Digital Video User's Guide



THE FUTURE NOW SHOWING



Technology for Your Community

Welcome

THE NEW WAY TO WATCH

Digital TV is different than anything you have seen before. It isn't cable...it's better! Digital TV offers great channels, many features and many choices. Watch what you want – sports, movies, news, cartoons, dramas, comedies – anything you can imagine is there. Watch when you want – with features like Autotune and digital video recording. Watch how you want – high quality digital video and sound. So sit back, relax and enjoy the future!

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1 Remote Control Basics Amino (Black) Remote Control Layout ADB Potenza Remote Control Layout Turn Your Set Top Box or TV On or Off Change Channels Adjust Volume System Buttons	1 2 3 3 3 4
2 How To Use This Book Layout Color-Codes & Icons	5 5 5
3 Infobar Introducing The Infobar Go To The Infobar Infobar Layout Using the Infobar	6 6 7 8
4 Menubar Introducing the Menubar	9 9
Go To the Menubar Understanding the Menubar	9 9
5 Guide Introducing Guide Go To Guide Getting Around Guide Favorites List in Guide HDTV Programming Guide Layout	11 11 11 11 11 11 11 12
6 Guide - Alerts & Recordings Introducing Alerts & Recordings Setting a Reminder, Autotune or Recording Editing a Recording Setting a Series Recording Editing a Series Recording Skipping an Episode Canceling an Autotune, Reminder, Recording, or Series Recording Additional Information on Canceling Events	13 13 15 16 17 18 19

7 Recording	20
Recordings	20
Quick Recording	20
General Guidelines About Recordings	20
Pausing Live TV (PLT)	20
Controlling Live TV	21
DVR Playback Controller	21
Schedule Event	22
Accessing the Schedule Event Screen	22
Configuring the Schedule Event Screen	22
Record By Search	23
8 DVB	24
Introducing DVB	24
Go To DVB	24
The DVR Menu Quick Reference	24
Recordings	24
Recordings: Watching a Recorded Program	25
Recordings: Sorting Recordings	26
Recordings: Locking or Unlocking a Recording	26
Recordings: Deleting a Recording	27
Recordings: Stopping a Program Currently Recording	27
To Record	27
To Record: Sort Future Recordings	27
To Record: Canceling a Euture Scheduled Recording	27
Schedule Priority	28
Schedule Priority: Changing Schedule Priority	28
Schedule Event	28
Schedule Event: Editing a Schedule Event	29
Record History	29
Record History: Reviewing Record History	29
Whole Home DVR	30
Set a Recording	30
Non-DVR Set Top Box Recordings List	30
Watching from Room to Room	31
0 Pay Par View	20
Introducing Day Por View (DD\)	3∠ 30
Go To Pay Per View	30 20
Buying Pay Per View	32 20
	52

 10 My Library Introducing My Library The My Library Menu Go To My Library Introducing PPV Events Go To PPV or Pay Per Block Introducing Reminders Go To Reminders Cancel a Reminder or Autotune Introducing Messages Go To Messages Reading a Message Introducing Caller ID Go To Caller ID Deleting a Caller ID Entry 	34 34 34 35 35 35 35 35 36 36 36 36 37 37
11 Settings Introducing Settings Go To Settings Activating Parental Control Selecting Parental Control Settings Turning Parental Controls On and Off Working With Additional Preferences Working With Settings/Users Adding a User Account Editing a User Account	 38 38 38 38 38 39 40 42 43 45
12 Sign Out / Sign In	47
Sign Out / Sign In	47
Go To Sign Out / Sign In	47
13 Favorites	48
Introducing Favorites	48
Go To Favorites	48
Choosing a Favorites List	48
Creating or Editing a Favorites List	49
Delete a Favorites List	49
14 Search	50
Introducing Search	50
Go To Search	50
Search for a Program	50

15 Stream Management		
Set Top Box	53	
ADB 2500	53	
ADB 3800	54	
ADB 5810	55	
Amino A140	56	
Amino A540	57	
Movie Ratings	58	
MPAA (Motion Picture Association of America) Ratings System	58	
TV Ratings	59	
TV Parental Guidelines Ratings System	59	
Program Ratings	59	
Content Ratings	59	
Entone Set Top Box		

Amino (Black) Remote Control Layout				
TV AV Source Select			STB Power	
Toggles AV source			Turn STB on/off	
TV Power			Record	
Turn TV on/off			Begin recording	
Playback Controls			Function Buttons	
Control playback of			Info SAP	
DVD or DVR			/ Guide 🔵 Exit	
DVR			MENU	
Displays recordings			Display main menu	
OK	MENU		Info	
Enter a choice you	- th	(1)	Display information	
have selected	XÀ		about the current	
Arrow Keys	- ОК		program	
Move the highlight in			X (Exit)	
menu screens	5	4	Exil current menu	
Back	GUIDE		GUIDE Diaplay the guide	
newious channel	05	0		
or menu		+	Change the channel	
VOL Un/Down		CH		
Adjust volume			Move quide listings a	
MUTE		PP	full page up or down	
Toggle audio on/off			Previous Channel Select	
Number Pad		3 def	Displays previous	
Enter a channel			channel	
number or PIN	(4) (5 jkl)	6 mno	TITLES	
TEXT			Toggles subtitles	
Reserved for	pqrs 8 tuv	9 wxyz	on/off	
future use				
		TITLES		

ADB Potenza Remote Control Layout

Device Selection	POWER
Send commands	Turn a selected
to TV, audio, DVD,	TV POWER STB device on or off
auxiliary device or	Playback Controls
set top box	Control playback of
RCU SETUP	DVD or DVR
Setup remote	RECORD
DVR LIST	Begin DVR recording
Display recordings	
MENU	Display the Infobar
Displays Menubar	OK
Arrow Keys	Enter a choice you
Move the highlight in	have made
menu screens	EXIT
GUIDE	Close any screen
Displays Guide	and return to TV
DAY - / DAY +	PG PG + / -
Jumps Guide 12	Jump Guide 1 page
hours ahead or back	up or down
Function Buttons	CH +/-
Reserved for future use	+ Change the channel
VOL + / -	VOL CH VOD
Adjust volume	Reserved for future use
MUTE	NY MEDIA LAST LAST
Turn sound on or off	Return to previous
Number Pad	1 2 abc 3 def
Enter a channel	4 dbi 5 jkl 6 mno Additional Buttons
number or PIN	Reserved for future use
INPUT	7 pqrs 8 tuv 9 wxyz
Change input on device	* DEL _ 0 # ===
PHONE	
Display Caller ID Log	
	INPUT PHONE WWW SAP
	The second

Turn Your Set Top Box or TV On or Off

The device selection buttons tell your remote whether you want to control your set top box or your television.

To turn your TV on or off, press the **TV** button then the **POWER** button.

To turn your set top box on or off, press the **STB** button and then the **POWER** button.

If pressing **POWER** turned the wrong device on or off, press the **POWER** button again, press the appropriate device selection button (**TV**, **AUD**, **DVD**, **AUX** or **STB**) and press **POWER** once more.

Note: It is not necessary to turn your set top box off.

Note: Your remote control must have the remote code programmed in before it can send the correct signals for your TV. If the list of TV brand codes was not included in your installation pack, please contact customer service.

Change Channels

The CH+/- button will change channels up or down one at a time.

The **Number Pad** can be used to directly enter a channel number.

GUIDE will display the Interactive Program Guide so you can find a program you like. If the program is on now, you can tune to the channel showing it. If not, you can set a scheduled event to remind you when it does come on. If your set top box supports recording, you can schedule a recording for the program.

For more information on how to use the Guide, see section **5 Guide**.

For more information on setting Reminders, Autotunes and Recordings, see **Setting a Reminder, Autotune or Recording** in section **6 Guide - Alerts & Recordings**.

Adjust Volume

The VOL+/- button will adjust the volume gradually.

The **MUTE** button will toggle the sound on and off.

System Buttons

There are a number of buttons on your remote that display different features of your service.

MENU displays the Menubar when in cable [STB] mode, and in [TV] mode you will see your TV's menu. The Menubar provides quick access to every feature supported by your service.

For more information about the Menubar, see section 4 Menubar.

INFO displays the Infobar, a feature that lets you see information on what you're watching, what's coming on next, and what's on other channels.

For more information on the Infobar, see section **3 Infobar**.

EXIT causes your set top box to exit whatever screen you are seeing and return you to normal TV viewing. If you ever get lost on a screen, it is always safe to press **EXIT** and then start over.

2 How To Use This Book

Layout

Instructions are paired with screen shots to illustrate the process and provide confirmation of what you should see on your TV.

Section headings and on-screen text, such as screen titles, messages and options are shown in **Blue Bold Type**.

Buttons on the remote control are represented by a graphic of that button, or **Red Bold Type** when a graphic cannot be shown.

Color-Codes & Icons

Program listings may display icons based on settings for a particular program.

Program Attributes



*Record and Series Record only appear if your set top box supports recording.

All menubar icons and explanations are in 4 Menubar.

Note: Your service provider uses a default PIN code for customers. This default PIN code is zero (0). For instructions on changing the default PIN code, go to page 45 Settings - Editing a User Account.

3 Infobar



Introducing The Infobar

The Infobar is a quick way of finding information about the show you are watching, what comes on later, and what is on other channels.

Go To The Infobar

There are three ways to make the basic Infobar appear.

- 1. Press INFO on your remote control.
- 2. Press the Up or Down Arrow Keys on your remote control.
- 3. The basic Infobar will also appear any time you change channels.

Once the Infobar is active, press **INFO** again to display the detailed Infobar. It adds information on directors, actors and the name of the next program.



3 Infobar

Infobar Layout



Channel Name & Number

The name and number of the channel currently listed in the Infobar.

2	Current Time
3	Program Type
	Indicates whether you are watching Live TV a recorded program, or a

Pay-Per-View program. This may also indicate if the program is Blocked/ Restricted because of parental controls or that the Emergency Alert System is active.

4	Program Name			
5	Program Start Time, End Time & Rating			
6	Program Summary			
7	Additional Program Information			
	Indicates the type of program (movie, sports, etc.), Closed Captioning,			
	Dolby Digital audio, and year of original release.			

8	Current Favorites List
9	Director, Stars & Coming Up

The detailed Infobar will list the director and stars of a program, along with the name of the next program on this channel. If you do not see director and actor information, you may need to press **INFO** again on your remote control to view that information.

3 Infobar

Using the Infobar

Step 1: Go To The Infobar

Press INFO, the Up or Down Arrow Keys, or change channels.



Step 2a: See What's On Other Channels

Press the **Up or Down Arrow Keys** to scroll the Infobar through what is showing on other channels without actually changing channels.

If you find something you would rather watch on another channel, press OK to tune to that channel.



Step 2b: See What's On Later

Press the **Right Arrow Key** to scroll ahead to upcoming programs for the channel listed on the Infobar.

Press **OK** while viewing info on a future program to bring up these options.



Press the Left Arrow Key to scroll back to the current channel listing. To exit the Infobar completely, press Exit on your remote.

Note: Recording options will not be available if your set top box doesn't support those features.

4 Menubar

Introducing the Menubar



The Menubar is a quick and easy way to access any feature of your service.

Go To the Menubar

To display the Menubar, press **MENU** on your remote control. Press the **Left/Right Keys** on your remote control to move the highlight through the menu. Press **Menu** again to exit or press **Exit** on your remote control.

Understanding the Menubar

Guide	Guide will bring up the program guide. For information on Guide, please see section 5 Guide . To record or edit a recording, please see section 6 Guide - Alerts & Recordings .
	PPV jumps directly to the Pay Per View channels in the program guide. For information on PPV, please see section 9 Pay Per View .



DVR allows you to watch existing recordings, access a list of scheduled recordings, and edit and sort both. You can also create a recording (Schedule Event) and prioritize conflicting series recordings. For information on DVR, see section **8 DVR**.



My Library provides quick access to previously purchased programs, reminders you have scheduled, messages regarding your service, and Caller ID history. For more information on My Library, see section **10 My Library**.

4 Menubar



Settings offers access to creating parental controls and setting blocked channels, determining how things appear on the screen (such as TV Caller ID), and creating, editing and deleting user accounts. For information on Settings, see section **11 Settings**.



Sign Out / Sign In allows you to sign out of the current user account. This only appears if you are using the Enable Login option under Settings/Preferences, have multiple user accounts, and have signed in with a user name and password. For information about Sign Out / Sign In, see section 12 Sign Out / Sign In. For information on user accounts, see User Settings in section 11 Settings.



Favorites allows you to choose, edit, create or delete a favorite channel list. For information on Favorites, see section **13 Favorites**.



Search allows you to search program listings by title or key words. For information on Search, see section **14 Search**.

5 Guide



Introducing Guide

Guide is the place to quickly find out what's on now and what's playing later. You can set Reminders or Recordings for upcoming programs in Guide.

Go To Guide

There are two ways to go to Guide.

Your can press **GUIDE** on your remote control. You can also press **MENU**, scroll to the **Guide** icon, and press **OK**.

Getting Around Guide

To navigate Guide...

- Move to a channel by entering the channel with the Number Pad (0-9).
- Use the **Arrow Keys** on the remote to move the highlight through the Guide, channel by channel.
- Press the **Up** or **Down Arrows** to move the highlight to view what programs are currently showing on different channels.
- Press the Left or Right Arrows to move the highlight to view what future programs will be showing up to 7 days into the future.
- Press Page Up or Page Down to jump up or down one screen of listings.
- Press OK to preview a current highlighted show on the Guide in the upper-left corner of your TV screen. To view the program full screen, press OK again.
- Continuing to press the **Guide** key on your remote will switch the **Favorite** list to **All**, **Subscribed**, **HD**, and any **Favorites** lists that you create. This causes Guide to only display the channels included on each list. Cycling to **All** will display all available programming.
- Press **EXIT** to leave the Guide.

Favorites List in Guide

A Favorites list allows you to select channels you watch most often, placing them on a list that is quickly accessed in **Guide**. **If you can't see all your channels, you may be limited by the Favorites list you've selected**. **Selecting All will display all available programs. Other Favorites lists will only display the channels you've previously added to that list.** For more details about creating, editing, or naming a Favorites list, see section **13 Favorites**.

HDTV Programming

Programs available in HD will appear in Guide with a blue HD icon next to the name of the program. In order to watch HD programming, you will need an HDTV-capable set top box and TV, and may need to subscribe to an HD channel package.



Guide Layout

Favorites List

Indicates the Favorites list currently in use.

Info Area

Provides information about the currently highlighted program.

Picture-in-Picture

Allows you to watch TV while you are in Guide.



Highlight •

Indicates what program listing is currently in focus.

Program Listings

Shows channel number, channel abbreviation, and program listings for each channel. Program listings may include icons to indicate a setting or feature for a particular program.

Listing Date/Time

Shows the date and time (divided into 30-minute increments) for the programs currently shown in Guide.



Introducing Alerts & Recordings

In this section, you will learn about setting or scheduling a recording, recording a series, and editing it. You will view the recordings under the DVR icon.

Setting a Reminder, Autotune or Recording

A Reminder informs you a program is about to come on. An Autotune automatically changes the channel when the program is about to start. A Recording will automatically record the program to your set top box. On the **Schedule Event** screen, you can edit the channel number, time, type of timer (**Recording, Reminder**, or **Autotune**), and frequency of the event. See **7 Recording** and **8 DVR** for more details on **Schedule Event**.

		7:06 pm	MINERVA
	-15-11-546	LA Ink	
	Carlos No.		VPG
		Stranger In My Shop - business forces her to of only hiring people sh in a new tattoo artist na	Kat's growing go against her policy e knows. She brings amed Amy to see if
35 DSC	Survivorman	ę	
📩 Subscrit			
07/16/2009			10:30 pm
35 DSC 🔶	Are We Alone?		
36 TLC	LA Ink	╈ LA Ink	
37 ANIM	 Yellowstone: Ba 	Animal Cops: Philadelph	nia
38 TRAV			•
39 NICK	George Lopez	Family Matters	Family Matters



Step 1: Pick a Program

Pull up the Guide and find the future program you wish to view. Highlight the program listing and press **OK**. A pop-up menu will appear.

Note: The pop-up options may appear different depending if your STB is DVRenabled, or what type of program you selected to record.

Step 2: Set the Reminder, Autotune or Record Highlight Record Program, Set Autotune, or Set Reminder and press OK. You will then be returned to Guide.

See **7** Recording - Quick Recording for how to record a currently playing program.



6 Guide - Alerts & Recordings

└── Subscribed					
07/16/2009			10:00 pm		
36 TLC		LA Ink	🤌 🛣 LA Ink		
37 ANIM		Yellowstone: Ba	Animal Cops: Philadelphi		
38 TRAV		TRAVEL	TRAVEL		
39 NICK	Ge	orge Lopez	Family Matters		
40 TVL		🚖 She's Got t	She's Got the Look		

Step 3: Return to Guide

The program listing now shows an icon.



Recording set



Program Reminder. Press info to view details.

Step 4a: Your Reminder

A few minutes before your program comes on, a box will appear on your screen telling you that you have a Reminder.

Press **INFO** to display the Reminder.

Highlight the button showing the program name and press **OK** to watch the program. Highlight **Cancel** and press **OK** to ignore the Reminder.

Step 4b: Your Autotune

Just before the program begins, a message will display, giving you the option to tune in or cancel. If nothing is selected, your TV will automatically tune to the new program.



Step 4c: Your Recording

If you set a future recording, your set top box will record it for you once your program begins (see **7 Recordings** for more details).

To watch your recording, go to 8 DVR - Recordings.

Editing a Recording

Note: Recording is not available if your set top box doesn't support it.

Once you have created a recording, you can adjust when the recording begins or ends. This ensures nothing is missed in case the broadcaster's time doesn't precisely match up with yours.



What would you like to do with the selected program LA Ink

Edit Recording

Cancel Recording

LA Ink 7:00 pm - 8:00 pm Start 0 Minutes Early End 0 Minutes Late OK Cancel Step 1: Pick an Upcoming Recording Locate the program to be recorded. Highlight its listing and press OK. You can locate the program by finding it on the Guide or by accessing it through the To Record option on the DVR menu.

Step 2: Edit Recording From the options shown for this program, highlight Edit Recording and press OK.

Step 3: Select Start & End Times Arrow Up or Down to choose Start or End and press OK. Once you see arrows above and below the Start or End box, Arrow Up or Down to adjust the Start or End time.



Setting a Series Recording

Note: Recording is not available if your set top box doesn't support it.

If you choose to record a program that is part of a regular series, you will be offered the option to record the series. This allows you to record every episode of a favorite program.



Every upcoming episode of the series will be recorded.

11

She's Got the Look



Editing a Series Recording

Note: Recording is not available if your set top box doesn't support it.

Once you have created a series recording, you can adjust several recording preferences in the Edit Series Recording menu.

		6:05 pm	MINERVA
	ale - Ch	George Lopez 1:00 am - 1:30 am, TVPG	
645 TLC-HD	LAInk	George Gets a Pain in George react to Carme marry Jason. Also, mist affecting the whole fan	the Ash - Angie and in's determination to fortune befalls Benny, illy. Benny: Belita M
📩 All			
07/17/2009		1:00 am	
39 NICK	Malcolm in the Middle	列 George Lopez	🐢 George Lopez
40 TVL			
41 DISN	Cory in the House	The Replacements	Kim Possible
42 GLXJX	 Galaxie Jeux 		
43 HGTV	My First Place	House Hunters	House Hunters

Step 1: Pick a Series Recording

Locate any program in the series to be recorded. Highlight its listing and press **OK**. You can locate the program by finding it on the Guide or by accessing it through the **To Record** option on the DVR menu.

Step 2: Edit Series Recording

From the options shown for this program, highlight **Edit** Series Recording and press OK.

What would you like to do with the selected program George Lopez

Edit Recording

Edit Series Recording

Skin Episode George Lopez 1:00 am - 1:30 am Channels NICK 39 Preference Standard Episodes All Start 0 Minutes Early End 0 Minutes Late Limit to All

Step 3: Adjust Series Recording Options

Arrow Up or Down to choose an option and press OK. Once you see arrows above and below the options setting box, Arrow Up or Down to adjust that setting.



Channels determines whether the series is recorded when aired on the channel originally set to record, or record the series on whatever channel airs it.

Preference determines whether to record the program when shown in standard definition or only when shown in high definition.

Episodes determines whether to record re-runs and new episodes of the series or only new episodes.

Start and End determines how much time to add at the start and end time of the recording so that none of the program is missed.

Limit To determines how many episodes of the series are saved. If set to anything other than AII, the system will delete the oldest recorded episode of the series once the limit is reached.

Once you have adjusted the series settings, highlight OK and press OK to save your changes.

Skipping an Episode

Once you have created a series recording, you can manually skip any episode.

35 DSC Survivorman		7:07 pm				
		LA Ink New 10:00 pm - 11:00 pm, TVPG				
		Stranger In My Shop - Kat's growing business forces her to go against her policy of only hiring people she knows. She brings in a new tattoo artist named Amy to see if				
📩 Subscril	bed					
			10:30 pm			
36 TLC	LA Ink	💷 ☆ LA Ink				
37 ANIM	 Yellowstone: Ba 	Animal Cops: Philadelph	nia			
38 TRAV	TRAVEL	TRAVEL	►			
39 NICK	George Lopez	Family Matters	Family Matters			
40 TVL	🔹 🚖 She's Got t	She's Got the Look				

Step 1: Pick the Episode

Locate the episode in the series you want to skip. Highlight its listing and press **OK**.

Step 2: Skip the Episode Highlight Skip Episode

Skip Episode

and press **OK**. You will be returned to Guide and the red dots on the episode listing will turn grey **C** to indicate you are skipping that episode. If you decide to record this episode after all, repeat this procedure and choose **Record Episode** from the options shown and press **OK**. The dots will become red again.



Canceling an Autotune, Reminder, Recording, or Series Recording You can cancel any event you have previously scheduled directly from Guide.



Cancel Series

Highlight the option you wish to cancel and press OK. A Yes or No confirmation screen will appear. Highlight Yes and press OK to confirm.

Step 3: Return to Guide

After you press **OK**, you will return to the Guide.

Additional Information on Canceling Events

A list of your Reminders and Autotunes is located in **10 My Library** - **Reminders** and can be canceled from there.

To cancel scheduled recordings, see 8 DVR - To Record.

Recordings

Creating recordings and pausing live TV both require a DVR (Digital Video Recorder). In this section, you will learn several other ways to record besides those covered in 6 Guide - Alerts & Recordings.

Quick Recording

The fastest and easiest way to begin recording is to use the **RECORD** button on your remote control.

Step 1: Start Recording

While watching a program, press **RECORD**. Recording will begin immediately.



You can also start a quick record in **Guide**.

Highlight a program you want to record using the **Arrow Keys** and press **RECORD**.

If the program is currently on, recording will begin immediately. The program will be recorded until it is scheduled to finish. To manually stop the recording before it is finished, press **STOP**.

General Guidelines About Recordings

Your TV can even be turned off and recording will take place.

You can record two programs and watch a different live program or recording simultaneously.

Check with your service provider to see additional multiple recording options.

Pausing Live TV (PLT)

Recording capability also allows you to pause live TV (PLT). While watching a live program, pressing the **Pause** button will temporarily store what you have watched. You can resume watching by pressing the **Play** button.

Controlling Live TV

While watching a recorded program or live TV, you can use the **Playback Control Buttons** to control video playback.

Press **PAUSE** on your remote control to pause the program. Programs can be paused as long as the current channel is not changed.

Press **PLAY** to resume watching.

Press **REWIND** or **FAST FORWARD** to reverse or advance playback from the current point. Press repeatedly to increase **FAST FORWARD** or **REWIND** speed.



Press **STOP** to exit playback of the program.

The Pause Live TV bar appears whenever you pause, rewind or fast

forward live TV.

The center area indicates the amount of program saved. The "I-bar" shows where you are within that range.

The far left box indicates the current playback function.

The far right box indicates the current time.

DVR Playback Controller



Any time you press one of the **Playback Control Buttons** while watching a previously recorded program, the DVR playback controller is displayed.

The box to the left indicates the playback function in use.

The bar in the middle gives a visual representation of where you are in the recording.

Schedule Event

With **Schedule Event**, you can select the channel, date, start and stop time, duration, and frequency of a recording. It is helpful when you want to record or watch a portion of a program on a reoccurring basis.

Accessing the Schedule Event Screen



There are two ways to access the screen.

Option 1:

When you select a future program in **Guide** and press **OK**, select the **Schedule Event** option from the pop-up menu.

The **Schedule Event** screen is populated from the channel you were watching and will change when you select a future program in the Guide.

Option 2:

Press **MENU** on your remote control, navigate to **DVR**, then scroll down to **Schedule Event**, and press **OK**.

Configuring the Schedule Event Screen



The information (the date, program name, channel, time, and frequency of recording) is listed on the **Schedule Event** screen.

If information is incorrect, highlight it and press **OK**. **Arrow Up** and **Down** on your remote to enter the correct information and press **OK**.



Set Type of Event

Arrow Down and highlight **Type** and press **OK**. The highlight will become left/right arrows.

Arrow Left or Right until you see the event type you want (Recording, Autotune, Reminder), then press OK.



Set Event Frequency

Arrow Down on your remote and highlight Freq and press OK. The highlight will become left/right arrows.

Arrow Left or Right on your remote until you see the frequency you want (Single, Weekly, M-F, Every Day), then press OK.

Arrow Down on your remote and highlight OK on the Schedule Event screen and press OK on your remote. You will be returned to DVR menu. Press Exit to return to the Guide.

See 8 DVR - Schedule Event for details on editing the Schedule Event screen.

Record By Search

Navigate to the Menubar by pressing the Menu button, highlighting the Search icon, and press OK. (See 14 Search for complete details on Search.)

Once the Search topic is found, navigate to the program you want to record. Then highlight it and press **OK**.

Arrow Down to Record Program for a one-time recording and press OK. Or Arrow Down and highlight Record Series to record all episodes of the show.

See 14 Search for more details.

Note: To view your recordings, go to chapter 8 DVR - Recordings.



8 DVR

Introducing DVR

In DVR, you can view current recordings, see a list of future scheduled recordings, edit and cancel recordings, sort and prioritize recordings, lock recordings, and schedule a future event. Schedule Event is the only DVR feature that enables recordings.

Go To DVR

Press MENU, highlight DVR and press OK.

The DVR Menu Quick Reference

Recordings	Recordings lists programs you have already recorded. Go here to watch, sort, lock, or delet these recorded programs.	
To Record	To Record lists all Recording events you have scheduled, and allows you to sort or cancel any future recordings.	
Schedule Priority	Schedule Priority allows you to give priority for one series recording over another in the event of a scheduling conflict.	
Schedule Event	Schedule Event allows you to create a Recording, Reminder, or Autotune event for individual or recurring programs.	
Record History	Record History is a log of when recordings start, complete, or are canceled.	

Recordings

	6:16 pm			
	LA Ink 07/16/2009, 6:00 pm, TVPG		2	
	Kat's Back - Season 3 opens as Kat Von D returns to Eos Angeles after a monitoriong book our, and the shop's busier than ever-escally since Kim and Hannah left			
W DVR		6% Full	lı ir	
Recordings		07/16/2009	f	
To Record	Survivorman	07/16/2009	Т	
Schedule Priority	D WWE Superstars	07/16/2009	r	
Schedule Event			ŀ	
Record History			r	

Highlight **Recordings** and press **OK**.

A list of your recorded programs appears to the right.

In the lower right of the info area a percentage full item is shown. This indicates the percentage of total recording space used.

Recordings not yet

watched are listed with white text; those you have previously accessed are

8 DVR



listed with grey text. If a program is still being recorded a red dot icon will appear to the left of the program's name.

The Whole Home icon means that the recorded program can be viewed from any set top box in the house and will appear to the left of the program's name. (See the end of this DVR section for more details about Whole Home DVR.)

Recordings: Watching a Recorded Program

Step 1: Pick a Recording

Highlight the recording you want to watch and press OK.



Step 2: Play the Recording Highlight Play Recording and press OK.

Step 3: Watch the Recording Your recording will begin playing. The Infobar will appear for a few seconds with an icon to the right to indicate you are playing a recording.

While watching your recording, you can use any of the **Playback Control Buttons** on your remote to pause, fast forward, rewind, stop, or resume play.

DVR Playback Controller



Any time you press one of the **Playback Control Buttons** while watching a previously recorded program, the DVR playback controller is displayed.

The box to the left indicates the playback function is in use.

The bar in the middle gives a visual representation of where you are in the recording.

Step 4: Return To Live TV

When the recording ends, you will be prompted to keep or delete the recording and then returned to live TV.

If you want to return to live TV before your recording has ended, press **STOP** (). See **Playback Controls** on your remote.





Recordings: Sorting Recordings

Highlight **Recordings** and press **OK** to bring up your recording list. The first listing will be highlighted. You can sort your recordings alphabetically by title, by the date recorded, by channel that originally aired the program, or by whether you have or have not viewed the recording.



To sort your recordings by any of those categories, press the **Left Arrow Key** to shift the highlight to the left. Highlight the category you want to use to sort and press **OK**.

For example, if you highlight **Date** and press **OK**, your recordings will be

sorted by the date recorded with oldest at the top and newest at the bottom.

You can reverse the sort order for any category by pressing OK again on that category. Using the above example, pressing OK again on Date would put your newest recordings at the top and oldest at the bottom.

Recordings: Locking or Unlocking a Recording

Locking a recording prevents the system from deleting a program to make space for new recordings.

Note: You can still manually delete a locked recording. Locking only prevents the system from automatically deleting it.

Step 1: Pick a Recording

Highlight the recording you want to lock and press OK.



Step 2a: Lock the Recording Highlight Lock and press OK.

Once a program is locked, a 📩 appears on the recording's listing.

Step 2b: Unlock the Recording If you select a locked program in Step 1, the Lock option will instead be Unlock.

8 DVR



Highlight Unlock and press OK.

When the program is unlocked, the padlock icon is removed.

Recordings: Deleting a Recording

Step 1: Pick a Recording

Highlight the recording you want to delete and press OK.



Step 2: Delete the Recording Highlight Delete Recording and press OK.

Step 3: Confirm Delete Highlight Yes and press OK to confirm, or No if you change your mind.

Step 4: Recording Successfully Deleted Once you confirm the deletion, the entry for that recording is removed from the list.

Note: Once a recording has been deleted, there is no way to undo this action.

Recordings: Stopping a Program Currently Recording

Step 1: Pick a Recording

Highlight the recording event you want to stop and press OK.

Step 2: Stop the Recording

Highlight Stop Recording and press OK.

To Record

You can easily review and cancel programs to be recorded. Highlight **To Record** and press **OK**.

To Record: Sort Future Recordings

A list of your scheduled future recordings will appear to the right.

The list of programs to be recorded can be sorted by title, date to be recorded, channel airing the program to be recorded, or recordings to be skipped or not.

For more information on sorting items in this list, see Sort Recordings earlier in this section.

To Record: Canceling a Future Scheduled Recording

Step 1: Pick a Future Scheduled Recording

Highlight the recording event you want to cancel and press OK.



Step 2: Cancel the Recording Event Highlight Cancel Recording and press OK.

Step 3: Recording Canceled

Once you have canceled the recording event, the entry for that recording event is removed from the list.

Schedule Priority

When you create series recordings for different programs that may be scheduled for the same time, Schedule Priority allows you to pre-determine which program you want to be recorded instead of another. To go to Schedule Priority, highlight Schedule Priority and press OK.

Schedule Priority: Changing Schedule Priority



Schedule Priority lists all series recordings with the highest priority listed first.

This program will always be recorded in preference to any other series recording.

To adjust the priority for a series, highlight the program you would like to change and press **OK**.

You can Move Up or Move Down the

program in priority. Highlight the option you want and press **OK**. If necessary, repeat this procedure until each series is in the order of priority you want.

Schedule Event

Highlight Schedule Event and press OK. Setting a Schedule Event is covered in 7 Recordings. Editing instructions are covered here.

8 DVR



Schedule Event: Editing a Schedule Event

Schedule Event

To edit, highlight the item. Press OK and use the arrow keys to change the settings. Press OK again to end the edit.

			LA Ink				
Ch:	645 TLC-HD		For:	01		00	
On:	07	16	At	06	h 0() pi	m
	Type: Recordin		ng				
	Freq:	Single					
ОК							

You can edit the channel number, date, time, and type of scheduled event, and frequency of the event.

Highlight the setting you want to change by **Arrowing** to the item and press **OK**. Use the **Right and Left Arrow Keys** to change the settings and press **OK** on the remote to end the edit.

When all screens are completed, press **OK** on the screen to enter your information.

Record History

Record History is a log of all events related to your recordings such as recording started, recording completed or recording canceled. Scroll down the **DVR** listings and highlight **Record History** and press **OK**.

Record History: Reviewing Record History

	6:21 pm				
	LA Ink				
	07/16/2009 6:02 pm Recording Started				
45 ILU-HD LAINK	6% Full				
	1 of 12				
	Rec Start: LA Ink				
Recorded Programs	Recording Skipped: M*A*S*H				
To Record	Rec Stop: M*A*S*H				
Schedule Priority	Rec Start: M*A*S*H				
Schedule Event	Recording Skipped: Everybody L				
Record History					
V					

Press the **Up and Down Arrow Keys** on the remote to scroll through your record history.

When you Arrow to a Recording that is labeled Record Stop and push OK on your remote, the date and start time of the recording appears above the list of recordings. The same process works for Record Start.



8 DVR

Whole Home DVR

As the name suggests, with Whole Home DVR all set top boxes in the household can record programs and view live or pre-recorded shows from any room in the house. You can also stop a recorded program in one room and continue watching it in another.





You can set a recording from connected set top boxes in the household, not just the DVR. Of course, you need one DVR in the household because it actually does the recording and storing functions for all the non-DVR set top boxes. (See 6 Guide - Alerts & Recordings and 7 Recording for more details about recording.)

Non-DVR Set Top Box Recordings List



To view the list of Whole Home DVR recordings go to the Menubar, select the DVR icon and press OK on your remote. Recordings appears as the first listing under DVR. Select it and press OK to bring up the list. When viewing the list of Whole Home DVR recordings on a

non-DVR set top box, the Whole Home icon icon will appear next to the program's name. All set top boxes (including the DVR) will have access to the recording.
8 DVR





If you start watching a recorded program in one room (family), and wish to move to another room (bedroom) you can view the recording there.

Step 1: Stop the recording playing in the family room by pushing the **stop button** on your remote. (See the **Playback Controls** on your remote).

A screen will appear giving you a choice to either Keep this Recording (highlighted) or Delete this Recording. Click OK on the highlighted Keep this Recording. You will then be returned to the DVR screen and the video will now be available in other rooms.





Introducing Pay Per View (PPV)

Pay Per View allows you to watch exclusive sporting events and other content in the comfort and privacy of your home. Forget long lines, big crowds, expensive concessions and seats in the "nose bleed" section.

Go To Pay Per View

Using the Arrow Keys on your remote, scroll the menubar to PPV, then press OK. The PPV list will appear on the Guide menu.

Buying Pay Per View



Note: Use these steps to purchase PPV Events and Pay Per Block.

Step 1: Pick the Program

Highlight the Pay Per View program you want to buy in **Guide** and press **OK**.

Select an action for John Doe Goes to Jail Expand Info Buy PPV Cancel

Step 2: Buy PPV Highlight Buy PPV and press OK.



Step 3: Confirm Your Purchase

Highlight the box next to Enter PIN and enter your Pay Per View PIN using the Number Pad (0-9). For more information on PINs, see section 11 Settings.



To share this video with other viewers in your household, highlight the check box next to **Share PPV** and press **OK**.

For more information on **Share PPV**, see section **11 Settings**.

Finally, highlight the **Buy** button and press **OK**.

Step 4: Watch Your Pay Per View

	ALCON ST	6:12 pm	M INERVA
		John Doe Goes t	
645 TLC-HD	LA lnk	Writer-director and star the big screen in this hi pistol-packin' grandmor the big house upside d	: John Doe returns to larious romp, as his mma alter ego turns own when she is se
📩 PPV			
07/16/2009	6:00 pm		
80 NCAR23	 -No Title- 		
81 NCAR23	 -No Title- 		
82 NCAR24	 -No Title- 		
83 NCAR27	 -No Title- 		
84 VC7ALL	John Doe Goes to Jail		>

You can now watch your Pay Per View program.

If you purchased your Pay Per View program in advance, you can schedule an Autotune or Reminder so that you don't miss it.

For more information on setting Reminders and Autotunes, see **Setting** a **Reminder, Autotune, or Recording** earlier in **6 Guide - Alerts & Recordings**.



Introducing My Library

My Library stores all purchased programming, a list of your scheduled Reminder and Autotune events, messages about your service, and a log of your Caller ID.

T	he My Library Menu
PPV Events	PPV Events allows you to view previously purchased Pay Per View programs.
Pay Per Block	Pay Per Block allows you to view purchased Pay Per View programming in blocks of time rather than for an entire program.
Reminders	Reminders lists all Reminders and Autotune events you have scheduled. From here, you can cancel a Reminder or Autotune.
Messages	Messages allows you to view any messages about your service. Messages may inform you of promotional offers, service upgrades, or billing alerts.
Caller ID	Caller ID offers access to a log of all calls you have received through Caller ID. You can review your Caller ID history and delete individual entries.
	Go To My Library

Press MENU on your remote control, highlight My Library and press OK.

Introducing PPV Events

PPV Events allows you to view a previously purchased program.

10 My Library



Go To PPV or Pay Per Block



Introducing Reminders

Reminders lists all scheduled Reminders and Autotune events. From here you can cancel a Reminder or Autotune.

Go To Reminders

Highlight Reminders and press OK.

A list of your Reminders 🌙 and Autotunes 🕩 appears to the right.

Cancel a Reminder or Autotune



Step 1: Pick the Program Highlight the Reminder or Autotune event you want to cancel and press OK.



What would you like to do with this Reminder?



Step 2: Cancel the Autotune or Reminder Highlight Cancel Autotune or Cancel Reminder depending on the type of event you are canceling and press OK.

Introducing Messages

Messages may inform you of promotional offers, service upgrades or billing alerts.



Whenever you receive a new message an alert will appear on your screen. Press **INFO** on your remote to display the message, or press **EXIT** to ignore the alert and view the message later.

Go To Messages

Highlight Messages and press OK.

A list of all available messages appears to the right.



Reading a Message

Highlight the message listing you want to read. The full message will be displayed in the Info Area in the upper right-hand corner of your screen. 10 My Library



Introducing Caller ID

Caller ID offers access to the Caller ID call log. You can review log entries and delete individual entries.

Note: You must subscribe to Caller ID to access this feature. Additionally, only certain set top boxes support on-screen Caller ID. Please contact customer service for more information.

Whenever you receive a call, an alert will appear in the upper corner of your screen. This alert will be removed after a few seconds. These settings can be controlled from the **Preferences** in the **Settings**.



Go To Caller ID

Highlight Caller ID and press OK.

A list of received calls appears to the right.

Highlighting a Caller ID log entry will display the name and number of the caller, and the date and time of the call.

Deleting a Caller ID Entry

Highlight the Caller ID listing you want to delete and press OK.

Highlight **Delete** and press **OK** to remove the entry, or **Cancel** if you decide to keep it.



Introducing Settings

Settings gives you control over your video service. You can choose to share purchased programs, change how alerts appear on your screen, create parental controls and block programs by channel or ratings. You can also create accounts for members of your family.

Go To Settings

Press **MENU** and highlight **Settings**. Then enter your password, highlight **OK** and press **OK**. There are two main sections of **Settings**: **Preferences** and **Users**. Both are used for setting up parental controls.

		•
	9:51 am	
	Main Preferences	
	🔲 Share Rentals	Channel Blocking Edit
	🗹 Require Login	Parental Control
1 SURW No Program	Enable Caller ID	Caller ID Timeout 5 seconds
🔅 Settings	Theme	Default
Preferences		
Users	Autotune Alert	0 seconds
	Hard	ware Settings
	Submit	Cancel

Activating Parental Control

Arrow to Parental Control under Main Preferences and press OK to check the box. Arrow to Submit and press OK. You will be returned to live TV. Navigate back to Settings and enter your account password.

Selecting Parental Control Settings



Arrow Down to Users and press OK. Arrow Right and highlight Parental Control and press OK.

A new screen appears listing the **Parental Control** topics.

Arrow Up and Down to check the controls you want to set for your household.

Both Movie and TV Ratings should be set. Setting one will not block the



other's content as they have different rating values. For more information about Movie and TV Ratings, see the ratings definitions in the appendix of this guide.

Movie and TV ratings determine the highest rating for programs that will be accessible. All levels above the selected rating will be blocked.

Unlock Timeout (Only Available on Master Account)

Unlock Timeout determines how long parental controls will remain disabled.

Unlock Timeout 30 minutes Timeout and press OK. Use the Right/Left Arrow Keys to select the amount of time wanted, then press OK.

Block Unrated

Block Unrated (Only Available on Master Account)

To set Unlock Timeout, highlight

the option box next to Unlock

Block Unrated allows or blocks any program that does not have a rating.

To turn Block Unrated on or off, highlight the check box and press **OK**.



Content Rating

To block a particular type of content, highlight the check box to the left of that item and press OK.

Note: If you block unrated programs with parental control settings, you may be blocking a sports or news program that isn't rated.

Turning Parental Controls On and Off

Once you have finished your selections, Arrow Down to Submit and press OK. Parental Controls will now be turned on. To turn off Parental Controls, go to Guide and select the Restricted program replacing the program's title, highlight, and press **OK** on your remote.

BLOCKED	
Unlock Parental Controls	
Cancel	

A dialog box pops up that says Unlock Parental Controls and Cancel.

If you choose Unlock Parental Controls, you're then prompted for your password and parental controls are unlocked for the duration specified by the Unlock Timeout feature.



Please enter passv	vord to gain	access
Enter Password	4444	
	ок	Cancel

You set the amount of time you want for the **Unlock Timeout** to be in effect under the **Parental Controls** settings as explained earlier in this section. To turn Parental Controls off indefinitely, uncheck the check box marked **Parental Controls** in **Settings Preferences**.

Working With Additional Preferences

Share Rentals

Share Rentals makes purchased programs available for any user (enabled), or only available to the user who makes the purchase (disabled).

🔲 Share Rentals

To turn on or off, highlight the check box and press **OK**. Checked rentals will appear on purchase screens.

Require Login

Require Login determines if a user name and password must be entered before being able to use your TV service.



To turn Require Login on or off, highlight the check box and press **OK**. This ensures that the additional users or sub accounts must log in to watch programs.

Enable Caller ID

Enable Caller ID turns on or off screen alerts for incoming Caller ID.



To turn Enable Caller ID on or off, highlight the check box and press **OK**.

Caller ID Timeout

Caller ID Timeout determines how long Caller ID notifications remain on the screen.



To set Caller ID Timeout, highlight the option box to the right of Caller ID Timeout and press OK. Then press

the **Right or Left Arrow Key** to rotate to the amount of time you want the alert displayed, then press **OK**.

Channel Blocking

Channel Blocking enables or disables the list of channels you have blocked. Blocked channels do not appear in Guide.



🔲 Channel Blocking 📃

To turn Channel Blocking on or off, highlight the check box and press **OK**.

To edit the list of channels that are blocked, highlight the Edit button and press OK.

Edit

Channel Blocking Edit displays a list of all channels available. You can then block or unblock any channel. Blocked channels will appear with a padlock icon next to them in the Edit screen, but WILL NOT APPEAR in channel lineup. Parental Control does not need to be turned on for this feature to be active.

To block channels, highlight the **Channel Blocking Edit** button and press **OK**.

If no changes have been made on the **Preferences** screen, you will go directly to the list of all available channels. If any changes *have* been made to the main **Preferences** screen and you have not already updated them, a **Save Changes** box will appear. Highlight **YES** and press **OK** if you wish to save these changes. The **Settings Successfully Updated** notice will then appear. Highlight **OK**, and press the **OK** button.

		3:35	am		
	Ch		el Blocki		
AND			CMDY	Comedy Central (Pacific)	
AND - LANSE					
1 SURW No Program			SPIKE		
🙃 Settings					
Preterences					
Users				Si TV (Los Angeles,CA:1	
			SNBC	ShopNBC (Minneapolis,	
			Updat	te Cancel	

The **Channel Blocking** list will appear.

To block/unblock a channel, highlight the channel entry and press **OK**. A blocked channel will have a padlock icon on the right side of the channel name.

To go to the next screen of channels,

press the **Up or Down Arrow Key**. When complete, **Arrow** to update and press **OK**.



Autotune Alert

Autotune Alert

Autotune Alert determines how early an Autotune alert will appear prior to the beginning of the selected program.

0 seconds option box to the right of Autotune Alert and press OK. Then press the Right or Left Arrow Key to display 0 seconds, 30 seconds, 2 minutes or 5 minutes, then press OK.

0 seconds will display your Autotune Alert at the exact time the program begins, where setting to 1 minute will alert you one minute before you program begins.

Theme

Theme

Default

For service provider use only.

To set Autotune Alert, highlight the

Hardware Settings

Hardware Settings

For service provider only.

	9:52 am	
	Main Users	
	DAD	
	BILL	
1 SURW No Program	CATHRYN	
🔅 Settings		
Preferences		
Users		
	Parental Control	
	Add Edit Delete Cance	el

Working With Settings/Users

User accounts allows vou to have separate parental controls. purchase limits and themes for different family members.

Users/Settings

allows you to add a user account. edit an existing user account, change parental controls for a user account, or delete a user account.

Note: The master account is the first account listed and is shown in yellow rather than white. You cannot delete the master account and cannot change the login name for the master account.





43



CATHRYN

Highlight Confirm Password to

re-enter the password for the new

account. Use the Number Pad on your remote to re-enter the password.

Theme



For service provider use only.

Highlight Allowance \$ to enter a limit to the amount of programs that can

be purchased per month for the new account. Use the **Number Pad** on your remote to enter a whole dollar amount (e.g. 200 to limit the account to \$200.00).



Highlight the Enable Caller ID check box and press OK to enable or disable Caller ID alerts to appear on the screen for this user account.

Highlight Enter PIN to enter the master account's PIN as a further

way of verifying the master account holder is creating this account. Use the **Number Pad** on your remote to enter the PIN. Then re-enter the PIN to confirm that you've entered it correctly.

Now highlight **Continue** and press **OK** to go to the next Add User Account screen.



The second Add User Account screen allows you to create parental controls specific to this user.

These parental control settings are identical to the settings shown earlier with the exception that there is no Unlock Timeout or Block Unrated setting.

Once you have entered the settings for the new account, highlight **Submit** and press **OK**.



2:27 am DAD BILL CATHRYN No Program Settings Parental Control 2:42 am Password No Program 祊 Settings New Pin 🗹 Enable PIN **** Confirm Password

Confirm Password

PIN

Editing a User Account

To edit a user account, highlight the user account and press OK, then highlight the Edit button and press OK.

Note: The master account is the first account listed and is shown in yellow rather than white.

Using the **Number Pad** on your remote, enter the current password for this account.

Now highlight **New Password** to change the password. Use the **Number Pad** on your remote to enter a numeric password.

Highlight **Confirm Password** to re-enter the password. Use the **Number Pad** on your remote to exactly re-enter the password.

Highlight **PIN** and enter the account's existing PIN (default PIN is the number zero [0] unless it has been changed by a user).





highlight Submit and press OK.



Sign Out / Sign In

This function is typically only used if there are multiple user accounts, usually when a parent adds a child as a new user. The parent's account (master account) controls the child's account (sub account).

Go To Sign Out / Sign In



Press the **MENU** button on the remote. Scroll the menubar to the **Sign Out** icon and click **OK**.



You will then be signed out of your user account, and the Sign In screen will appear. Highlight the Name entry box and press OK.

Use the **Up/Down Arrows Keys** to select the name for the desired account. Then highlight the **Password** entry box and enter the password used for the desired account, highlight **Sign In** and press **OK**.

When a new user signs in, parental controls and other set restrictions for that account will be imposed.



Introducing Favorites

Save time and enjoy the channels you watch the most. Each Favorites list contains just the TV channels you wish to view. You can create multiple Favorites lists and quickly change the Guide to show them.

Go To Favorites

Press MENU and highlight Favorites, then press OK.

A screen will appear with options to choose, edit, create or delete a list, or cancel.

Choosing a Favorites List

There are two ways to choose a Favorites list:

Option 1: Favorites From the Menubar

Follow the steps above in "Go To Favorites," then highlight **Choose** and press **OK**. Then highlight the Favorites list you want and press **OK**.

Option 2: Favorites From Guide

		7:05 pm	MINERVA	10
		Survivorman 7:00 pm- 8:00 pm, TVPG Sierra Nevada - The Si mountains challenge th	erra Nevada ne host.	
	Survivorman	ė.		
i All				
07/16/2009	7:00 pm	7:30 pm		
35 DSC 💦 🔪	Survivorman		Survivorman	۲
36 TLC	Sports Disasters		Lottery Change	۶
37 ANI	Lions of Crocodile River		Yellowstone: Bat	۲
38 TRA	◀ TRAVEL			۲
39 NIC	Penguins of Mada	SpongeBob Squa	Malcolm in the Middle	



While in **Guide**, you can cycle through your Favorites lists by pressing **GUIDE** repeatedly. Each press will activate the next Favorites list and it's channel line-up. Cycling to **All** will display all available programming.

The name of the active Favorites list is shown below the picture-inpicture area. This causes **Guide** to only display the channels included on that Favorites list.

Pressing **GUIDE** once you have cycled through all Favorites lists will exit **Guide**.



Creating or Editing a Favorites List

Step 1: Create or Edit

Follow the steps in "Go To Favorites," highlight **Create** or **Edit**, and press **OK** to bring up the **Favorites** create/edit screen. This screen displays every channel available.

Step 2: Name Your Favorites List

♥ Favorites								
× 1					С	D		
Name:	Favorites1			G	Н			
-					М		0	
-	SURW			Q	R			
3	CEMIEM		U					
4	KQCA			Sp	ace	D	el	
6	KVIE6				2	3	4	
	KVIE2		е Б	6			à	
8	KTXL	Update			, i			
9	CALCH	Cancel	С	lear.	All	Do	ne	a strend
	-							

The **Name** box is already highlighted. Press **OK** to bring up the on-screen keyboard.

Then, highlight Clear All and press OK to clear the default name. Now you can enter the name for your Favorites list using the on-screen keyboard.

Highlight each letter in the new name and press OK. Once you have entered the name, highlight Done and press OK.

Step 3: Choose Your Favorite Channels

Arrow Up and Down and select the channels to add or remove from your Favorites list and press OK. A channel included in the Favorites list shows a heart icon \heartsuit to the right of the channel name.

To save your Favorites list, Arrow Right and highlight Update and press OK.

To cancel your Favorite list without saving it, highlight the **Cancel** button at the bottom right of your screen and press **OK**.

Delete a Favorites List

Step 1: Select Delete

Follow the steps in "Go To Favorites," then highlight **Delete** and press **OK**.

Step 2: Select the Favorites List to Delete

Highlight the Favorites list you want to delete and press **OK**. A box will appear asking you to confirm that you want to delete the selected Favorites list. Highlight **Yes** to delete or **No** to cancel, and press **OK**.



14 Search

Introducing Search

Search allows you to enter the title or partial title of a program or video and find any program matching the text you entered, including available On Demand programming and programming currently stored on your DVR.

Go To Search

Press MENU and highlight Search, then press OK.

Search for a Program

Step 1: Enter the Program Title





When the Search screen appears, the highlight will be on the Search text box

Press **OK** and a keyboard will appear to the right of the screen.

Usually the first three or four letters in the name will be enough to find your program.

Use the Up/Down/ Left/Right Arrows to highlight the letters on the on-screen keyboard, pressing OK after each letter, to enter your search keyword.

If you enter a wrong letter, highlight **Delete** and press **OK** to go back one space.

If you need to start over, highlight Clear and press OK. When complete, highlight Done and press OK.

14 Search



Step 2: Search

Q Search		
	in The Cat Lady of Soddy Daisy	(08/19/2011)
	📩 Catch Bigger Fish	(08/19/2011)
Search	The Cat in the Hat Knows a L	(08/17/2011)
	📩 Cat Got Your Tongue	(08/19/2011)
	📩 Who Took My Cat	(08/17/2011)
	•	

Highlight **Search** and press **OK** to perform a system-wide search of all programs that match your search criteria.

The search results appear in order on the right side of the screen.

Step 3: Pick a Result



You can highlight any TV program or rental listing and press **OK** and a menu will appear, enabling you to...

(1) Schedule an Event (recording - see **8 DVR**).

(2) Watch a program if it's currently airing or located on your DVR.

(3) Record the selected program.

(4) Set a Reminder or Autotune for a program if it comes on later. (See **6 Guide - Alerts & Recordings** and **7 Recording**.)

- (4) View Expanded Info.
- (5) Cancel from this menu to exit back to your Search results.

15 Stream Management

Stream Management lets you decide which channels to watch when you've exceeded your subscribed bandwidth to the home.

When a requested stream exceeds the available bandwidth, the requesting STB displays messages that:

- explain that the stream request exceeds available bandwidth.
- offer alternative viewing options for the subscriber.



Once you select an active stream to manage, the following options are presented:

- Join this Channel: the STB auto-tunes to the selected active channel.
- Watch a Program from your DVR: the STB displays the available DVR listings you can watch.
- Interrupt this Channel: the STB tunes to the channel you wanted and interrupts the other STB from its current channel viewing.
- Cancel: the message window closes and no video will stream on the channel. You must go to Guide or Menu or press OK to display the Stream Management options again.



Note: If you are attempting to tune to (or record) too many HD channels, your TV will revert to a black screen with a message saying to tune to an SD channel so you can resume your programming. A set top box that is tuned to an HD channel, but not being watched, will still consume the bandwidth. You may also correct this issue by simply tuning an unwatched set top box to an SD channel.

ADB 2500



- 1. Power 12V DC 1.1A Provides power to the set top box.
- 2. **USB** (Universal Serial Bus) Connects the set top box to technician's equipment and other devices.
- 3. Ethernet Connects the set top box to the video service using a CAT5 Ethernet cable.
- 4. **SPDIF** Connects the set top box to a home theater system to provide surround sound audio provides audio only.
- 5. **S-Video** Connects the set top box to your TV to provide high-quality video provides video only.
- Video/Stereo Audio R/L (Video/Audio Left/Audio Right) Connects the set top box to your TV or VCR to provide good quality video and stereo audio.
- 7. **TV Out** Connects the set top box to your TV using a standard coax cable provides audio and video.

ADB 3800



- 1. Power 12V DC 1.7A Provides power to the set top box.
- 2. To TV Connects the set top box to your TV using a standard coax cable provides audio and video.
- 3. **S/PDIF** Connects the set top box to a home theater system to provide surround sound audio provides audio only.
- 4. **USB** (Universal Serial Bus) Connects the set top box to technician's equipment and other devices.
- 5. **HDTV HDMI** (High Definition Media Interface) Connects the set top box to your HDTV using an HDMI cable provides audio and video.
- 6. **Ethernet** Connects the set top box to the video service using a CAT5 Ethernet cable.
- HDTV Pr/Pb/Y (Component Video) Connects the set top box to your TV to provide very high-quality video - provides video only.
- 8. **SDTV S-Video** Connects the set top box to your TV to provide highquality video - provides video only.
- SDTV Video/Stereo Audio R/L (Video/Audio Left/Audio Right) Connects the set top box to your TV or VCR to provide good quality video and stereo audio.

ADB 5810



- 1. Ethernet Connects the set top box to the video service using a CAT5 Ethernet cable.
- 2. **HDMI** (High Definition Media Interface) Connects the set top box to your HDTV using an HDMI cable provides audio and video.
- 3. **Pr/Pb/Y** (Component Video) Connects the set top box to your TV to provide very high-quality video provides video only.
- 4. VCR Audio Right/Audio Left/Video Connects the set top box to your VCR to provide good quality stereo audio and video.
- 5. **S-Video** Connects the set top box to your TV to provide high-quality video provides video only.
- 6. **TV Video** Connects the set top box to your TV to provide good quality video.
- TV Audio R/L (Audio Left/Right) Connects the set top box to your TV to provide good quality stereo audio.
- 8. **To TV** Connects the set top box to your TV using a standard coax cable provides audio and video.
- 9. **S/PDIF** Connects the set top box to a home theater system to provide surround sound audio provides audio only.
- 10. 12V DC 4A Provides power to the set top box.



You can also use the front panel buttons of the ADB 5810 set top box to replace the basic remote control functions. Use **MENU** to display the Main Menu, **EPG** to display Guide, **RES** to change screen resolutions, and the **arrow** and

OK buttons as you would those on the remote control.

Amino A140



- 1. Audio Visual Out (Composite Video and Stereo Audio) Connects the set top box to your TV or VCR to provide good quality video and stereo audio custom Amino cable has 10-pin connector at set top box end and yellow, red and white RCA connectors at TV/VCR end.
- 2. Out Connects the set top box to the TV using a standard coax cable provides video and audio.
- 3. **HDMI** (High Definition Media Interface) Connects the set top box to an HDTV to provide best quality HDTV provides video and audio.
- 4. In Connects the set top box to the video service using a standard coax cable provides audio and video.
- 5. **5V DC** Provides power to the set top box.
- 6. **USB** (Universal Serial Bus) Connects the set top box to technician's equipment and other devices.
- 7. **Network** Connects the set top box to the video service using a CAT5 Ethernet cable.
- 8. **Phone** Connects the set top box to telephone service to provide onscreen Caller ID.

Note: STB enters sleep mode after 8 hours of inactivity. Select POWER to wake.

Amino A540



- 1. Out Connects the set top box to the TV using a standard coax cable provides video and audio.
- Audio Visual Out (Composite Video and Stereo Audio) Connects the set top box to your TV or VCR to provide good quality video and stereo audio - custom Amino cable has 10-pin connector at set top box end and yellow, red and white RCA connectors at TV/VCR end.
- 3. **Optical Audio** (S/PDIF) Connects the set top box to a home theater system to provide surround sound audio provides audio only.
- 4. **HDMI** (High Definition Media Interface) Connects the set top box to an HDTV to provide best quality HDTV provides video and audio.
- 5. **USB** (Universal Serial Bus) Connects the set top box to technician's equipment and other devices.
- 6. **Network** Connects the set top box to the video service using a CAT5 Ethernet cable.
- 7. Power Provides power to the set top box.

Movie Ratings

MPAA (Motion Picture Association of America) Ratings System

G GENERAL AUDIENCES

G – General Audience

This is a film which contains nothing which would, in the view of the MPAA Rating Board, be

offensive to parents whose younger children view the film.

R



PG – Parental Guidance Suggested

The theme of a PG-rated film may itself call for parental guidance. There may be some profanity

in these films. There may be some violence or brief nudity. But these elements are not deemed so intense as to require that parents be strongly cautioned beyond the suggestion of parental guidance. There is no drug use content in a PG-rated film.



PG-13 – Parents Strongly Cautioned

A PG-13 film is one which, in the view of the MPAA Rating Board, leaps beyond the

boundaries of the PG rating in theme, violence, nudity, sensuality, language, or other contents, but does not quite fit within the restricted R category. Any drug use content will initially require at least a PG-13 rating.



R – Restricted

An R-rated film may include hard language, or tough violence, or nudity within sensual scenes,

or drug abuse or other elements, or a combination of some of the above, so that parents are counseled to take this advisory rating very seriously.



NC-17 – No Children 17 or Under

NC-17 does not necessarily mean "obscene or pornographic" in the often accepted or legal

meaning of those words. The MPAA Review Board does not and cannot mark films with those words. These are legal terms and for courts to decide. The reasons for the application of an NC-17 rating can be violence or sex or aberrational behavior or drug abuse or any other elements which, when present, most parents would consider too strong and therefore offlimits for viewing by their children.

TV Ratings

TV Parental Guidelines Ratings System

The TV Parental Guidelines ratings provide program ratings and content ratings. This provides a clearer idea of the reason for a program's rating.

Program Ratings

TV-Y – All Children

This program is designed to be appropriate for all children.



TV-Y7 – Directed to Older Children

This program is designed for children age 7 and above. It may include mild fantasy violence or comedic violence.

TV-G – General Audience

Most parents would find this program suitable for all ages.



TV-PG – Parental Guidance Suggested

This program contains material that parents may find unsuitable for younger children.

TV-14 – Parents Strongly Cautioned

This program contains some material that many parents would find unsuitable for children under 14 years of age.

TV-MA – TV Mature Audience Only

This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.

Content Ratings

Content Ratings are shown just below the program rating.

FV: Fantasy Violence (only applied to TV-Y7)

For those programs where fantasy violence may be more intense or more combative than other programs in this category.

The meaning of a content rating increases as the program rating increases.

- V: Violence TV-PG: Moderate; TV-14: Intense; TV-MA: Graphic
- TV-PG: Some; TV-14: Intense; TV-MA: Explicit S: Sexuality
- TV-PG: Infrequent; TV-14: Strong; TV-MA: Crude L: Language
- **D:** Dialogue TV-PG: Some: TV-14: Intense: TV-MA: Not used

For more information on TV Parental Guidelines Monitoring Board and its rating system, please visit www.tvguidelines.org.

NOVA Remote Control Guide (US)



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Table of Contents

OVERVIEW

- 2 Remote Control
- 5 Controlling Your Devices
- 6 Program Remote to Control Your Devices
- 7 Auto Search Procedures
- 8 Setup Keys Punch Through Procedures
- 8 Reset Punch Through Procedures
- 8 Reset Procedures

POWERING UP

9 Setting up Remote Control

APPENDIX

- 10 Troubleshooting
- 11 Device Codes: Audio-Amplifier
- 11 Device Codes: Audio-Accessory
- 11 Device Codes: Audio-Receiver
- 12 Device Codes: Television
- 15 Device Codes: TV Combo
- 16 Device Codes: Video-VCR
- 16 Device Codes: Video-DVD
- 17 Device Codes: Blu-Ray Disc

19 Declaration of Conformity

1

OVERVIEW REMOTE CONTROL



Butt	ton(s)	Description
1	POWER	Switches the power on/o for the currently selected device Switches STB to power on or standby mode
2	SET UP	Set up remote for TV
3	TV/ INPUT	Changes the current A/V input of the selected device programmed (i.e. TV or AUX)
4	DEVICE CONTROL	TV: Select to control TV (if programmed) STB: This button is pre-programmed to control the Entone device DVD: Select to control DVD (if programmed) AUX: Select to control another device (if programmed)
5	TRANSPORT KEYS	Controls video program for LIVE TV / DVR / VOD REPLAY: Goes back approx. 30 seconds REW: Rewinds video FF: Fast forwards video SKIP: Advances ahead in 30 second increments PAUSE: Pauses video PLAY: Plays video or resumes a paused program STOP: Stops playback of video
6	REC	Starts or stops recordin g a program
7	OPTIONS	Provides additional options for certain on-screen menu or highlighted item*
8	MENU	Displays on-screen menu or home screen
9	INFO	Displays on-screen information about the current TV / VOD / DVR program
10	BACK	Goes back one level within menus *
1	NAVIGATION	ARROW KEYS: Navigates within the on-screen guide/menus OK: Executes the currently selected menu option LEFT/RIGHT: Rewinds/Fast forwards video
12	VOD	Feature enabled by your service provider (contact service provider for details)
13	EXIT	Exits the current menu item or back to LIVE TV
14	GUIDE	Displays the on-screen program guide

3

NOVA

Butt	on(s)	Description
15	SHORTCUT	Color-code buttons correspond to features that are enabled by your service provider (contact service provider for details)
16	LAST	Changes channel to the previously viewed channel
17	CH/PG	Changes channel up/down or pages up/down within the on-screen program guide
18	VOL + /-	Increases or decreases TV volume
19	MUTE	Turns TV volume on/off
20	NUMBER KEYS	Allows direct access to specific channels and menu items
21	CC	Toggles closed captioning on/off
22	DOT	Used when entering a period in certain channels Displays on-screen keyboard for certain applications
23	MEDIA	Feature enabled by your service provider (contact service provider for details)
24	LIVETV	Feature enabled by your service provider (contact service provider for details)
25	DVR	Feature enabled by your service provider (contact service provider for details)

CONTROLLING YOUR DEVICES

The Nova remote control can be used to control other devices (e.g. TV) as well. It uses InfraRed (IR) light signals to control other devices. IR signals travel only short distances (10 meters or less), and cannot go through walls or other solid objects. You must point the remote directly at these devices, with no objects blocking the line of sight.





10 m or 40 ft





NOVA

4

NOVA

5

PROGRAM REMOTE TO CONTROL YOUR DEVICES

You can program the Nova to control other devices by

- 1. Locate the device code for your device in the Device Codes table provided in the Appendix starting on page 11. If you cannot find the device code for your device or it does not work after trying the listed device codes for your device brand, then you can try the auto search on page 7.
- 2. Turn on your device.
- 3. On the remote control, press the Device Control key (TV / STB / DVD / AUX) to choose the device mode.
- 4. Press the "SETUP" key and the LED blinks twice.
- 5. Enter the five-digit device code for your device. If you perform this procedure correctly, the LED will brink twice. Otherwise, it has a long blink.
- 6. Press "Power" key. If your device turns off, setup is complete.
- 7. If your device does not turn off, repeat this procedure using the next code for your device brand.

Record working codes here							
TV code							
DVD code							
AUX code							

AUTO SEARCH PROCEDURES

If your device does not respond to the remote control after trying all device codes listed for your brand, or if your brand is not listed, try searching for your device code as follows:

- 1. Turn on your device.
- 2. On the remote control, press the corresponding Device Control key (TV / STB / DVD / AUX) to choose the device mode.
- 3. Press and hold "SETUP" key until the LED blinks twice.
- 4. Press number keys "9" "9" "1".
- 5. Press "Power" key.
- 6. Press "CH +" key repeatedly until your device turns off.
- 7. Press and hold "SETUP" key until LED blinks twice to save the working code.

6

NOVA

7

KEYS PUNCH THROUGH SETUP PROCEDURES

By default, a key pressed on the remote control is sent to the selected device mode only. The punch through function allows specific keys to be sent to a particular device. (For example, the volume +/- key may need to be sent to the AUX device instead of the TV).

- 1. On the remote control, press and hold the "SETUP" key until the LED blinks twice.
- 2. Press number keys "9" "7" "8".
- 3. Press source device mode, e.g. TV.
- 4. Press keys to punch through, e.g. VOL + / -, MUTE.
- 5. Press target device modes, e.g. STB, DVD.
- 6. Press and hold the "SETUP" key until the LED blinks twice.
- 7. LED has a long blink in case of error.

RESET PUNCH THROUGH PROCEDURES

- 1. Press and hold the "SETUP" key until the LED blinks twice
- 2. Press keys "9" "7" "8"
- 3. Press and hold the "SETUP" key until the LED blinks twice.
- 4. LED has a long blink in case of error.

RESET PROCEDURES

- 1. Press and hold the "SETUP" key until the LED blinks twice
- 2. Press keys "9" "7" "7"
- 3. Press and hold the "SETUP" key until the LED blinks twice.
- 4. LED has a long blink in case of error.

POWERING UP SETTING UP REMOTE CONTROL

- 1. Locate the two AA batteries and remote control in the accessory box
- 2. To open the battery cover, press down on the battery cover latch and slide it off
- 3. Insert the AA batteries, matching the "+" and "-" marks on the batteries to the "+" and "-" marks on the interior of the remote control
- 4. Snap the battery cover back onto the remote control



NOVA

NOVA

APPENDIX TROUBLESHOOTING

Problem	Solution
The LED does not blink when a key is pressed	Replace the batteries with two (2) new AA batteries
LED blinks when key is pressed but TV or STB does not respond	Make sure you are aiming the remote control at your device and that you are within 25 feet of the device you are trying to control
The remote control does not control TV functions	Follow "Controlling your tv" on page 5 to program the remote to control your TV
The LED blinks 5 times with each key press	The batteries need replacement. Replace the batteries

DEVICE CODES

Your Nova Remote Control can control many brands and models of devices. The following pages list device codes for many brands of devices. Many brands list more than one code, and you may need to test several codes to find the best match for your devices. Your devices may be supported even if your brand is not shown in the list below. If you cannot locate your brand, or none of the listed device codes works, then you may still use the "Auto Search Procedures" on page 7 to try to locate a suitable device code.

AUDIO - AMPLIFIER		LG	33217, 33996	Carver	30189, 30121,
Denon	32706, 32134	Martin Logan	33526		31189
Durabrand	31568	Onkyo	33984, 33992	Coby	31389, 32748,
Halcro	31934	Panasonic	33323, 33409	-	33218
Harman/Kardon	30892, 33045	Philips	33962, 32675,	Curtis	31389
Left Coast	30892		33282, 34012	Denon	32857, 31360,
Marantz	32138, 30892,	Pinnacle	33774, 33728		32516, 33347,
	31892	Speakers			32820, 32279
Memorex	31568	Pioneer	33956	Dynex	32971
Optimus	30823	Polk Audio	33429	Epworth	30121, 31641,
Parasound	31934	Proficient	33661		30158, 30189
Philips	30892	RCA	33969	Gateway	31517
Pioneer	30823	Samsung	32660, 32609	GE	33297
Polk Audio	30892	Sharp	33736, 33097	General Electric	33297
RCA	30823	Sonos	33919	Harman/Kardon	32241, 31304,
Regent	31568	Sony	33700, 32610		32443, 33418,
Sony	33903	SpeakerCraft	33661		30189, 32670
AUDIO - ACCESSORY		Toshiba	33627	Insignia	32175, 31030,
Apple	31115	VIZIO	32454		32169, 32472,
AudioSource	33721	Yamaha	32458, 32021,		32929, 32966,
B & W	33943		33153, 33917		33210, 31077
Bose	33708	ZVOX	32332, 33913,	Integra	31805, 32730,
Boston	33698		32334		31320, 32503,
Acoustics		AUDIO -			30135, 31298
Bowers &	33943	RECEIVER		JBL	32241
Wilkins		Aiwa	30121, 31641,	Jensen	31389
Curtis	33942		30158, 30189	JVC	31676, 32040,
Definitive	33645	Alco	31390		31374, 32331,
Technology		AMC	31077		32239, 31871,
Denon	32502	Anthem	33294		33115, 33274
Dynavox	33231	Anthem	33294	Kenwood	31570, 31313,
Haier	33516	Statement			30186, 31293
Harman/Kardon	33517	Arcam	31189, 30189	KLH	31390
iLive	33175	Audiotronic	31189	LG	32197, 32676,
Insignia	33951	Audiovox	31390		32284, 33285,
JBL	33756, 33535	Bose	31933, 31629,		31293
JVC	33049		33959	Linn	30189
Klipsch	33915				

NOVA
Magnavox	30189, 31189,	Thorens	31189	Aventura	00171		01909, 00672,	Gateway	01755, 01756		01564, 01326,
Ū.	31831	Toshiba	31788, 31123	Baysonic	00180		00154	GE	00451, 01547,		02002, 01423,
Marantz	31289, 32114,	Venturer	31390	Bell & Howell	00154	Daytek	02241		01447, 01347,		01892, 01517,
	30189, 31189	Vtrek	32426	BGH	04029, 00898,	Dell	01403, 01863,		00051, 00178,		00171, 00463,
McIntosh	31289	Wards	30158, 30189		04070, 02414,		01264		00765		01385, 01660,
Micromega	31189	Yamaha	32061, 32467,		00876, 03485,	Denon	00145	General	00451, 01547,		01963, 02184,
Myryad	31189		33030, 30176,		04028, 04030	Digital	01765	Electric	01447, 01347,		02416, 02751,
Nakamichi	31313		31276, 30376,	Blue Sky	02153, 03997	Lifestyles			00051, 00178,		03227
Norcent	31389		33580, 31815,	Bradford	00180	Disney	01892, 01665		00765	Inteq	00017
Nova	31389		31376, 30186	Britânia	02414	Dukane	01398	GFM	00171, 01665,	iRIS	02189
Onkyo	31805, 31320,	Zenith	31293, 32197	Broksonic	00463, 01935,	Dumont	00017		01963, 01886,	IRT	00451, 01661
	32730, 32503,				01938, 01892	Durabrand	00463, 00171,		01864, 01865	iSymphony	03429, 03382,
	30135, 31298	TELEVISION		CCE	03782, 04091,		01570, 01665,	Gibralter	00017		03118, 03094,
Optimus	31023, 30186	888	04159		00623, 04092		00178, 00180	GoldStar	00178		03863
Panasonic	32967, 31275,	Acer	01339, 04143	Celera	00765	Dynex	02049, 01463,	GPX	03980, 03977,	JC Penney	01347, 00051,
	31288, 31633,	Admiral	04030, 03485,	Champion	01362		02184		03196		00178, 00156
	32452, 33055,		04111, 00093,	Changhong	03814, 00765	Electrograph	01755, 01623	Gradiente	01369, 01029	JCM	02189, 02256
	33309, 31763,		00463	Cineral	00451	Electrohome	00463, 01570,	Grundig	00672	Jensen	01326, 03204,
	32745, 32105,	Advent	00761, 01570	Citizen	01935		01670	Grunpy	00180		00761
	31308, 31676	Affinity	03717, 03716,	Clarion	00180	Electron	02466, 02855	Haier	01749, 02309,	JVC	01774, 01601,
Philco	31390, 31831		03870, 03577	Claris	03807	Elektra	00017, 01661		01748, 03382,		02321, 02271,
Philips	30189, 32459,	Aiwa	01362	Coby	03478, 03627,	Element	03559, 01687,		01753, 03429,		01253, 00053,
	31831, 32289,	Akai	00702, 01675,		02315, 02344,		02183, 02964,		02293, 02876,		03650, 00463,
	31266, 32311,		00812, 01385,		02306, 02314,		01886		03987, 04120,		01670, 03841,
-	31189		00672, 01935,		02345, 01634,	Elite	03867		01570, 03204		04070, 02264,
Pioneer	31123, 31935,		00765		02338, 02326,	Emerson	01864, 01394,	Hallmark	00178		00650, 01892
	31384, 32432,	Alfide	00672		02340, 03629,		03623, 00171,	Hannspree	01348, 02786,	KC	04182
	31023, 32612	America	04179		01538, 02347,		00463, 01963,		01351	KDS	01498, 01687
Polk Audio	31289, 30189	America Action	00180		02348, 03202		00180, 01913,	Harvard	00180	KEC	00180
Proscan	31254	Anam	00180	Commercial	01447		01886, 00178,	Havermy	00093	Ken Brown	04056, 04099
RCA	31254, 32041,	AOC	01589, 03720,	Solutions	00400		01944, 00623,	H-Buster	03620, 03419	Kioto	00785
	32611, 32426,		01365, 02014,	Contec	00180		01661, 01665,	Helios	00865	KLH	00765
	33297, 32655,		04170, 02087,	Contex	04053		02183, 00451,	Hello Kitty	00451	Kolin	01240
	31123, 31390,		02402, 01590,	Continental	01682, 03321,		01909, 00154,	Hewlett	01642	копка	01939, 01385
	32719, 33281,		02479, 02621,	Orafiaratal	04179	F	03559	Packard	04470 00400	Kreisen	00876
0	31023		04184, 04185,	Continental	03322, 03321	Emprex	01705	Himitsu	04179,00180	KIV	00180
Samsung	31868, 32809,		03707, 04101,	Electric	00044	Encross	010070	Hisense	03519, 02183,	Legena	02397, 02309
	33154, 32137,	A	04169, 04173	Coradir	02844	Envision	01589, 01365,		01000, 02098,	Lexus	03038
Canauli	31500, 31304	Aomni Anov Disital	01023	Craig	00180, 03423		02087, 02014,		01314,00748,	LG	02/31,01423,
Sansu	30109	Apex Digital	00749 01017	Crown Mustan	00100,00072	Frees	02021	l lite ehi	03362, 04029		01009, 02000,
Sharp	JU100 21077 21005		00740,01217,	Crown Mustang	02577 02855	Epson	01122	пцаспі	01045, 03044,		00170, 03941,
Sherwood	310/7, 31903,	Aria	00090	Curtis	03577, 02055,	Epworth	01002		00145,01145,		03397,04017,
	31317, 32109, 33100	Ano	02397		03121, 02400,	EQD	02014, 02007,		01343, 03039,		02424, 01200,
Chamusad	33120	Astar	01730,01331		02352, 03095,		02277		02433,03097,		03979,01753,
Sherwood	32109	Asus	03340		02397, 03939,	EQD Auria	02014, 02007,		00079,02210,	LodainaCtor	02012,00017
Newcasile	21600 21750	Alvio	03030, 03030,		01020, 00000,	ECA	02277	Llitach	02901	LougingStar	00164 00166
Sony	20150 20170 20150 20170	Audinaa	00000		04035, 01314,	ESA	00012,00171,	HILECH	01002,01014,	LAI	00134,00130,
	JUIJO, JZITZ, 21750, 21000	Audiovov	00100		02009, 00220,	Eair Mata	01944, 01903	Litakar	04179,04100		00170,00017,
	31/30, 31022,	Audiovox	02413,00073,	Curtic Mathee	00302	Fail Male	01320		03110	MAG	01047
	32473, 31030,		01564 01868		01661 00093	Fisher	00002	Hyundai	03/18 0181/	Magnasonio	01007,01490
	32322, 32000,		01004, 01000,		00145 00154	Fluid	00104,01002	il o	01665 01694	Magnavov	01866 02622
	33/56		01210,01100,		01347	Frigidaira	02304	ILU	01000, 01004,	waynavux	01000, 03023,
Staraonhonico	31023		01709, 02121,	CXC	00180	Funai	02231		01286 0120/		02372, 02397,
Sunfire	31313		00000, 00401,	Cytron	01326		00180 01271	Imperial	0/1200, 01004		019/14 01913, 019/14 01062
Teac	31300	Διιτία	02023		01661 00623		01304 01063	Initial	01000		01244, 01303,
Technice	31308 31633	Aulia	02007, 02014,	Daewoo	00451_00661	Futuretech	001304, 01303	Insignia	02040 01641		03708 00171
10011103	01000, 01000		02211		00-101,00001,		00100	maigina	52075, 01071,		00100,00111,

12

13

	01365, 00051,	Norcent	01365, 01589,		01498, 01276,	Samsung
	01755, 01867		00748, 01590		01538, 01385,	
Magnum	04179	Nordmende	03419, 03861,		01767, 03942,	
Marantz	01398, 01454		03134, 03327,		04035, 01687,	
Matsushita	00051, 00250.		03767.03835		02121, 00765.	Sansei
	00650	Norwood Micro	01286		00865 01314	Sansui
Maxent	01755 01757	NuVision	02158 01657		01766 04074	Carloa
MB Quart	01868	Ölevia	01610 01240		01286 01326	
Megatron	00145 00178	olovia	01331 01144		02002	
Memorey	00463 01570	Onwa	00180	Portland	01661 00451	
WEITIOLEX	00400,01070,	Ontimus	00100	Drimo	01753 00761	
	01070, 01330,	Optillus	00230, 01327,	1 IIIIa	01730, 00701,	
	01665 00150		01913, 01924,	Driam	00051	0
	01003, 00130,		00134, 00030,	Dragoon	00001	Sanyo
	00104,01007,	Ontinue	00079	FIUSCAII	02103, 03302,	
MOA	01924, 01927	Optique	02109		03377, 02230,	
MGA	00150, 00178	Optonica	00093		01447, 03332,	
Microsonic	01326, 02483,	Orion	00463, 01463,		03717, 03895,	Sceptre
	03328, 03419,		01938, 03485,		03939, 01347,	
	03679		01892, 03540,		02147, 02746,	
Midland	00017, 00051		03650		03429, 03636,	
Mintek	01990	Panasonic	01480, 01291,		04035	Scotch
Miray	03847, 02414,		00250, 00650,	Proton	00178	Scott
	02429, 03183,		02264, 00051,	Proview	01687, 01498	Sears
	04176, 04177,		01927, 01947,	Pulsar	00017	
	01814, 03322,		01636, 01924,	Pyle	02196	
	00785, 03485,		01941, 03825,	Pyle Home	02196	Seiki
	04178,00898,		00053, 00093,	QuantumFX	02337	Conta
	03309.03321		00145, 00150,	Quasar	00051.00250.	
Misakai	00171		00154,00156.		01291, 01927.	Seiko Enson
Mitsubishi	01250 00150		00178 01271		01924 03899	
Flectric	00178 01797		01347		00650	Seleco
LICOUIO	00093	Panavideo	03679	RadioShack	00180 00178	Semivox
Mitsui	04179 03658	Panavox	04057	radioonaon	00154	Semp Carry Taskik
WIIGUI	03638		02104	RCA	02746 02032	Semp Tosniba
Motorola	00000	Ponnov	02104	NOA	02/40, 02002, 00000000000000000000000000000	
Multitoch	00093	renney	01347,00031,		0/2434, 01447,	Sens
MUILLECT	00100	Dhiles	00176,00130		04214,02247,	Serie Dorada
NAD	01130, 00130,	Philico	03420, 02414,		03077,01701,	Sharp
Marin	UU1/0		03039, 03097,		UZ107, U338Z,	
Naxa	02104, 04093,		01665, 00171,		01547, 01347,	
	03154, 03382,		01029, 01271,		03717, 03332,	
	03423		01963, 01394,		00679, 02403,	Sheng Chia
NEC	01797, 01704,		01661, 00145,		01661, 02429,	Sigmac
	01398, 00876,		01362, 00463		03147, 03378,	Silo
	02293	Philips	01867, 02372,		03419, 00093,	00
NetTV	01755		01454, 01455,		01385, 01868,	Silo Digital
New Acoustic	01156, 00156,		02374, 02597,		02002, 02183,	Olio Digital
Dimension	00178		02708, 01744,		02855, 03938,	Síragon
NEX	01814		01866, 02622.		03939, 00051,	Silayun Salá
Nexus	02183		00690, 00017.		00090, 03121.	Sonoview
Electronics			03623.00171		03636, 04093	Soneview
Nikko	00178 00017		01944 01365	Realistic	00154 00180	Sony
	01347 00154		01000 01301	1 Coulouo	00178	
	00156		01580	Pecco	03847 00808	Soundesign
Nimbro	02104	Dioneer	01000	Necco	0181/ 03183	Soyo
Nobley	02104	TIONEEL	01407,00079,	Dovolution	01614, 03103	Spectroniq
NODIEX	01302,03097,	Dianar	01200,01390	RevolutionHD		Speler
	04029, 03803,	Planar	000/9,01509	KUNCO	01390, 00017	Squareview
	04030, 00154	Polaroid	01523, 01769,	Sampo	01/55	SSS

Comouna	02051 00912	Ctarlita	00190	Vidikrop	01209
Samsung	02031,00012,	Stanite	00100	Vidtoch	01390
	01032, 03993,	SII SunPritoT\/	03733	Viowconio	00170
	00702,00700,	Sumblikerv	02537, 01010,	VIEWSOITIC	02014,02007,
Sancoi	0/030,00170	Superscan	02320		01330 01627
Sansui	04030, 00431	Superscari	00004,01344,		016/0 01755
Janjau	03540 01670	Supersonic	00033,00171		01040,01733,
	01035 01463	Supersonic	03333, 03134,		02043, 02111,
	03564 01938		03595 03204		01542 01564
	01409 04053		03894		01578 01742
	03377 00171	SVA	00748 00865		01365
	03559	•	01963	Viore	02352, 03382.
Sanvo	01142.01362.	Svlvania	01864.01886.		03118, 03429,
, , , , , , , , , , , , , , , , , , ,	00154, 03488,	-,	00171, 01963,		02104, 03863,
	03697, 03861,		01944, 01913,		02496, 03094,
	00799, 00088		01394, 01665,		01684, 03594,
Sceptre	03899, 02528,		01271, 01314		03154
	02337, 01217,	Symphonic	00171, 01913,	VisionQuest	03154
	01360, 04139,		01944, 01963,	Vivitek	01369
	00878		01394, 00180	VIZIO	01758, 03758,
Scotch	00178	Syntax	01610, 01240,		02707, 02757,
Scott	00178, 00180		01144, 01331		03415, 02512,
Sears	00154, 00156,	Tandy	00093		01756, 00864,
	00171, 00178,	Tatung	01286, 02496,		00885
.	01547		01756	Vuon	03418
Seiki	03953, 02964,	TCL	02434, 03183,	Wards	00178, 00017,
	03559, 03560,		02429, 03426,		00156,00051,
0.1.5	00178		03847, 04176,		01156, 01347,
Selko Epson	01122		04177, 02414,	14/	00154,00180
Seleco	01351		03047, 00898,	Waycon	01710 02570
Serrivox	00100	Tashnisa	02403, 04170	westinghouse	01/12,000/9,
Semp Tashiha	01743,00130	Technics	00051,00250,		03302,00003,
Semp rosmua	01743, 03793,		00017,01347,		01300, 03949,
Sons	01865	Techwood	00050		02235, 05034,
Serie Dorada	03814	Teknika	00180 00150		00890 01282
Sharn	02360 00818	Telefunken	02414 00702		02397 03908
onarp	02951 03394	lololalikoli	04025		00451 00463
	01602, 02402,	ТМК	00178		01217
	03867.00093	TNCi	00017	White	00623.01661.
Sheng Chia	00093	Tophouse	00180	Westinghouse	01909, 00463,
Sigmac	03477, 03423	Toshiba	01524, 01656,	0	01913
Silo	03794, 03477,		02724, 00156,	Wyse	01365
	04182		03134, 01156,	Xoceco	01753, 00761,
Silo Digital	03794, 03477,		01256, 02006,		01749
	04182		01935, 01945,	Zenith	00017, 00178,
Síragon	04057		02684, 01743,		01145, 01265,
Solé	01623		03469, 01704,		01859, 01423,
Soneview	04179		00650, 01369,		00145, 02612,
Sony	00810, 01300,		01265, 00093,		01661, 02731,
.	01685		00154		01365, 01909,
Soundesign	00178,00180	Trulech	01665, 01723		02358, 00463
S0y0	01520	TVS Unotor	00403	TUCOMPO	
Spectroniq	01498,01687	Upstar	0410Z		00462
Squareview	04041	US LUGIC	01200	Advont	00403
Squareview	00171	Victor	01000, 01000	Affinity	01370
000	00100	VIGLUI	00000	Aminy	00010,00111

14

Akai	01675, 01935	JVC	02271,01601,	Sceptre	02528, 04139,	Craig	20831	l oaitech	22639		20744 20490
America Action	00180		01670.01774.		02337	Curtis	22235 23052	Magnavox	20675 21354	Sanvo	20670
AOC	04173		01253	Sens	01865	Curtis Mathee	22200, 20002	Magnavox	20503 20646	Schneider	206/6
Anex Digital	00765	Ken Brown	04099	Sharn	00818 00093		22001, 20020		20303, 20040,	Schilleluel	20040
Aetar	01531	Konka	01030	onarp	02360	Daewoo	20033, 21109,		23400, 21300,	Semp	20505
Audiovov	01965 02/12		01333	Suparcoon	01044	_	20869		20539	Semp Tosniba	20503
AUUIOVOX	01003, 02413,		02731,01423	Superscall	01544	Days	22857	Marantz	22481, 20539,	Sensory	21158
	00100, 01700,	LAI	00104	Supersonic	03093, 01753,	Denon	22258, 22748,		22414, 23444	Science	
	01769, 03065,	wagnasonic	01913		02104, 03595,		20490	McIntosh	21273	Sharp	20630, 22250,
	01868	Magnavox	02597, 01913,		03894	DigitalMax	21738	Memorex	22213, 20831,		20675
Blue Sky	02153		01963, 01944,	Sylvania	01963, 01944,	Diplomat	22814		23153, 21270,	Sherwood	23052, 23837.
Broksonic	00463, 01935,		02372, 01866,		01913, 01886,	Directed Video	20717		22331	0.101110004	23925
	01938		03708, 01454,		01864, 01394	Dispov	20675 21270	Microsoft	22001	Sonia Pluo	20020
Citizen	01935		00051, 01990	Symphonic	01913, 01944,	Durphrond	20013, 21210	MIGIOSOIL	22003, 22021,	Some Dide	20003
Coby	02315, 02344,	Memorex	01938, 00463,		01963	Durabranu	23404	Martal	20322	Sony	21010, 21000,
,	03627, 02340,		01670.01924.	Toshiba	02006. 01935.	Dynex	22596	Mintek	20/1/		21033, 20864,
	01538 02347		01927		01945 02684	EletroVision	22822	NAD	20741		21070, 20772
	03202 02314	Mintek	01990		03469 01524	Emerson	20675, 22213	Naxa	22235	SV2000	20675
Continental	03321	Mitsuhishi	00093 00150		00156 01256	Fisher	20670	Nesa	20717	Sylvania	20675
Electric	00021	Electric	00033, 00130,		01656	Funai	20675	New Acoustic	20741	Symphonic	20675
Caradia	00044	Lieculic	00170	Venturer	01050	Gateway	21158	Dimension		TĆL	22587
Coradir	02044	Naxa	02104, 03302	venturer		GE	20717 20522	NKS	22834	Teac	20790
Curtis	02855, 03895,	NIKKO	00154	Viewsonic	02049, 00864	Conoral	20717,20022	Ölovia	22004	Tochnice	20/00 20703
	02466, 04035,	Nimbro	02104	Viore	03429, 02352,	Cleatria	20111, 20322	Orlevia	22001	Techinos	20430, 20703
	02559, 03636	Nordmende	03835		03094, 02104,	Electric	00075	Опкуо	22147, 21027,	Toshiba	23157, 22705,
Daewoo	01909	Optimus	01927, 01913,		03382, 03118	GFM	20675	-	20503, 21769		20503, 23857,
Durabrand	00463, 00171		01924	Westinghouse	01300, 01712	Go Video	20869, 21044,	Орро	22545, 21224		22277, 22006,
Dynex	02049, 02184	Orion	01938, 01463	White	01909, 00463,		20741, 21075,	Panasonic	21641, 23641,		21510, 21769,
Electrohome	01670	Panasonic	01927, 01947,	Westinghouse	01913		20744, 20833,		20490, 21579,		21608, 22364
Element	02964		01924, 01941,	Xoceco	01753		21158. 20717		20703. 20503	TruTech	20675
Emerson	01886 01864		00250 01291	Zenith	00017 01909	GoldStar	20741 20869	Philco	20675 20790	Urban	20503
Emoroom	01063 01013		01636 01480	Lonia	00178	GPX	22235	Philips	22056 22434	Concents	20000
	01303, 01313,		00051 00003		00110	Groonhill	20717	i illips	22030, 22434,	Vonturor	20700
	01204 01000		00031,00033,			Greenin	20/11		20040, 21334,		20790
	01394, 01909,	Dhiles	00170,03023	VIDEO - VCK	00700	Grunaig	20539		20539, 21500,	VIZIO	22503
504	00171	Philco	01903	Humax	20739	Harman/Kardol	1 20702, 20582,		23488, 20503,	Vtrek	22587
ESA	01944, 01963	Philips	02597, 01394,	Philips	20739		21229, 22927,		22084, 20675,	WB Electronics	22555
Favi	03382		01455, 02372	liVo	20739		23228		21158	Xbox	22083, 22627,
Funai	00171, 01394,	Polaroid	01769, 01523,			Hello Kitty	20831	Pioneer	22442, 22854,		20522
	01963		01538, 03942,	VIDEO - DVD		Hitachi	20664, 20573		21571, 20142,	Yamaha	22298, 20497,
GE	00051		01766, 04074,	Accurian	20675, 21416	Hiteker	20672		20631		20539, 20545.
General	00051		02002	Alco	20790	Initial	20717	Polaroid	21013		20490 21354
Electric		Prima	01753	Allegro	20869	Inciania	22506 22005	Polk Audio	20530		206/6 23837
GFM	01963	Proscan	02256, 03895,	Amvox	22840	Insignia	22000, 22000,	Dracidian	20000		20040, 20007,
GoldStar	00178		03429, 03636	Apex Digital	20672.20717		22420, 20073,	Presidiali	20075, 21750	7	21410
GPX	03980 03977	Pvle	02196	Asahi	22615		21013, 20741	Proceed	20672	Zenith	20741, 20869,
OI X	03196	QuantumEX	02337		22555	Integra	22147, 21769	Proscan	20522		20503
Hajar	01752 02200	Quantum X	02007	Audiovov	22000 20717	Irradio	20646	RCA	20522, 21013,		
I Idlei	01755, 02505,	Quasai	00031,01927,		20190, 20111	JBL	20702		22919, 22587,	BLU-RAY DISC	
	03429, 01749,		01924,00200	DDN	21224	JVC	22365, 22855,		22213, 20717,	Curtis Mathes	22331, 23925
	01/48	RCA	04214,02187,	Bel Canto	21571		20623, 21164,		22871, 21769.	Denon	22258, 22748
Hisense	03519		02746, 02932,	Design			20867 21602		23464 20790	Harman/Kardor	22927 23228
Hitachi	03644		02247, 00093,	Blaupunkt	20717	Kawasaki	20001, 21002	RE-BI	22555	Inciania	22506 22/28
iLo	01990		01868, 02002,	BuBuGao	21224	Kanwasaki	20130	RE-DE Dio	22000	Insigina	22030, 22420,
Initial	01990		03382, 00051,	California Audio	20490		20004, 20400	Detel	20003	Integra	20010
Insignia	02049, 01641,		01447	Labs		KLH	20/17,20/90	Rotel	20023	integra	2214/
-	01963, 02002,	Samsung	02051	Cinea	20831	Konik	22691	Samsung	20199, 20573,	JAC	22365, 22855
	02416, 02751,	Sansui	01670, 01935,	CineVision	20833, 20869	Lenoxx	22213		22069, 21075,	Lexicon	22545
	03227, 01326		03564, 01938	Coby	22494, 22746.	Lexicon	22545		21573, 21470,	LG	21602, 20741
	01517 01892		03377	,	21351 20672	LG	21602, 20741,		22113, 22269,	Magnavox	20675
iSymphony	03429 03094	Sanvo	03488	Courar	22693		20869, 22135		22369, 22329	Marantz	22414, 23444
Simpliony	55720, 0000 1	Sunyo	00100	Cougui	22000	LiteOn	21738, 21158		22489, 21044	Memorex	22331
							· · · · , _ · · · • • ,		· , _ · • · · · ,		

21416

22627

Microsoft

22843. 22556.

Ölevia Onkyo Oppo Panasonic Philips	22331 22147 22545 21641, 23641 22434, 22084
Pioneer	22854, 22442,
RCA	20142 23464
Samsung	20199
Sharp	22250
Sherwood	23052, 23837,
	23925
Sony	21516, 20772
Sylvania	20675
Toshiba	23157, 23857,
	22705
VIZIO	22563
Xbox	22627
Yamaha	22298, 23837

Declaration of Conformity

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	 Federal Communication Commission Interference Statement 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 Rules. These limits are designed to provide reason- able protection against harmful interference in a 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 cormunications. If this equipment does cause harmful interference will not occur in a particular installation. If this equipment does cause harmful interference will not occur in a particular installation. If this equipment does cause harmful interference will not occur in a particular installation. In this equipment does cause harmful interference will not user is encouraged to try to correct the interference by one 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 circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. 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. The user is cautioned that changes and modifications made to the equipment. Déclaration de la Commission fédérale des communications (FCC) sur les Interferences Cet appareil a été testé et reconnu conforme aux limites pour appareils numériques de classe B, selon la partie 15 des règlements de la FCC. Ces limites sont destinées à formir une protection adéquate contre les interférences nuisibles aux communications radio. Il est cependan
	Cet appareil est conforme à la partie 15 des règlements de la FCC. Son utilisation est régie par les deux conditions suivantes : (1) cet appareil ne doit pas produire d'interférences nuisibles, et (2) cet appareil doit accepter toute autre interférence, y compris celles qui pourraient entraîner un fonctionnement non souhaité. L'utilisateur est prévenu que les changements ou modifications apportés à l'équipement sans l'autorisation du fabricant pourraient annuler le droit de l'utilisateur à utiliser cet équipement.

Declaration of Conformity (Continued)

Notes

÷	For Industry Canada Industry Canada statement
	This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:
A	(1) this device may not cause harmful interference, and
	(2) this device must accept any interference received, including interference that may cause undesired operation
	Pour Industrie Canada
	Déclaration d'Industrie Canada
	Cet appareil est conforme à la norme RSS-210 d'Industrie Canada. Son utilisation est régie par les deux conditions suivantes :
	(1) cet appareil ne doit pas produire d'interférences nuisibles, et
	(2) cet appareil doit accepter toute autre interférence, y compris celles qui pourraient entraîner un fonctionnement non souhaité.



Entone Nova 4-in-1 Universal Remote Control Basic User Guide (NA/LATAM)



Overview

Your new Entone Nova universal 4-in-1 remote operates your Entone and other set-top boxes and up to three other devices. This remote can provide additional features including support for DVR.

Support Notes:

Description:

The Nova remote requires minimum version of firmware in the Entone STB to be supported noted below:

- 2.6.33.1-mvn
- 10.5.105.1-mvn
- 3.3.8.1-mvn
- 1.6.5.1-mvn

Also, the Nova Remote is designed to support Broadcom based STB's and limited support for Sigma STB's. For Broadcom versions, the RC will support both IR and RF; however, for Sigma based Hydra and Amulet-D series, the remote will only work in IR mode. RF requirements for Sigma-based STBs should continue to use the Entone URC.

For customers that have questions regarding these supported versions or other requirements, please contact Entone Support.

Installing Batteries

This Entone remote requires 2 AAA batteries (included). Please remove battery case cover and follow installation diagram inside the battery case area.

When replacing batteries, ensure new batteries are of high quality to provide for best service. Note, the remote upon removal of batteries, will retain all settings for up to 15 minutes.

Device Control

Each device key located at the top of this remote, controls a particular device. To specify a device, review the device codes listed at end of the user guide and complete the following:

- 1. Press and hold the device key (TV, STB, DVD, AUX) until the LED lights up and remains on.
- 2. Enter the five-digit code.
- 3. If the remote recognizes the entered code, the user can press power to determine if the entered code is correct. If no response, then please enter next code for the device brand chosen.

Using Your Remote

Select device you wish to control by pressing one of the device keys located at the top of the remote (TV, STB, DVD, AUX). The device key will blink to acknowledge choice and key functions will work as pressed.

Operational Notes

- 1. This Entone remote introduces 4-new buttons supporting high-value customer usages including (DVD, LIVE TV, MEDIA, VOD) that may require mapping. Please review the following as necessary:
 - All color buttons will work similarly to the URC3.x and URC4.x.
 - For Broadcom based STB, the following INI option is required if operator desires to map these four buttons to the color buttons

HDB72_PVR_KEY_REMAP=0x4b # Map DVR/PVR key to RED, thinkstuff key code:0x4000084 HDB72_DTV_KEY_REMAP=0x49 # Map DTV/LIVE TV key to GREEN, thinkstuff key code: 0x4000085 HDB72_MEDIA_KEY_REMAP=0x4a # Map MEDIA key to YELLOW, thinkstuff key code: 0x4000086

HDB72_VOD_KEY_REMAP=0x4c # Map VOD key to BLUE, thinkstuff keycode: 0x40000087

• For Sigma based STB, there is no action required as these four buttons will be mapped to URC3.x button below:

VOD 0x40000124 same as MOVIES in URC 3.x
DVR 0x40000002 same as RECORD-IT in URC 3.x
Live TV 0x4000009d same as DTV in URC 3.x
Media 0x4000000c same as Media in URC 3.x

- 2. Another important note is that the Nova RC differs from the previous URC remotes in the process of triggering the Entone boot menu. For the Nova RC, please press ".+menu" while the URC remotes required "input+menu".
- 3. It is also important to note that the Nova remote control has a faster repeat rate than the URC and as a result, some customers may see notice the STB receiving two keys when a key is pressed. Entone recommends resolution by either
 - Increasing the "URC Key Delay Second" for each STB, or
 - Using the following INI options

```
HDBCM_KEY_DELAY_TIMEOUT=500000 #500ms
HDBCM_KEY_SIMULATE_TIMEOUT=400000 #400ms
HDBCM_KEYUP_TIMEOUT=350000 #350ms
```

If customer still reports multiple key presses, it is recommended to increase the timeouts as follows:

HDBCM	_KEY_	_DELAY_	TIMEOUT=800000	#800ms
HDBCM	_KEY_	SIMULA	ATE_TIMEOUT=400000	#400ms
HDBCM	KEYU	JP_TIME	EOUT=350000	#350ms

Note: This setting applies only to a deployed STB and that once this option is added, the bootmenu "URC Key Delay" setting will be ignored.

If you have any questions, please contact Entone support.

Common Usage Requests

This section provides programming sequences for common requests by the RC user. Additional details as well as other features are available in the Operational Features section of this document.

Remote Registration

Description:

Nova remote supports both IR and RF and registration allows user to set for IR or RF. By default the remote is in IR mode.

Programming Sequence:

To register the remote to the STB and use RF:

- On the Janus 300 or Amulet 550, press and hold the ""OK"" button on the front panel 5 seconds until the touch panel backlight is flashing
- Press and hold <<SETUP>> and <<STB>> keys together until the STB and AUX LEDs illuminate
- Press <1> or <2> for primary and secondary stream

To reset the Nova remote back to IR mode, here is the steps

- Press and hold <<SETUP>> and <<STB>> keys together until the STB and AUX LEDs illuminate
- Press <0>

Volume key to STB

Description:

Provides means to support volume on the STB as by default the volume -/+ and MUTE are directed to TV.

Programming Sequence:

To direct the volume and MUTE keys to the STB:

- Press and hold <<SETUP>> key until the LED blinks twice
- 2. Press <</MUTE>>

The STB LED will blink 4 times at which time VOL +, VOL – and MUTE are sent to the STB.

Learning Function

Description:

Learning capacity provides the opportunity to control devices not originally designed for the remote control creating increased support for multiple devices. The NOVA remote can receive and store codes transmitted by another device's remote control such that the other device will understand the button requests from the NOVA remote.

Notes:

- Only available in IR mode
- The Record key is excluded in the learning process

Programming Sequence:

- Press and hold <<SETUP>> key until the LED blinks twice
- Press <9>, <7>, <5>
- Press <<TV>> or <<AUX>> key [depends on the teaching remote]
- Hold the teaching remote close to the IR LED
- To learn the following keys (MENU, VOL+, VOL-, INPUT...)
- Press <<MENU>> key
- Continuously press the MENU key on the teaching remote until LED blinks twice
- Repeat step #5 and #6 with VOL+, VOL-, INPUT and some other keys
- Press and hold <<Setup>> key until the LED blinks twice

Key Operational Features

Library Search: Step N Set (Bi-Directional)

Description:

Allows the user to search for a code from the library of codes bi-directionally.

Programming Sequence:

[Mode] → <<SETUP>> (2 blinks) → <9> (1 blink) → <9> (1 blink) → <1> (2 blinks or Blink Error) → [Test Functions] → <Channel Up or Channel Down> (1 blink) → <SETUP> (2 blinks or Blink Error)

LED User Feedback:

- One blink if valid mode key (same as Current Mode) is pressed.
- Three blinks upon completion of searching one complete revolution in either direction.
- Two blinks after last <SETUP> indicates programming success, return back to normal operation.
- The unit shall exit programming state and return to the last preprogrammed code if programming timeout has elapsed.
- Blink error after 991 if Dedicated Mode and ID Locked Mode.

Additional Information

- Library Search is not available for STB mode

-If no key is pressed before **Ch up/Ch down** then the default function is to be power.

-User can sample all Functions (0, 1, 2, 3, Power, Volume up, Play, Stop, Mute), the last function that was sampled before the Ch up/Ch down key was pressed will be the designated function to send for each Ch up/Ch down key press.

-After each Ch up/Ch down key press, the user can sample FUNCTIONS again to setup designated functions for Ch up/Ch down key presses.

-In the event that the device code for a particular target unit is unknown, the user shall be able to cycle the remote through the available codes for that device mode and sample functions from each code in order to find the code which properly operates the desired target device. The keys which are available to be sampled (also called FUNCTION here below), provided they are appliSTB to that mode are: 0, 1, 2, 3, Power, Volume Up, Play, Stop and Mute.

-The available FUNCTIONS within a code may be sampled as many times as desired until advancing to the next code by pressing the CH UP key or returning to the previous code by pressing the CH DOWN key. After sampling FUNCTIONS (0, 1, 2, 3, Power, Volume Up, Play, Stop and Mute), the user can continue the search with the previous (CH DOWN) or next (CH UP) code which will send the FUNCTION that was pressed originally after 991.

-The search functions initial "cold start" (when no code is programmed) begins with the most popular brand of equipment to the least popular for the TOP 25 ID's. The IR will illuminate each time a function is sent (when picked with IR). For the remaining ID's it goes sequentially. If the search function is activated after a code has been programmed in, the search cycle begins with the current programmed ID. Pressing either the CH UP or CH DOWN key, will increment or decrement to the next table entry and transmit the power (or other) FUNCTION associated with the currently selected table entry and wait for another

CH UP or CH DOWN key. The Mode LED will blink twice after successful completion of the programming sequence.

-The key function that will be sent out upon pressing <CH UP> or <CH DOWN> is dependent on the FUNCTION selected in the programming sequence above. Repeat pressing <CH UP> <CH UP> <CH UP> (to increment) or <CH DOWN> <CH DOWN> <CH DOWN> (to decrement) until the device responds. The scanning of manufacturer's codes will be circular and completes one revolution. The CH UP key will increment through the database and the CH DOWN key will decrement through the database.

-Scanning of the database will be circular, making one complete revolution in both directions. Once it reaches back to the original ID, it first transmits IR, the mode LED shall blink 3 times and will remain in the Step-N-Set mode.

-Pressing Setup listed at the end of the sequence will store the device code which was last sampled. The remote control exits library search mode with the current device code. The mode LED blinks twice in confirmation. The remote returns to normal operation.

-During the library search process, if 10 seconds has elapsed and no key presses are made the remote will exit library search. The remote control shall be defaulted to the previously programmed valid ID under one of the following conditions:

1. No code selected during the library search process. Any new scans will begin from the last valid stored manufacturer's code.

Note: The user should check before selecting one of the FUNCTION keys (0, 1, 2, 3, Power, Volume Up, Play, Stop and Mute) if the target device has such a key on the original remote control.

Example:

To search for a TV code using Volume Up as the function key, advancing forward in the database:

[TV] → <<SETUP>> (2 blinks) → <9> (1 blink) → <9> (1 blink) → <1> (2 blinks or Blink Error)→ [Volume Up]→ <Channel Up> (1 blink)→ <Channel Up> (2 blinks or Blink Error)

To search for a DVD code using Play as the function key, advancing in reverse:

[DVD] → <<SETUP>> (2 blinks) → <9> (1 blink) → <9> (1 blink) → <1> (2 blinks or Blink Error)→ [PLAY]→ <Channel Down> (1 blink)→ <Channel Down> (2 blinks or Blink Error)

Quick Swap – STB only

Description:

This feature will allow the remote control to be predefined (default setting) or programmed by user Favorite ID code list for specific mode. Each mode can have its own Favorite ID code list. Quick Swap programing (using 985 sequence) is allowed all devices for storing STB IDs only.

Default Setting: STB default setting: C4437

Action Keys

Action Key	Brand	Default STB ID
A/Yellow	Entone	C4437
B/Blue	Amino	C1898
C/Red	ADB	C2254
D/Green	WNC	C3118

Programming Sequence:

a. Setup Favorite ID list of [Mode]

[Mode] (1 blink) $\rightarrow <<$ SETUP>> (2 blinks) $\rightarrow <$ 9> (1 blink) $\rightarrow <$ 8> (1 blink) $\rightarrow <$ 5> (2 blinks)

 \rightarrow <A/Yellow> (1 blink) \rightarrow <ID Code> (2 blinks or Blink Error)

→ <B/Blue> (1 blink) → <ID Code> (2 blinks or Blink Error)

 \rightarrow <C/Red> (1 blink) \rightarrow <ID Code> (2 blinks or Blink Error)

→ <D/Green> (1 blink) → <ID Code> (2 blinks or Blink Error)

 \rightarrow <<<SETUP>> (2 blinks)

Note: if Blink Error occurs then the programming will exit immediately.

b. Clear Favorite ID list of [Mode] [Mode] (1 blink) $\rightarrow <<$ SETUP>> (2 blinks) $\rightarrow <$ 9> (1 blink) $\rightarrow <$ 8> (1 blink) $\rightarrow <$ 5> (2 blinks) $\rightarrow <$

LED User Feedback:

- One blink after valid key press
- Blink error, exit Quick Swap programming state if:
 - After invalid action keys.
 - Any key is pressed besides a digit keys during entering ID Code.
 - Invalid ID Code (after last digit) assigned into action key.
 - Memory in Data Retention is full after last <<SETUP>>
- The unit shall exit Quick Swap programming state and return to the last preprogrammed code if programming timeout has elapsed.

• Two blinks after successful entry of a valid ID and after last <<SETUP>> indicates programming success, return back to normal operation.

Additional Information

- If user clears the favorite ID list, it will return to the 4 default codes.

-If product is in RF mode, using Quick Swap will switch to IR mode (Switch to programed ID)

Invalid Action Keys	
	Power
	Mode Keys: TV, STB, DVD, AUX
	Setup

Example:

a. Setup Favorite ID list of SAT mode: [STB] (1 blink) $\rightarrow <<$ SETUP>>(2 blinks) $\rightarrow <9>$ (1 blink) $\rightarrow <8>$ (1 blink) $\rightarrow <5>$ (2 blinks) $\rightarrow <A> \rightarrow <10000>$ (2 blinks, 10000 is a valid STB ID) $\rightarrow \rightarrow <10010>$ (2 blinks, 10010 is a valid STB ID) $\rightarrow <C> \rightarrow <11376>$ (2 blinks, 11376 is a valid STB ID) $\rightarrow <D> \rightarrow <11306>$ (2 blinks, 11306 is a valid STB ID) $\rightarrow <$ SETUP>> (2 blinks)

b. Clear Favorite ID list of STB mode [STB](1blink)→<<SETUP>>(2blinks)→<9>(1blink)→<8>(1blink)→<5>(2blinks)→<<SETUP>>(2 blinks)

1) Quick Swap ID change – STB mode only

Description:

Allows user to change pre-programmed ID's. This feature is not affected by ID lock Status and is available for execution whether the ID is Locked or Un-Locked. Quick Swap ID Change is allowed only for Physical STB.

Action Keys

Action Key
A/Yellow
B/Blue
C/Red
D/Green

Programming Sequence: Pre-programmed ID 1 [Mode] (1 Blink)→ <<SETUP + A>> (2blinks)

Pre-programmed ID 2 [Mode] (1 blink)→ <<SETUP + B>> (2 blinks)

LED User Feedback:

- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and the remote control will return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.
- Two blinks after last <<SETUP>> indicates programming success, return back to normal operation.

Example:

To change pre-programmed STB ID's on the A, B and C keys. **[STB]** (1 blink) $\rightarrow <<$ SETUP + A >>(2 blinks) **[STB]** (1 blink) $\rightarrow <<$ SETUP + B>> (2 blinks) **[STB]** (1 blink) $\rightarrow <<$ SETUP + C>> (2 blinks)

Simple Set

Description:

Simple Set is a new style of brand set for quick setup without reference to a code list. Each of the supported device types will have a list of top 10 manufacturers (or broadcasters for the Set Top Box mode). Each manufacturer will be assigned to a digit key, for example for TV: Samsung on digit 1, Sony on Digit 2, Panasonic on Digit 3 etc. For each manufacturer, there will be up to 12 IDs for the device selected, which will be searched through to find the correct match. The IDs will also be sorted by popularity in descending order – i.e. most popular first. The list will be supplied by the UEI Cypress Database team as an appendix to the spec.

Simple set is not available for STB mode.

Programming Sequence:

<<SETUP->>(LED or current physical mode LED will blink twice) \rightarrow <MODE KEY>(LED or current physical mode LED will switch on) \rightarrow <DIGIT KEY>(LED or current physical mode LED will switch off) \rightarrow send Power for ID 1) > (LED will turn ON for the duration of tx) \rightarrow (Send Power for ID 2) LED..) ...(Release Digit Key)

LED User Feedback:

- After pressing a MODE key, any key-press besides a digit key or a digit key not associated in the brand list will cause the unit to display one long blink and exit programming mode.
- The unit shall exit programming state if 10 seconds has elapsed between key presses, remain in the current mode and return to normal operation.
- Once the digit key is pressed LED will go OFF and will blink (ON-OFF) during every code transmitted.
- LED will switch ON once Device key is pressed and remains ON till the digit key press.
- 260ms transmission of power code will be transmitted. Delay between power code transmissions is 3sec. The LED will be OFF during this delay.
- Stuck key timeout is set to 30 sec and is appliSTB to Mode and SETUP keys only.
- During programming if any new key/two key press is found the programming will be aborted with long blink.
- LVW check will happen only during programming entry and while storing the code. If LVW is detected programming will be aborted with error condition.
- The unit will blink twice upon release of the digit key.
- Refer to Programming Sequence section above for more information.

Additional Information:

- Simple Set is not available for STB mode in this Product.
- ID lock on any of the modes will disable UEI SIMPLE SET for that mode. Programming will be aborted after MODE key press if ID lock is detected.
- As the top 10 brand list is hard-coded, it is not possible to upgrade IDs into the lists via 6 Pin.
- If the currently programmed ID is part of brand list, the search will be circular and will begin from (current ID+1) in the brand table, and will end at (current ID − 1). Otherwise the search will start from the first ID to the last ID of the brand table. Please refer the example below. Programming will be aborted once end of table is reached.
- The feature has to scan all the codes present in brand table except the currently programmed code set.
- Only power code will be transmitted during search. The search ID will be skipped if power code is not present in that particular ID
- For device mode where any device type can be programmed, the currently programmed device type will be searched.
- The current device mode of the remote will be changed to new device based on the MODE key press during programming (as per the Nebula Elements project)
- If there is any mode movement, the device mode which is moved will be searched.

See next page for tables

	TV	1	2	3	4	5	6	7	8	9	10	11	12
1	Insignia	T2049	T1641	T1326	T1564	T2184	T2002	T1892	T2416	T0171	T1517	T1660	
2	LG	T2731	T1423	T1859	T2358	T2424	T3397	T3941	T4017	T0178	T0017	T1265	T2612
3	Panasonic	T1480	T1291	T0250	T0650	T2264	T1636	T1927	T1924	T1947	T0051	T1941	T1271
4	Philips, Magnavox	T1867	T1454	T2372	T1744	T1455	T2374	T2597	T1866	т0690	T1944	T1365	
5	Samsung	T2051	T0812	T1632	T0702	T0766	T3993						
6	Sanyo	T1142	T1362	T0154	T3488	T0799	T3861						
7	Sharp	T2360	T0818	T2951	T3394	T1602	T2402	T3867	T0093				
8	Sony	T0810	T1300	T1685									
9	Toshiba	T1524	T1656	T2724	T0156	T1156	T1256	T3134	T2006	T1935	T1945	T2684	T1743
0	VIZIO	T1758	T3758	T2707	T2757	T3415	T2512	T1756	T0864	T0885			

DVD/Blu-ray

1	Insignia	Y2596	Y2095	Y2428	Y0675	Y0741	Y1013						
2	LG	Y0741	Y1602	Y2135	Y0869								
3	Panasonic	Y1641	Y3641	Y0490	Y1579	Y0703	Y0503						
4	Philips, Magnavox	Y2056	Y2434	Y0539	Y0646	Y2084	Y0675	Y1354	Y1506	Y3488	Y0503	Y1158	
5	Pioneer	Y2442	Y2854	Y1571	Y0142	Y0631							
6	RCA	Y0522	Y2213	Y2919	Y2587	Y1013	Y0717	Y2871	Y1769	Y3464	Y0790		
7	Samsung	Y0199	Y0573	Y2069	Y1075	Y1573	Y1470	Y2113	Y2269	Y2369	Y2329	Y2489	Y1044
8	Sharp	Y2250	Y0630	Y0675									
9	Sony	Y1516	Y1633	Y1033	Y1070	Y0864	Y0772						
0	Toshiba	Y3157	Y2705	Y0503	Y3857	Y2277	Y2006	Y1510	Y1769	Y1608	Y2364		

Audio

1	Bose	R1933	R3959	M3708	R1629							
2	Denon	R2857	R1360	R2516	R3347	R2820	M2502	R2279	A2706	A2134		

3	LG	R2197	M3217	R2676	M3996	R2284	R3285	R1293					
4	Onkyo	R1805	R1320	R2730	M3984	R2503	M3992	R0135	R1298				
5	Panasonic	R2967	R1633	M3409	R2452	R3055	R1275	R3309	M3323	R1288	R1763	R2745	R2105
6	Philips	R2459	R0189	R1831	M3962	M2675	R2289	M3282	M4012	R1266	R2311	R1189	A0892
7	Pioneer	R1935	R2432	R1023	M3956	R2612	R1123	R1384	A0823				
8	Samsung	R1868	M2660	R2137	R2809	M2609	R3154	R1500	R1304				
9	Sony	R1622	R1759	M2610	R0158	R2172	M3700	R1758	R1822	R2475	R1058	R2522	R2860
0	Yamaha	R2061	R2467	R3030	R0176	M2458	M2021	M3153	M3917	R1276	R0376	R3580	R1815

Example:

Ex: Brand Table DW 0001 DW 0002 DW 0003 DW 0004

Scenario 1: Programmed codeset 0005 Search → 0001-> 3sec →0002→ 3sec →0003→ 3sec →0004→3sec →End with long blink Scenario 2: Programmed codeset 0002 Search→ 0003→3sec →0004→ 3sec →0001→3sec→ End with long blink

Code Lock/Unlock for TV and STB (982)

Modes:

- TV
- STB

Description:

Allows creator to lock a specific ID in a specific mode so that ID cannot be accidentally reprogrammed by user. This ID will be locked to the physical mode key.

Default Setting:

• ID locked to STB physical key

Programming Sequence:

After a valid code has been set, the code for a specific mode shall be locked and unlocked as follows:

LED User Feedback:

- The unit shall blink 2 times upon being locked and blink 4 times when unlocked.
- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

Note:

Direct Code Setup and all types of code search will not be allowed when the code has been locked or Dedicated Mode. The QuickSwap feature overrides code lock.

Example: To lock the STB ID: [STB] →<<SETUP>> →<9> →<8> →<2> (2 blinks)

To unlock the STB ID: [STB] →<<SETUP>> →<9> →<8> →<2> (4 blinks)

Simple Volume Lock

Description:

Alternative options for setting the volume lock and unlock status for available devices without requiring a 9-X-X sequence.

Programming Sequence:

Global Volume Lock: <<SETUP>>→LED will blink twice<VOLUME UP> →LED will blink once <Target Device (e.g. TV)> LED will flash 2 times

Device Specific Un-Lock: <<SETUP>>→ LED will blink twice <VOLUME DOWN>→ LED will blink once <Device to be Unlocked> LED will blink 4 times

Global Volume Unlock: <<<SETUP>>→ LED will blink twice <MUTE> LED will flash 4 times

LED User Feedback:

- Stuck key timeout is set to 30 sec if any key is held down.
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.
- LVD check will happen only during programming entry and while storing the code. Programming will be aborted with error condition.
- Refer to Programming Sequence section above for more information.

Additional Information:

- Even though any new code set is programmed, the volume settings for that device will remain intact.
- If any other device mode is moved using Mode Mover feature, the PT will be in default condition. Volume Lock settings for that device remains unchanged.
- If data is not present for the PT key under destination mode, there will be no IR transmission.
- The current device mode of the remote will revert back to the mode before entering Simple Volume Lock.

Examples:

<u>Global Volume Lock:</u> <<SETUP>>→ <VOLUME UP> →<TV>

Device Specific Un-Lock: <<SETUP>>→ <VOLUME DOWN >→ <AUX>

Global Volume Unlock: <<SETUP →<MUTE>

Global Channel Lock

Description:

Allows user to lock channel control to specific device modes. Keys affected: Channel Up/Down, Digits 0-9, Dot\Delimiter\Dash, and Previous Channel. Channel Control will reset back to default by either 981 or 977 sequence.

Programming Sequence

To lock channel control to STB mode (TV channel control disabled):

<<SETUP>>→<9>→<7>→<3>→<Channel Up>→<Source>

LED User Feedback:

- The unit shall blink 2 times upon being locked.
- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

Additional Information:

- Modes affected and default setting will vary according to the customer's requirements.
- Returns to default by 980 reset

Example: <<SETUP>>→<9>→<7>→<3>→<Channel Up>

Global Channel Unlock

<u>Description:</u> To unlock channel control

<u>Programming Sequence:</u> <<SETUP>>→<9>→<7>→<3>→<Channel Down>

LED User Feedback:

- The unit shall blink 4 times upon being unlocked.
- One blink if valid key is pressed

- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

Additional Information:

• Modes affected and default setting will vary according to the customer's requirements.

Simple Input Lock

Description:

This is a simplified way to lock Input to a specific mode. This feature will affect the input key.

Default Setting: Input Locked to TV.

Programming Sequence:

To Lock:

<<SETUP>> LED will blink twice →<INPUT> LED will blink once→<TARGET DEVICE> LED will blink 2 times

To UnLock <<SETUP>> LED will blink twice →<INPUT> LED will blink once → <EXIT> LED will flash 4 times

LED User Feedback:

- One blink when a valid key is pressed.
- Two blinks after <Target Device> is pressed denoting Input Lock is successfully activated.
- Four blinks after <Exit> is pressed denoting Input Lock is successfully de-activated.
- Blink Error upon entry of an invalid key sequence and return to normal operation.

Additional Information:

- If any new codeset is programmed, the Input key settings for that device will remain intact.
- Stuck key timeout is set to 30 sec if any key is held down.
- The unit shall exit programming state if 10 seconds has elapsed between key presses.
- If data is not present for the PT key under destination mode, there will be no IR transmission.
- LVD check will happen only during programming entry and while storing the code. Programming will be aborted with error condition when LVW is detected.

Example:

Locking Input to TV mode:

<<SETUP>> LED will blink twice \rightarrow <INPUT> LED will blink once \rightarrow <TV> LED will blink 2 times

To Unlock:

<<SETUP>> LED will blink twice \rightarrow <INPUT> LED will blink once \rightarrow <EXIT> LED will flash 4 times

General IR Key Punch Through (978)

Description:

This feature is to allow the operator/programmer to configure the punch through of general IR keys assigned in one dedicated mode into any and all other modes.

Programming Sequence:

<<Setup $>> \rightarrow <9> \rightarrow <7> \rightarrow <8>$ (LED or current physical mode LED will blink twice) \rightarrow <Source Mode/Key> $\rightarrow <$ IR Key> $\rightarrow <$ IR Key> $\rightarrow <$ Destination Mode/Key> \rightarrow <Destination Mode/Key> $\rightarrow <<$ Setup>> (LED or current physical mode LED will blink twice)

Now, when the destination modes are selected during programming, the selected IR keys will punch through to the selected source mode.

Notes:

Source mode/key refers to initial key that user will choose to send IR data to destination mode/key, i.e. STB key.

Destination mode/key refers to key chosen to receive source key IR data, i.e. TV key

To clear:

<<Setup $>> \rightarrow <$ 9 $> \rightarrow <$ 7 $> \rightarrow <$ 8 $> (LED or current physical mode LED will blink twice) <math>\rightarrow$ <<Setup >> (LED or current physical mode LED will blink four times)

LED User feedback:

- One blink if valid mode key is pressed.
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

Additional Information:

- General IR key punch through will send the original assigned IR data of the source mode the keys selected to the destination mode/key.
- If General IR punch though is setup a second time, it will override the first one.
- The remote control will remain in the current mode upon exit

<u>Example:</u> To punch STB CH+ and CH- to TV and AUX modes: <<Setup >> \rightarrow <9> \rightarrow <7> \rightarrow <8> \rightarrow <STB> \rightarrow <CH+> \rightarrow <CH-> \rightarrow <TV> \rightarrow <AUX> \rightarrow <<Setup>>

To clear: <<**Setup** >> → <**9**> → <**7**> → <**8**>→ <<**Setup** >>

Mode Independent Single Level Macro (995)

Description:

This feature allows a sequence of commands (called a Macro sequence) to be programmed onto a designated macro key (called <Macro Key>).

- <Macro Key> must be defined in the product specification.
- <Macro Key> can be a primary key only
- Mode Independent single level macro has one command sequence programmed by the user with up to 15 keystrokes in the sequence.

To program a command sequence onto a macro key, one command at a time: <<SETUP>> $\rightarrow <$ 9> $\rightarrow <$ 9> $\rightarrow <$ 5> $\rightarrow <$ Macro Key> $\rightarrow <$ Macro Sequence> $\rightarrow <<$ SETUP>>

To clear macro set up on a specific key : <<SETUP>> → <9> → <9> → <5> → <Macro Key> → <<SETUP>>

The mode independent macro feature is not mode specific. The macro will end in the last mode specified in the macro sequence. All keys except setup, power, TV, STB, AUX, and DVD key are available for a macro to be programmed on.

- Upon entry of an invalid key sequence, the remote control shall display one long blink and return to normal operation.
- The unit shall exit programming state and return to normal operation if 10 seconds has elapsed between key presses.

LED User Feedback:

- The remote shall exit programming state (without blinking) and return to normal operation if programming timeout has elapsed between key presses.
- One Blink after each valid key press.
- Two Blinks
 - After 1st <SETUP>>
 - After <995>
 - After last <<SETUP> and exit programming mode if success.
- Blink Error and exit programming mode if:
 - Invalid key is pressed.

- Length of <Macro Sequence> is over the limit (15 keys).
- Failure to store into Data Retention Area due to memory full or Low Voltage.

Macro Playback Operation:

- If a "mode key" is a part of macro sequence, the remote will switch to that mode and all subsequent keys will be in this mode thereafter. The mode can be switched back and forth within macro sequence.
- After the macro sequence completes, the remote remains in the mode last selected by the macro sequence and all shifted states and synthesizer will be cleared.
- Nesting macro is not allowed during macro playback.
- Delay between two keys.
 - 300ms approximately for regular keys.
 - 800ms approximately for Power key.
- Key interrupt will be disabled during macro sequence playback.
- Each IR function of the macro sequence will be transmitted for 260ms (minimum) for most protocols except product specific protocols (e.g. one shot).
- Stuck key timeout will not be applied during macro sequence playback.

Simple Power Macro

Description:

This feature is a simplified way to allow a sequence of commands (called a Macro sequence) to be programmed onto a Power key. Length of <Macro Sequence> is 4.

Programming Sequence:

<<SETUP>> LED will blink twice → <POWER > LED will blink once → <DEVICE 1> LED will blink once → <DEVICE 2> LED will blink once ... <<SETUP>> LED will blink twice

To delete macro from power key:

<<SETUP>> LED will blink twice → <POWER> LED will blink once → <<SETUP>> LED will blink two times

LED User Feedback:

• The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

Macro Playback Operation:

- To execute Power Macro sequence, user must press and hold Power key for 1.5s.
- Each mode key in macro sequence will be treated as a pair of keys (Mode key & Power key) except mode which is the same mode.
- If a "mode key" is a part of macro sequence, the remote will switch to that mode and all subsequent keys will be in this mode thereafter. The mode can be switched back and forth within macro sequence.

- After the macro sequence completes, the remote reverts back to the mode where before macro sequence start and all shifted state and synthesize will be cleared.
- Nesting macro is not allowed during macro playback.
- Only device key are a valid macro sequence during Power Macro Programing. If same device key s pressed again during Power Macro programing sequence, the 2nd time key press will be ignored.
- Delay between two keys.
 - o 300ms approximately for regular keys.
 - 800ms approximately for Power key.
- Key interrupt will be disabled during macro sequence playback.
- Each IR function of the macro sequence will be transmitted for 260ms (minimum) for most protocols except product specific protocols (e.g. one shot).
- Stuck key timeout will not be applied during macro sequence playback.

Example:

To program a macro that will power the TV, then DVD, then STB: <<<SETUP>>→<POWER >→ <TV>→<DVD> →<STB>→<<SETUP>>

To delete the macro: <<SETUP>>→ <POWER → <<SETUP>>

Learning

Description:

Learning capacity provides the opportunity to control devices not originally designed for the remote control creating increased support for multiple devices. The NOVA remote can receive and store codes transmitted by another device's remote control such that the other device will understand the button requests from the NOVA remote.

Programming Sequence and Notes:

To optimize success, the learning process should be conducted in an area where there is a low level of IR emission. High levels of "natural light" or energy efficient fluorescent lights could interfere with a learning event. The source and target (learner) remotes should be no more than 1 to 2 inches apart during a learning event and the IR LED of the two units should be aligned with each other. The learning operation is initiated as follows:

- 1. $\langle \langle \text{SETUP} \rangle \rightarrow \langle 9 \rangle \rightarrow \langle 7 \rangle \rightarrow \langle 5 \rangle$ initiates learning mode. (Double blink confirmation)
- 2. Press <mode> → <key to be learned> (appliSTB timeout & backlight, if appliSTB, must be OFF)
- 3. Visible LED flashes rapidly (time out and revert to step 2 if no received signal detected in 5 sec)
- 4. Hold teaching remote close to IR LED and press key to be taught.
- 5. Visible LED goes out. Continue to press teaching key until double blink from visible LED.
- 6. Repeat steps 2 through 5 as often as desired (up to limit of memory)

7. Exit learning mode by pressing <<SETUP>>, or by time out.

At step 5, one long blink indicates learning failure, which could be:

Bad capture (try again) Memory full (delete some other function) Unlearn-able code

At step 1, one long blink indicates low battery or faulty Flash Partition (i.e. the unit will not go into learn mode if either of these conditions exist).

Additional Information:

Target key types for learning:

- Data is stored on Primary Key.
- Learned keys are mode specific.
- Can learn onto any primary or dedicated key. Cannot learn onto programming or device key types. (can't program on Setup, TV mode, STB mode, DVD mode, and AUX mode keys)
- Learned keys can be used in macros, etc., like any other key.
- If the remote is in RF mode, there won't be learning on any keys is STB mode.

Learning capacity:

Approximately 16 to 25 keys, depending on code being learned and the FDRA or E^2 size. Learning operation:

To optimize success, the learning process should be conducted in an area where there is a low level of IR emission. High levels of "nature light" or energy efficient fluorescent lights could interfere with a learning event. The source and target (learner) remotes should be no more that 1 to 2 inches apart during a learning event and the IR LED's of the two units should be aligned with each other.

Limitations on learning:

- There are certain device codes which are not learnable. These include multi-frequency codes (e.g. Telefunken), some high frequency codes, and other unusual formats.
- The learner will support IR codes with carrier frequency up to 135 Khz. Some higher frequency codes can be supported by a special software feature.
- The unit can learn only one code per key. It can't be taught a sequence of several keystrokes on one key. In order to perform a sequence, learn each function onto its own key and then program a macro to use them.
- The maximum code gap is 131,070 micro seconds.
- The placement of the IR LED in the source or target unit may make it difficult to correctly align these units. In some cases it may require the user to re-learn a code if it is not correctly learned.
- Source units which include a lens may require the user to re-learn a code if not correctly learned. When proper alignment is established, the target remote will correctly learn the source data.
- In general, it is not recommended to learn a function to the Record Key.

- Upon entry of an invalid key sequence, the remote control shall display one long blink and return to normal operation.
- The unit shall exit programming state and return to normal operation if 10 seconds has elapsed between key presses.

Example:

To learn the TV input function to the input key. <<SETUP>> → <9>→ <7>→ <5>→ <TV>→ <INPUT>→ <<SETUP>>

Deleting a learned code (976)

Description: To delete a learned code.

Programming Sequence:

- 1. <<SETUP>> \rightarrow <9> \rightarrow <7> \rightarrow <6> \rightarrow initiates delete learning mode.(Double blink confirmation)
- 2. Press **<mode>** \rightarrow **<key to be deleted>** \rightarrow **<key to be deleted>** (2 blinks)

LED User Feedback:

- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

Additional Information:

• Sending a key's original (preprogrammed) function:

If a function is learned onto a key, then $\langle SETUP \rangle \rightarrow \langle key \rangle$ will send the key's original function (as long as nothing else has been learned or key moved onto the "shifted" key as well.)

Use of learned keys in macros:

- There are no particular restrictions on use of learned keys in macro sequences. However, functions which are unusually long (e.g. "record" on some Zenith VCRs) may not work because the learner is limited in the number of repeats it sends.
- If a learned function used in a macro is subsequently deleted, the macro will revert to sending the key's original function.

Example:

To delete the learned function on the input key <<SETUP>> \rightarrow <9> \rightarrow <7> \rightarrow <6> \rightarrow <TV > \rightarrow <INPUT> \rightarrow <INPUT>

Deleting All Learned Codes within a Given Mode

<u>Description:</u> Deleting all learned functions within a given mode.

<u>Programming Sequence:</u> <<Setup>>→ <9>→<7>→<6>→<Mode>→<Mode> (2 blinks)

LED User Feedback:

- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

<u>Example:</u> To delete all learned functions under the TV mode: $\langle SETUP \rangle \rightarrow \langle 9 \rangle \rightarrow \langle 7 \rangle \rightarrow \langle 6 \rangle \rightarrow \langle TV \rangle \rightarrow \langle TV \rangle$

Low Voltage

Description:

When batteries are below warning level, the unit will blink 5 times after all keys are released. The remote will stop operating when the batteries need replacement. Once the batteries in the remote are replaced with good condition batteries the remote shall return to normal operation. The permanent memory retention ensures that your settings are stored permanently even during battery replacement.

Warning Levels:

IR and RF LVD: 2.2 ±100mV (2.1<2.2<2.3V).

NOTE: The Remote allows a key interrupt (Stop 5 blinks) and processes a new key press during 5 blinks of Low Voltage

Low battery voltage detector is set at a nominal voltage based upon the design of the selected IC with a tolerance of 100mV after a diode drop, on the main board.

Normal Mode:

In normal mode, the voltage level is checked at each key-up event. If low voltage is seen, the unit enters the Voltage Warning Mode.

Voltage Warning Mode:

On entering the Voltage Warning Mode, the remote programming function is disabled. User shall be able to press any key to interrupt the 5 times flashing during low voltage warning and allow the remote to transmit the IR command.

• If the batteries are replaced and the voltage is above the low voltage threshold, the remote will return to Normal-mode and the warning counter is reset to zero.

- If after the batteries were removed and the remote was completely discharged (either by pressing any key, or after the holding charged capacitor has completely been discharged over time), a replacement of either new or old or the same batteries, the remote will enter a cold power on reset. The remote will then return to normal operation mode afterward.
- During the Voltage Warning Mode, software will NOT allow writing to the E² or FDRA. The indication of programming failure will be a long blink and then 5 blinks after release of the key.
- If entering programming mode at Low Voltage Warning level, the unit will blink error and exit programming state.
- If Low Voltage occurs during Programming Mode the unit will blink 5 times and exit Programming Mode.
- When a key is pressed and the software detects a low voltage condition the following occurs:
 - 1.) IR is transmitted
 - 2.) LED Blinks five times
 - 3.) All programming operations are disabled

<u>LED User Feedback during Voltage Warning Mode ($V_{dd} < V_{LVW}$):</u>

- At POR with valid Data Retention, 2 blinks, ~500ms delay, 5 blinks (without key interrupt).
- At POR with invalid Data Retention, continues to blink 5 times with ~500ms delay between each set of 5 blinks.
- At normal operation, blink 5 times after all keys released. User shall be able to press any key to interrupt 5 blinks and process a new key press. The remote will blink error if attempting to enter programming at Voltage Warning Mode.
- If low voltage warning occurs while in programming mode, the remote will blink 5 times & return back to normal operation after all keys release.

Code Verification (990)

Description:

Blink Back is used to get feedback via LED on the device code selected, primarily when the user has programmed their device to the remote via "Library Search". The user counts the number of LED blinks to determine the device code.

Programming Sequence:

 $<\!\!\text{Mode} > \rightarrow - <\!\!\text{Setup} >\!\!\rightarrow - <\!\!9 > \rightarrow <\!\!9 > \rightarrow <\!\!0 > \rightarrow <\!\!1 > (\text{count blinks}) \rightarrow <\!\!2 > (\text{count blinks}) \rightarrow <\!\!3 > (\text{count blinks}) \rightarrow <\!\!4 > (\text{count blinks}) \rightarrow <\!\!5 > (\text{count blinks}).$

The number of blinks after pressing each 1, 2, 3, 4 and 5 keys is the 5 digit ID code set up for that mode. There is a ~500ms second delay between each blink and after each key press. Upon entry of an invalid key sequence, the remote control shall display one long blink and return to normal operation.

LED User feedback:

- Blink Error if digits 1 5 are not pressed in numerical order, any other keys or key sequence are pressed, the sequence will be invalid and the remote control shall return to normal operation
- The unit shall exit programming state and return to normal operation if 10 seconds has elapsed between key presses.

Example:

To verify the TV code is 01345: <TV> → <<Setup>> → <9> → <9> → <0> <1> - 0 blinks <2> - 1 blinks <3> - 3 blinks <4> - 4 blinks <5> - 5 blink

Software Blink Back (983)

Also known as: FLASH Software Serial Code Verification

Description:

This is used to get feedback on the software serial code programmed into the FLASH. The number of blinks after pressing each 1, 2, 3, 4 and 5 keys is the 5-digit software version code. There is an approximate of 500ms delay between each blink and after each key press.

Programming Sequence:

<<Setup>> \rightarrow <9> \rightarrow <8> \rightarrow <3> (LED will blink twice) \rightarrow <1> (count blinks) \rightarrow <2> (count blinks) \rightarrow <3> (count blinks) \rightarrow <4> (count blinks) \rightarrow <5> (count blink).

LED User Feedback:

- If Digits 1-5 are pressed out of order, the LED shall error blink; the unit shall exit the setup mode and return to the previous code.
- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.
- There shall be an approximate of 500ms delay between each blink and after each key press.

Example:

To verify the software serial code programmed into the flash is 3544-X1:

<<Setup>>→<9>→<8>→<3>

<1>→3 blinks <2>→5 blinks <3>→4 blinks <4>→4 blinks <5>→1 blink for X1 release

Reset Operations (980, 981, 977)

2) Operational Features Reset (980)

Description:

Resets all features not related to ID setup back to default settings or back to SIO retention (if existed)

Features reset:

Macro, Learned function, Volume Lock, Channel Lock, General IR Punch Through, Favorite ID Table (Quick Swap).

Features not reset:

ID Code Setup, ID Lock and SIO Retention, Upgraded codes and Anti-Piracy.

Programming Sequence:

$<<\!\!\text{SETUP} \rightarrow \rightarrow <\!\!9 \!\!> \rightarrow <\!\!8 \!\!> \rightarrow <\!\!0 \!\!>$

LED User Feedback:

- The LED shall respond as outlined in this document: section 3.6 Visible LED for User Feedback.
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.
- 3) Manufacturing Reset (981)

Description:

Clears all **SETUP** features including those related to ID code **SETUP**.

The remote resets to the default Id and clears all E₂ or FDRA Prom data including all upgrade codes and SIO retention.

 $\frac{\text{Programming Sequence:}}{<<\text{SETUP>>} \rightarrow <9> \rightarrow <8> \rightarrow <1>}$

LED User Feedback:

- The LED shall respond as outlined in this document: section 3.6 Visible LED for User Feedback.
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.
- 4) Basic User Reset (977)

Description:

Resets all setup features back to default setting or back to SIO Retention (if existed).

Features reset:

Current Mode, ID Code Setup, ID Lock and all features reset by Operation reset.

Features not reset:

Upgrade Code, Anti-Piracy.

<u>Programming Sequence:</u> <<SETUP>> →<9> →<7> →<7>

LED User Feedback:

- The LED shall respond as outlined in this document: section 3.6 Visible LED for User Feedback.
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

SIO Registration / Retention

Description:

SIO LOADFILE REGISTRATION allows creator assign a 4 digit code to each unique product SIO to track created SIO files, and is used in conjunction with SIO LOADFILE BLINKOUT. The SIO creator will download the appropriate codes, make the appropriate customizations and assign the appropriate SIO number to the remote.

Programming Sequence:

 $\overrightarrow{<\text{Setup}>> \rightarrow <9> \rightarrow <6> \rightarrow <8> (2 \text{ blinks}) \rightarrow <\text{Digit}> \rightarrow <\text{Digit}> \rightarrow <\text{Digit}> \rightarrow <\text{Digit}> (2 \text{ blinks})$

Digits will equal the digits of the 4-digit SIO file assigned. SIO creator would then blink back SIO to ensure it matches his/her file

Additional Information:

- User settings are stored in segment of FDRA for life of remote or until user implements 981 sequence. Consequently, the FDRA can now be "read" and stored as a ".bin" file via UEI software, UEI Loader Board (4433-KIT) or EZ-Updater.
- Following this sequence, if the operator/programmer attempts to override the FDRA settings via the same sequence, it will be considered invalid.
- User cannot program 968 sequence again unless 981 sequence is executed.

LED User Feedback:

- Once 968 programming sequence is executed, user cannot program the sequence again. If attempted the remote will issue an error blink after <8> and return to normal operation.
- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.

Example: Programming SIO registration 1234:

$<<\!\!\mathrm{Setup}\!\!>\!\!\rightarrow<\!\!9\!\!>\!\!\rightarrow<\!\!6\!\!>\!\!\rightarrow<\!\!8\!\!>\!\!\rightarrow<\!\!1\!\!>\!\!\rightarrow<\!\!2\!\!>\!\!\rightarrow<\!\!3\!\!>\!\!\rightarrow<\!\!4\!\!>$

SIO Blink Out

Description:

Allows SIO creator to "blink back" the assigned 4 digit SIO, created via SIO LOADFILE REGISTRATION.

Programming Sequence:

<<Setup>> \rightarrow <9> \rightarrow <8> \rightarrow <9> (2 blinks) \rightarrow <Digit 1>(count blinks) \rightarrow <Digit 2> (count blinks) \rightarrow <Digit 3> (count blinks) \rightarrow <Digit 4>(count blinks).

Additional Information:

• If 968 is not programmed into a unit, the 989 blink back will be 0000 (no blinks), indicating that a SIO number has not been programmed (but doesn't mean a SIO file has not been created).

LED User Feedback:

- Error blink will be indicated when bad FDRA or no FDRA is installed while the SIO registration sequence 968 or recall sequence 989 is programmed.
- One blink if valid key is pressed
- Blink Error upon entry of an invalid key sequence and return to normal operation.
- The unit shall exit programming state, remain in the current mode and return to normal operation if 10 seconds has elapsed between key presses.
- There shall be an approximate of 500ms delay between each blink and after each key press.

Example:

To verify 1234 is the SIO version: <<Setup>>→<9>→<8>→<9> (2 blinks) →<Digit 1>(1 blink) →<Digit 2> (2 blinks) →<Digit 3> (3 blinks) →<Digit 4>(4 blinks).

Mode LED

Mode LED option allows the customer to have separate LED indicators for each Mode Key. This is useful to show the user what Mode they are in when pressing a key. With each key press, the appropriate Mode Light will blink, indicating for which Mode IR is currently active. While in programming mode, the mode LED of the current mode will blink.

RF Support

Description:

The Nova Remote is designed to support Broadcom based STB's and limited support for Sigma STB's. For Broadcom versions, the RC will support both IR and RF; however, for Sigma based Hydra and Amulet-D series, the remote will only work in IR mode. RF requirements for Sigma-based STBs should continue to use the Entone URC.

Remote Registration

Description:

Nova remote supports both IR and RF and registration allows user to set for IR or RF. By default the remote is in IR mode.

Programming Sequence:

To register the remote to the STB and use RF:

- On the Janus 300 or Amulet 550, press and hold the ""OK"" button on the front panel 5 seconds until the touch panel backlight is flashing
- Press and hold <<SETUP>> and <<STB>> keys together until the STB and AUX LEDs illuminate
- Press <1> or <2> for primary and secondary stream

To reset the Nova remote back to IR mode, here is the steps

- Press and hold <<SETUP>> and <<STB>> keys together until the STB and AUX LEDs illuminate
- Press <0>

Device Codes
AUDIO - AMPLIFIER		LG	33217, 33996	Carver	30189, 30121,
Denon	32706, 32134	Martin Logan	33526		31189
Durabrand	31568	Onkyo	33984, 33992	Coby	31389, 32748,
Halcro	31934	Panasonic	33323, 33409		332 <mark>1</mark> 8
Harman/Kardon	30892, 33045	Philips	33962, 32675,	Curtis	31389
Left Coast	30892		33282, 34012	Denon	32857, 31360,
Marantz	32138, 30892,	Pinnacle	33774, 33728		32516, 33347,
	31892	Speakers			32820, 32279
Memorex	31568	Pioneer	33956	Dynex	32971
Optimus	30823	Polk Audio	33429	Epworth	30121, 31641,
Parasound	31934	Proficient	33661		30158, 30189
Philips	30892	RCA	33969	Gateway	31517
Pioneer	30823	Samsung	32660, 32609	GE	33297
Polk Audio	30892	Sharp	33736, 33097	General Electric	33297
RCA	30823	Sonos	33919	Harman/Kardon	32241, 31304,
Regent	31568	Sony	33700, 32610		32443, 33418,
Sony	33903	SpeakerCraft	33661		30189, 32670
AUDIO - ACCES	SORY	Toshiba	33627	Insignia	32175, 31030,
Apple	31115	VIZIO	32454		32169, 32472,
AudioSource	33721	Yamaha	32458, 32021,		32929, 32966,
B & W	33943		33153, 33917		33210, 31077
Bose	33708	ZVOX	32332, 33913,	Integra	31805, 32730,
Boston	33698		32334		31320, 32503,
Acoustics		AUDIO -			30135, 31298
Bowers &	33943	RECEIVER		JBL	32241
Wilkins		Aiwa	30121, 31641,	Jensen	31389
Curtis	33942		30158, 30189	JVC	31676, 32040,
Definitive	33645	Alco	31390		31374, 32331,
Technology		AMC	31077		32239, 31871,
Denon	32502	Anthem	33294		33115, 33274
Dynavox	33231	Anthem	33294	Kenwood	31570, 31313,
Haier	33516	Statement			30186, 31293
Harman/Kardon	33517	Arcam	31189, 30189	KLH	31390
iLive	33175	Audiotronic	31189	LG	32197, 32676,
Insignia	33951	Audiovox	31390		32284, 33285,
JBL	33756, 33535	Bose	31933, 31629,		31293
JVC	33049		33959	Linn	30189
Klipsch	33915				

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	31831	Toshiba	31788, 31123	Baysonic	00180
Marantz	31289, 32114,	Venturer	31390	Bell & Howell	00154
	30189, 31189	Vtrek	32426	BGH	04029, 00898,
McIntosh	31289	Wards	30158, 30189		04070, 02414,
Micromega	31189	Yamaha	32061, 32467,		00876, 03485,
Myryad	31189		33030, 30176,		04028, 04030
Nakamichi	31313		31276, 30376,	Blue Sky	02153, 03997
Norcent	31389		33580, 31815,	Bradford	00180
Nova	31389		31376, 30186	Britânia	02414
Onkvo	31805, 31320,	Zenith	31293, 32197	Broksonic	00463, 01935,
	32730, 32503,		,		01938, 01892
	30135, 31298	TELEVISION		CCE	03782 04091
Optimus	31023 30186	888	04159		00623 04092
Panasonic	32967 31275	Acer	01339 04143	Celera	00765
anacomo	31288 31633	Admiral	04030 03485	Champion	01362
	32452 33055	/ tarmai	04111 00093	Changhong	03814 00765
	33309 31763		00463	Cineral	00451
	32745 32105	Advent	00761 01570	Citizon	01035
	31308 31676	Δffinity	03717 03716	Clarion	00180
Philco	31300, 31831	Ашицу	03870 03577	Clarie	03807
Philipe	30180 32450	Δίωρ	01362	Coby	03478 03627
T Thips	31831 32280		01302	CODy	0.0470, 0.0027, 0.0021, 0.00216, 0.00214
	21266 22211	Andi	00702,01075,		02315, 02344, 02206, 02214
	31200, 32311, 21100		00672,01303,		02300, 02314, 02345, 01624
Dianaar	31109		00072,01933,		02343, 01034, 00000
Pioneer	31123, 31933,	A lfiele	00700		02330, 023200, 0232000, 0232000, 0232000, 02320000000000
	31384, 32432,	Allide	00072		02340, 03629,
Della Asselia	31023, 32012	America	04179		01538, 02347,
Polk Audio	31289, 30189	America Action	00180		02348, 03202
Proscan	31254	Anam	00180	Commercial	01447
RCA	31254, 32041,	AOC	01589, 03720,	Solutions	
	32611, 32426,		01365, 02014,	Contec	00180
	33297, 32655,		04170,02087,	Contex	04053
	31123, 31390,		02402, 01590,	Continental	01682, 03321,
	32719, 33281,		02479, 02621,		041/9
-	31023		04184, 04185,	Continental	03322, 03321
Samsung	31868, 32809,		03707, 04101,	Electric	
	33154, 32137,		04169, 04173	Coradir	02844
	31500, 31304	Aomni	01623	Craig	00180, 03423
Sansui	30189	Apex Digital	00765, 02397,	Crown	00180, 00672
Sharp	30186		00748, 01217,	Crown Mustang	00672, 00898
Sherwood	31077, 31905,		00890	Curtis	03577, 02855,
	31517, 32169,	Ario	02397		03121, 02466,
	33120	Astar	01738, 01531		02352, 03895,
Sherwood	32169	Asus	03340		02397, 03939,
Newcastle		Atvio	03638, 03636,		01326, 03636,
Sony	31622, 31759,		03653		04035, 01314,
	30158, 32172,	Audinac	00180		02559, 03228,
	31758, 31822,	Audiovox	02413, 00875,		03382
	32475, 31058,		01865, 00180,	Curtis Mathes	00451, 00702,
	32522, 32860,		01564, 01868,		01661, 00093,
	33257, 33372,		01276, 01766,		00145, 00154,
	33456		01769, 02121,		01347
Stereophonics	31023		03065, 00451,	CXC	00180
Sunfire	31313		00623	Cytron	01326
Teac	31390	Auria	02087, 02014.	Daewoo	01661, 00623.
Technics	31308, 31633		02277		00451,00661.
	,				, ,

	U 1909, 00072,	Galeway	01700, 01700		01004, 01020,
	00154	GE	00451, 01547,		02002, 01423,
Daytek	02241		01447, 01347,		01892, 01517,
Dell	01403, 01863,		00051, 00178,		00171, 00463,
	01264		00765		01385, 01660,
Denon	00145	General	00451.01547.		01963.02184.
Digital	01765	Electric	01447 01347		02416 02751
Lifestyles		2.000.00	00051 00178		03227
Disnov	01892 01665		00765	Integ	00017
Dukano	01002, 01000	GEM	00100	iDIC	02180
Dumont	01030	GIW	01062 01003,		02103
Dumont	00017		01963, 01886,	IR I	00451, 01661
Durabrand	00463,00171,	0.1	01864, 01865	ISymphony	03429, 03382,
	01570, 01665,	Gibralter	00017		03118, 03094,
	00178, 00180	GoldStar	00178		03863
Dynex	02049, 01463,	GPX	03980, 03977,	JC Penney	01347, 00051,
	02184		03196		00178, 00156
Electrograph	01755, 01623	Gradiente	01369, 01029	JCM	02189, 02256
Electrohome	00463, 01570,	Grundig	00672	Jensen	01326, 03204,
	01670	Grunpy	00180		00761
Electron	02466 02855	Haier	01749 02309	JVC	01774 01601
Elektra	00017 01661		01748 03382		02321 02271
Element	03559 01687		01753 03/29		01253 00053
Liement	03333, 01007,		01700, 00420, 00200		03650 00463
	02103, 02904,		02293, 02070,		03030, 00403, 01670, 02944
	01000		03987, 04120,		01070, 03841,
Elite	03867		01570, 03204		04070, 02264,
Emerson	01864, 01394,	Hallmark	00178		00650, 01892
	03623, 00171,	Hannspree	01348, 02786,	KC	04182
	00463, 01963,		01351	KDS	01498, 01687
	00180, 01913,	Harvard	00180	KEC	00180
	01886, 00178,	Havermy	00093	Ken Brown	04056, 04099
	01944, 00623,	H-Buster	03620, 03419	Kioto	00785
	01661, 01665,	Helios	00865	KLH	00765
	02183 00451	Hello Kitty	00451	Kolin	01240
	01909 00154	Hewlett	01642	Konka	01939 01385
	03559	Packard	01042	Kreisen	00876
Emproy	01765	Limiteu	0/170 00180		00180
	00076	Lisonas	04173,00100	IXI V	00100
Encloss		Hisense	03019, 02183,	Legend	02397, 02309
Envision	01589, 01365,		01660, 02098,	Lexus	03038
	02087, 02014,		01314, 00748,	LG	02731, 01423,
	02621		03382, 04029		01859, 02358,
Epson	01122	Hitachi	01643, 03644,		00178, 03941,
Epworth	01362		00145, 01145,		03397, 04017,
EQD	02014, 02087,		01345, 03639,		02424, 01265,
	02277		02433, 03697,		03979, 01753,
EQD Auria	02014, 02087,		00679, 02215,		02612,00017
	02277		02981	LodgingStar	03147
FSA	00812 00171	Hitech	01682 01814	IXI	00154 00156
20/1	01944 01963		04179 04183		00178 00017
Eair Mato	01326	Hitokor	03118		01347
	01020		01640	MAC	01047
Favi	00154 01262		01042	Magnasania	01007, 01490
FISHER	00104, 01362		03410,01014	Magnasonic	01913
	02964	ILO	01000, 01684,	wagnavox	01866, 03623,
Frigidaire	02231		01990, 01463,		02372, 02597,
Funai	01864, 00171,		01286, 01394		01454, 01913,
	00180, 01271,	Imperial	04183		01944, 01963,
	01394, 01963	Initial	01990		01455, 01990,
Futuretech	00180	Insignia	02049, 01641,		03708, 00171,
		-	-		

	01365, 00051,	Norcent	01365, 01589,		01498, 01276,
	01755, 01867		00748,01590		01538, 01385,
Magnum	04179	Nordmende	03419, 03861,		01767.03942.
Marantz	01398, 01454		03134, 03327,		04035, 01687,
Matsushita	00051 00250		03767 03835		02121 00765
matodomita	00650	Norwood Micro	01286		00865 01314
Maxent	01755 01757	NuVision	02158 01657		01766 04074
MB Quart	01868	Ölevia	01610 01240		01286 01326
Megatron	00145 00178	olovia	01331 011//		02002
Memorey	00143,00170	Onwa	00180	Portland	01661 00451
Memorex	01670 01038	Ontimus	00250 01027	Primo	01753 00761
	01070, 01330,	Optimus	00230, 01327,	Tillia	01733, 00701,
	01665 00150		01915, 01924,	Pricm	00051
	00154 01687		00134, 00030,	Proceen	00001
	00134,01007,	Ontique	00079	FIUSCAII	02103, 03302, 02577, 02256
	01924, 01927	Optique	02109		03077, 02230, 01447, 02220
Miana a mia		Optonica	00095		01447, 03332, 00747, 00005
MICrosonic	01326, 02483,	Unon	00463, 01463,		03717,03895,
	03328, 03419,		01938, 03485,		03939, 01347,
	03679		01892, 03540,		02147, 02746,
Midland	00017,00051	D .	03650		03429, 03636,
Mintek	01990	Panasonic	01480, 01291,		04035
Miray	03847, 02414,		00250, 00650,	Proton	00178
	02429, 03183,		02264, 00051,	Proview	01687, 01498
	04176, 04177,		01927, 01947,	Pulsar	00017
	01814, 03322,		01636, 01924,	Pyle	02196
	00785, 03485,		01941, 03825,	Pyle Home	02196
	04178, 00898,		00053, 00093,	QuantumFX	02337
	03309, 03321		00145, 00150,	Quasar	00051, 00250,
Misakai	00171		00154, 00156,		01291, 01927,
Mitsubishi	01250, 00150,		00178, 01271,		01924, 03899,
Electric	00178, 01797,		01347		00650
	00093	Panavideo	03679	RadioShack	00180, 00178,
Mitsui	04179, 03658,	Panavox	04057		00154
	03638	PARK	02104	RCA	02746, 02932,
Motorola	00093	Penney	01347,00051,		02434, 01447,
Multitech	00180		00178,00156		04214, 02247,
NAD	01156, 00156,	Philco	03426, 02414,		03577, 01781.
	00178		03639, 03697,		02187, 03382,
Naxa	02104 04093		01665 00171		01547 01347
	03154 03382		01029 01271		03717 03332
	03423		01963 01394		00679 02403
NEC	01797 01704		01661 00145		01661 02429
	01398 00876		01362 00463		03147 03378
	02293	Philips	01867 02372		03419 00093
NetTV	01755	1 mpo	01454 01455		01385 01868
New Acoustic	01156 00156		02374 02597		02002 02183
Dimension	00178		02708 01744		02855 03938
NEY	0181/		01866 02622		02030, 00050,
	01014		01000, 02022,		00000, 00001, 00001, 000000
Flootropico	02105		00030, 00017, 02622, 00171		00030, 03121, 02626, 04002
Nikko	00179 00017		03023, 00171,	Popliatio	00154 00190
ΝΙΚΚΟ	00176,00017,		01944, 01303,	Realistic	00134, 00160,
	01347,00154,		01990, 01394,	Deees	000170
Ninahara	00100	Dianasi	01009	Recco	03847,00898,
	02104	FIONEEL	01407,00079,	DevelutionUD	01014, 03183
NODIEX	01362, 03697,	Dianar	01260, 01398	RevolutionHD	01023
	04029, 03803,	Planar	00679,01589	KUNCO	01398,00017
	04030, 00154	Polaroid	01523, 01769,	Sampo	01755

Samsung	UZUDI, UUŬIZ, 01632-03003	Stanite STI	UU I OU 03703	Viaikron Vidtoch	UI390 00178
	01032, 03993,	SUpDriteTV	00227 01610	Viaueonia	00170
	00702,00700,	Sundriterv	02537,01010,	viewsonic	02014, 02007, 02706, 00964
Canaai		Cumanaaan	02020		01220 01007
Sansei	04030, 00431	Superscan	00002 00171		01030, 01027,
Sansul	00463, 01892,	0	00093,00171		01640, 01755,
	03540, 01670,	Supersonic	03593, 03154,		02049, 02111,
	01935, 01463,		01753, 02104,		02277, 00885,
	03564, 01938,		03595, 03204,		01542, 01564,
	01409, 04053,	0.44	03894		01578, 01742,
	03377, 00171,	SVA	00748, 00865,		01365
	03559	.	01963	Viore	02352, 03382,
Sanyo	01142, 01362,	Sylvania	01864, 01886,		03118, 03429,
	00154, 03488,		00171, 01963,		02104, 03863,
	03697, 03861,		01944, 01913,		02496, 03094,
	00799, 00088		01394, 01665,		01684, 03594,
Sceptre	03899, 02528,		01271, 01314		03154
	02337, 01217,	Symphonic	00171, 01913,	VisionQuest	03154
	01360, 04139,		01944, 01963,	Vivitek	01369
	00878		01394, 00180	VIZIO	01758, 03758,
Scotch	00178	Syntax	01610, 01240,		02707, 02757,
Scott	00178, 00180		01144, 01331		03415, 02512,
Sears	00154, 00156,	Tandy	00093		01756, 00864,
	00171, 00178,	Tatung	01286, 02496,		00885
	01547		01756	Vuon	03418
Seiki	03953, 02964,	TCL	02434, 03183,	Wards	00178, 00017,
	03559, 03560,		02429, 03426,		00156, 00051,
	00178		03847, 04176,		01156, 01347,
Seiko Epson	01122		04177, 02414,		00154, 00180
Seleco	01351		03047, 00898,	Waycon	00156
Semivox	00180		02403, 04178	Westinghouse	01712, 03579,
Semp	01743,00156	Technics	00051,00250,	Ũ	03382, 00885,
Semp Toshiba	01743, 03793,		00017, 01347,		01300, 03949,
1	03469, 00156		00650		02293, 03094,
Sens	01865	Techwood	00051		03470, 00889,
Serie Dorada	03814	Teknika	00180,00150		00890, 01282,
Sharp	02360_00818	Telefunken	02414 00702		02397 03908
p	02951 03394		04025		00451 00463
	01602 02402	ТМК	00178		01217
	03867 00093	TNCi	00017	White	00623 01661
Sheng Chia	00093	Tophouse	00180	Westinghouse	01909 00463
Sigmac	03477 03423	Toshiba	01524 01656	Weedingheudee	01913
Silo	03794 03477	1 COMBA	02724 00156	Wyse	01365
	04182		03134 01156	Xoceco	01753 00761
Silo Digital	03794 03477		01256 02006	/00000	01749
olio Digital	04182		01935 01945	Zenith	00017 00178
Síragon	04057		02684 01743	Zomur	01145 01265
Solé	01623		03469 01704		01859 01423
Soneview	0/179		00650 01369		00145 02612
Sony	04170		01265 00003		01661 02731
Sony	01685		01203, 00033,		01365 01000
Soundooian	00178 00180	TruToch	01665 01723		01303, 01303,
Sovo	01520		0000, 01720		02000, 00400
Spectronia	01020	Unetar	0/182		
Speciforniq	01430, 01007		04102		00463
Squareview	04041	Venturer	01200		01570
Squareview	00180	Victor	00053	Affinity	03870 03717
000	00100	VICIOI	00000	Aminy	00010,00111

Akai America Action	01675, 01935 00180	JVC	02271, 01601, 01670, 01774,	Sceptre	02528, 04139, 02337
AOC	04173		01253	Sens	01865
Apex Digital	00765	Ken Brown	04099	Sharp	00818, 00093,
Astar	01531	Konka	01939		02360
Audiovox	01865, 02413,	LG	02731, 01423	Superscan	01944
	00180, 01766,	LXI	00154	Supersonic	03593, 01753,
	01769, 03065,	Magnasonic	01913		02104, 03595,
	01868	Magnavox	02597, 01913,	.	03894
Blue Sky	02153		01963, 01944,	Sylvania	01963, 01944,
Broksonic	00463, 01935,		02372, 01866,		01913, 01886,
	01938		03708, 01454,		01864, 01394
Citizen	01935		00051, 01990	Symphonic	01913, 01944,
Coby	02315, 02344,	Memorex	01938, 00463,		01963
	03627, 02340,		01670, 01924,	loshiba	02006, 01935,
	01538, 02347,		01927		01945, 02684,
o (;))	03202, 02314	Mintek	01990		03469, 01524,
Continental	03321	Mitsubishi	00093, 00150,		00156, 01256,
Electric		Electric	00178		01656
Coradir	02844	Naxa	02104, 03382	Venturer	01865, 01868
Curtis	02855, 03895,	Nikko	00154	Viewsonic	02049, 00864
	02466, 04035,	Nimbro	02104	Viore	03429, 02352,
_	02559, 03636	Nordmende	03835		03094, 02104,
Daewoo	01909	Optimus	01927, 01913,		03382, 03118
Durabrand	00463, 00171		01924	Westinghouse	01300, 01712
Dynex	02049, 02184	Orion	01938, 01463	White	01909, 00463,
Electrohome	01670	Panasonic	01927, 01947,	Westinghouse	01913
Element	02964		01924, 01941,	Xoceco	01753
Emerson	01886, 01864,		00250, 01291,	Zenith	00017, 01909,
	01963, 01913,		01636, 01480,		00178
	00463, 01944,		00051, 00093,		
	01394, 01909,		00178, 03825	VIDEO - VCR	
	00171	Philco	01963	Humax	20739
ESA	01944, 01963	Philips	02597, 01394,	Philips	20739
Favi	03382		01455, 02372	TiVo	20739
Funai	00171, 01394,	Polaroid	01769, 01523,		
	01963		01538, 03942,	VIDEO - DVD	
GE	00051		01766, 04074,	Accurian	20675, 21416
General	00051		02002	Alco	20790
Electric		Prima	01753	Allegro	20869
GFM	01963	Proscan	02256, 03895,	Amvox	22840
GoldStar	00178		03429, 03636	Apex Digital	20672, 20717
GPX	03980, 03977,	Pyle	02196	Asahi	22615
	03196	QuantumFX	02337	Audio Authority	22555
Haier	01753, 02309,	Quasar	00051, 01927,	Audiovox	20790, 20717
	03429, 01749,		01924, 00250	BBK	21224
	01748	RCA	04214, 02187,	Bel Canto	21571
Hisense	03519		02746, 02932,	Design	
Hitachi	03644		02247, 00093,	Blaupunkt	20717
iLo	01990		01868, 02002,	BuBuGao	21224
Initial	01990		03382, 00051,	California Audio	20490
Insignia	02049, 01641,		U144/	Labs	
	01963, 02002,	Samsung	02051	Cinea	20831
	02416, 02751,	Sansui	01670, 01935,	CineVision	20833, 20869
	03227, 01326,		03564, 01938,	Coby	22494, 22746,
	01517,01892	-	03377	2	21351, 20672
Symphony	03429, 03094	Sanyo	03488	Cougar	22693

Craig Curtis	20831 22235, 23052	Logitech Magnavox	22639 20675, 21354,	Sanyo	20744, 20490 20670
Curtis Mathes Daewoo	22331, 23925 20833, 21169,		20503, 20646, 23488, 21506,	Schneider Semp	20646 20503
_	20869		20539	Semp Toshiba	20503
Days	22857	Marantz	22481, 20539,	Sensory	21158
Denon	22258, 22748,	Malataala	22414, 23444	Science	00000 00050
DistitutMass	20490	Mcintosh	21273	Snarp	20630, 22250,
Digitaliviax	21/30	Memorex	22213, 20031,	Shorwood	20070
Dipional Directed Video	22014		23133, 21270,	Sherwood	23032, 23037,
Dispov	20/17	Microsoft	22001	Sonic Blue	20860
Durabrand	23464	MICIOSOIL	2003, 22027, 20522	Sony	21516 21633
Dynex	22596	Mintek	20717	Cony	21033 20864
FletroVision	22822	NAD	20741		21070 20772
Emerson	20675, 22213	Naxa	22235	SV2000	20675
Fisher	20670	Nesa	20717	Sylvania	20675
Funai	20675	New Acoustic	20741	Symphonic	20675
Gateway	21158	Dimension		TCL	22587
GE	20717, 20522	NKS	22834	Teac	20790
General	20717, 20522	Ölevia	22331	Technics	20490, 20703
Electric		Onkyo	22147, 21627,	Toshiba	23157, 22705,
GFM	20675		20503, 21769		20503, 23857,
Go Video	20869, 21044,	Oppo	22545, 21224		22277, 22006,
	20741, 21075,	Panasonic	21641, 23641,		21510, 21769,
	20744, 20833,		20490, 21579,	TwiTeak	21608, 22364
ColdStor	21158, 20717	Dhiloo	20703, 20503	Iruiecn	20675
CDV	20741, 20009	Philipa	20075, 20790	Concente	20003
Greenhill	22233	T Timps	22050, 22454,	Venturer	20790
Grundia	20539		20539 21506		22563
Harman/Kardon	20702 20582		23488 20503	Vtrek	22587
	21229, 22927		22084, 20675,	WB Electronics	22555
	23228		21158	Xbox	22083, 22627,
Hello Kitty	20831	Pioneer	22442, 22854,		20522
Hitachi	20664, 20573		21571, 20142,	Yamaha	22298, 20497,
Hiteker	20672		20631		20539, 20545,
Initial	20717	Polaroid	21013		20490, 21354,
Insignia	22596, 22095,	Polk Audio	20539		20646, 23837,
	22428, 20675,	Presidian	20675, 21738		21416
	21013, 20741	Proceed	20672	Zenith	20741, 20869,
Integra	22147, 21769	Proscan	20522		20503
Irradio	20646	RCA	20522, 21013,		
JBL	20702		22919, 22007,	Curtio Mothoo	00221 02005
300	22303, 22033, 20623, 21164		22213, 20717,	Donon	22331, 23823
	20867 21602		23464 20790	Harman/Kardon	22200, 22740
Kawasaki	20790	RF-BI	22555	Insignia	22596 22428
Kenwood	20534 20490	Rio	20869	Inoigina	20675
KLH	20717, 20790	Rotel	20623	Integra	22147
Konik	22691	Samsung	20199, 20573,	JVČ	22365, 22855
Lenoxx	22213	U U	22069, 21075,	Lexicon	22545
Lexicon	22545		21573, 21470,	LG	21602, 20741
LG	21602, 20741,		22113, 22269,	Magnavox	20675
	20869, 22135		22369, 22329,	Marantz	22414, 23444
LiteOn	21738, 21158,		22489, 21044,	Memorex	22331
	21416		22843, 22556,	Microsoft	22627

Ölevia	22331
Onkyo	22147
Oppo	22545
Panasonic	21641, 23641
Philips	22434, 22084
Pioneer	22854, 22442,
	20142
RCA	23464
Samsung	20199
Sharp	22250
Sherwood	23052, 23837,
	23925
Sony	21516, 20772
Sylvania	20675
Toshiba	23157, 23857,
	22705
VIZIO	22563
Xbox	22627
Yamaha	22298, 23837

Notes

Notes





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