

THE SURFBOARD

**Universal Remote Control
With Voice Operation**

USER'S GUIDE



Makes channel surfing as easy as a day at the beach

FEATURES

- ◆ Simple and easy to use
- ◆ Elegant stand-up design with simple keypad layout
- ◆ Hands-free voice operation or push-button control
- ◆ Controls Televisions, Cable and Satellite Boxes, and more
- ◆ Friendly voice prompts and built-in “Help” system talk you through set-up & operation. Nothing could be easier!
- ◆ Recognizes your voice commands right out-of-the-box or train it to recognize your personal commands.
- ◆ Optimized for the most popular channel surfing functions
- ◆ Remembers your favorite channels
- ◆ Comprehensive code library
- ◆ “Learns” new codes from existing remote control
- ◆ Retains set-up even without the batteries

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Congratulations on your selection of **SurfBoard**, the world's easiest-to-use universal remote control. The **SurfBoard** will operate your TV and Cable or Satellite box without the usual complications of typical universal remote controls. With its advanced voice recognition the **SurfBoard** can even operate "hands-free" using just your spoken commands.

Before setting up and using **SurfBoard** we suggest you take a few minutes to acquaint yourself with its unique design.

The most commonly used buttons are located on the front of the **SurfBoard**. Less-frequently used buttons are located on the bottom of the remote, reducing button clutter and helping you to avoid pressing the wrong button.

The easy-to-use **SurfBoard** design uses its own intelligence to eliminate the usual annoying "source selection" buttons found on typical universal remote controls.

You will notice a few buttons not found on the usual remote control. These buttons include the unique **Surfboard** "Help," "Sound," and "Listen" buttons.

The "Help" button guides you through remote control setup, making setup exceptionally easy.

The "Sound" button turns on and off **SurfBoards'** unique voice response, which tells you what button you have just pressed. This unique voice response system makes learning to use your remote control far more easy than conventional remote controls, even if you have difficulty seeing the buttons.

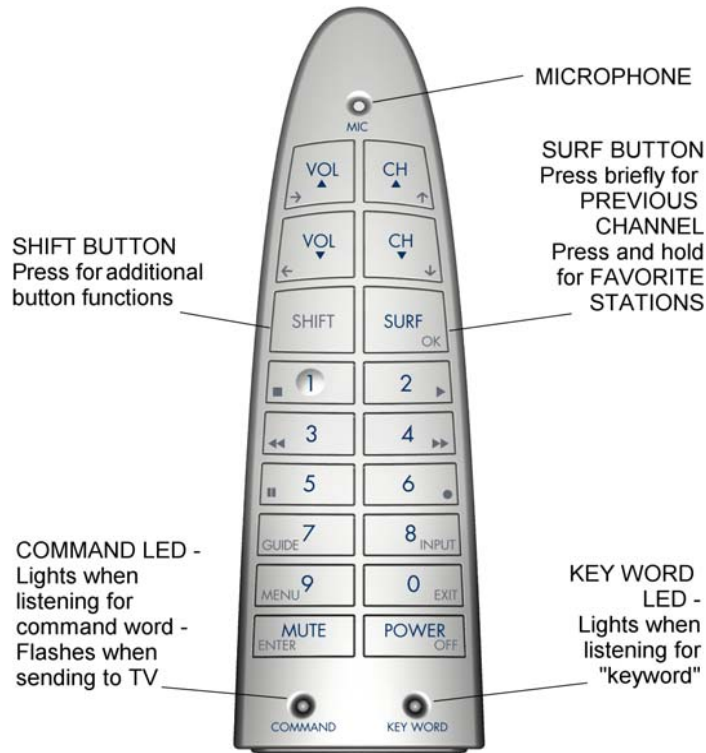
The "Listen" button turns "Hands-Free" voice operation on and off.

Regardless of how you intend to use **SurfBoard**, you can be channel surfing with just a few simple steps.

Following are the conventions used in this guide

Button	A SurfBoard button
Button1 → Button2	Press and release button 1, then press button 2
<i>Word</i>	Prompts and words spoken by SurfBoard are in light italics
Word	Your spoken instructions are in dark italics

Button Description (Front)



Microphone Internal microphone used for voice operation.

POWER Used to turn your TV on and off.

0 - 9 Numeric selection keys

VOL ▲ **VOL ▼** Volume up/down

CHAN ▲ **CHAN ▼** Channel up/down.

SURF Briefly pressing this button switches to the previous channel. Hold the button down for 2 seconds to switch to your programmed favorite stations.

SHIFT Allows buttons to perform the functions (shown in grey on the keys) as well as additional operations. See page 17.

MUTE / ENTER Mutes the TV and is also used as an Enter key when needed.

Button Description (Bottom)



HELP Used to guide you through the setup process or help you program specific functions

LISTEN Tells the **SurfBoard** to listen for voice instructions. See pages 11 and 4. Pressing **LISTEN** when **SurfBoard** is already listening will turn off voice operation (tell it to stop listening).

SOUND Turns **SurfBoard's** voice response on and off. When on, each time you press a button, **SurfBoard** will respond with the button name, then perform the indicated function. When voice response is off, **SurfBoard** will operate silently.

TRAIN Used for training voice instructions. See page 14.

PROG Used by "Advanced Users" for setting up **SurfBoard**. See page 23.

Setting Up Your Surfboard Remote

Insert Batteries



Insert four AAA batteries into the battery compartment as shown.

After you insert the batteries, the SurfBoard remote will greet you with a friendly "Hello" to tell you that it's functioning.

Note: Alkaline batteries recommended.

Set Up the Surfboard Remote for your TV

The first thing you will usually wish to do is set up the **SurfBoard** to work with your TV.

Step 1: Press **HELP** and listen to the choices:

For help programming your TV press 1

For help programming your cable or satellite box press 2

For help learning from an other remote press 3

For help with voice commands press 4

For help setting your favorite channels press 5

For help with other features press 6

Step 2: Press **1**. The **SurfBoard** will respond with the following options:

To search for your TV press 1

To program a TV from the device list press 2

Helpful Hint

The unique **SurfBoard** **HELP** button allows you to program the remote without having to go through the complicated programming procedures of other universal remote controls. Just press the **HELP** button located on the button of the remote. **SurfBoard** will then give you helpful choices. If at any point you want to hear the choices again just press **HELP**. A complete list of all of the prompts available in the help system is listed at the end of this manual.

Step 3: Press **1**. The **SurfBoard** will respond with:

Please turn your TV on.

When it turns off, press POWER.

To search for your TV by brand, enter the 2 digit brand code from the table on page 9. For example if you have a Sony TV, type in **5 9**. If your brand is not listed, press **MUTE/ENTER** to search through all TVs.

Hint: Searching by brand code for your type of TV will reduce the time it takes to find your particular TV. If your brand is not listed, just search through all TVs.

The **SurfBoard** will say, "searching for TVs." If sound is turned on it will say the 3 digit device code for each TV code it tries before sending out the power code. After each code is sent, it will wait 4 seconds for you to respond before trying the next code.

Step 3: When your TV turns off, press any front button except **SHIFT** to save the code. *Make sure you check all the buttons on the SurfBoard remote to make sure they work. If they don't, repeat steps 1-3. The SurfBoard will resume searching from the next code.*

Setup the SurfBoard Remote for your Cable or Satellite Box

Using the same method you used to set up your TV, you can set up the **SurfBoard** Remote to control your cable or satellite box. The sequence for setting up your cable or satellite box by searching just your brand of cable or satellite box is

HELP → **2** → **1** → **MUTE/ENTER**

The sequence for searching through all cable and satellite receivers is

HELP → **2** → **MUTE/ENTER**

Like any universal remote control, you can enter a code from the TV device list.* However, the simplest way to set up the remote for your TV is to have the **SurfBoard** do the search.

* The device code list is provided as a separate document.

Brand Codes for TVs

BRAND	CODE	BRAND	CODE
Admiral	00	Mitsubishi	34
Aiwa	01	Montgomery Ward	35
Akai	02	Motorola	36
Anam	03	MTC	37
AOC	04	NAD	38
Carver	05	NEC	39
Brooksonic	06	Nikko	40
Candle	07	Optimus	41
Citizen	08	Orion	42
Craig	09	Panasonic	43
Curtis Mathis	10	Philco	44
Daewoo	11	Philips	45
Daytron	12	Pioneer	46
Dwin	13	Proscan	47
Electrohome	14	Quasar	48
Emerson	15	Radio Shack	49
Fisher	16	RCA	50
Funai	17	Realistic	51
GE	18	Runco	52
Goldstar	19	Sansui	53
Hitachi	20	Samsung	54
JVC	21	Sanyo	55
Kenwood	22	Scott	56
Kloss	23	Sears	57
Konka	24	Sharp	58
KTV	25	Sony	59
Luxman	26	Sylvania	60
LXI	27	Symphonic	61
Magnasonic	28	Tandy	62
Magnavox	29	Technics	63
Marantz	30	Teknika	64
Megatron	31	Toshiba	65
Memorex	32	Yamaha	66
MGA	33	Zenith	67

Brand Codes for Cable Boxes

BRAND	CODE	BRAND	CODE
ABC	68	Magnavox	77
Archer	69	Motorola	78
Comcast	70	Panasonic	79
COX	71	Philips	80
Emerson	72	Pioneer	81
GE	73	Scientific Atlanta	82
Gemini	74	Sony	83
General Instrument	75	Time Warner	84
Jerrold	76	Universal	85

Brand Codes for Satellite Boxes

BRAND	CODE	BRAND	CODE
Digital Entertainment	86	Magnavox	93
Directv	87	Pegasus	94
Dish	88	Philips	95
DishNet	89	Primestar	96
Echostar	90	RCA	97
General Instrument	91	Samsung	98
Hughes	92	Sony	99

If you do not see the manufacturer of your TV listed, you may use the “search through all TVs” selection or refer to the separate “Device Code” document. You may also “learn” the codes from your existing remote control (see page 15).

To simplify your channel surfing, the **SurfBoard** Remote will automatically send the channel selection commands to the cable or satellite box and the volume and power commands to your television.

Button Functions When Cable/Satellite Box is Set Up

Button	Sent to	Notes
0 - 9	Cbl/Sat	
ENTER	Cbl/Sat	When pressed within 3 seconds of number
CHAN ▼ CHAN ▲	Cbl/Sat	
SURF	Cbl/Sat	Previous channel. Press & hold for favorite channels
VOL ▲ VOL ▼	TV	
MUTE	TV	
POWER	TV	can be set for cable box

Using Voice Instructions

Unlike conventional remote controls, **SurfBoard** may be used “hands-free” to control your TV and, Cable or Satellite box **without lifting a finger!**

SurfBoard comes factory pre-trained with some common voice commands that you can use right out of the box.

To activate these voice commands, press the **LISTEN** button located on the bottom of the remote. If voice prompting is enabled, **SurfBoard** will say “Listen On.” The blue light will illuminate indicating that it is listening for the “keyword.” The **SurfBoard** remote will remain in the listening mode (and the KEYWORD LED will remain lit) for 10 minutes after you press **LISTEN**. Each time you issue a voice command the listen timer will start again. You can change the listen time (see page 22).

Keywords: *If you saw the classic movie 2001, you might remember the computer HAL would only respond to instructions preceded by the word, 'HAL.' Similarly, in the Star Trek series, verbal instructions such as 'Lights On' to the ship's computer would only be recognized if preceded by "Computer." Your remote responds in a similar fashion. by responding to the keyword. This greatly increases the accuracy*

and prevents the **SurfBoard** from responding to normal conversation.

The default **SurfBoard** keyword is “**Surfboard.**” You can change this if you like. See page 15.



Your **SurfBoard** remote will respond to hearing the keyword “**Surfboard**”, with a bleep if sounds are enabled. The green COMMAND LED will turn on for 3 seconds while it waits to hear one of the following preprogrammed command words:


- ◆ POWER
- ◆ CHANNEL UP
- ◆ CHANNEL DOWN
- ◆ PREVIOUS
- ◆ FAVORITE

If the **SurfBoard** does not hear one of these commands within 3 seconds, it will go back to listening for the keyword “**Surfboard.**”

Did you notice that when you said the keyword, that your TV went silent? This is a feature called *Automute* (patent pending). The **SurfBoard** muted your TV briefly to quiet the room noise so that it can better understand the voice command that you say after the keyword. It will turn the sound back on in 3 seconds or as soon as it hears a voice command. You can turn off Automute if you like as described on page 23.

Try using voice commands a few times. Always allow a brief pause before saying the keyword or the voice command. Either listen for the bleep, or watch the lights to see when to say the keyword (blue light) or the command word (green light). With a little practice and if the room is not too noisy, you should be able to do useful things to your TV without ever touching the remote.

 **Helpful Hint** 
 Make sure you wait until after you hear the beep and the green COMMAND LED turns green before you speak. Otherwise, the **SurfBoard** remote will not be ready for your voice command.

 **You must say the keyword each time you issue a voice command for the SurfBoard remote to recognize it. For example, “Surfboard” (Wait for green light) “Channel Up” or “Surfboard” (wait for green light) “Previous.”**

Favorite Channels

The **SurfBoard** remote comes from the factory preprogrammed to a series of favorite channels, 2, 10, 20, 30, 40 and 50. Each time you press and hold **SURF** or say the “favorite” voice command, the **SurfBoard** remote will set your TV or cable/satellite box to the next favorite channel.

You will probably want to change the factory favorite channels to suit your viewing habits. This can be done through the help system by pressing **HELP** → **5**. The **SurfBoard** remote will prompt you to enter each of your favorite channels separated by **MUTE/ENTER**. After entering your favorite channels press **POWER**. This will save your new favorite channels. If you press an incorrect button, just press **CHAN** ▼ or **VOL** ▼ to backspace.

For example to set up channels 4 and 82 as favorite channels, press:

HELP → **5** → **4** → **MUTE/ENTER** →
8 → **2** → **MUTE/ENTER** → **POWER**

The **SurfBoard** has a limited amount of space for storing favorite channels, depending on the number of digits required for each channel and whether you need to use Enter buttons. You can typically save from 5 to 10 favorite channels.

*HINT: If your favorite channels do not work properly or if you don't need to press ENTER when changing channels, you should try again but this time press the **CHAN** ▲ button instead of ENTER to separate your favorite channels.*

Training Your Own Voice Instructions

To make maximum use of the powerful voice command capabilities of the **SurfBoard** remote, you can customize your voice commands to automatically perform your most common operations. For example you can easily program a voice command for “HBO” and have the **SurfBoard** set the TV or cable/satellite box to the proper channel. If you frequently watch one of 2 or 3 movie channels you can set up one voice command so that each time you say the word “movies” the **SurfBoard** remote will take you to each movie channel in succession. Similarly you can set up another voice command for “baseball” to take you between 2 baseball channels you frequently watch.

You can train the **SurfBoard** remote to recognize your special voice commands using the HELP system. You can also save time by using the **TRAIN** button.

Using either method, the **SurfBoard** remote will prompt you to say a voice command. **Whenever you train a new voice command, be sure the room is quiet and free of extraneous noises.** The remote will hear these noises and think they are a part of the desired voice command. When the green light comes on, say the word you want to program. For example, “HBO”. The **SurfBoard** will always ask you to repeat the voice command at least once. This is because there might have been a background noise that you didn't notice such as a door closing, or a car horn. **The SurfBoard remote must hear a similar sounding command two times in a row or it will ask you to repeat the command again.**

Speak in a natural tone the same way you are likely to say the command when using the remote. For best results the remote should be trained in the same physical location where it will be used. The **SurfBoard** will perform best at approximate arms length distance from your mouth. The **SurfBoard** will compare the new voice command to its database of voice commands to be sure it is not too similar to other commands you may have already programmed.

Once this is done, the remote will ask you to press the sequence of buttons that the remote will play out when it hears HBO. If HBO is on channel 82, press **[8]** and **[2]**. If you need the ENTER button to complete channel changes, you must press **[MUTE/ENTER]** as well. When you are done press **[TRAIN]** to save the new voice command.

You can program voice commands to do things like raise and lower the volume, turn the TV on and off, etc. However going to a particular channel will probably be the most common type of voice command.

*HINT: If you want to program 2 or 3 channels onto a single voice command, press the **[LISTEN]** button to separate the channels. The **SurfBoard** will say segment when you program a multi-channel voice command.*

Important: You can program up to 12 voice commands. Once you program a user voice command, the 5 factory voice commands are disabled.

Custom Keywords

You can replace the out-of-box keyword “**Surfboard**” with a keyword of your own. This will make it work better for you, but it might not work as well for others unless their voice has some similar characteristics to yours. Once you program your own keyword, it will replace the factory keyword until you erase it. To avoid a lot of false positive responses to the keyword, you should choose a word that is easy to remember and has at least 2 syllables. More complex words like “abracadabra” will work better than simple words like “Sam.”

Learning New Codes

While the library of devices in the **SurfBoard** remote is extensive, it is not possible to support every new television, cable and satellite box because new devices enter the market all the time. It is also

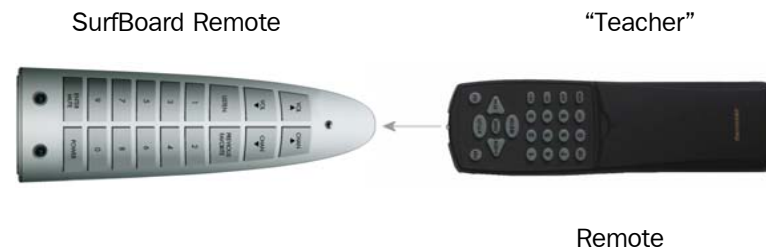
possible that your device may exist in the library but there is some feature or button that is not included that you would like to add.

The **SurfBoard** remote contains an advanced IR “learner” that allows you to add to existing codes or completely program a new set of buttons. When you “learn” a button, it replaces the library code that was sent for that button.

To enter the learning set up, press **[HELP]** → **[3]** → **[1]** and follow the **SurfBoard** remote’s spoken directions.

If you are learning your own cable box codes, you will probably wish to place the new buttons you learn onto the equivalent keys (numbers onto the number buttons and the channel up and down functions on the **[CHAN▼]** and **[CHAN▲]** buttons. But if you want to have a feature for which there is no button, you can either replace an existing button or place these additional codes onto “shifted” buttons (see below).

When you are prompted to line of the two remote controls, place the two remote controls about 2 to 4 inches apart as shown.



The front of the "teacher" (original) remote control should face the front of the **SurfBoard** remote.

The **SurfBoard**'s intelligent learning system will talk you through each step of the learning process.

After learning buttons, test the **SurfBoard** on your entertainment equipment to be sure the button was successfully learned. If not try it again.

Additional Buttons

To add to the power of the **SurfBoard** remote, each button can provide an additional function through the use of the **SHIFT** button.

These buttons may have codes from the library but they can also be used for additional learned buttons. To access the shifted buttons, briefly press the **SHIFT** button and then press the desired front button. You may also press and hold the **SHIFT** button for two seconds to lock in the shifted buttons (Shift Lock). Pressing **SHIFT** a second time will release the Shift Lock.

NOTE: When you program a new device from the built-in library, you will lose all your learned buttons.

Now you should be able to enjoy watching TV the way it was meant to be. Once you comfortable with the basic operation of the **SurfBoard** visit our website (www.surfboardremote.com) to learn additional secrets that will make using the remote even more enjoyable.

SHIFTED AND UNSHIFTED BUTTONS

Normal	Shifted	Normal	Shifted
CHAN ▲	▲	VOL ▼	◀
CHAN ▼	▼	VOL ▲	▶
SHIFT	unshift	PREVIOUS	OK
1	■	2	▶
3	⏮	4	⏭
5	⏸	6	REC
7	GUIDE	8	INPUT
9	MENU	0	EXIT
MUTE	ENTER	POWER	STAND-BY

For example, if you use the “Guide” or “Menu” functions on your cable or satellite box, you can perform Shift Lock and use the **VOL ▲**, **VOL ▼**, **CHAN ▼** and **CHAN ▲** buttons to navigate through the menu.

As another example, if you wanted to learn codes from a DVD player, or the Video-On-Demand (VOD) functions from a cable box, you can learn them on the shifted buttons and not give up any main buttons.

Frequently Asked Questions

How long does the SurfBoard listen?

The factory listen time is 10 minutes. Every time the **SurfBoard** hears a keyword and a command word it understands you will get another 10 minutes. You can adjust the listen time through the help system to listen for 1 hour, 4 hours or forever as well as 10 minutes. However longer listen time will effect battery life. You can also activate the sound detector. When activated, the **SurfBoard** will listen for 2 sharp noises in quick succession after it has stopped listening and begin listening again.

How many user trained voice commands can I program?

You can program up to 12 voice commands and 1 keyword of your own. Each voice command can be programmed to send out whatever button sequence you want including a sequence of favorite channels.

How do I use the favorite channel button?

Press and hold **SURF** to send your next favorite channel.

The factory favorite channels are not what I want. How do I program my own sequence of favorite channels?

The **SurfBoard** come factory set for channels, 2, 10, 20, 30, 40, and 50. You can set up your own sequence by using the help system. Press HELP → 3. Then listen to the prompts and enter your own favorite.

How can I get my own voice command to use the SURF button favorite channels?

After you train your “favorite” voice command and are prompted to press a button, Press **SHIFT** → **SURF**

How does the **MUTE/ENTER** button work?

If you press the **MUTE/ENTER** button within 3 seconds of any number button it will send out an ENTER command. Otherwise it send a MUTE. Note: **SHIFT** → **MUTE** also sends ENTER.

I accidentally programmed a cable box.

Once you have a cable or satellite box programmed, it will assume the channel changing functions like the numbers, and channel up and down. To Unprogram the cable box without resetting all your other settings, press and hold PROG until the **SurfBoard** says “program.” Enter **0 0 0**. **SurfBoard** will say “Cable or Satellite erased”

I want to control power on my cable box.

A few holdouts still plug their TV’s power cord into the back of their cable box. You can tell the **SurfBoard** to switch the cable box on and off rather than the TV as follows.

Press and Hold **PROG**.

Press **7**

Press **PROG**

SurfBoard says “Power Cable”.

The TV is muting frequently even though I am not saying the keyword.

If you’ve programmed your own keyword, it may not have enough complexity to filter “false positive” responses. Try a word like that is easy to remember but is not commonly heard like “abracadabra”. You can also decrease the microphone sensitivity through the help system (Help, 6, 1) and see if that helps.

I don’t like the bleep that sounds when a keyword is programmed.

Talking buttons and the keyword bleep can be turned off by pressing the SOUND button on the bottom of the remote.

Will I lose my settings when I replace my batteries?

All **SurfBoard** settings, user preferences, voice commands and learned buttons are saved in memory. You will not loose your settings when changing batteries.

Help Button Options

Function	Press	Notes
Search for all TVs	[HELP] → [1] → [1] → [MUTE/ENTER]	Press a front button to save
Search for TV by brand	[HELP] → [1] → [1] → [B1] → [B2]	Press a front button to save
Program TV from device list	[HELP] → [1] → [2] → [D1] → [D2] → [D3]	
Search for all Cbl/Sat	[HELP] → [2] → [1] → [MUTE/ENTER]	Press a front button to save
Search for Cbl/Sat by brand	[HELP] → [2] → [1] → [B1] → [B2]	Press a front button to save
Program Cbl/Sat from device list	[HELP] → [2] → [2] → [D1] → [D2] [D3]	
Learn a button from another remote	[HELP] → [3] → [1] → Any learnable button	Press and hold the button on the teaching remote
Erase a learned button	[HELP] → [3] → [2] → Any learned button	
Erase all learned buttons	[HELP] → [3] → [0] → [PROG]	
Enable/Disable Voice recognition	[HELP] → [4] → [LISTEN]	
Program/change a keyword	[HELP] → [4] → [1]	
Erase the keyword	[HELP] → [4] → [2]	
Program a voice command	[HELP] → [4] → [3]	Also [TRAIN]
Erase a trained voice command	[HELP] → [4] → [4]	

Function	Press	Notes
Erase all trained voice commands	[HELP] → [4] → [0] → [PROG]	
Program favorite channels	[HELP] → [5]	Up to 25 presses (5-10 favorite channels)
Increase/Decrease microphone sensitivity	[HELP] → [6] → [1]	
Enable/Disable sound detector	[HELP] → [6] → [2]	Two claps starts listening again
Adjust listen time	[HELP] → [6] → [3] → [3] → [3] → [3]	10 minutes 1 hour 4 hours Forever
Reset remote to factory settings	[HELP] → [6] → [0] → [PROG]	

Pressing the [SURF] (Previous) button while in the help system will take you up one level.

Press the [HELP] button to give additional options and repeat the previous help prompt.

For Advanced Users

The **PROG** button provides additional capabilities for advanced users.

Press and hold **PROG**. The **SurfBoard** remote will respond with "program." Then press

- 0** **PROG** Reports programmed device codes
- 1** **PROG** Search for TV device code
- 2** **PROG** Search for Cable/Satellite device code
- 3** **PROG** Learn a button
- 4** **PROG** Alternately raises and lowers prompt voice volume.
- 5** **PROG** Enable talking macros (see website)
- 6** **PROG** Toggles automute on and off
- 7** **PROG** Enable **POWER** to control cable/satellite box
- 8** **PROG** Adjust macro repeat count
- 9** **PROG** Adjust unmute method
- b1** **b2** **PROG** (Where b1 b2 is brand code)
Initiates brand search
- d1** **d2** **d3** (Where d1 d2 d3 is a device code from the device list chart) Programs a device from the device list.*

* The device list is provided as a separate document and is available online.

For a complete description of advanced user options. please visit our website, www.surfboardremote.com.

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When returning this product pack the unit carefully and (A) Enclose a copy of your sales slip to verify warranty service. (B) Include explanation of defect problem (C) Enclose check or money order for \$10 payable to Innotech Systems inc. (D) Forward prepaid and insured. All products sent after the warranty period or without proof of date of sale will be serviced on an out-of-warranty basis.

This warranty is valid only in the United States, and does not extend to owners of the product subsequent to the original purchaser. In the United States, this warranty gives you specific legal, rights, and your rights may vary from state to state.

*Innotech Systems Inc.
320 Main Street
Port Jefferson, NY 11768
(631) 978-0200*

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**For support and service, visit the SurfBoard
Web site at www.Surfboardremote.com**

**E-mail: support@surfboardremote.com
(631) 978-0200**

Requires 4 AAA batteries

SurfBoard

Remote Control

*This device complies with part 15 of the FCC rules.
Operation is subject to the following two conditions: (1)
This device may not cause harmful interference, and (2)
this device must accept any interference received,
including interference that may cause undesired
operation.*

SurfBoard

Remote Control



*TESTED TO COMPLY WITH
FCC STANDARDS*

FOR HOME OR OFFICE USE