

High Definition Digital Set Top Box



DFTA16HD

The Gold Technical Support Line: 1902 215 259

(Charges will apply at \$2.95 per minute)

Important Safety Instructions

- Please note there are no user serviceable parts in this unit.
- Do not remove the cover or back for any reason. Refer all servicing to qualified Bush Service agent.
- Do not expose the unit to rain or moisture, to prevent fire or electric shock hazards.
- Do not expose the unit to any liquid or water (dripping or splashing) and no objects filled with water, such as vases, should be placed on the unit.
- Keep the product away from direct sunlight and any heat sources such as radiators or stoves.
- Do not block any of the ventilation openings. The openings on the unit are provided for ventilation. The openings should never be blocked by placing your product on a cushion, sofa or other similar surface.
- Do not place the product on unstable cart, stand, tripod, bracket or table. The unit may fall, resulting in possible damage or injury.
- Only use the AC adapter included with product. Using any other adapter will void your warranty.
- Unplug the power from the outlet when the unit is not in use.
- Only use attachments/accessories specified provided by the manufacturer.



The symbol indicates that dangerous voltages constituting a risk of electric shock are present within this unit.



The symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



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



This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. Contact your retailer where the product was purchased.

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

About the Set Top Box

This Set Top Box Receiver allows you to access 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

- Receives All High Definition Digital Free to Air Channels
- HDMI Output
- Upscaling to 1080i
- Easy Menu System
- Automatic/Manual Channel Search
- Parental Lock Control
- EPG (Manufacturers Electronic Program Guide)
- Teletext
- RF In/Loop Through
- Component / Video / Digital Audio via Coaxial Output
- Full Function Remote Control

Package Contents

Before installation, please check the items of the package.

The package should contain the following items:

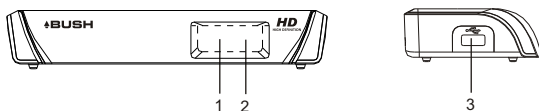
~ Set Top Box	x1 pc
~ Remote Control	x1 pc
~ AAA Battery for the Remote Control	x1 pair
~ Instruction Manual	x1 pc
~ Composite RCA Cable	x1 pc

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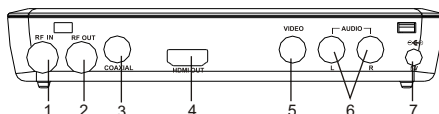
Front and Rear Panel

1. Front panel



- 1. STANDBY INDICATOR:** Displays when the unit is in Power mode and Standby mode. The indicator will show as green when the unit is on and red when in standby.
- 2. REMOTE CONTROL SENSOR:** Receives the signal from your remote control.
- 3. USB Input:** The USB Input allows the unit to receive software upgrades via USB.

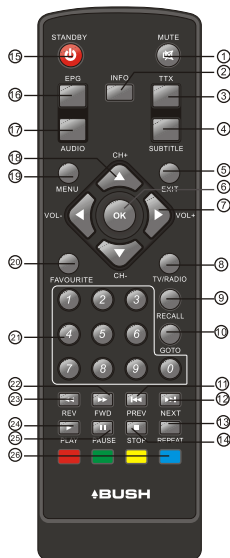
2. Rear panel



- 1. RF IN:** This socket allows you to connect your external aerial.
- 2. RF LOOP THROUGH:** This socket allows you to connect to your RF signal via your TV or other video device.
- 3. COAXIAL:** This socket allows you to connect the Set Top Box to your surround sound system.
- 4. HDMI OUT:** This socket allows you to use your HDMI cable for a premium high definition connection.
- 5. VIDEO:** This socket allows you to connect your Set Top Box via Composite Video Signal.
- 6. AUDIO L/R:** This socket allows you to connect your Set Top Box to receive the Audio L/R signal.
- 7. POWER INPUT:** This socket is where you connect your main power to the unit.

Remote Control

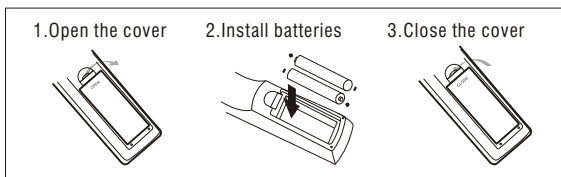
1. **MUTE:** Press the Mute Button to cut the sound only. Press again to turn sound on.
2. **INFO:** Press the Info Button to display the program information.
3. **TTX:** Press the TTX Button to enter the Teletext Menu.
4. **SUBTITLE:** Press the Subtitles Button to turn on the program subtitle and press repeatedly to scroll through the languages offered.
5. **EXIT:** Press the Exit Button to Exit any Menu.
6. **OK:** Press the OK Button to confirm any menu selections or settings changes.
7. **RIGHT/LEFT NAVIGATE BUTTONS:** Press the Right/Left Navigate Buttons to scroll through the menu/settings options. Press the Right/Left Navigate Buttons to adjust the volume.
8. **TV/RADIO:** Press the TV/Radio Button to switch between TV and Radio modes.
9. **RECALL:** Press the Recall Button to return to the last channel you were watching.
10. **GOTO:** Press the GOTO Button to select the playtime of media.
11. **PREV:** Press the Prev Button to skip backwards to the previous track during play.
12. **NEXT:** Press the Next Button to skip forwards to the next track during play.
13. **REPEAT:** Press the Repeat Button to Repeat Play.
14. **STOP:** Press the Stop Button to stop media play.
15. **STANDBY:** Press the Standby Button to turn the unit on or off.
16. **EPG (Manufacturers Electronic Program Guide):** Press the EPG Button to enter the EPG Menu for detailed program information and guide.
17. **AUDIO:** Press the Audio Button to select the Audio Language or Audio Mode.
18. **UP/DOWN NAVIGATE BUTTONS:** Press the Up/Down Navigate Buttons to scroll through the menu and setting options or to scroll through the channel list.
19. **MENU:** Press the Menu Button to enter the Main Menu.
20. **FAVOURITE:** Press the Favourite Button to enter the Favourite Menu.
21. **NUMERIC BUTTONS:** Press the Numeric Buttons to change the channel directly or enter your password or setting information.
22. **FWD:** Press the FWD Button to fast forward play in media mode.
23. **REV:** Press the REV Button to rewind play in media mode.
24. **PLAY:** Press the Play Button to start or resume media play.
25. **PAUSE:** Press the Pause Button to pause play in media mode.
26. **COLOUR BUTTONS:** Press the Colour Buttons to operate different functions in the teletext mode.



Installing the Batteries

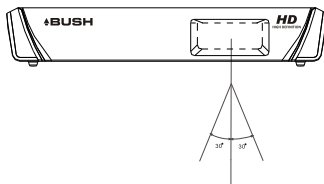
Remove the battery cover from the Remote Control and put 2xAAA size batteries inside the compartment.

The diagram inside the Battery Compartment shows the correct way to install the batteries.



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.

First Time Installation

After all connections have been made properly and power is connected, switch on the TV and the Set Top Box. When using the receiver for the first time or after you have conducted a restore to Factory Default the Installation Guide will appear on your TV screen.

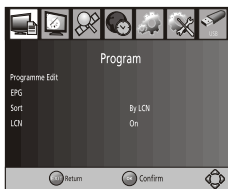


- (1) Select [OSD Language] and press the RIGHT/LEFT Navigate Buttons to select your desired language
- (2) Select [Country] and press the RIGHT/LEFT Navigate Buttons to select Australia
- (3) Select [Channel Search] and press the RIGHT or OK Button confirm and begin the automatic channel search
- (4) Once the automatic channel search is complete, the first channel in the list will appear on screen and you can now watch TV.

Basic Operation

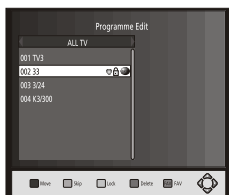
Program Settings

To access the Main Menu, press the MENU Button and then select [Program] to adjust the program settings. Press the OK or RIGHT to confirm any adjustments. Press the EXIT button to exit the Menu.



Program Edit

In the Program Menu, you can edit the program settings. To edit your program preferences (lock, skip, favourite, move or delete), you will need to enter the Program Edit Menu. This Menu requires a password to access. Enter the default password '000000'.



Setting Favourite Programs

The Favourite function in the program settings allows you to create a shortlist of favourite programs that you can easily access.

To set a TV program or radio station to your favourites list, please follow the below:

1. Tune your TV to the program you wish to add to your favourites list and then press the Favourite Button on your Remote Control. A heart-shaped symbol will appear next to the program in the programs list and is now marked as a favourite.
2. Repeat step one to select and set more programs.
3. To confirm and exit the Menu, press the Exit Button.

If you have incorrectly set a program to your favourite list press the Favourite Button again and the selection will be disabled and the heart-shaped symbol will disappear.

Viewing Favourite Program

1. Press the Favourite Button and the Favourite Menu will appear.
2. Press the Up/Down Navigate Buttons to scroll through your Favourite Programs.
3. Press the OK Button to select and play your favourite program.

Deleting a TV or Radio Program

1. Press the Favourite Button and the Favourite Menu will appear.
2. Press the Up/Down Navigate Buttons to scroll through your Favourite Programs.
3. When you have found the program you wish to delete, press the Blue Button on your remote control and the program and heart-shaped symbol will be removed.
4. Press the OK Button to confirm.

Setting a TV or Radio Program to Skip

1. Tune your TV to the program you wish to skip and then press the Green Button on your remote control. A skip symbol will be displayed next to the program in the program list.
 2. Repeat step one to select and set more programs.
 3. To confirm and exit the Menu, press the Exit Button.
- If you have incorrectly set a program to skip, press the Green Button again and the selection will be disabled and the skip symbol will disappear.

Moving a TV or Radio Program

1. In your channel list select the program you wish to move and then press the Red Button on your remote control. A move symbol will appear next to the program.
2. Press the Up/Down Navigate Buttons to move the selected program.
3. Press OK to confirm.
4. Repeat the above steps to move more channels.

Locking a TV or Radio Program

As part of the parental lock function, you can lock a selected program to restrict it from being viewed by children. To lock a particular program follow the below steps:

1. Tune your TV to the program you wish to lock and then press the Yellow Button on your remote control. A lock-shaped symbol will be displayed next to the program in the program list and it is now locked.
2. Repeat step one to select and lock more programs.
3. To confirm and exit the menu, press the EXIT Button.
4. Press the Yellow Button again to disable the locked program.
5. To view a locked program, you will be required to enter either the default password '000000' or your last set password.

Sorting your Channel List

The Sort function in the program settings allows you to arrange the program list in your desired order.

[LCN] - Sort the channels in ascending order

[Name] - Sort the channels in alphabetical order

[Service ID] - Sort the channels according to the station

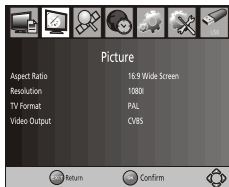
[ONID] - Sort the channels according to ONID

LCN (Logical channel number)

You can set that Channel list to automatically be arranged by LCD. Select this option in the program menu to set it on or off.

Picture Setting

To access the Picture Menu, press Menu Button then select the [Picture] sub-menu. The Picture menu allows you to adjust the picture and video settings. Press the Up/Down Navigate Buttons to select an option and press the Right/Left Navigate Buttons to adjust that setting. Press the Exit Button to exit the menu.



Aspect Ratio

The Aspect Ratio allows you to set the TV screen display. You can choose between either 4:3 PanScan, 4:3 LetterBox, 16:9 Widescreen or Auto.

Resolution

The Resolution allows you change the picture quality. You may want to adjust this setting if you are having issues with your TV picture image. You can choose between; 480i, 480P, 576i, 576P, 720P and 1080I (1080I is the high definition resolution, make sure it is selected if you have connected the TV via a HDMI cable).

TV format

The TV format refers to your the system by which your Set Top Box receives its TV signal.

Video Output

The Video Output refers to the video connect you have select to connect the settop box to the TV.

Channel Search

If you wish to conduct a channel search you will need to go to the Channel Search Menu. Press the Menu Button and then select [Search Channel] option. The Channel Search Menu allows you to select what type of search you would like to conduct. Press the Right/Left Navigate Buttons to select the Channel Search option you wish to use. Press the OK Button to confirm and press the Exit Button to exit.

Auto Search

In the Channel Search Menu you can select Auto Search, which means the TV will automatically search and store all available channels.

1. Select the [Auto Search] option and press the OK or Right Navigate Button to conduct an Automatic Channel Search.
2. To cancel the channel search, press the Exit Button.



Manual Search

In the ChannelSearch Menu you can select Manual Search, which means you can manually select the channels you wish to search for and store in the channel list. You can use this option to add new channels to the channel list with out replacing the whole list.

1. Select the [Manual Search] option and press the OK or Right Navigate Button to begin.



2. Once in the Manual Search option, press the Right/Left Navigate Buttons to select the channel frequency of the channel you wish to find and store.

3. Press the OK Button to then scan for the frequency selected. When the channel is found it will be added to the channel list.

Country

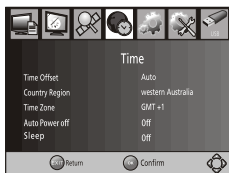
In the ChannelSearch Menu you can change your country of residence.

Antenna Power

In the ChannelSearch Menu you can turn setting on or off if you have an external antenna connected.

Time Menu

To access the Time Menu, press the Menu Button and then select the [Time] option. The Time Menu allows you to adjust the time settings. Press the Up/Down Navigate Buttons to select a desired option and then press the Right/Left Navigate Buttons to adjust the setting. Press the OK Button to confirm and the Exit to exit the menu.



Time offset

In the Time Menu you can set the Time offset to auto or manual. Manual will allow you to adjust the GMT offset time.

Country Region

In the Time Menu you must set your Country Region when the [Time Offset] is set to Auto.

Time Zone

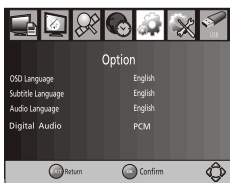
In the Time Menu you must set the Time Zone Offset when [Time Offset] is set to Manual.

Sleep

In the Time Menu you can set the Set Top Box Sleep Time. If the Sleep Time is on the Set Top Box will turn off after the set number of hours. When the Set Top Box has been on for the set number of hours a popup message will tell you that the Set Top Box will now turn to standby. You can set the Sleep Time to up. Press the Standby Button to exit sleep / auto-off mode.

Option

To access the Option Menu, press the MENU Button and then select the [Option] Menu. The Option Menu allows you to adjust the OSD Language, Subtitle Language and Audio Language settings. To select an option in the Option Menu press the Right/Left Navigate Buttons to adjust. Press the Exit Button to exit the Menu.



OSD Language

In the Option Menu you can select and adjust the OSD Language.

Audio Language

In the Option Menu you can select your preferred audio language. If the language is not available, the default program language will be used.

Subtitle Language

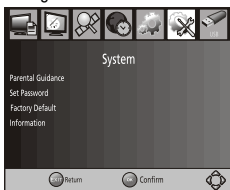
In the Option Menu you can select your preferred subtitle language.

Digital Audio

In the Option Menu you can select your digital audio connection.

System Setting

To access the System Setting Menu, press the Menu Button and then select [System] Menu. The System Settings Menu allows you to adjust and view the System Settings. Press the Right/Left Navigate Button to adjust the settings. Press the Exit Button to exit at any time.



Parental Guidance

In the System Setting Menu you can restrict access to channels that are unsuitable for children. To restrict/lock undesirable channels you will need to enter either the default password '000000' or your own password.

Set Password

To set or change the password for locked programs. Enter your old password or the default password '000000'. You will then be asked to enter the new password and then confirm by re-entering your new password. Once it is confirmed, press the Exit Button to exit the Menu. 13

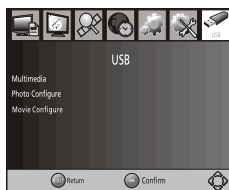
Factory Default

In the System Setting Menu you can select the Factory Default option to conduct a settings reset. In the Main Menu, select [Factory Default] and then press OK or Right to select. You will then need to enter your password or the default password '000000' to gain access to this section. Press the OK Button to confirm. Conducting a Factory Reset will delete all preset channels and settings.

Information

In the System Setting Menu you can select the Information option to view the model, hardware and software information.

USB is primarily for Software Upgrade, however it does support movie playback.



To access the USB Menu, press the MENU Button and select [USB] using the Right/Left Navigate Buttons. The USB Menu allows you to play Music, Photo and Multimedia files. It can support AVI, WMA, JPEG and BMP formats. The unit will only support USB device with FAT32 file system. It will not support NTFS file system.

Multimedia: When a USB device is connected, you can select from the Music, Photo or Movie using the Right/Left Navigate Buttons and the OK Button. If a USB device is not connected, the warning message "No USB device is Found" will appear.



Troubleshooting

Problem	Potential Reasons	What to do
No picture	Power isn't connected	Connect the power
	Power is not on	Switch on the power
No Picture	Video Cables not connected	Ensure Video Cables are connected properly
	Picture Settings are incorrect	Conduct a Factory Reset to clear all Settings
No Sound	Audio Cables are not connected	Connect the Audio Cables as outlined
	Mute function is on	Turn off mute by pressing Mute Button again or by increasing the volume
The Remote Control is not responding	The Batteries are dead	Replace the batteries
	There are obstructions between the remote control and the sensor	Move any obstructions between the remote control and the sensor and ensure you follow the remote instructions

Technical Specifications

Item	Sub Item	Parameter
Tuner	Input Frequency	170~230MHz 470~860MHz
	RF Input level	-25~-78dBm
	IF Bandwidth	7MHz and 8MHz
	Modulation	QPSK,16QAM,64QAM
Video	Decoder Format	MPEG2 MP@ML MPEG4 MP@ML
	Output Format	576P , 720P, 1080i, 4:3 and 16:9
	Output Port	HDMI,
Audio	Decoder Format	MPEG-1 (layer1&2)
	Audio output	Digital audio: S/PDIF
Power	Voltage	DC 5V Supply
	Power	Max 8W

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 be rendered invalid if the product is resold or has been damaged by inexperienced 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.

PO BOX 6287,
SILVERWATER NSW 1811
www.bushaustralia.com.au
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