Standard Definition Digital Set Top Box
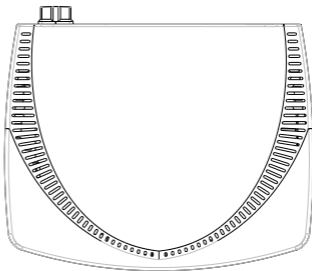
BUSH

DFTA2

The Gold Technical Support Line: 1902215 259
(Charges will apply at $2.95 per minute)

Introduction

Thank you for buying this Bush product, which is designed to give you many years of trouble-free service.

You may already be familiar with using a similar unit, but please take time to read these instructions. They are designed to familiarise you with the unit's many features and to ensure you get the very best from your purchase.

Safety is important
Your safety and the safety of others is important. Please therefore, ensure you read the "Safety Instructions" before you operate this unit.

Warranty
In the unlikely event that your product fails to work normally, please call the below Bush warranty number for support.

Australia
Bush Warranty: 1800 509 394

New Zealand
Bush Warranty: 0800 450 259

Safety Instructions

- Always read the safety instructions carefully
- Keep this Instruction Manual for future reference
- Keep this device away from humidity
- Lay this device on a reliable flat surface before setting it up
- Do not stand it on soft furnishings
- If any of the following situation arises, get the Set Top Box checked by a service technician:

  - ✍ It has been exposed to moisture
  - ✍ It has been dropped and damaged
  - ✍ It has obvious signs of breakage
  - ✍ It has not been working well or you cannot get it to work according to the Instruction Manual

Warning

- To prevent the risk of electric shock, do not open the cover or the back of the receiver.
- Do not block the ventilation holes of the device. Leave appropriate gap above and around it to allow for adequate ventilation.
- Do not place the device in an unventilated cabinet or on top of a unit which emits heat.

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Disclaimer

Information in this document is subject to change without notice.
The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or cords.

About the Set Top Box

This Set Top Box allows you to access Standard Definition Free-to-Air Digital TV Channels and Radio Broadcasts on your TV set. Its digital reception covers VHF & UHF band. Digital TV eliminates noise and interference and offers high quality video and audio.

An easy to use on-screen installation guide is provided. In addition, a fully featured Remote Control is included that offers you access to every feature with a simple press of a button.

Main Features

Standard Definition Digital TV Ready
Composite Video Output
RF Loop Through
Simple To Use Automatic Set Up System
7 Day Manufacturers Program Guide
Automatic Channel Search
DVB Compliant
Easy Menu System
Teletext
Remote Control
Parental Control

Package Contents

Before installation, please check the items of the package.
The package should contain the following items:

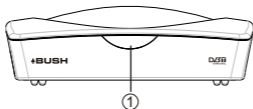|	
~ Set Top Box	x1 pc
~ Remote Control	x1 pc
~ AAA Battery for the Remote Control	x1 pair
~ Instruction Manual	x1 pc
~ Composite RCA Cable	x1 pc

Table of Contents

Panel Illustration
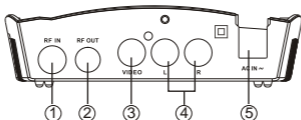
1. Front panel

1. REMOTE CONTROL SENSOR: The remote control sensor receives the
signal from your remote control.

2. Rear panel

1. RF IN: The RF IN allows you toconnect your external aerial.

2. RF LOOP THROUGH: The RF Loop Through Inputallows you to connect to
your aerial through either yourTV or other home entertainment device.

3.COMPOSITE VIDEO Out: The Composite Video Output allowsyou to
connect the Set Top Box to your TV. Providing you with digital picture.

4. AUDIO L/R: The Audio L/R Outputallows you to connect the SetTop Boxto
your TV. Providingyou with digital Audio.

5. MAINS POWER INPUT: The Mains Power input allows youto connect the
Set TopBox your main power supply.

Remote Control
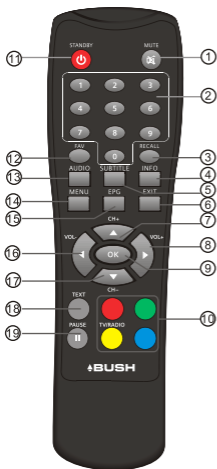
Remote Control Functions:

1. MUTE: Press the Mute Button to turn the sound on or off.

2. NUMERIC BUTTONS: Press the Numeric Buttons to select a channel directly or to enter your password or Teletext options.

3. RECALL: Press the Recall Button to return back to the last program you were watching.

4. INFO: Press the INFO Button to display the program information of the channel you are watching.

5. SUBTITLE: Press the Subtitle Button to turn on or off the Subtitle feature.

6. EXIT: Press the EXIT Button to cancel and exit any menu options.

7. CH+: Press the CH+ Button to scroll up through the channel list or menu options.

8. VOL+: Press the VOL+ Button to increase the volume or navigate through the menu.

9. OK: Press the OK Button to confirm a selection within the menu.

10. RED/ GREEN/ YELLOW/BLUE BUTTON: Press the Red/Green/Yellow/Blue Button to operate different functions in the Teletext menu. Press the Yellow Button to also switch between TV and Radio mode.

11. STANDBY Button: Press the Standby Button to turn the unit on or off.

12. FAV: Press the FAV Button to enter your favourite channels list.

13. AUDIO: Press the Audio Button to select and set the sound output. You can select Stereo, Left, Right, Mono.

14. MENU: Press the Menu Button to enter the Main Menu.

15. EPG: Press the EPG Button to enter the 7 Day Manufacturers Electronic Program Guide to display the week's channel information.

16. VOL-: Press the Vol- Button to decrease the volume or to navigate the menu.

17. CH- : Press the CH- Button scroll downwards through the channel list or navigate the menu.

18. TEXT: Press the Teletext Button to enter the Teletext OSD Menu.

**19. PAUSE:** Press the Pause Button to pause or playback the program being viewed.

Note: SUBTITLE/TEXT/LANGUAGE may not be available for all channels

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Installing the Batteries

Remove the battery cover from the remote control and put 2XAAA size batteries inside the compartment. The diagram inside the battery compartment shows the correct way to install the batteries.

1.Open the cover	2.Install batteries	3.Close the cover
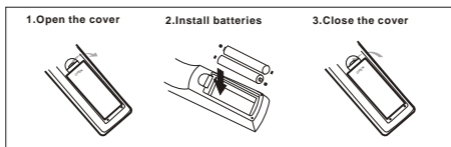
Using the Remote Control

To use the remote control, point it towards the front of the digital set top box. The remote control has a range of up to 7 metres from the set top box at an angle of up to 60 degrees.
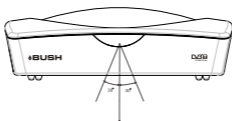
The remote control will not operate if its path is blocked.

Sunlight or very bright light will decrease the sensitivity of the remote control.

Caution: Make sure to check the voltage specification of the wall outlet is the same rating with the receiver. To prevent the risk of electric shock, do not open the cover or the back of the receiver.

TV Aerial

RF IN RF OUT

VIDEO L R AC IN ~

AUDIO/VIDEO OUT

ALLOWS THE RECORDER TO
RECORD DIFFERENT CHANNELS

ENABLES THE RECORDER TO
RECORD THE DIGITAL CHANNEL YOU
ARE WATCHING

RF IN

**DVD RECORDER
OR VCR**

AUDIO/VIDEO IN

R
L
VIDEO

R
L
VIDEO

AUDIO/VIDEO OUT

AUDIO/VIDEO IN

R
L
VIDEO
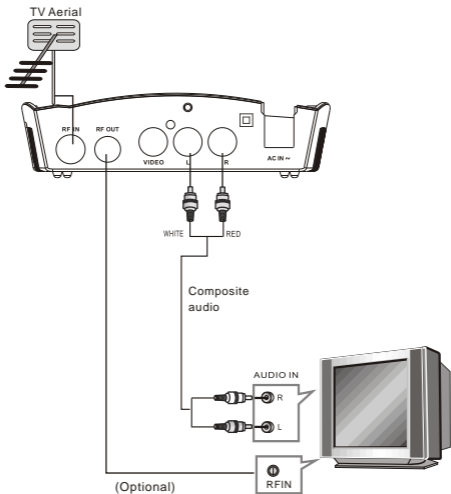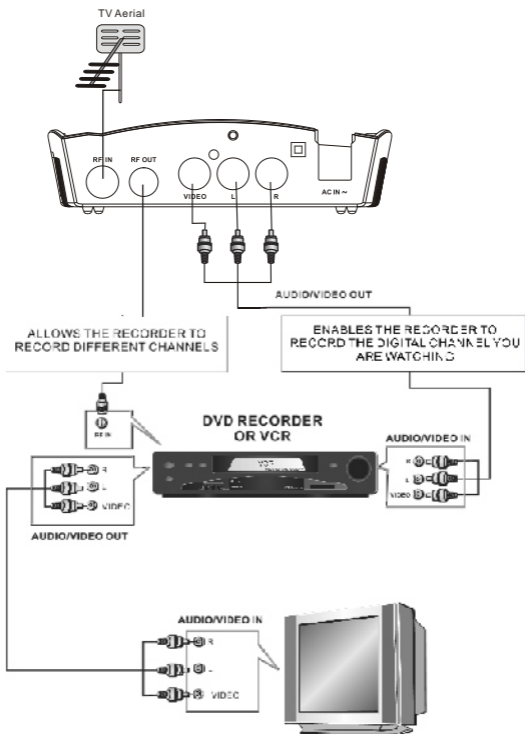
Basic Operation

1.Quick Installation

1.1 Setting Country and Language
After you have connected the Set Top Box follow the below steps to begin the Installation Guide:
1. Press the Menu Button to enter the Main Menu.
2. Use the Navigation Buttons to select the SETUP sub-menu.
3. Then use the Navigation Buttons to select the Installation option.
4. Press the OK Button to then confirm.

When you have entered the Installation menu you will be asked to set the Country and Language you desire. Follow the below steps to confirm.
1. In the Installation option use the Navigation Buttons to select the Country option.
2. Then use the Navigation Buttons to select the Country Setting.
3. Press the Navigation Buttons to select the OSD Language option.
4. Then use the Navigation Buttons to select and set a language.

1.2 Updating your Channel List?
You can update your channel list by conducting either an Auto Scan or Manual Scan. Follow the below instructions on how to update your channel list.

1.2.1 Auto Scan
Auto Scan will erase the channel list and scans for all available stations. To conduct an Auto scan follow the steps 1-8 of section 1.1 and then press the Red Button on the remote control to check the channel list is clear. Press the OK Button to confirm clear action and start Auto Scan. Press the Exit Button to cancel and exit the Auto Scan menu.

Figure 1. Clear database message

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1.2.2 Manual Scan
You can Manually scan for available stations via **Manual Scan**
without deleting the current list. To conduct a Manual Scan follow
the steps 1-8 in section 1.1.
Then press the Green Button to enter **Manual Scan** Menu.
Press the Up/Down Button to select the **Frequency** option.
Use the Numeric Buttons to put in the **Frequency**/station you would
like to search for.
Then select the **Bandwidth** by using the Navigation Buttons.
Press the OK Button to confirm and begin scan.
Press the Exit Button to exit.

Figure 2. Manual Scan edit

2.Menu Operations

Once the channel scan is finished and all the channels are stored
into the database, you can start to watch the digital terrestrial TV
channel or listen to the radio broadcast, some typical operations are
given in this chapter.

2.1 Main Menu
To view the Main Menu, press the Menu Button, then follow the
prompts to the relevant sub-menus and settings.

2.2. LCN
Set the Logical Channel Number to on or off.
Note: LCN is a number that uniquely identifies a logical channel,
which is popular in some european countries such as England, France.

2.2.1 Daylight Saving/Region Setting/Time Zone
Allow you to enable or disable daylight saving. If you know the region of
your location, select an appropriate Region Setting or set the Time Zone
offset manually.

2.2.2 TV Setup
Setup the display mode for TV. See Figure 3.

Figure 3. TV Setup

Figure 4. Video Enhancement

2.2.2.1 TV Format
Set display format for watching program, such as **4:3LB, 4:3PS,
16:9PB,16:9 FIT.**
4:3LB(LetterBox): Typically for wide screen content displays on
conventional 4:3 TV with black bars above and below the picture.
4:3PS(PanScan): Typically for wide screen content displays on
conventional 4:3 TV with left and right edges cropped.
16:9PB(PillarBox)/16:9 FIT: Typically for wide screen 16:9 TV.

2.2.2.2 OSD Transparency
You can change the On Screen Display transparency with this
setting. Use the Navigate Buttons to adjust.

2.2.2.3 Banner Display Time
You can set the Banner Display Time with this setting. Use the Navigate Buttons to adjust.

2.2.3 Password
Set or change the password select Password setting and enter the default pin code 6666 and then enter the new password using the Numeric Buttons.

2.2.3.1 Menu Lock
Lock the menus by password.

2.2.3.2 Channel Lock
Lock the channel which has been set to lock status when turning on the
Channel Lock. Please see section **2.3.1.2** for details.

2.2.3.3 Censorship Lock
Lock the program by password and censorship threshold.
The censorship info is in program content. Under the censorship rating,
user has to enter the right password for watching program.

2.2.4 Advance Timer
You can set a scheduled program reminder manually or via the TV/Radio EPG.

2.2.5 Factory Reset
When you restore your Set Top Box to the factory default settings, all settings will be deleted and you will need to rescan for all available channels.

2.3 TV/RADIO
To switch between TV and Radio mode press the TV/Radio Button.
The operation of the List and Guide of TV and Radio work and follow the same steps.

2.3.1 List

Favorites
To set a program to your favourite list press the FAV Button. There are 8 groups of favorites for you to set your favourite program to (News, Sport, Movie, Music, Shopping, Travel, Boy and Girl). Use the Numeric Buttons to select to Favourite group you wish to set.

Lock
If a program is password protected you will need to enter the set password to unlock before watching when the Lock Function is activated.

Figure 5. TV List

Rename
Rename will allow you to change the name of a program in the program list. The maximum length is 20 characters. Use the Navigate Buttons and Numeric Buttons to select to the characters to change the program name. To save press the Red Button and OK Button. Press the Exit Button then exit the setting.

Move
Move will allow you move the position of a channel in the list.
Note: This option will not appears in this list when SETUP->Installation ->LCN is set to ON.

Sort
You can sort the program list as desired. You can sort by A<->Z or Pay<->Free.
Note: This option will not appears in this list when SETUP-

Skip
To set a program to Skip in the program list, press the OK Button on a selected program and a skip status will be activated.

Delete
To delete a program from the program list, press the Green Button when the program has been selected. Then press the OK Button to confirm. The program will now be removed from the program list.

Search
You can search for a program by name using the search function. In the Program Menu press the Left/Right Buttons to select Search option and press the OK Button. In the Search menu, press the Navigate and Numeric Buttons to input the search term. Press the OK Button to confirm and begin search.

2.3.2 Manufacturer Electronic Program Guide (EPG)
The EPG provides you with program information about the programs scheduled for the next 7 days. To enter the EPG Menu, press the EPG Button on your remote control. The use the Navigate Buttons to scroll through the information displayed. Press the OK Button to show detailed information of the program selected. To exit press the Exit Button.

Figure 6. Guide - Event

(1) Press <RED> button to enter Book page and <YELLOW> button to save after edited. If it conflict with itself or other event, a conflict message will be displayed. The successful booking will be added to Main Menu-> SETUP->Advance Timer(see section 2.2.4).

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3. Daily Operation

3.1 Information
To view the information of the program you are watching, press the Info Button and the information will be displayed.

Figure7. Normal Play - Radio

Figure 8. Program Info

3.2 Changing the Channel
To change the channel, press the CH+/- Buttons or use the Numeric Buttons to input the program number directly. You can also press the Recall Button to return to the last program you viewed.

3.3 Volume
To adjust the volume while watching TV, press the Vol-/Vol+ Buttons. To turn the sound off completely press the Mute Button. To turn sound back on press the Mute Button again or the Vol-/Vol+ Buttons.

3.4 Program List
To view the Program List, press the OK Button. Then use the Up/Down/Left/Right Buttons to scroll through the list. Press the OK Button to confirm and selections or press the Exit Button to exit the list.

3.5 Audio
To change the Audio set up, press the Audio Button to display the audio channel page. Then use the Up/Down Buttons to select you Audio set up you wish to use. Press the Left/Right Buttons to adjust and press OK to confirm.

3.6 Pause
Press the Pause Button to pause the play of video and audio. Press again to resume play.

3.7 Teletext
To enter the Teletext Menu, press the Text Button. Press the Numeric Buttons to select the Teletext page you wish to view. To confirm press the OK Button. You can change the language by using the Up/Down Buttons. To exit press the Exit Button.

Figure 9. Audio Channel

Figure 10. Teletext Setting Page

3.9 Subtitle
To display the subtitle screen, press the Subtitle Button. Then press the Up/Down Button to select your desired subtitle language. This may depend on the program you are watching and the program broadcaster. To confirm your subtitle setting press the OK Button. To exit, press the Exit Button.

3.10 Teletext Subtitle
To display subtitle through the Teletext function, press the Text/Subtitle Button to display teletext or subtitle setting page. Then press the Left/Right and Up/Down Button to select TTX Subtitle. Press the OK Button to confirm and press the Exit but to Exit option. Press <GUIDE> button at normal play state, see section 2.3.2 for Details.

Figure 15. Subtitle Setting Page

Troubleshooting

If you experience problems with this receiver or its installation, in the first instance please read carefully the relevant sections of this User Manual and this Troubleshooting section.

Problem	Possible cause	What to do
The unit will not turn on	The power is not connected	Check the Mains power is firmly connected and switched on.
	The Mains fuse may be blown	Check your power source and fuse.
No signal found	Aerial is disconnected	Check that the aerial is connected correctly, properly aligned and is not damaged.
	Aerial is damaged /misaligned	
	Out of digital signal area	Check with retailer
No picture or sound	Audio Cables and/or Video Cables are not connected.	Check the cables are connected correctly and firmly and turn on the unit.
	Broadcaster has lost signal	Check another channel
Mosaic blocks in picture or picture freezes	Aerial may not be compatible	Check aerial
Scrambled channel message	Channel is scrambled	Run a factory reset and rescan for all available channels.
Can't access locked settings	Forgotten password	Enter the default password to unlock and reset password.
No response to remote control	Receiver off	Plug in and turn on receiver
	Handset not aimed correctly	Aim handset at front panel
	Front panel obstructed	Check for obstructions
	Remote control batteries are inserted incorrectly	Check batteries direction
	Handset batteries exhausted	Replace remote control batteries
After moving the Set TopBox to another room, you are unable to find reception	The aerial feed may come through a distribution system which may reduce the digital signal now received by the receiver	Try a direct feed from the antenna

Specifications

Item	Specification	
Tuner	Frequency Range	VHF: 174MHz to 230MHz UHF: 470MHz to 862MHz
	Input Impedance	75 Ohms unbalanced
	Signal Input Level	-78 ~ -25DBM
	Bandwidth	7 / 8 MHz
Demodulation	Demodulator	COFDM
	OFDM Modulation	2K, 8K FFT, SFN and MFN
	Packet Carries	2K/8K
	Guard Interval	1/4, 1/8, 1/16, 1/32
Connectors	RF IN	IEC 169-2 female connector
	RF LOOPTHOUGH	IEC 165-2 male connector
	VIDEO Jack	Audio L/R, CVBS, S-VIDEO
Power	Input	100-240V~ 50/60Hz
	Consumption	6 W max.
Display	Decoder Module	PAL, NTSC
	Resolution	720 x 576(PAL); 720 x 480(NTSC).
	Aspect Ratio	4:3 (Letterbox, Pan & Scan),16:9
Decoding	Video	MPEG2 Transport MP@ML
	Audio	MPEG2 Audio Layer I&II
Others	Compliance	ETSI EN 300 744 DVB-T Compliance
	Sound Mode	Right, Left, Stereo

Warranty

Please keep your receipt as proof of purchase. This product is warranted for any defect in materials or workmanship for one year after the original date of purchase. This product is for normal domestic and office use only. This warranty does not cover damage from misuse or neglect, accidental damage, vermin infestation, excessive voltages such as lightning or power surges or any alteration that affects the performance or reliability of the product.

In the unlikely event that your product fails to work normally, please contact the Bush Warranty on **1800 509 394 (Australia)** or **0800 450 259 (New Zealand)** and have your receipt of purchase on hand.

This warranty is subject to the following provisions:

- It is only valid within the boundaries of the country of purchase.
- The product must be correctly assembled and operated in accordance with the instructions contained in this manual.
- The product must be used solely for domestic purposes.
- The warranty does not cover accidental damage, misuse, cabinet parts or consumable items.
- The warranty will rendered invalid if the product is resold or has been damaged by inexpert repair.
- The manufacturer disclaims any liability for incidental or consequential damages.

This warranty is in addition to, and does not diminish, your statutory or legal rights.

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Bush Warranty: 0800 450 259 New Zealand