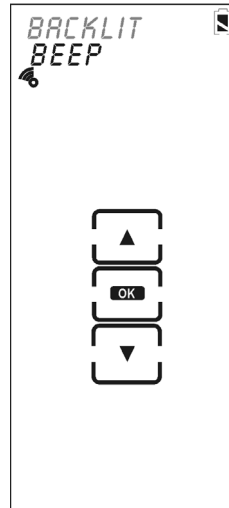
Note: The light sensor levels are 0 ~ 16.

6. Press **OK** to confirm the setting.



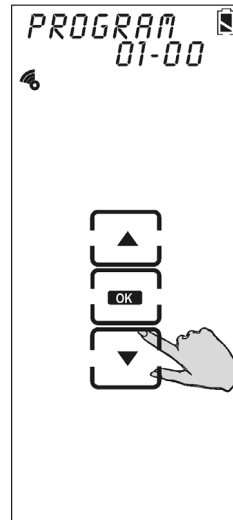
Setting the Beep Signal

1. Press ▲ or ▼ to select *BEEP*.
2. Press **OK** to toggle the beep on and off. When on, 📡 appears in the LCD screen.
3. Press ⊗ to exit.



Checking the Version Number

1. Press ▲ or ▼ to select *VERSION*.
2. Press **OK**.
3. Press ▲ or ▼ to view the *PROGRAM* and *PRE-PROGRAMMED* (pre-code) version numbers.
4. Press ⊗ to exit.

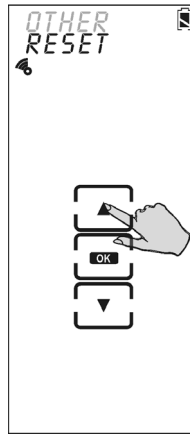


Resetting the SRC-3810 to Factory Defaults

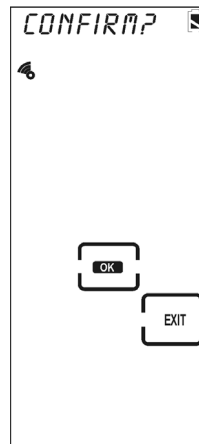
This item enables you to set the SRC-3810 back to the factory default configuration.

Note: All macros and user-defined keys are erased when resetting the SRC-3810 to factory defaults.

1. Press ▲ or ▼ to select *RESET*.
2. Press **OK**.



3. You are prompted to confirm the reset.
4. Press **OK** to confirm the reset or press ⊗ to exit.



Chapter 4 - Controlling Devices

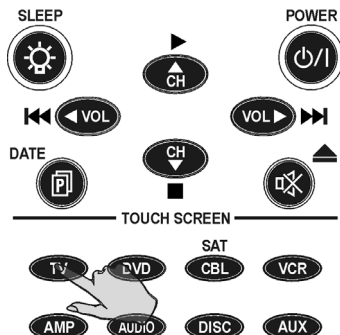
The SRC-3810 is designed to be simple and straightforward to operate. This chapter explains how to use the SRC-3810 to control all your devices.

Note: *This Chapter assumes you have already setup the SRC-3810 and assigned Infrared codes to different buttons. See Chapter 3 - Setting Up the SRC-3810 on page 10 for more information on assigning codes.*

Selecting a Device to Control


Press one of the eight device buttons to pick the device. Press the same device button again to cycle through different devices in that bank.

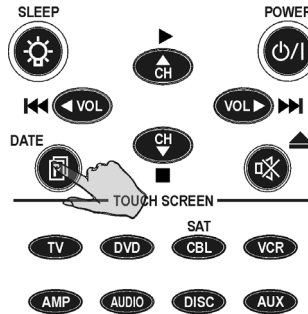
Note: The maximum number of devices you can assign to the 8 device keys of the SRC-3810 is 16.



For example, if there are 8 devices in "TV", 2 in "DVD", 2 in "CBL", 1 in "VCR", 1 in "AMP", 1 in "Audio", and 1 in "Disc", then no device can be included in "Aux".

Alternating Touch Screen Pages

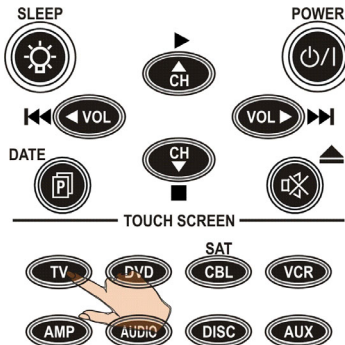
Press the  Page Button to alternate between page 1 and page 2 of the device buttons.



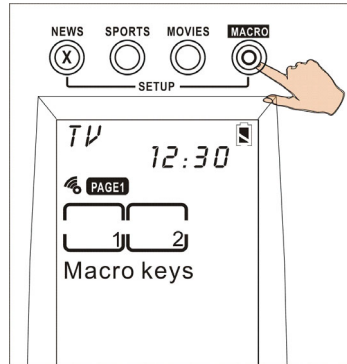
Viewing the Macro Key

You can view which keys are assigned to macros for any particular device. Follow these instructions:

1. Press the device button.




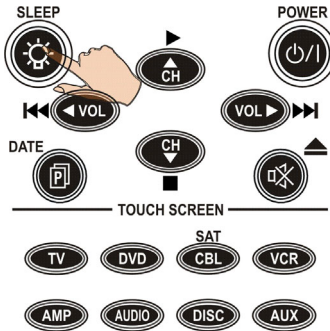
2. Press the macro button.
The assigned macro keys are displayed for the device.



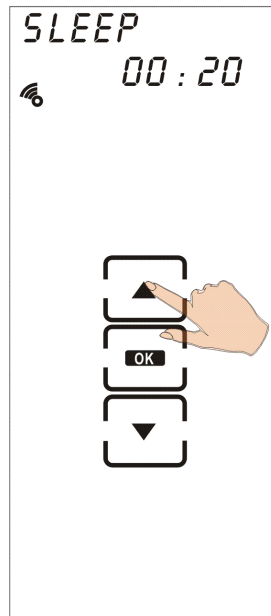
Using Macro Sleep Mode

Macro Sleep Mode enables you to initiate a Macro at a user-defined time by setting a specific time delay less than 24 hours.



1. Press and hold SLEEP  for three seconds to enter sleep mode.

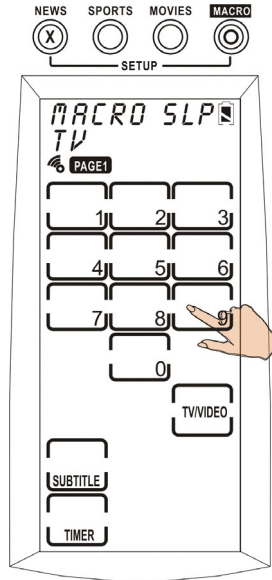


2. Press ▲ or ▼ to increase or decrease the time in 10-minute increments. The maximum time span allowed for the sleep timer is 24 hours.
3. Press **OK** to confirm.



4. Enter the key commands you want the sleep timer to initiate. Refer to *Using Macros* on page 25 for more information on creating macros.

5. Press  to confirm the key settings, or press  to exit without creating a macro.



After creating the macro in sleep mode, the sleep mode and device display is cycled.



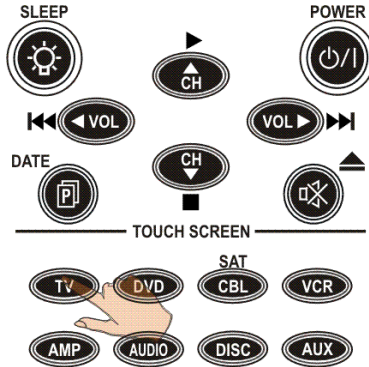
To Delete a Sleep Mode Setup

1. Press and hold SLEEP  for three seconds to enter sleep mode.
2. Press  to remove the sleep macro setup.

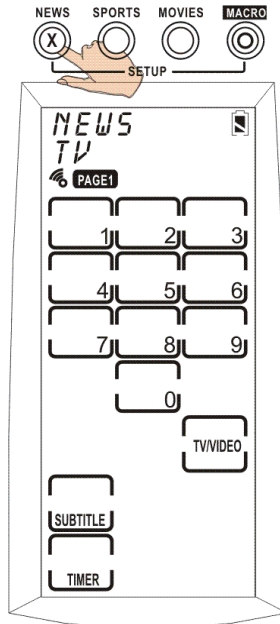
Using the Channel Classification Buttons

For information on setting up the channel classification buttons, refer to *Setting Channels* on page 30.

1. Press the device button that corresponds to the channel classification you want to use (for example, TV).



2. Press the channel classification button. The selected classification is displayed with the device.
3. Press **CH** or **CH** to scroll through the channels you assigned to this classification (refer to *Setting Channels* on page 30).
4. Press the channel classification button again or press any DEVICE key to return to normal operating mode.



Controlling Devices

1. Make sure the SRC-3810 is pointing at the target device.
2. Press the hardware button or Touch Screen key you want to send.

Note: ***The Record Key Must Be Held Down for 2 Seconds:*** As a safety feature, the record button needs to be pressed for 2 seconds. This is to prevent accidentally pressing the VCR record button and overwriting a tape.

Using the AUX Key

The control buttons on the AUX device screen can easily be made identical to the control buttons on any other device screen. You can use it to operate a TV, VCR, or other device. For more information refer to *Creating a New Device* on page 11.

Appendix A - Specifications

Model	SRC-3810
Dimensions (WxHxD):	2.3 x 8.2 x 0.9 inches (6.0 x 20.9 x 2.6 cm)
Weight (with Batteries):	7.0 oz (195g)
Weight (without Batteries):	5.3 oz (150g)
Number of Device:	16 devices
LCD Screen (WxH):	1.5 x 3.5 inches (3.9 x 9.0 cm)
Soft Button:	2 pages/21 keys (42 keys total)
Hard Buttons:	7 usable
Backlighting:	Blue LED (LCD)
Learning Frequency:	10 kHz – 125 kHz, 455 kHz & Pulse
Memory:	256 KB flash memory
Batteries:	4 AAA Alkaline Batteries
Power Consumption:	LCD Off: 50 μ A LCD On: 450 μ A Operation: 150 mA (Max)
Battery Life:	Approx. 3 - 6 months
Operating Distance:	Approx. 30 feet
PC Interface (option):	USB (SLC-2080)

Appendix B - Accessories

SLC-2080



The SLC-2080 is an optional link cable that enables transmission of system setup to a personal computer or another SRC-3810. The following information can be transferred using the *TRANS* selection in the setup menus:

- PROGRAM – MCU Program
- PRE-CODE – Preprogrammed Code only
- MEMORY – All Flash Memory Data (Preprogrammed Code included)

Please refer to the SLC-2080 manual for instructions on using the cable.

Appendix C – Troubleshooting

Troubleshooting Tables

Problem	Solution
LCD does not show anything when you touch it or press the hardware buttons.	Batteries may be dead. Replace the batteries with 4 new AAA Alkaline Batteries (page 4). Check that the batteries are properly installed.
The SRC-3810 doesn't operate a device.	Make sure that the desired device screen on the SRC-3810 LCD panel has been selected. Move closer to the device. The maximum operating distance is approximately 30 feet. Ensure that you are aiming the SRC-3810 directly at the device and that there are no obstructions between the SRC-3810 and the device. Ensure programming with the learning function (page 18) or using the manufacturer codes (page 16) has been properly done. Re-teach the button.
You cannot operate a device even after teaching the device using the learning function.	Make sure that your SRC 3810 has correctly "learned" device's remote control code. (page 19). Delete the device data from the SRC-3810 and carry out the learning function again (page 18). Make sure you did not program more than one remote for a given device.

Problem	Solution
<p>You see "ERROR" display on the LCD during the learning procedure.</p>	<p>Make sure you hold the other remote's button down for about 2 seconds.</p> <p>Make sure you did not program more than one remote for a given device.</p> <p>Make sure the two remotes are not too close or too far apart and are aiming directly at each other - keep apart between 2~4 inches (5~10cm).</p>
<p>You see "ERROR" display during operation.</p>	<p>The button that you pressed has not been taught.</p> <p>Learn the button using the learning procedure (page 18).</p>
<p>Your VCR will not record.</p>	<p>As a safety feature on SRC-3810, you must press the REC key for 2 seconds.</p>
<p>Problems changing channels.</p>	<p>If your original remote requires the <i>ENTER</i> key to be pressed after a channel is selected, press the <i>ENTER</i> key to select the channel.</p>
<p>Macro does not work.</p>	<p>Be sure to aim the SRC-3810 at the devices while the macro commands are being sent.</p> <p>Macro was not properly set up. Repeat macro set-up procedure (page 25).</p>

Problem	Solution
IR LEARNING is not successful.	<p>Replace batteries in the SRC-3810 and the remote you are trying to configure.</p> <p>Keep distance between remotes to about 2~4 inches.</p> <p>Do not learn near an incandescent lamp.</p> <p>Memory capacity is full (48 keys for each of 16 models).</p> <p>The learning process has no errors, but you still can't control your AV devices: repeat the learning procedure again. If you still can't solve the problem, use the debug code feature and email codes to Sunwave (page 22).</p> <p>Original remote might not be compatible with learning procedure.</p>
A button of your existing remote performs two or more functions	<p>Some remotes issue multiple commands when a button is held down. Please be sure to teach different buttons of SRC-3810 for these different commands. Each button of SRC-3810 can only learn one command.</p>
The LCD screen turns off.	<p>The SRC-3810 is preset automatically to switch the LCD off after the Power Down time. Just tap the POWER button or SLEEP button to turn the SRC-3810 back on again. You can also reset the Power Down time period (page 36).</p>