

Operating Instructions

TDR-3200 Australian Digital TV Receiver



Safety Instructions

Please read the following safety instructions carefully.

- ◆ Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electrical shock.
- ◆ Never allow liquids, spray or other materials to come into contact with the inside of the STB.
- ◆ Unplug the STB from the wall outlet before cleaning.
- ◆ Use a soft cloth to clean the exterior of the STB.
- ◆ Allow clear space around the STB for sufficient ventilation.
- ◆ Do not use the STB where it is exposed to direct sunlight or near a heater.
- ◆ Never stack other electronic equipment on top of the STB.
- ◆ Do not place the STB outdoors. Keep out of direct sunlight.
- ◆ Do not connect or modify cables when the STB is plugged in.
- ◆ Do not cover the STB or place it on a unit that emits heat.

WARNING

**RISK ELECTRIC SHOCK
DO NOT OPEN**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

Contents

Safety Instructions.....	2
Quick Start Guide.....	4
Front Panel / Rear Panel.....	6
Remote Control.....	8
Installation.....	10
Getting Started.....	18
User Functions.....	21
<i>Teletext</i>	21
<i>Program Guide</i>	22
Main Menu.....	23
<i>Language</i>	23
<i>Configuration</i>	24
<i>Time Settings</i>	25
<i>Edit Programs</i>	27
<i>Channel Search</i>	29
<i>Change Password</i>	32
<i>Parental Control</i>	32
<i>Games</i>	32
Troubleshooting.....	33
Specifications.....	34
Glossary of Terms.....	35
Warranty Form.....	37

Quick-Start Guide

If you wish to operate the NextWave Australian Digital TV 'Set Top Box' (STB) before reading the rest of this manual, use the following steps to get started quickly.

Step.

1

Connect your antenna to the ANT IN socket.

Step.

2

Connect Video and Audio lead between STB and VCR or TV.

- Connect video (yellow) plugs of supplied lead to **VIDEO OUT** of STB to **VIDEO IN** of your TV or VCR.
- Connect audio (white & red) plugs into the **AUDIO L-R** sockets on the STB and to **AUDIO IN** (L-R) of the VCR or TV.

For other connection options see pages 10-15 or visit www.nextwave-digital.com

Turn on STB.

Step.

3

- Power up STB at mains switch behind the decoder.
- Press **STANDBY** button on Remote Control Unit (RCU) or the front panel button.
- NoPr will appear on the 4-digit front panel display. t0(xx) will appear on the front panel display if the STB has previously been scanned.

Step.

4

At Start-up, highlight (green) **QUICK SCAN** using **▲▼** buttons. Press **OK**.

The STB will have no channels activated when first installed. Press **OK** on **AUTO SCAN** and this will activate the scanning process. The scan process should take a minute.

Step.

5

Observe signal strength bar and signal quality bar while STB is scanning.

- *Take note of the level indicators as this will determine the consistency of your picture quality.*
- *Signals between 50%~70% may not allow pictures to be constantly available. Signals below 50% may mean that no picture will be available.*

The F1 key will invoke the Quick Scan function at any time. This is particularly useful if you take your digital receiver to other regions in Australia where the digital channel plan is different from your own.

Quick scan will be useful when new digital services, e.g. new channels, 'datacasting' or other kinds of digital TV services, become available.

Step.

6

Press EXIT followed by OK to view TV channels.

- *Exit from the Channel Scan menu by pressing EXIT, followed by OK to save the current channel plan.*
- *Change channels with the CH + / - or ▲▼ keys. Adjust the aspect ratio to suit your TV using the WIDE button.*

Step.

7

Press OK to display full Channel List.

- *Once the picture is displayed, press OK to display the full channel list. See page 20 for full details.*

Finish

!

The rest of the manual contains detailed instructions for installing and working with your new digital set top box.

Front Panel & Features

Features

You have purchased a full featured standard definition digital set top box (STB). This unit has a multitude of features and connections for all your digital TV needs.

Compact Size
Onscreen Games
Onscreen Teletext
Closed Captioning
Parental Control PIN
Super Fast Channel Scan
Favourite Channels Function
Internet Support Site
Simple Setup Key
Signal Indicator Bars

Dolby Digital Audio
Optical Digital Out
Coaxial Digital Out
S-Video and Composite Video
RGB and Component (Y,Cb,Cr) Video
RF output
2 x SCART outputs
Aspect Ratio (16:9, 4:3) Hot-Key
Software Upgradeable
Loop through capability

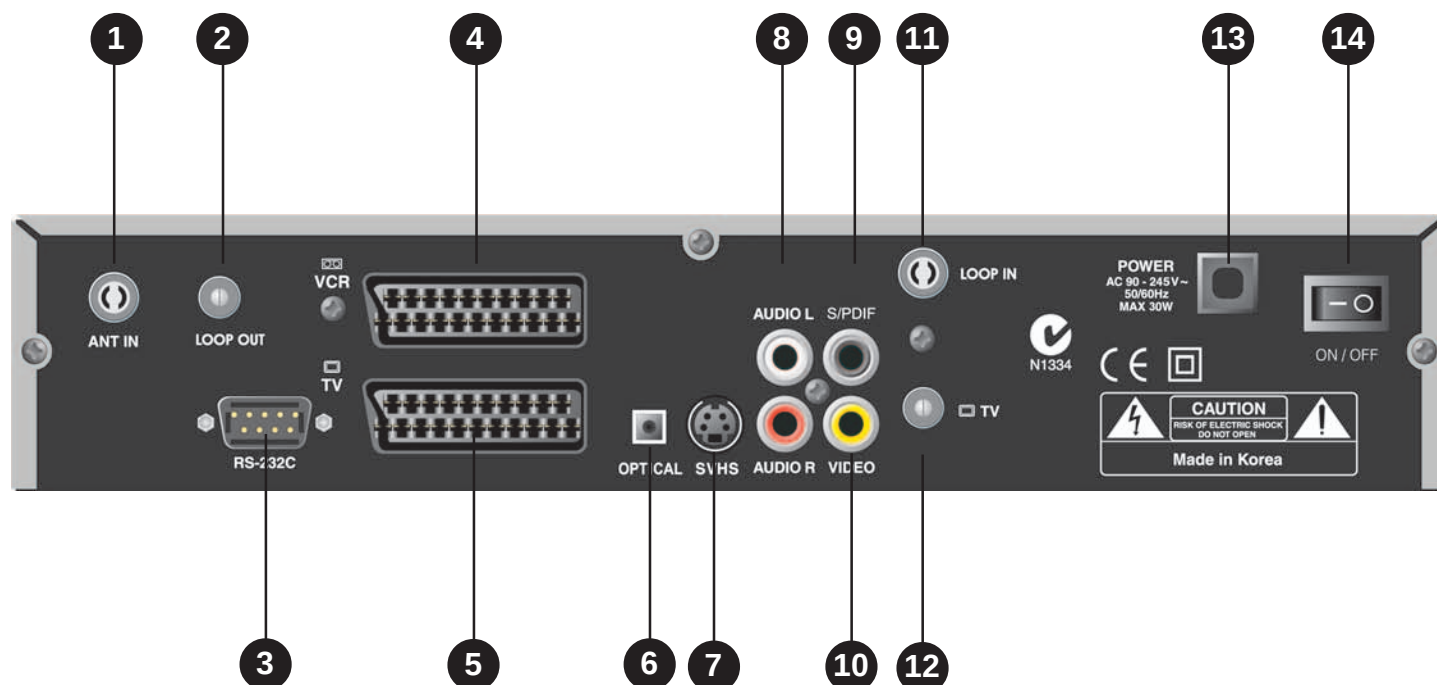
Front Panel



1		Select the Standby/Operation mode.
2		Change settings and to adjust the volume. Change channels up and down by one list page. Select sub-page in the teletext mode.
3		Channel Up and Down.
4	Menu	Display Main Menu. Step back through sub-menus.
5	OK	- Confirm selection of a highlighted item in the menu and to go to the next step. - Display TV/Radio channel list in the viewing mode.
6	4 Digit Display	Displays TV (t) or Radio (r) channel number. Displays time in standby mode.

Rear Panel

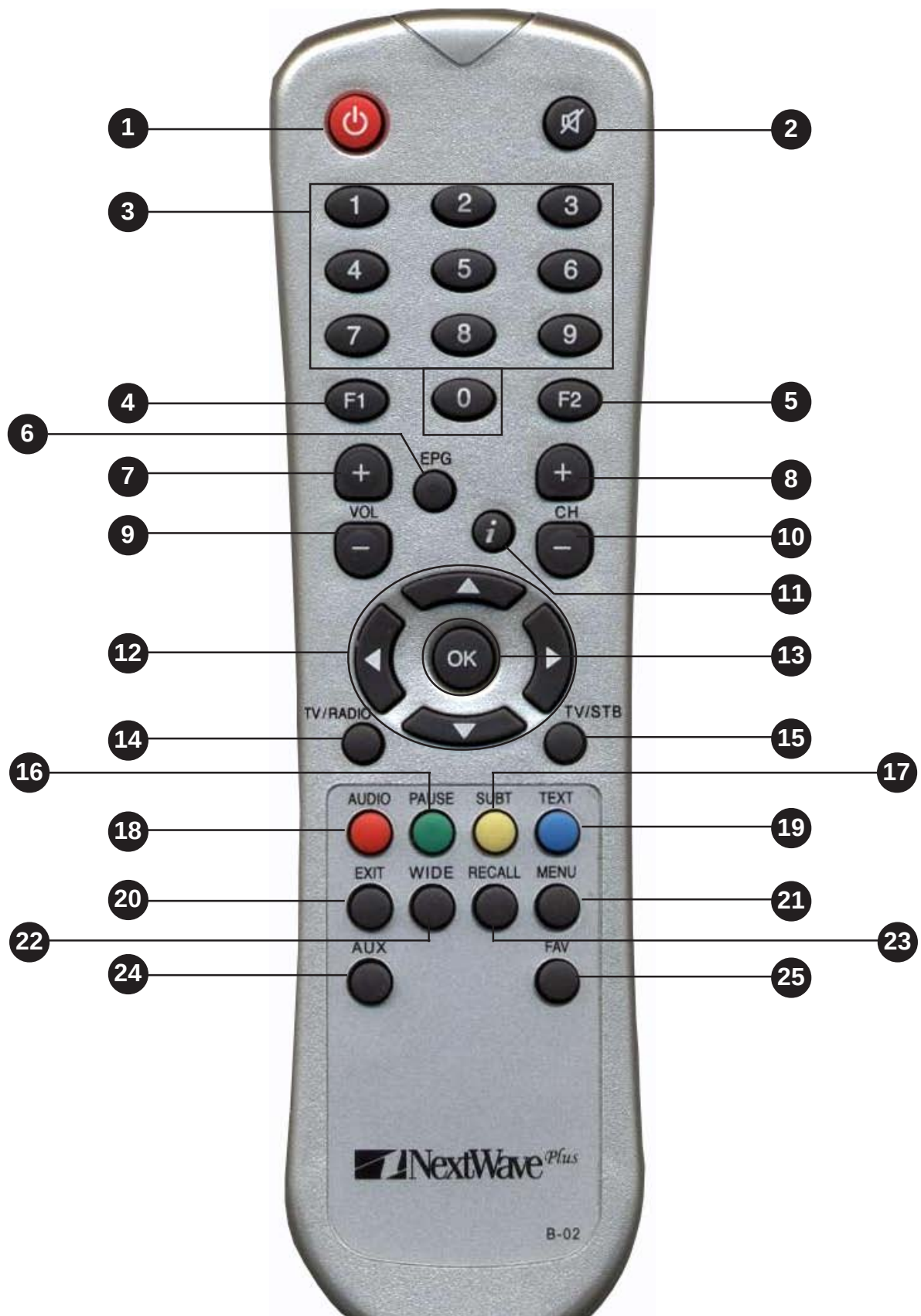
Your NextWave TDR3100 digital TV receiver contains a wealth of connection options. The following diagram illustrates and describes the connection options on the rear panel.



1	ANT IN	Terrestrial (conventional) TV aerial input.
2	LOOP OUT	Same as signal from antenna. Used to connect to LOOP IN.
3	DATA RS232	Software Upgrade Port.
4	VCR SCART	Allows signal input and output. Use AUX button to route signal through STB. (Composite video & Audio L/R).
5	TV SCART	Output signal with RGB, Composite (CVBS) or Component (Y, Cb, Cr) & Audio L/R.
6	S/PDIF TOSLINK	Optical Audio Output. Connect to AV Processor.
7	S-Video	Connect to TV/VCR through S-Video cable.
8	AUDIO LEFT AUDIO RIGHT	Stereo output for connection to a Hi-Fi system or TV Set.
9	S/PDIF Coaxial	Coaxial Audio Output. Connect to AV Processor.
10	VIDEO OUT	CVBS (Composite) video output. Connect to TV/VCR.
11	LOOP IN	Input for signal to be looped out via TV OUT.
12	TV	TV aerial output for feeding to other devices (e.g. TV/VCR).
13	POWER LEAD	Connect to 240VAC mains supply.
14	POWER SWITCH	Turns on/off the STB.

Remote Control

You can operate every function of the NextWave digital decoder using the buttons on the remote control handset. Please read this section to help your understanding of each function.



Remote Control

1		Standby switch.
2		Turn the sound off / on (mute).
3	0 ~ 9	Change channels and to enter characters.
4	F1	Activates Quick-Scan Function.
5	F2	Not Active.
6	EPG	Activates picture in graphics menu.
7 9	CH +/-	Change channels up or down.
8 10	VOL +/-	Adjust the volume higher or lower.
11	i	Information key to display the program information box on the screen.
12		Change channels and move up/down in the menu. Change pages in the teletext mode.
		Change settings and to adjust the volume. Change channels up and down by one list page. Select sub-page in the teletext mode.
13	OK	- Confirm selection of a highlighted item in the menu and to go to the next step. - Display TV/Radio channel list in the viewing mode.
14	TV/RADIO	Switch between TV and Radio.
15	TV/STB	Switch between Digital TV and Analogue TV on Loop through.
16	PAUSE	Freeze the current picture. Press to resume.
17	SUBT	Display/Remove subtitles. In Australia, subtitles are used for “Closed Captioning” (CC).
18	AUDIO	Select soundtrack. If alternate audio (e.g. AC3) is available use arrow to select and press OK.
19	TEXT	Enter teletext mode. In Australia, the 7 Network transmits full teletext.
20	EXIT	Return to the viewing mode from a current menu.
21	MENU	Display or to go back one step in the menu
22	WIDE	Adjust aspect ratio for widescreen (16:9) display or ‘Letterbox’ for a 4:3 TV.
23	RECALL	Toggle between current and previous TV/Radio channels. Change sub-pages in the teletext mode.
24	AUX	Switches between SCART Input and Output.
25	FAV	Edit favourite channels list on the screen and display the favourites list in the TV guide mode. Change sub-pages in teletext mode.

Installation

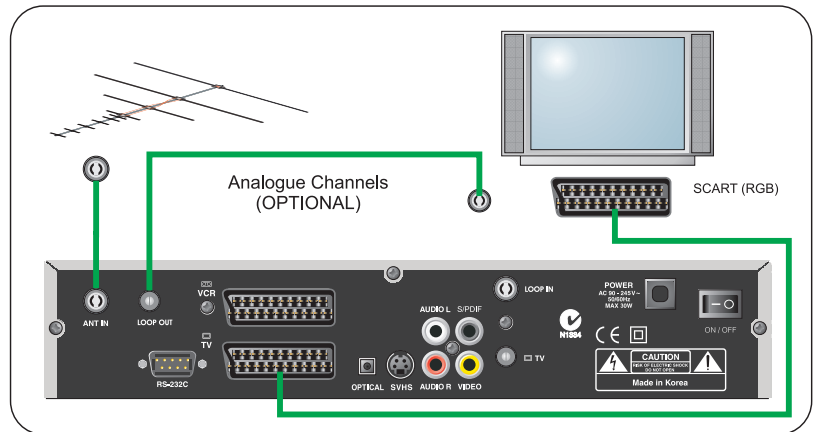
The following diagrams detail the most common ways of connecting the STB to your equipment.

Please Note: RF OUT, COMPOSITE(RCA), S-VIDEO, RGB or Component (Y,Cb,Cr) signals are available at all times. Plugging in to one socket does not deactivate the others. However, Component Out (Y, Cb, Cr) and RGB Out are only available via TV SCART and have to be selected in the Video Configuration Menu. See page 24 for details.

Connecting to a TV

SCART

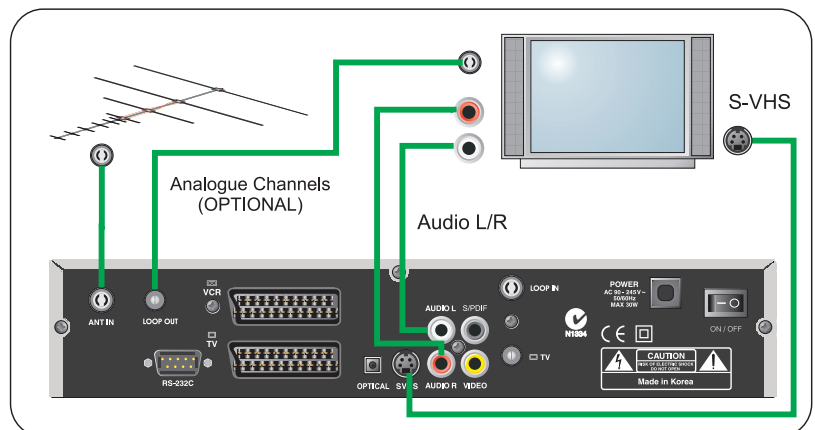
1. Connect the coaxial cable from the VHF/UHF Antenna to the AERIAL socket on the rear panel of the STB.
3. Connect the SCART lead between the main SCART socket on the TV and the TV SCART socket on the rear panel of the STB.



Please Note: To accept the RGB signal, you may have to enable SCART(RGB/Y,Cb,Cr) on your Television.

S-Video

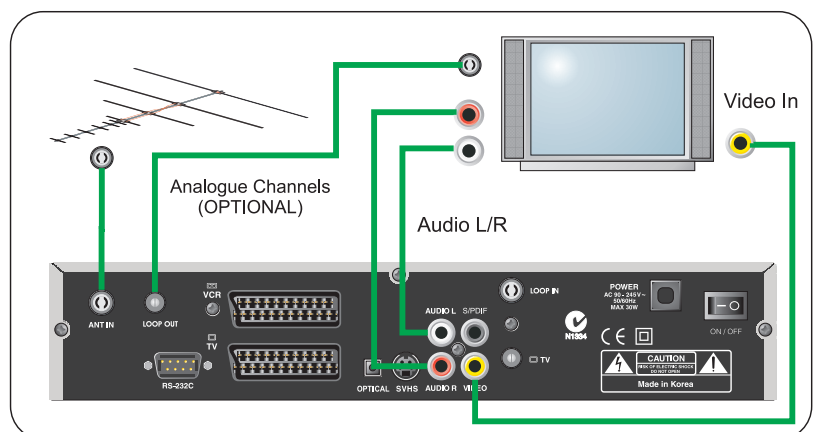
1. Connect the VHF/UHF Antenna to the AERIAL socket on the rear panel of the STB.
2. Connect the S-Video lead between the main S-Video socket on the TV and the S-Video socket on the rear panel of the STB.
3. Depending on your audio needs, link audio output from any one of the three types of audio connections.



Please Note: If your TV set has S-Video inputs, better picture quality can be achieved by using this connection.

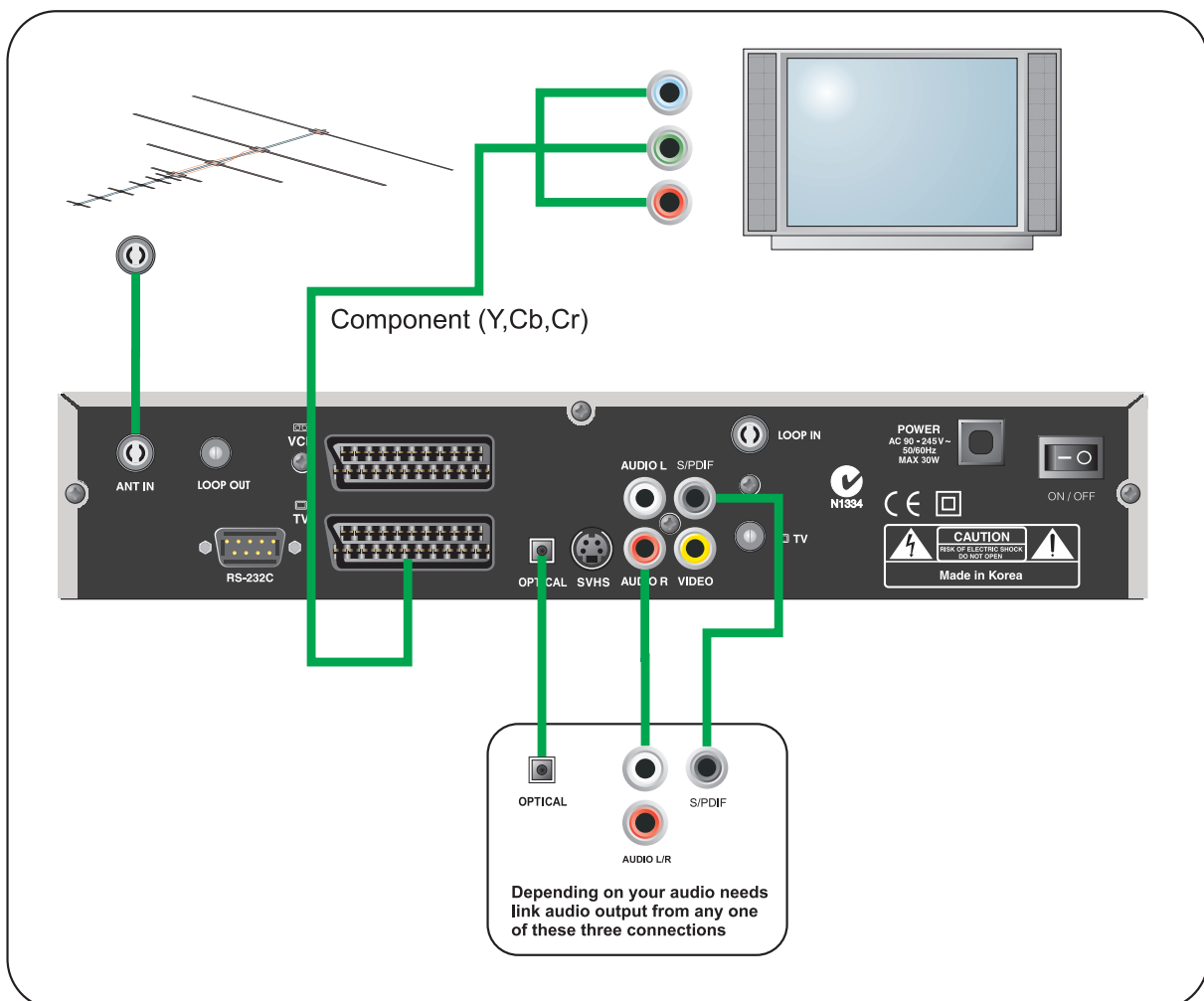
Composite Video (RCA)

1. Connect the cable from the Antenna to the AERIAL socket on the rear panel of the STB.
2. Connect an RCA cable to the VIDEO OUT socket on the STB and the VIDEO-IN RCA socket on your TV.
3. Connect an RCA cable to the AUDIO OUT (L-R) socket on the STB and the AUDIO IN (L-R) RCA socket on your TV.



Connecting to a TV using Component (Y,Cb,Cr) output

1. Connect the coaxial cable from the Antenna to the ANT IN socket on the rear panel of the STB.
2. Connect a SCART to Component (Purchased separately) cable to the SCART TV socket on the STB and the Component IN (Y,Cb,Cr) socket on your TV.
3. Component output needs to be activated via the Video Configuration menu. See page 24 for details.
4. Depending on your audio needs, link audio output from any one of the three types of audio connections.



We recommend quality SignalMAX Cable and Flyleads.

www.signalmax.com.au

Installation

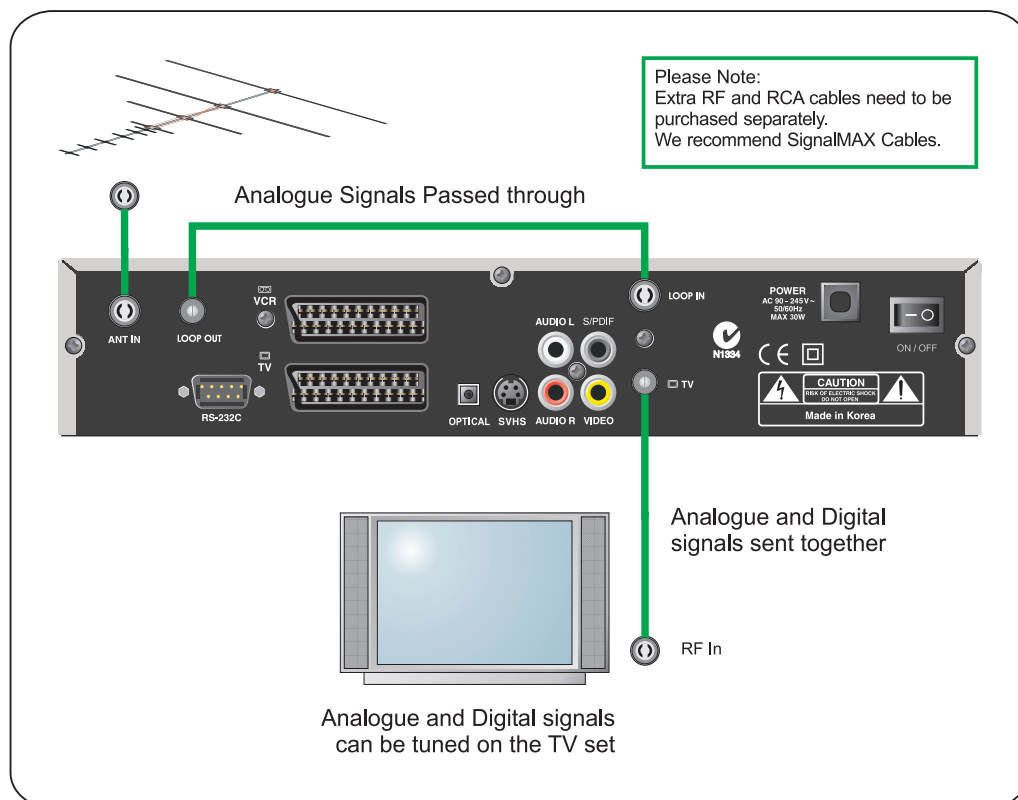
Loop Through Facility

Your set top box has the ability to loop through signals from other sources via the RF loop through method or the SCART Loop through method. **These options are ideal for TV sets with limited inputs.**

Use of RF Loop Through

Where you want to view commercial digital channels and community analogue channels through a single cable, follow these steps:

1. Connect the coaxial cable from the Antenna to the ANT IN socket on the rear panel of the STB.
 2. Connect a RF Flylead (purchased separately) from the LOOP OUT socket to the LOOP IN socket on the rear of the STB.
 3. Connect Flylead (purchased separately) to TV OUT on the STB and TV or RF IN on TV set.
- Tune TV in the UHF band for STB digital output. Refer to your TV user manual for tuning analogue channels.
 - The RF output is programmable from ch 21-69. It is important to select appropriate RF output frequency to avoid interference.
 - If loop through facility is not used, only digital channels will be available via TV (RF out) connection.



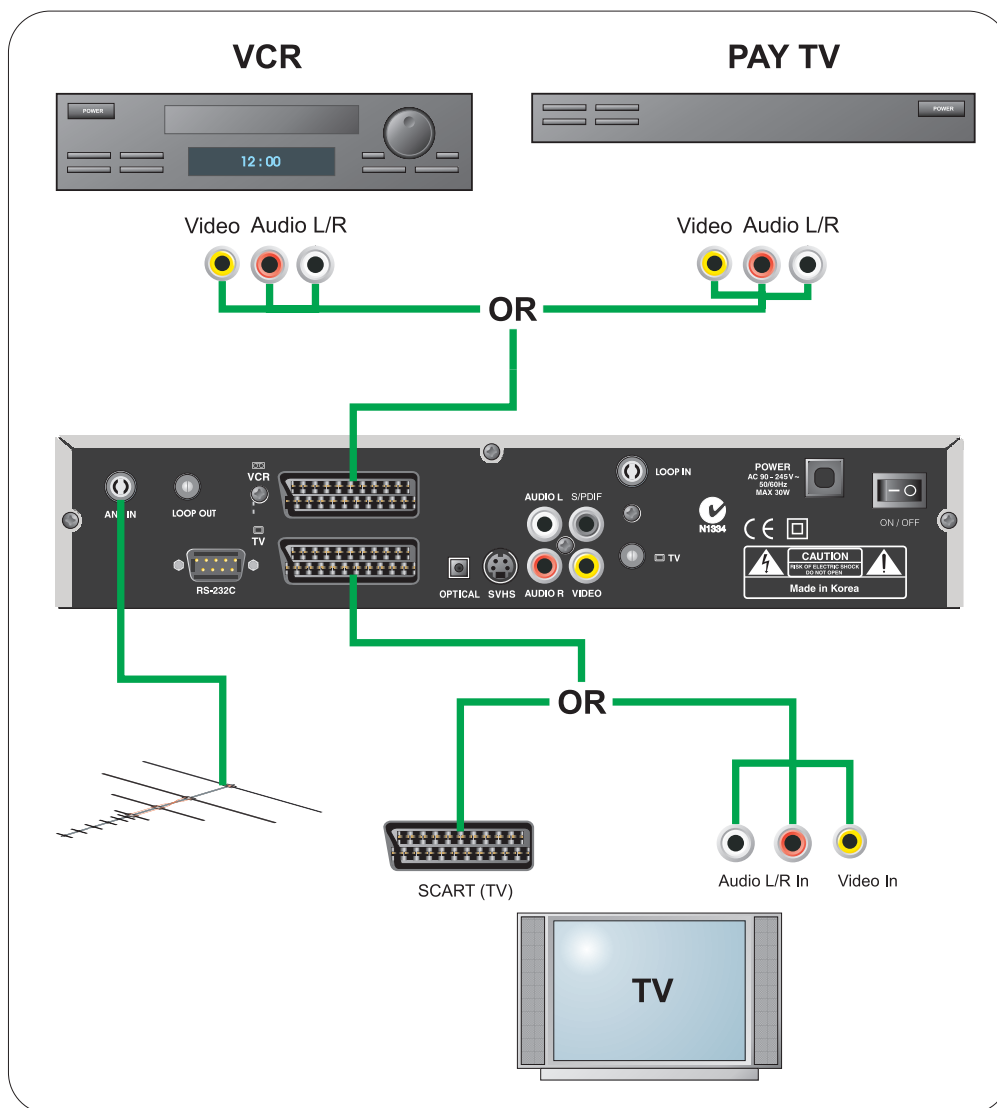
Please Note: It is recommended to use two way splitters for noise free pictures instead of using this connection method.

For other installation tips, please visit the NextWave Digital web site:
www.nextwave-digital.com

Use of SCART Loop Through

This function allows you to use the STB as a router.

1. Connect your VCR or PAY TV STB to the SCART (VCR) input.
 2. Press the AUX button on the RCU.
 3. The picture from your VCR or PAY TV STB will now appear on your TV set.
 4. To watch output from set-top-box Press AUX button again.
- This signal can be routed through to the TV SCART output or the composite (RCA) outputs. Both video signal and audio signal are routed.



Please Note: The switched output is available through the following connectors (RCA/SCART (TV)/RF Out).

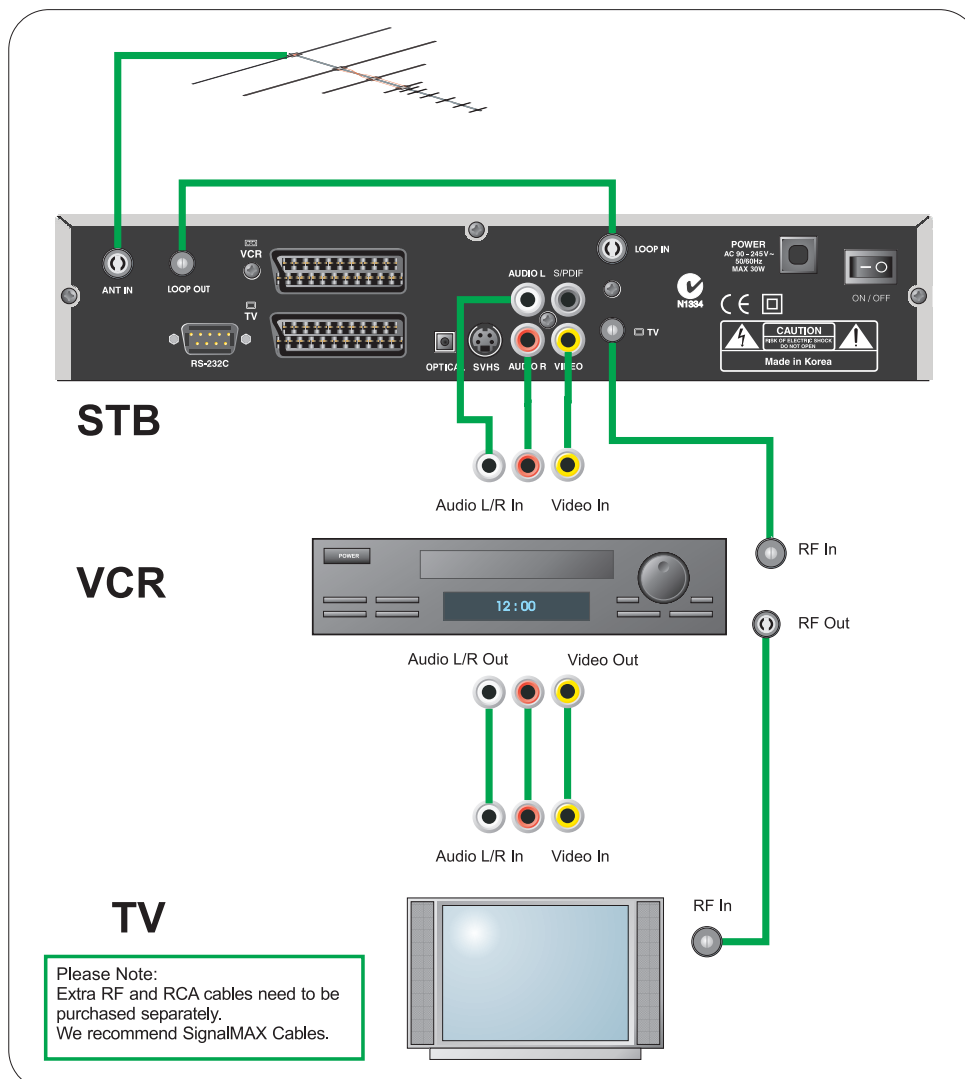
Installation

Connecting a VCR - Method 1.

This method will allow you to watch a digital channel and record an analogue channel or vice versa.

Connecting a VCR - Method 1.

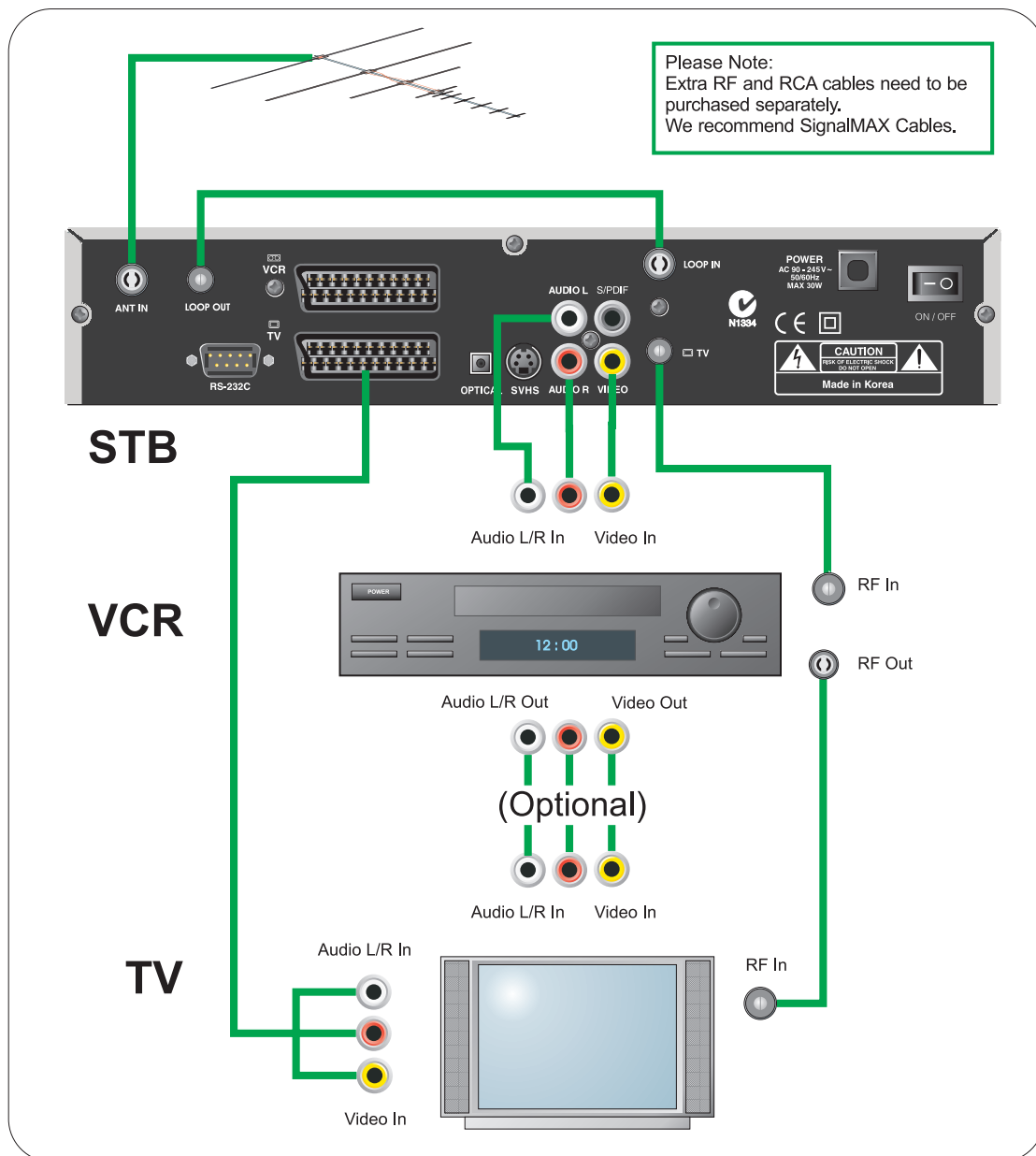
- In this setup your VCR will have to be switched to AV/Line In mode. The signal from the STB will now be routed through the VCR to the TV set **as long as the VCR is switched on**.
- To view VCR program and STB program select AV/Video on TV set.
- If you do not have AV Inputs on your TV set or they are being used for other purposes, you can use the RF input on the TV set to view STB and VCR pictures.
- You can record programs from the STB on the VCR provided AV/Line in is selected.



Please Note: Connecting a VCR in this way is only possible if your VCR has AV Inputs for Audio and Video. The VCR must be in AV or Line In mode to record.

Connecting a VCR - Method 2.

- This setup is identical to method 1 except your VCR does not need to be switched on for digital signals to be received from the STB.
- Extra SCART-RCA cables need to be purchased for this setup.
- You can watch signal from STB on AV mode and record analogue signal from antenna on the VCR on RF mode (2, 7, 9, 10 etc.).
- This method is suits TV Sets with multiple inputs.



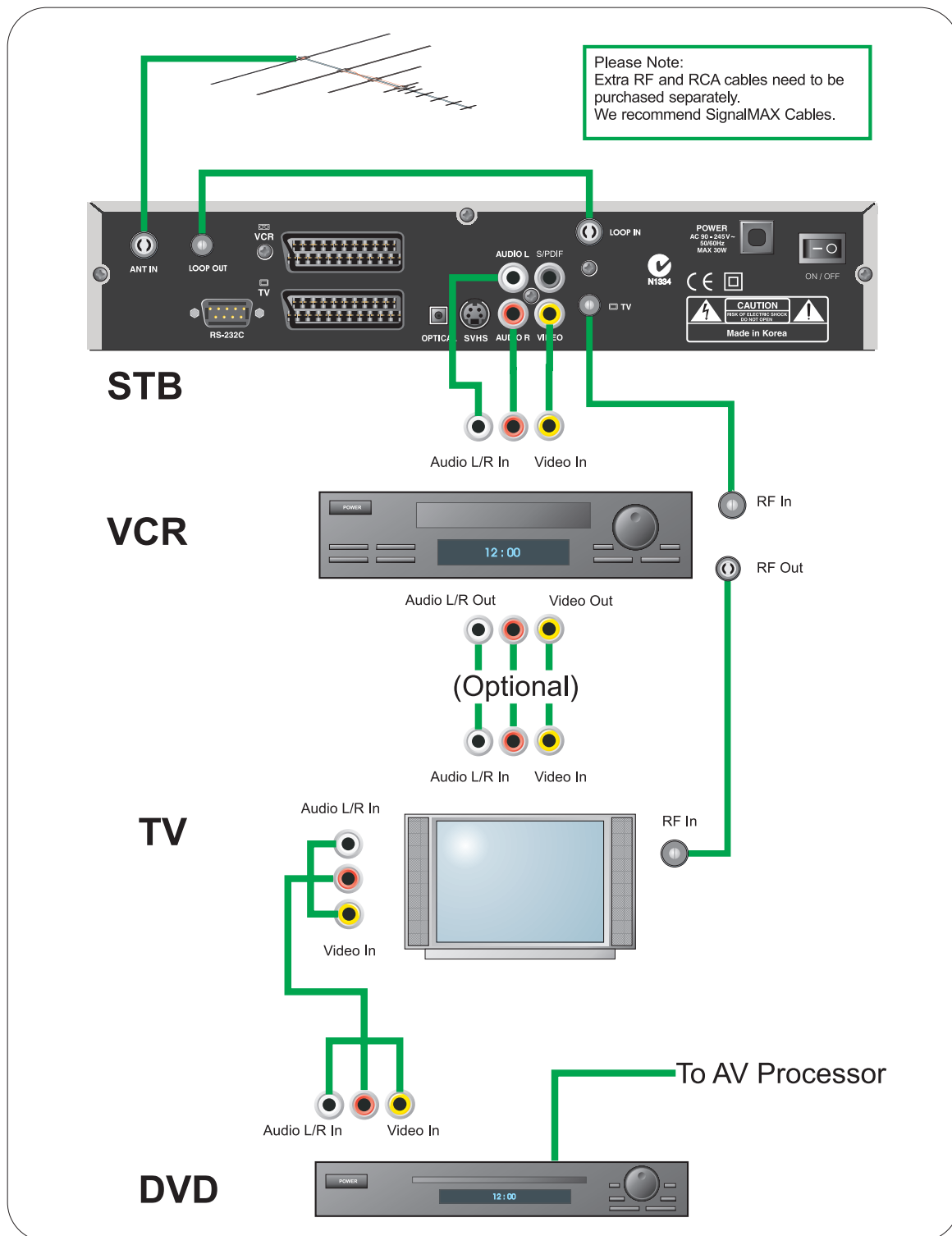
We recommend quality SignalMAX Cable and Flyleads.

www.signalmax.com.au

Installation

Connecting DVD, STB, VCR, TV

- This setup is ideal for a TV Set that does not have multiple AV inputs. If your TV Set has multiple AV inputs (AV 1, AV2, etc) use them as you will retain picture quality.

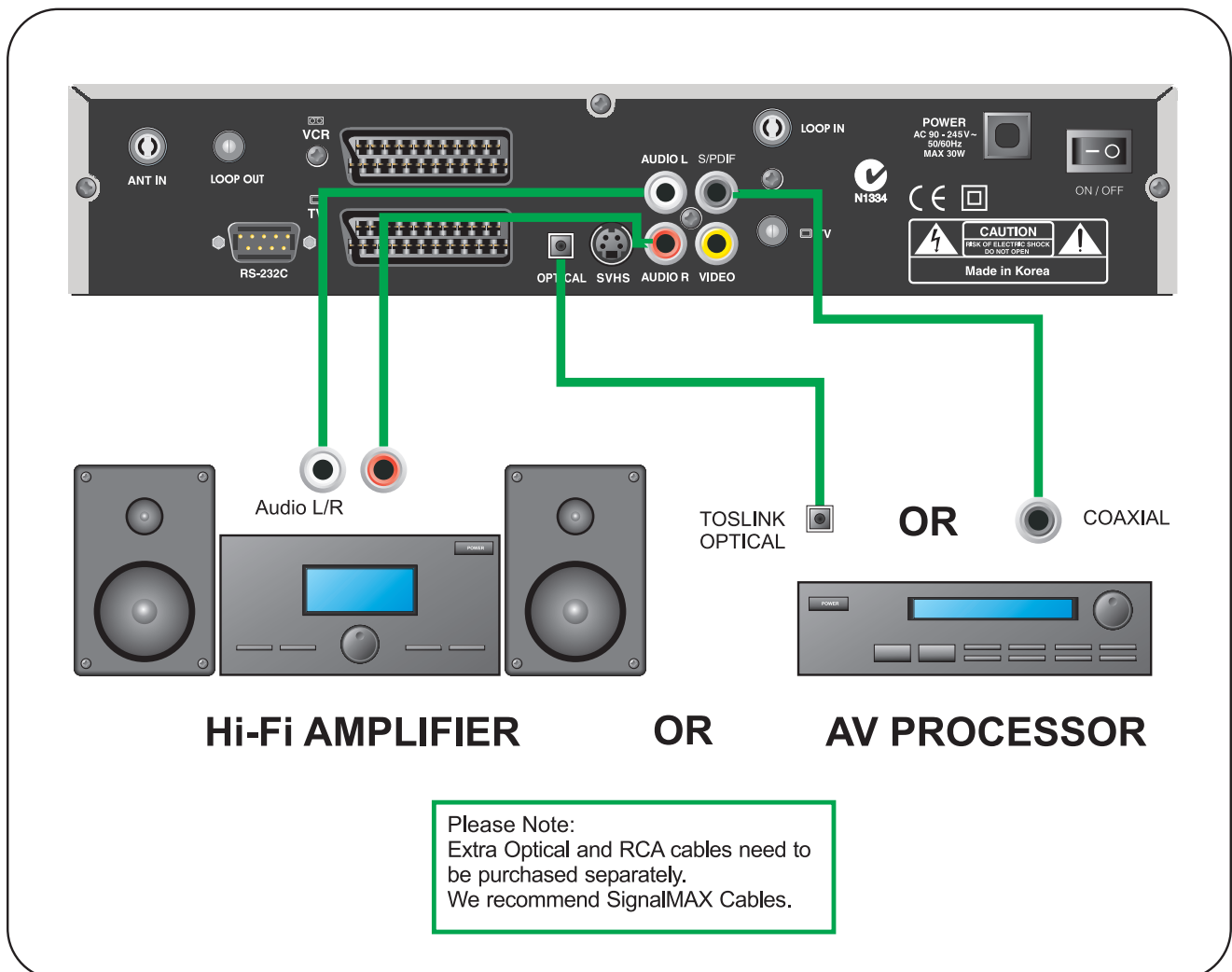


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Connecting to a Hi-Fi system

- Connect a RCA stereo cable from the AUDIO OUT (L-R) sockets on the STB to the LINE IN, AUX, SPARE or EXTRA input sockets on your HI-FI system.
- If available you can connect an RCA single coaxial cable from the SPDIF socket on the STB to your AV Processor. Alternatively you can connect a TOSLINK to TOSLINK cable from the Optical connection from the STB to the AV Processor.

Please Note: If you use coaxial digital or the optical output from the STB, you will be able to hear Dolby Digital audio through your Processor (When available from broadcasters).



For other installation tips, please visit the NextWave Digital web site:

www.nextwave-digital.com

Getting Started

The following section contains all the steps necessary when first installing and using the receiver.

Step.

1

Installation

1. Connect the coaxial cable from the VHF/UHF antenna to the AERIAL socket on the rear panel of the STB.
2. Connect the SCART or RCA leads between the input SCART or RCA socket on the TV and the TV SCART or RCA sockets on the rear of the STB.

Step.

2

Switching on the STB

Press the  button on the remote control or the  button at the front of the STB set.

Please Note: On Standby mode the current time will be displayed.

Step.

3

Basic Presetting

The Menu System

Press the MENU button on your remote control and you will see the Main Menu on the screen. The OK button always confirms your selection and pressing it will take you to the next step. You can also go back to the previous step by pressing the MENU button. You can move upwards and downwards by pressing the   buttons.

Selecting Audio Language

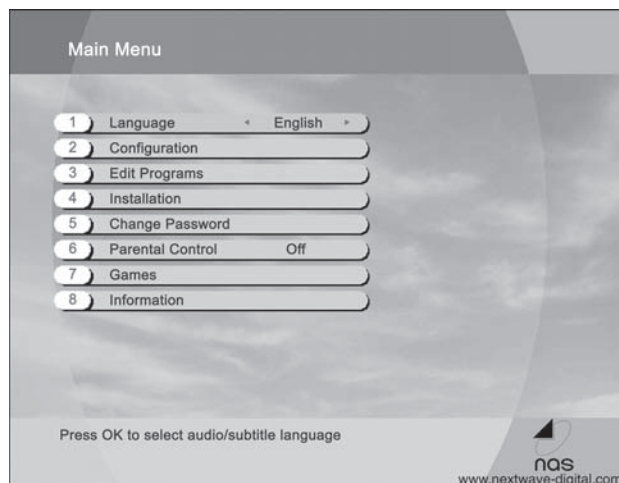
1. Press the MENU button on your remote control.
2. Select 'Language' by using the   buttons and press OK.

The Language menu appears on the screen.

3. Select 'Main Audio' by using the   buttons.
4. You can select your preferred language as a main audio language by using the   buttons. You can also select the alternative audio language and subtitle language in this menu.

Selecting Menu Language

1. Press the MENU button on your remote control. The Main Menu appears on the screen
2. Select 'Language' by using the   buttons.
3. Select desired language by using the   buttons. The menu appears in the selected language.

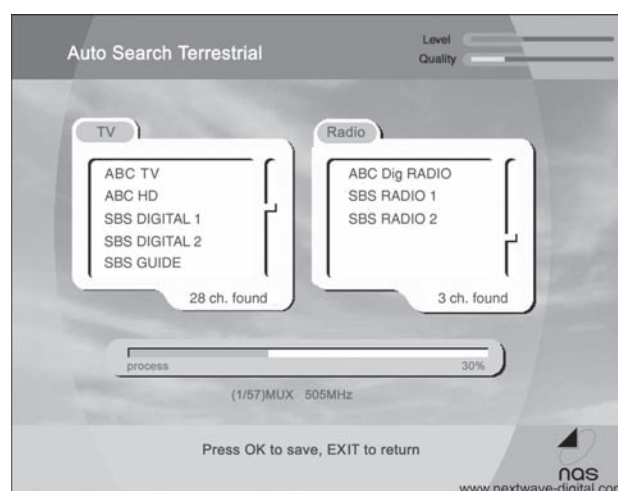
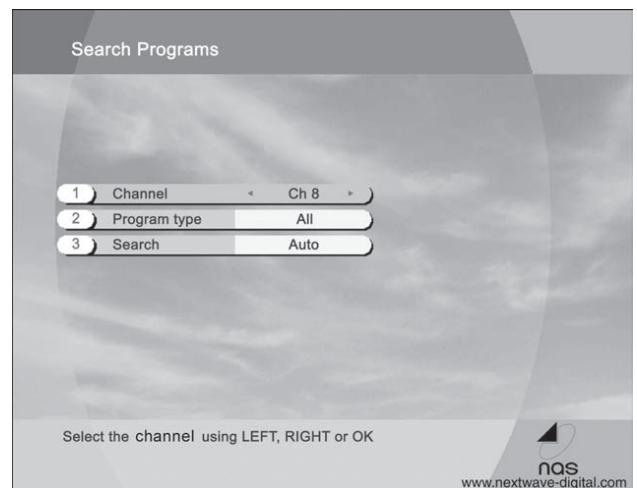
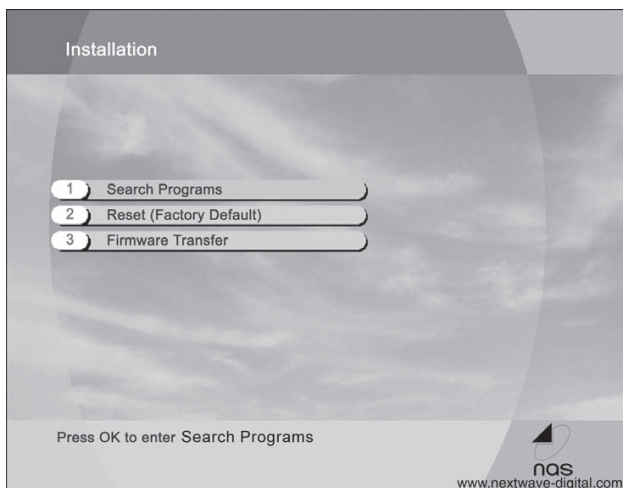


Step.

4

Channel Searching

1. Press the MENU button on your remote control.
2. Select 'Installation' by using the ▲ ▼ buttons and press OK. And you will be asked to enter your password. The password is preset to 0000. And the Installation menu appears on the screen.
3. Select 'Search Programs' by using the ▲ ▼ buttons and press OK. And the channel search menu appears on the screen.
4. Select 'Channel' using the ◀ ▶ buttons.
5. Select 'Program Type' using the ◀ ▶ buttons.
6. Select 'Search' using the ▲ ▼ buttons. And select the scan type using the ◀ ▶ buttons. Press OK.
9. You can watch the search progress on the screen.
10. After scanning press OK to save or EXIT to cancel.



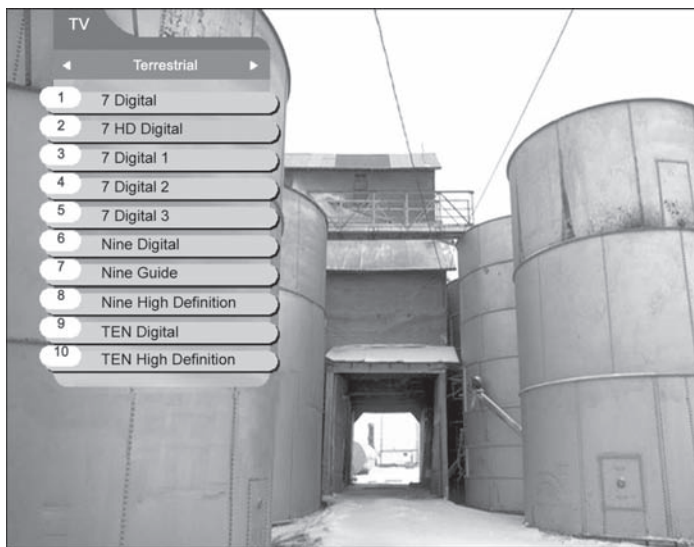
Getting Started

Step.

5

Watching TV

1. Press OK to access the TV Channel List while viewing programs.
2. Select channel by pressing the ▲ ▼ buttons. If the list contains a large number of channels, you can change one page at a time by using the ◀ ▶ buttons.
3. Press OK to view selected channel.



3. Press the EXIT button to leave the Channel List.
4. Press the **i** button to get program information. Press the **i** button again to hide this information.



Indicator Icons:



Closed Caption
indicator



Timer On/Off



Radio enabled/
disabled



Sound On/Off



Teletext indicator



Pause enabled

Information Box

While you are watching TV you can receive Program Information by pressing the *i* button on the remote control. The information includes: current time and date, current channel number and name, signal quality/strength, mute and EPG Information.

Please Note: Some of this information is only available when transmitted by broadcasters.

Signal Strength and Quality

Signal detection can be used to help the alignment of the terrestrial antenna and to view the strength and the quality of signal aerial. The Signal Strength will indicate the average strength of any incoming signal.

Teletext

To view Teletext, use the TEXT key on your remote control. Press EXIT, MENU or TEXT to return to TV/Radio mode. Select the desired page number by using the numeric button directly or the ▲ ▼ buttons. A teletext page may consist of several subpages. In this case an information line is displayed, showing the number of subpages. Select the subpage mode by pressing the ► button. Select the subpage by using FAV or RECALL button. You can also go to the top page by pressing the OK button.

TV Programs

While you are viewing TV or listening to radio you can access the Channel List by pressing OK. Select channel by pressing the ▲ ▼ buttons and then press OK to view selected channel. If the list contains a large number of channels you can change one channel list page at a time by using the ◀ ▶ buttons. You can leave the Channel List by pressing the EXIT button.

User Functions

Program Guide

While you are watching TV or listening to radio you can view the program for each service in the TV Guide mode. To access this mode press the EPG button on the remote control. Change between the TV Guide and Radio Guide by pressing the RADIO button.

You can leave the TV Guide mode by pressing the EXIT button. This mode displays all programs for the day. To view the program list for other days use the ◀ ▶ buttons. You can also move to another channel by using the CH+/CH- buttons.

To reserve a desired program, move the highlight bar using the ▲ ▼ buttons and then press the Yellow button. An orange background shows current program; and grey background shows reserved program. To view the reserved program list, press the Blue button.

Extended EPG

In the Extended EPG menu more information on programs can be accessed. Press the Red button to display Extended EPG. You can go back to the Program guide menu by using the Blue button.

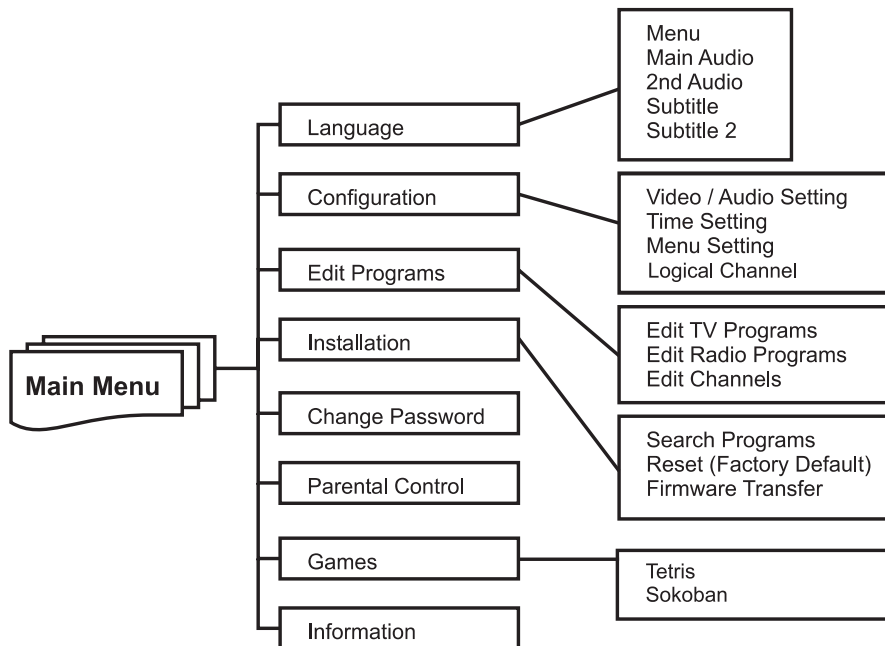
Booking List

This mode shows the reserved program list. If you want to cancel the reserved program, select the program using the ▲ ▼ buttons and then press the Green button. You can also remove all program using the Yellow button. You can go back to the Program guide menu by using the Blue button.

Main Menu

Main Menu

Press the MENU button on your remote control and you can see the Main Menu on the screen. It has 8 items; Language, Configuration, Edit Channels, Installation, Change Password, Parental Control, Games and Information. The OK button always confirms your selection and pressing it will take you to the next step. You can also go back to the previous step by pressing the MENU button. You can leave the current menu to watch TV by pressing the EXIT button. You can move upwards and downwards by pressing the ▲▼ buttons.



Language

You can select which language - English, German, Italian, French, Turkish, Arabic, Spanish, etc.-the menus will be shown in. Select menu language by using the ◀ ▶ buttons. If you want to select audio language or subtitle language, press OK. Then the language menu will appear on the screen.

Menu Language

Select your preferred menu language using the ◀ ▶ buttons.

Main Audio Language

Some service provides the broadcast with one or more alternative language soundtracks. You can select your preferred language as a main audio language by using the ◀ ▶ button.

2nd Audio Language

Select your preferred alternative audio language using the ◀ ▶ buttons.

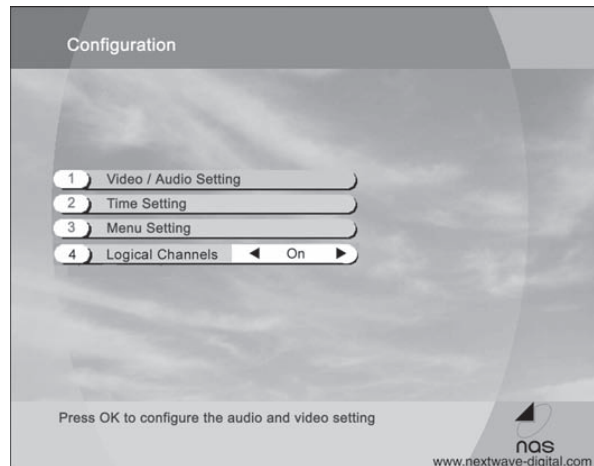
Subtitle Language

Select your preferred subtitle language using the ◀ ▶ buttons.

Main Menu

Configuration

Select the menu 'Configuration' by using the ▲ ▼ buttons and press OK. This menu allows you to configure the output.



Video / Audio Setting

Audio Output

You can select Stereo, Left, Right or Mixed Output mode by using the t u buttons.

Please Note: Use Audio button on remote as a hotkey.

Screen Ratio

You can select TV screen format by using the ◀ ▶ buttons. The 4:3 format is the standard format, the 16:9 for a wide screen TV.

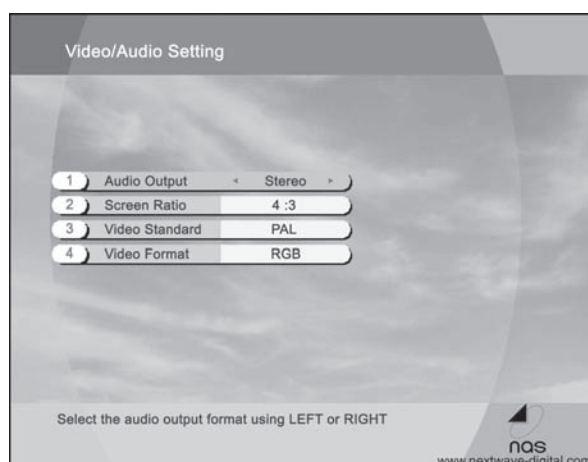
Please Note: Use wide button on remote as a hotkey.

Video Standard

You can select video standard (PAL/NTSC/AUTO) by using the ◀ ▶ buttons.

Video Format

You can select video format (RGB/CVBS/YCbCr) by using the ◀ ▶ buttons.



Time Settings

GMT Offset

If your time zone is different from that of the service provider you can adjust to your local time by using the ◀ ▶ buttons.

GMT offset for:

- Eastern Standard Time is +10:00 hours.
- Central Standard Time is +9:30 hours.
- Western Standard Time is +8:00 hour.

Summer Time

You can enable and disable daylight savings time by using the ◀ ▶ buttons.

Sleep Time (min)

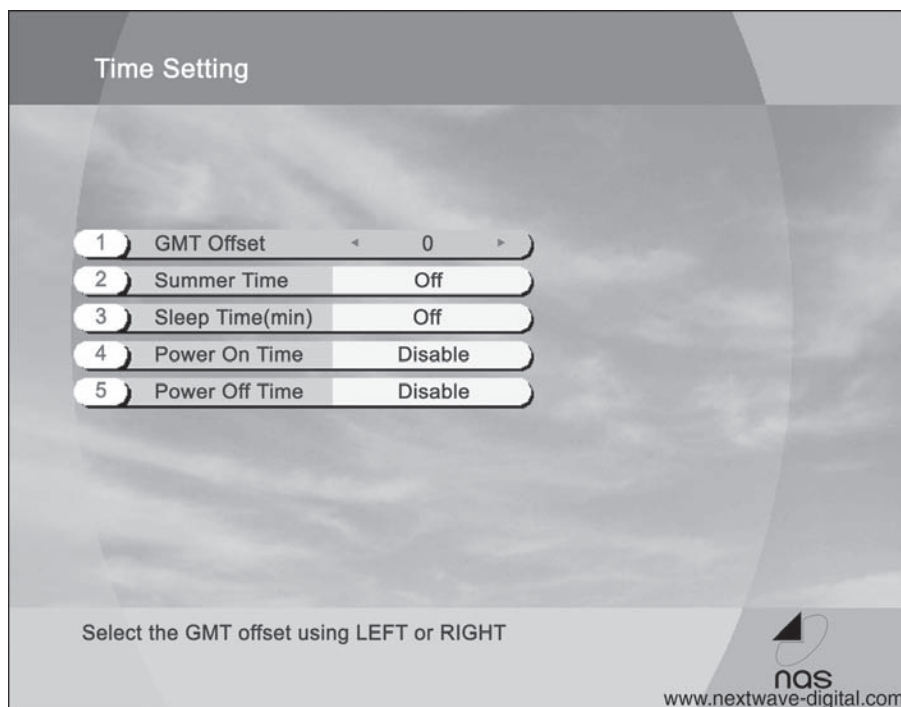
You can select the time for switching off to standby mode by using the ◀ ▶ buttons.

Power-On Time

You can select power-on time by using the ◀ ▶ buttons or the numeric button.

Power-Off Time

You can select power-off time by using the ◀ ▶ buttons or the numeric button.



For other operational tips, please visit the NextWave Digital web site:
www.nextwave-digital.com

Main Menu

Menu Settings

OSD Transparency

You can set the level of transparency for the menu by using the ◀ ▶ buttons.

Display Duration

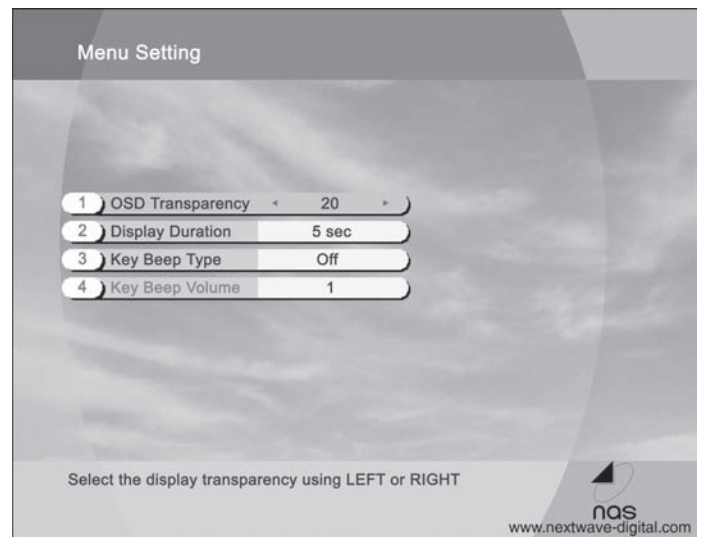
You can change the display time of the OSD menu by using the ◀ ▶ buttons.

Key Beep Type

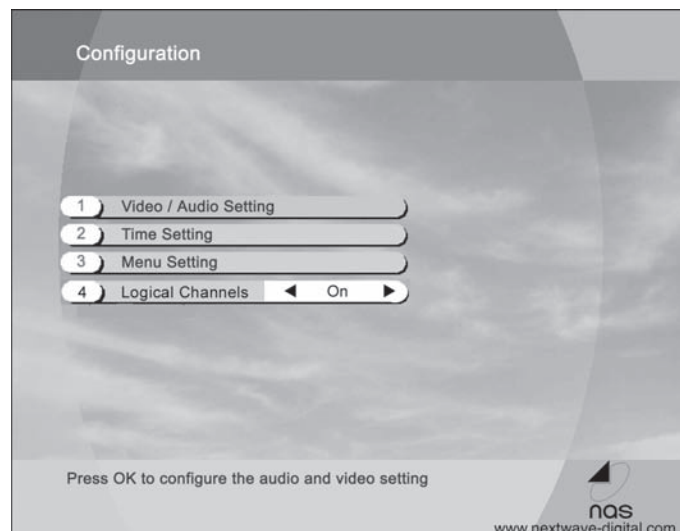
You can select the remote control keypad beep tone by using the ◀ ▶ buttons.

Key Beep Volume

You can select the remote control keypad beep volume by using the ◀ ▶ buttons.



Logical Channel Numbers



The Logical Channel Number (LCN) scheme has been adopted as a standard form of channel identification in the Australian digital broadcasting regime. Some manufacturers have chosen to adopt LCN and others have not. Broadcasters have only just begun identifying their own programs by their unique LCN. LCN is included as an option in the NextWave TDR-3100. LCN may be turned on or off in this by pressing the ◀ ▶ buttons.

For other operational tips, please visit the NextWave Digital web site:
www.nextwave-digital.com

Edit Programs

In this menu you can edit TV channels, radio channels.

Edit TV Programs

Select the channel by using the ▲ ▼ buttons. You can also change one channel list page at a time by using ◀ ▶ buttons. This menu has 7 command items ; Move, Favourite, Sort, Rename, Lock, View, and Delete. You can select the command by using the coloured buttons or the function buttons.

Move Channel

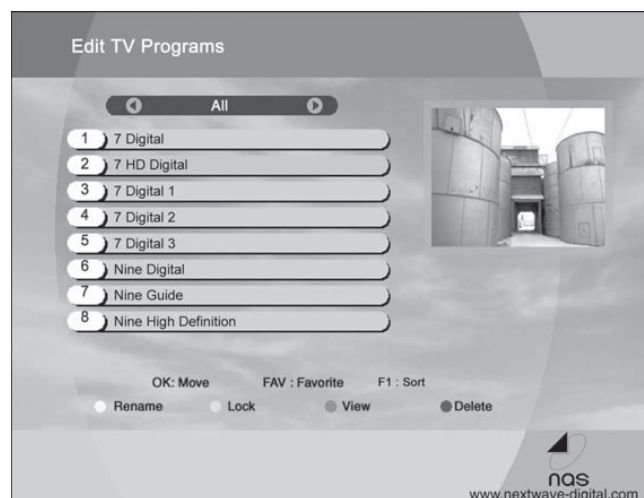
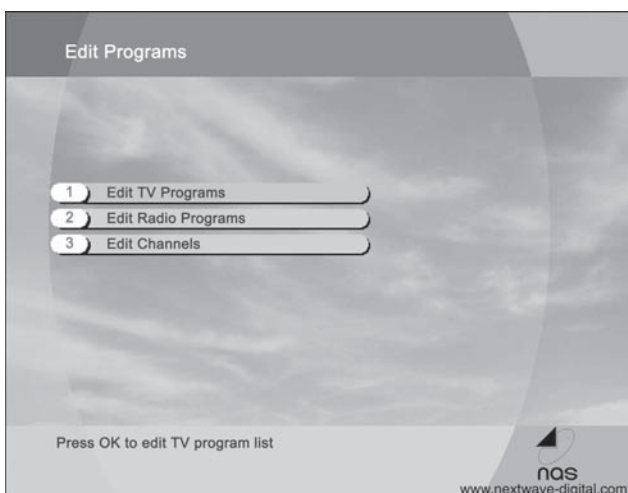
You can rearrange the sequence of the channel list. Select the channel you want to move and press OK then the selected channel will be marked with a symbol. Move the channel to the desired position by using the ▲ ▼ buttons and press OK.

Favourite Channel

You can add channels to the favourite channel list by using the FAV buttons. Selected channel will be marked with a heart symbol. You can also have several favourite channel lists.

Rename Channel

You can change the channel name. Select the channel you want to change and press the red button. The rename box will appear on the screen and you can select the character by using the ▲ ▼ ◀ ▶ buttons and then press OK. If you enter the wrong figure, erase with the RECALL button. Press FAV to save the new name.



Main Menu

Edit TV Programs

Lock Channel

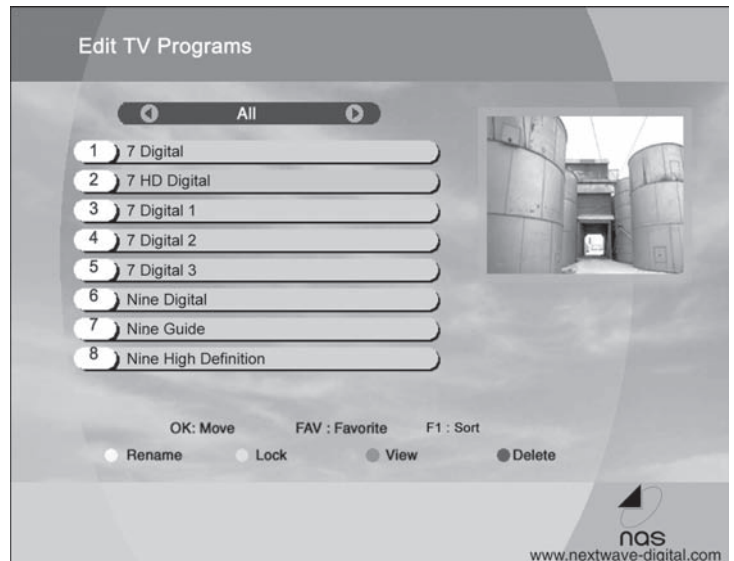
You can lock the channel in order to prevent your children from watching. Press the Green button and then a locked channel will be marked with a padlock symbol.

View

You can use this menu if you are looking for some “special” channels which can only be found when you have entered the necessary settings. Press the Yellow button.

Delete Channel

If you want to delete a channel, select the channel you want to delete and press the Blue button.



Please Note: You can reset and rescan the set top box to restore channels.

Edit Radio Programs

Edit Radio Programs using the same procedure as 'Edit TV Programs' above.

Edit Channels

The 'Edit Channels' function allows users to move or rename network channel groups.

Please Note: Users are advised that this function will not normally be useful or desirable to change.

Installation

Channel Search

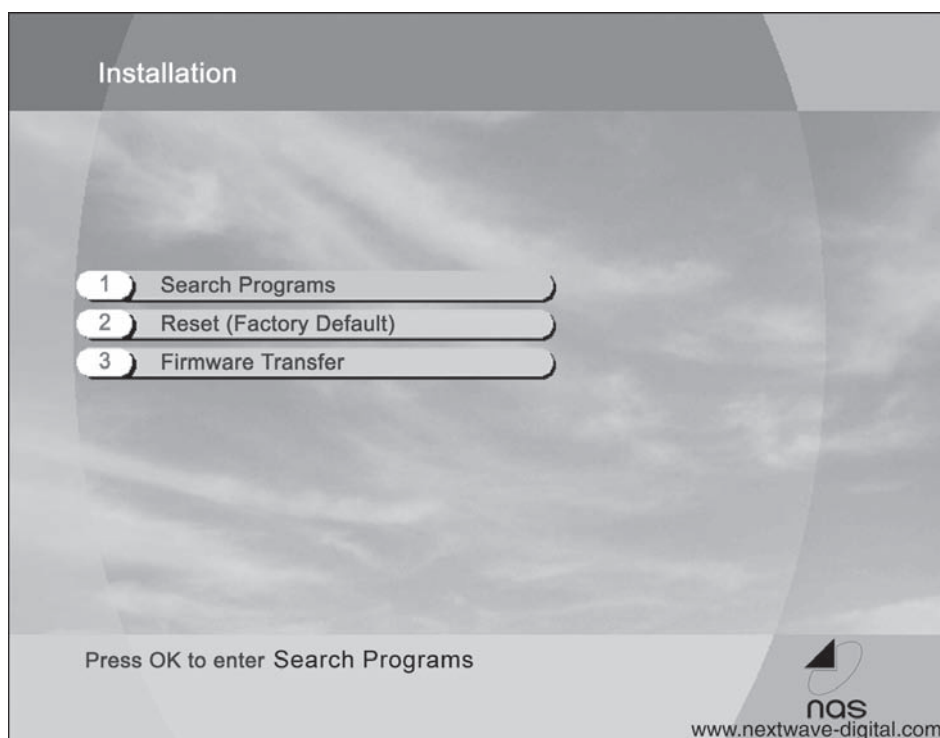
You can search channels in different ways, Please follow to the procedure described on the next page.

Reset (Factory Default)

Use this option only if you have to start the complete installation procedure from the beginning. If you continue from here, all your previous settings, parental code and favorite channels etc. will be erased! If you do not want to change any settings you can leave this menu by pressing MENU or EXIT.

Firmware Transfer

This function should only be performed by a qualified service technician.



Main Menu

Search Programs

Program Type

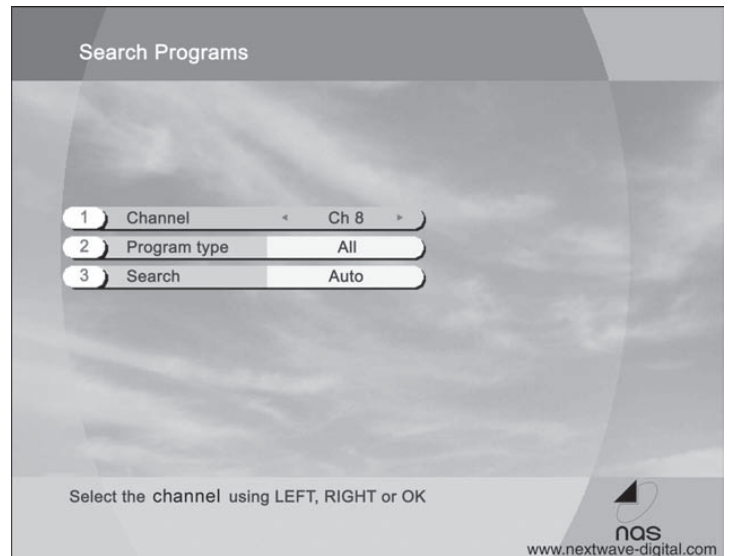
Select program type by using the ◀ ▶ buttons.

Channel

Select UHF or VHF channel by using the ◀ ▶ buttons.

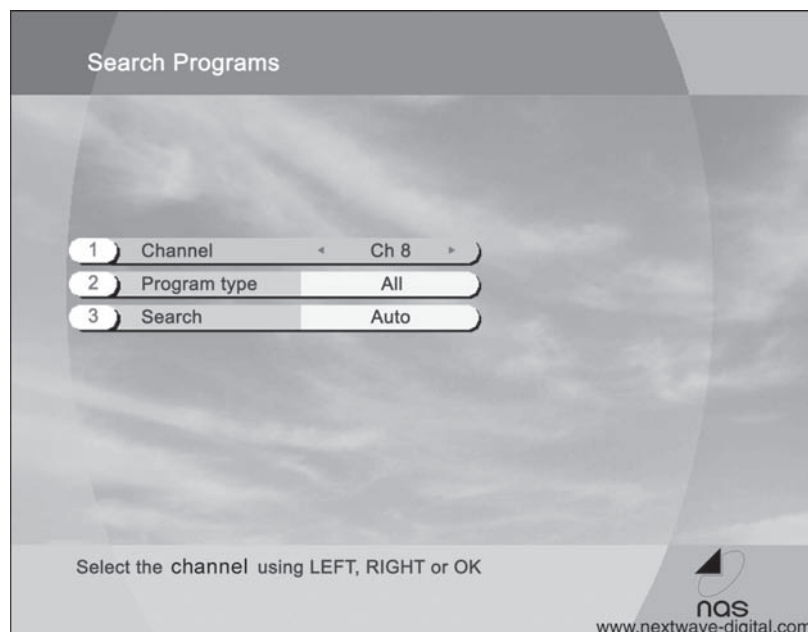
Search

Select search type (AUTO/Manual) by using the ◀ ▶ buttons.



Auto Search

As long as the STB is searching for channels to download, you can see the search progress on the screen. All channels found will be listed in two columns on the screen. TV channels are listed in one column and Radio channels in the other. Please note that the search procedure may take a few minutes. When the search procedure has ended, the screen will show how many TV and Radio channels have been found. Press OK to save the channels.



For other operational tips, please visit the NextWave Digital web site:
www.nextwave-digital.com

Manual Search

Select 'Search' using the ▲ ▼ buttons.

When you perform a 'Manual Search' you first need to enter some parameters for the channel search to work.

Channel

Select UHF or VHF channel by using the ◀ ▶ buttons.

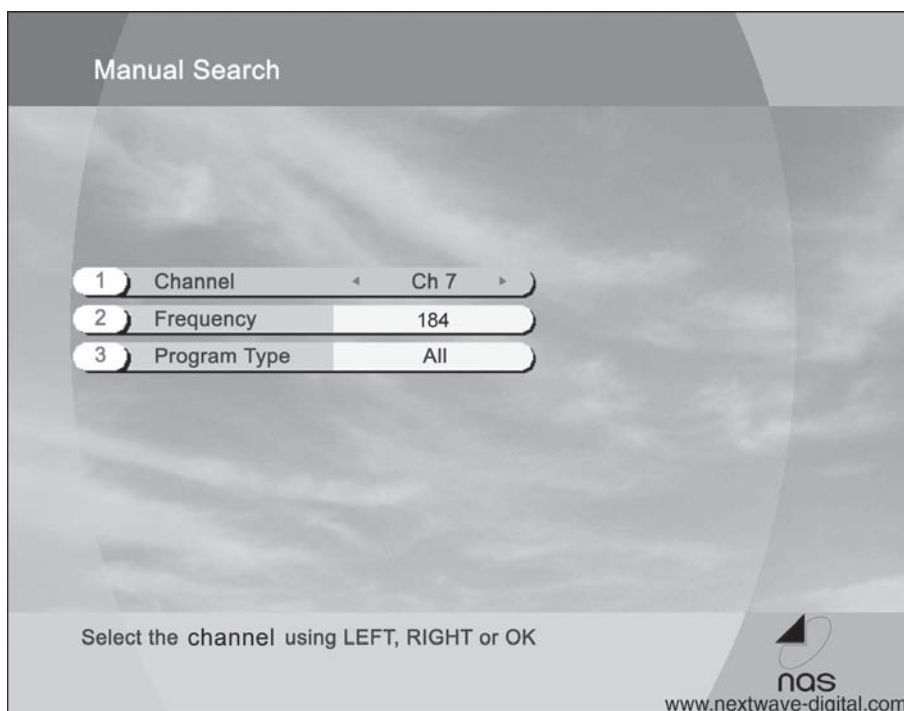
Frequency

Input UHF/VHF frequency that the given channel is transmitted on. The unit is MHz. If you enter the wrong figure, erase with the ◀ button.

Program Type

Select program type by using the ◀ ▶ buttons.

Now you can start searching by press OK in any step.



Main Menu

Change Password

Before you change the password you will be asked to enter your password. The password is preset to 0000. Enter the new password by using the numeric button. If you do not want to change password press MENU.

Parental Control

If you want everybody to have access to all available types of programs, select "Off". You can block program that are unsuitable for children. Select an age limit between 9 and 18 years by using the ◀ ▶ buttons.

Games

Press OK to enter the game menu and then use the ▲ ▼ buttons to play either Tetris or Sokoban. For directions on how to play each game, please follow the On-Screen instructions.

Information

You can check the system information about the model name, the manufacturing date and the version of the software.

*For updated software and upgrading information,
please visit the NextWave Digital web site:*
www.nextwave-digital.com

Possible Setup Faults

STB not responding to remote

- Check and replace RCU batteries.
- Turn STB off (at rear panel) and back on after 10sec.

Picture break up

- Restart STB after turning off for 10 secs.
- Check signal level and quality.
- Check cable and antenna connection.
- (If signal level or quality bars are consistently below 50%, consult your local TV antenna installer.)

Missing channels

- Rescan the STB (using F1 'Quick-scan').
- If still missing channels check signal levels.
- Antenna may need realignment.

No audio

- Restart STB after turning off for 10 secs.
- Ensure **MUTE** is not enabled.
- Check audio cables.
- Use **►** on RCU to fully turn up volume.
- Rescan the STB (using F1 'Quick-scan').
- Press **AUDIO** button and select 'L' and 'R' audio.
- Press **AUDIO** button and ensure that "Dolby Digital" audio is only selected if STB is connected to a Dolby Digital Processor.

No video

- Restart STB after turning off for 10 secs.
- Rescan the STB (using F1 'Quick-scan').
- Check video cables.
- Press **TV/RADIO** to confirm a standard definition TV channel is selected. Occasionally channels may be listed but no program is being broadcast on that channel.

Support is available.

Internet Support:

www.nextwave-digital.com

Telephone support:

1800 338 859

(8:00AM ~ 4:00PM Monday to Friday)

Specifications

Aerial Tuner

Input Frequency	UHF 28-69 [520MHz - 862MHz], VHF 6-12 [174MHz - 230MHz]
RF Input level	-85 ~ -25dBm

Demodulator

Waveform	QPSK, 16 QAM and 64 QAM
Bit Rate	Up to 31.67 Mbps
OFDM Spectrum	2K and 8K modes (Non-hierarchical / Hierarchical)
Guard interval	1/32, 1/16, 1/8, 1/4

MPEG

Transport Stream	MPEG-2
Input Rate	Max. 88Mbps [parallel]
Video	MPEG-2 Main Profile / Main Level
Audio	MPEG-1 layer 1 & 2

Video

CVBS/RGB output level	1Vp-p into 75ohm
Aspect Ratio	4:3 (Full), 4:3 (Letterbox), 16:9

Audio

Sampling Frequency	32/44.1/48 kHz
Frequency Response	20Hz to 20kHz Hi-Fi quality Stereo
Audio output level	2V rms max.

RF Modulator

Output Standards	PAL B/G (Aust.), PAL I, PAL D/K, NTSC
Output Frequency	UHF 28 ~ 69

Connectors

Aerial Tuner	IEC 169-2 Female [ch6~69]
Loop Out	IEC 169-2 Male [ch0~69]
Loop In	IEC 169-2 Female [ch0~69]
RF Modulator	IEC 169-2 Male/Female [ch28~69]
TV SCART	RGB, YCbCr, CVBS, Audio L/R
VCR SCART	CVBS, Audio L/R
RCA Jack	Stereo Audio L/R, CVBS
Serial Port	RS232C 9pin D-sub Male
S-VHS port	Mini - DIN
Digital Audio	Optical (TOSLINK) and Coaxial (S/PDIF) Dolby Digital Bitstream Output

General Data

Supply Voltage	SMPS, Free Voltage [90~245 AC, 50/60Hz]
Power Consumption	Max 25W
Operating temp.	0 C - 45 C
Dimensions	300 [w] X 210 [d] X 62 [h]
Weight	2.1Kg

Please note: The specification of the STB may changed without advance notice.

Component Video

Y,Cb,Cr output available via TV SCART output (to switch on manually, see page 24).

CVBS - Composite Video Baseband Signal

Video signal only. Available through RCA connections, TV SCART output and VCR SCART output.

EPG - Electronic Program Guide

Contains information about current program ('Now') and next program ('Next').

LCN - Logic Channel Number**RCU** - Remote Control Unit

User Interface for controlling STB.

RGB Video

Red, Green & Blue Video signals available via the TV SCART output.

SCART - European 21-Pin connector that delivers RGB, S-Video, CVBS and Component Video.

STB - Set Top Box.

S/PDIF - Sony Philips Digital Interface

Digital audio available via optical and coaxial connections. Use with Audio/Video Processor. Dolby Digital and MPEG audio available through these outputs.

S-Video - Super Video

Video signal only. Available through 4-pin DIN connection.

Teletext

Teletext is a one-way information retrieval service. A fixed number of information pages are repetitively broadcast on unused portions of a TV channel bandwidth. This STB allows teletext to be displayed on a non-teletext TV.

**WARRANTY CERTIFICATE
FOR THE NEXTWAVE TDR-3200
AUSTRALIAN DIGITAL TV RECEIVER**

This product carries a warranty against any defect in workmanship for a period of twelve months from date of purchase.

Under warranty,
repairs will be carried out at an
approved Service Centre

Please keep this Warranty Certificate with your tax invoice as proof of purchase. It will be needed when claiming service in terms of this warranty.

1. The Warranty shall not apply to malfunction or damage after installation, resulting from transport and/or handling or to malfunction or damage due to incorrect voltages or faults in the house wiring, Product misuse, improper use, abuse, neglect or negligence by the Purchaser or anybody else, or to any use of the Product other than that described in the operating manual, malfunction or damage due to fire, earthquake, flood, lightning or any other natural disaster, abnormal voltage, war or any other disturbance (revolution, riot etc), unforeseen accidents, wear and tear, or any other external factors beyond the Manufacturer's control or the control of any Authorised Service Centre, or to any product installed, repaired, adjusted, rebuilt, modified, changed or converted by any person (including the Purchaser) other than Authorised installers or Service Centres, and any Product on which the serial number has been changed, tampered with or removed.
2. This warranty shall not apply to batteries or any other parts of a limited natural life.
3. Where the Purchaser wishes to return the Product other than by hand to an Authorised Service Centre for warranty service, the Purchaser should contact the Authorised Service Centre to make the necessary arrangements and the Product should be returned, at the Purchaser's risk and expense together with a copy of the Warranty Certificate, a valid proof of purchase and a detailed written explanation of the problem.



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