LED LCD TV



IDLED1901 IDLED2201 IDLED2401

The Gold Technical Support Line: 1902 215 259 Personal Product Support

(Charges will apply at \$2.95 perminute)

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

Yoursafety and the safety of others is important. Therefore, please 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 to discuss the problem with one of our qualified service engineers.

Australia

Bush Warranty: 1800 509 394

New Zealand

Bush Warranty: 0800 450 259

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- 1. Do not use this TV near dripping or splashing water. Do not use any liquids near this TV.
- 2. Clean withadry cloth only.
- 3. Do not block any ventilation openings and install in accordance with the manufacturers instructions.
- 4. Do place this TV near any heat radiating sources, such as; heaters, stoves, or other devices (including amplifiers) that produce heat.
- 5. Please ensure that the power cord is protected from damage (i.e. being walked on, cut or split) especially at the inputs.
- 6. Only use attachments/accessories specified in this manual.
- 7. Unplug the TV during lightning storms or when the unit will be unused for long periods of time.
- 8. Refer all servicing to a qualified service personnel. Servicing is required when the TV has been damaged in any way, such as; if the power-supply cord or plug is damaged, if liquid has been spilled or objects have fallen into the TV, if the TV has been exposed to rain or moisture, if does not operate as perthis manual, or if it has been dropped.
- The TV should not be exposed to dripping or splashing and no objects filled with liquids, Such as vases, should be placed on the apparatus.
- 10. If the television is to be built into a cabinet or similar enclosure, a small amount of distance should be maintained to ensure ventilation. Heat build-up will reduce the service life of your television, and can also be dangerous.

ADDITIONAL SAFETY NOTES

Never tamper with any components inside the TV, or any other adjustment controls not mentioned in this manual.

All LED LCD-TVs are high voltage instruments. When you clean the unit or cabinet turn off the power and use a dry soft cloth.

During thunder and lighting, unplug the power cord and antenna cord to prevent damage to your TV .

All repairs to this TV should only be performed by qualified TV service personnel.

Warning: USB or Hard Disk may take 1-2 minutes to read due to file capacity, some disks may have difficulty being read due to compatibility.

Important Safety Instructions

Warning: To reduce the risk of electric shock, do not remove the cover or back as there are no user-serviceable parts inside. Refer all servicing to a qualified technician.

Warning: To prevent fire or electric shockhazard, do not expose the unit to any liquids or moisture.

Do not expose the TV and power adaptor to water (dripping or splashing) and no objects filled with any liquids, such as vases, should be placed on or near the unit.

Please ensure that this product is kept away from direct sunlight and heat sources.

Do not block the any of the ventilation openings. Slots and openings on the unit are provided for ventilation. The openings should never be blocked.

Do not place the product on any unstable surfaces as this may cause the unit to fall and may cause possible damage or injury.

Never place heavy or sharp objects on the panel or frame.

Only use the AC adapter included with product. Using any other adaptor will void your warranty.



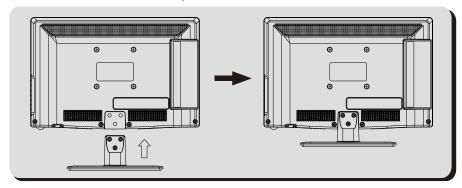
This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To dispose of your LED LCDTV contact your retailer where the product was purchased for tips on safe disposal when the time comes.

ACCESSORIES

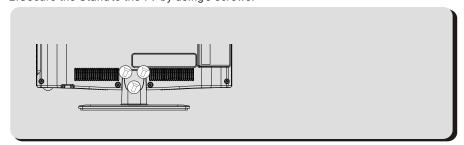
Remote Control x 1 User's Manual x1 Battery(AAA) x 2 AV Cable x 1

Base Stand Assembly Instruction

- 1. Place the TV with the display side down on a flat surface. Use a cloth to protect.
- 2. Place the Stand on the TV as shown below.



2. Secure the Stand to the TV by using 3 screws.



INSTALLATION NOTES

This TV can be connected to an AC 100-240 Volts, 50/60 Hz power supply. Never connect straight to a DC power supply.

Locate the TV in aroom where light does not strike the screen directly. Total darkness or a reflection on the screen can cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

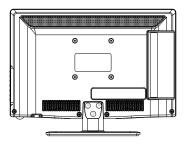
Allow enough space between the TV and the wall to permit ventilation.

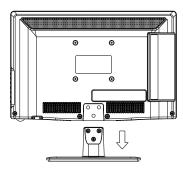
Avoid excessively warm locations to prevent possible damage to the cabinetor premature component failure.

WALL MOUNTING INSTALLATION GUIDELINES

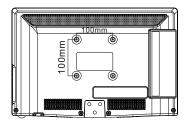
This television can be wall mounted as follows:

- 1.Place the LEDLCD Television onto a solid surface. Please place some soft material over the front of the screen to protect it from any damage.
- $2.Remove\ the\ screws\ from\ the\ lower part\ of\ the\ television,\ where\ the\ base\ joins\ to\ the\ TV,\ and\ take\ away\ the\ stand\ (put\ the\ stand\ somewhere\ safe\ for\ future\ use).$

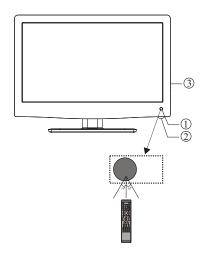




3.Use the four screws provided to fix the TV onto a wall mounting bracket (not included) via the four VESA standard holes on the back of the television.



Front panel

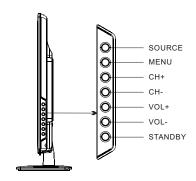


- 1: Remote Control Sensor.
- 2: Indicator LCD LED:

BLUE POWERON.

RED STANDBY.
3: Side buttons (refer to image below)

Side Buttons



1. SOURCE:

Press the SOURCE Button to display the Input Source list.

2. MENU:

Press the MENU Button to display the Main Menu.

3. CH+/CH-

Press the CH+/CH- Buttons to change the channel.

In the SOURCE Menu, press the CH+/CH- Buttons scroll through the Input Source List. In the MAIN MENU, press the CH+/CH- Buttons to scroll through the Menu options.

4. VOL+/VOL-

Press the Vol+/Vol- Buttons to adjust the Volume level.

Press the Vol+/Vol- Buttons to confirm your selection in the Input Source Menu.

Press the Vol+/Vol- Buttons to scroll through the different Sub-Menu options.

Press the Vol+/Vol- Buttons to adjust the settings in each Menu.

5. STANDBY

Press this button to turn the unit ON from STANDBY mode.

Press it again to turn the set back to STANDBY.

Rear Sockets



Outlined below is the Rear Sockets provided -

 $AV\,Input,\,R/L\,Audio\,Input,DC\,Power\,Source\,Input,\,YPbPr\,Input\,\,and\,\,HDM12\,Input.$

Note: 1. The AV Input and YPbPr Input share one audio channel.

2. When the HDMI2 Input receives a DVI signal, the audio signal is received from the R/Laudio input.

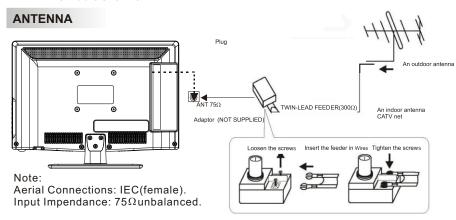
Side Sockets



Outlined below is the Side Sockets provided -

HDMI1 Input, USB Input, PC Audio Input, AV Output, VGA Input and RF Input.

Note: When the VGA Input receives a DVI signal, the audio signal is received from the PC Audio Channel.

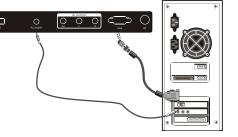


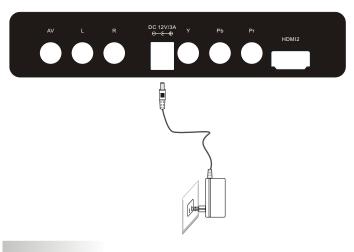
PC

STEPS:

Ensure the TV and your computer are both set to power off before your connect.

- 1.Connect the VGAInput & PC Audio Input as above.
- 2.Connect power supply again to your TV set. 3.Turn on the TV and then press the SOURCE
- Buttons to select PC mode.
- 4. Then turn the PC power on.





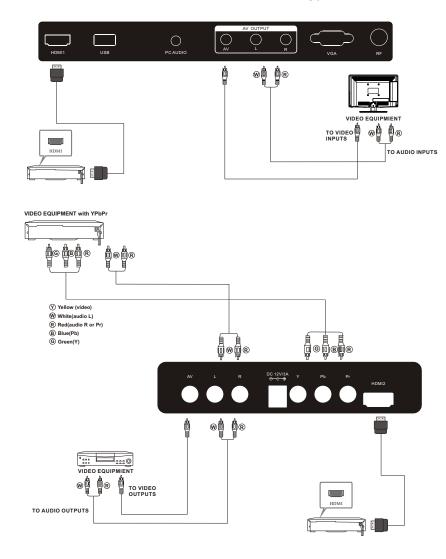
PC

PRESET MODE

	RESOLUTION	V.Freq.(Hz)	H.Freq.(KHz)
1	720*400	70	31.47
2	640*480	60	31.47
3	800*600	56	35.156
4	800*600	60	37.88
5	800*600	72	48.08
6	1024*768	60	48.36
7	1024*768	70	56.48

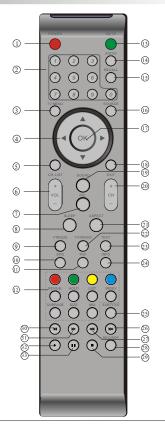
AV EQUIPMENT

Please follow one of the below instructions when connecting your TV to other devices.



YPbPr Connection can support these video formats: 480i, 576i, 480p, 576p, 720p, 1080i and 1080P.

REMOTE CONTROL



Insert Batteries Into the Remote Control



1. Remove the battery cover.

 Inserting the 2 AAA 1.5V batteries making sure the polarity (+ or -) of the batteries matches the polarity marks inside the unit.

3. Mount the battery cover. Replace with new batteries when the TV set begins to show the following symptoms: Operation is unsteady or erratic. Sometimes the TV set does not function with Remote Control Unit.

Remark:

1) Alkaline Battery Recommended.

2) Remove batteries when they are exhausted or if the remote control is not to be used for Long time.

1:POWER:Press to turn the unit on or off.

2: NUMERIC KEY: Press for direct access to channels.

3:TV MENU:Press to display TV Main Menu.

4:CURSOR:Press to scrollthrough the Menu.

5:CH.LIST:Press to display the channel list.

6:VOL+/-: Press to adjust the sound level.

7:PIC:Press to switch between picture modes.

8:SLEEP:Press to setSleep Timer.

9: FREEZE: Press to freeze the picture you are watching.

10:**EPG**:Press to display the 7 Day Electronic Program Guide for information on the show you are watching.

11: **FAV**:Press to access your favourite channels list in TV or DTV mode

12:TELETEXT KEYS: Refer to page 12.

13:MUTE: Press to disable or enable the sound output.

14: **AUDIO**: Press to change the available audio /language for the program you are watching.

15: **RECALL**:Press to return to the previously viewed channel.

16: **SOURCE**: Press to display the Input Source List.

17: OK: Press to confirm Menu selections.

18: **EXIT**:To exit the main menu, press the Exit Button or to cancel setting selections.

19: **SOUND**: Press to switch between the sound modes.

20: CH+/CH-:Press to scroll through your Channel List. 21: ASPECT:Press to change the picture aspect ratio.

22:TV/RADIO:Press to switch between TV and Radio modes.

23: TEXT: Press to enteror exit TELETEXT mode.

24: **INFO**: To display the programinformation of the show you are watching, press the Info Button.

25: **SUBTITLE**:Toturn on Subtitles press the Subtitle Button in DTV mode.

26: **SKIP FORWARD**: Press to skip the next file or track in USB Mode.

27: **SKIP BACKWARD**: Press to skip the previous file or Track in USB Mode

28: **REC/REP**:Press to record the TV program you are watching in DTV Mode or press to repeat play in USB Mode.

29: STOP: Press to Stopplay in USB Mode.

30: **REWIND**: Press to rewind play in USB Mode and Timeshift Mode.

31: **FAST FORWARD**: Press to Fast Forward play in USB mode or Timeshift Mode.

32:PLAY:Press the Play Button in USB Mode or Time Shift Mode to begin or continue Playback. 33: PAUSE:Press the Pause Button to pause play in Time Shift or USB Mode or pause recording in Record Mode.

TELETEXT

Teletext is an information system broadcasted by certain channels which will provide detailed program information. It also offers access to subtitles for viewers with hearing problems or who are not familiar with the transmission language (cable networks, satellite channels, etc.)

Press:	You will obtain:
TEXT	This is used to access and/or exit the Teletext mode. A summary will appear with a list of items that can be accessed. Each item has a 3 digit page number. If the channel selected does not broadcast teletext, 100 will be displayed and the screen will remain blank (in this case, exit teletext and select another channel).
SELECTING A PAGE	To view a specific page enter the page number required by using the Numeric Buttons. The number will be displayed on the top left. The page counter will turn until the page is displayed. Repeat this operation to view another page. If the counter continues to search, this means that the page is not transmitted.
DIRECT ACCESS TO THE ITEMS	The coloured buttons correspond to the colour options at the bottom of the screen. The four coloured keys are used to access the items or corresponding pages. The coloured areas flash when the item or the page is not yet available.
INDEX	This button will open/return you to the contents page.
SUB PAGE	Certain pages contain sub-pages which are automatically displayed. This key is used to stop or resume sub-page acquisition The indication appears top left.
HOLD	To freeze the page.
REVEAL	To display or hide the concealed information.
LIST	The user can set four favourite pages to be directly linked to the four color keys. While list mode is activated, it is not possibility to use TOP or FLOF navigation with the colourkeys. The favourite page numbers should be stored and restored to/from nonvolatile memory for each channel by the system software.

Installation Guide



This will appear during the first time installation and when you reset the TV. You can choose any of the above languages or countries.

The TV will then automatically scan for all available stations and store the in the station list.

1.CHANNEL MENU

Press the TVMENU Button to display the Channel Menu.



1)Auto Tuning:

An Auto Scan will search for all available ATV and DTV Stations and store them in the station list.



To conduct an Auto Scan, press the arrow buttons to select the Auto Scan Setting and press OK to confirm. To stop scanning at anytime, press the Menu or Exit Button.



2)DTV Manual Tuning - Select the DTV Manual Tune option in the Channel Menu, to conduct a Manual scan. Use the ◀▶ Buttons manually scan through the DTV Manual Tune channels, then press OK to search.



3)ATV Manual Tuning - Select the ATV Manual Tune option in the Channel Menu and follow the above steps.



NOTE:

Press the Red Teletext Button to save and store the channel you have manual scanned.

4). Program Edit:



Delete

Press the Red Teletext Button to delete a program or channel in the channel list.

Rename:

This feature is only available for ATV programs. Use the ◀▶ to the select the channel/ program you wish to rename. Then press the Green Teletext Button to Rename. Use the ▼▲ Buttons to select the character to rename and then press OK to confirm. Press the MENU Button or EXIT Button to exit this option.

Note: ATV programs can only be 5 characters.

Move

Use the Arrow Buttons to select the channel you wish to move. Then press the Yellow Button to select Move function. Once active use the Arrow Buttons to move and then press OK to confirm.

Skip

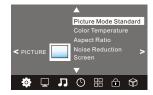
Use the ▼▲ Buttons to highlight the channel/program you wish to set to Skip. Then press the Blue TeletextButton and the Skip icon will be displayed next to the program and it will be skipped in the program list. Press the Blue Button again to cancel the skip setting.

Favourite

Use the ▼▲ Buttons to select the program you wish to set to your favourites list and press the FAV Button to set. The favourite Icon will then be displayed next to the program. Press the FAV Button again to cancel setting.

2. PICTURE MENU

To enter the Picture mode, press the MENU button and then press or ▶ buttons to select the Picture Menu. Once in the Picture mode, press the ▼or ▲ buttons to select the picture settings you wish to adjust. To return to the Main Menu, press the MENU Button.





NOTE:

1) You can change the screen position in PC Mode only. You can adjust to horizontal, vertical, size and phase.

3.SOUND MENU

To enter the Sound Menu, press MENU button and then press ◀ or ▶ buttons to select the SOUND Menu. Once in the Sound Mode, press ▼or ▲ buttons to select the settings you wish to adjust. Press MENU button to return to the Main Menu.



Note:

Auto Volume is only available when the input signal volume is too large or distorted.

4.TIME MENU

To enter the Time Menu, press MENU button & then press ◀ or ▶ buttons to select the Time Menu.



NOTE:

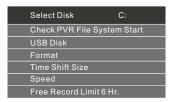
When you set the Auto Sleep option to ON, your TV will automatically enter into Standby Mode, when there has been no signal for 15 minutes.

5.OPTION MENU

To enter the Option Menu, press MENU button and the press ◀ or ▶ buttons to select the Option Menu. Once in Option Menu, press ♥ or ▲ buttons to select the settings you wish to adjust. Press MENU button to return to the Main Menu.



In PVR File System Menu you will be asked to format your USB Disk or Hard Disc for PVR Operation.



Select Disc

To view and select the USB file or the allocated space on your Hard Disc that you would like to record to, press OK button to enter the Select Disc Sub-Menu and then press ◀ or ▶ buttons on your remote control to select the particular partition/file for recording.

Press the Menu Button to return to the Main Menu.

Check PVR File System

Press the OK Button to startchecking the file system of your USB storage or Hard Disk. Once Success is shown after checking, you will then be able to begin recording or or use Time Shift function. If FAIL is shown after checking, you then need to format your USB or Hard Disc and to be able to record or use Time Shift.

Format

When you formatyour USB or Hard Disc partition any saved datawill be lost. Please ensure that you startwith a blank partition on your Hard Disc to ensure you don't lose any data.



PVR File System Type

There are twotypes of formats: FAT32 and HiSpeed Format. You can press ◀ or ▶ buttons to choose the type offormatting. If FAT32 is selected, you will have to format whole size of your USB or the allocated partition for recording. If HiSpeed Format is selected, you will then be able to press ◀ or ▶ buttons to select the size you wish to use (for example 1G, 10G, 20G... or All). Once a particular size is booked for recording, you will be able to use the remaining space of your USB or Hard Discfor other data storage.

Please note no matter which size is booked for recording, all the data in the allocated partition of the Hard Disc will be lost after formatting.

Speed

This will show the supported speed of recording.

Record Limit

This will show the approximate time you will be able to record on to your USB or Hard Disc.

FACTORY RESET NOTE:

If you wish to reset your TV, please select the Restore Factory Default option, this will clear all settings.

6.LOCK MENU

To enter the LOCK Menu, press MENU button and then press ◀ or ▶ buttons to select the LOCK Menu. The default password is 6666.

Please set a new password to so it is easy to remember. Follow the on screen steps to set.



7. APPLICATIONSMENU

To enter the Applications Menu, press MENU button and then press ◀ or ▶ buttons to select the Applications Menu. This is where you will be able to view and play your USB files.



Press the OK button to enterthe DMP Menu.



The supported formats are as below:

Photo: JPEG, BMP, PNG

Music: MP3

Movie: AVI, MP4, MKV

Text: TXT



8.EPG Menu(Electronic Program Guide).

The EPG Menuis used to look at what is being broadcasted in DTV or Radio modes. Press the EPG Button to access the EPG Menu. You will receive detailed program information of the channel you are currently watching as well as the 7 Day Program guide.

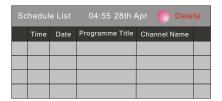


1. INFO

Use \clubsuit to select a program and then press the Green Button or INFO key to display the highlighted program's information.

2. O Schedule

Press the Yellow Button to view the scheduled programs you have booked for watching or recording. You can also press the Red button to delete the program from your scheduled programs list.

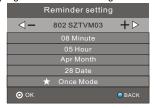


3. Record

By pressing the Red Button you can book the program you would like to record. Please ensure a supported USB or Hard Disc is connected with TV to ensure program will be recorded successfully.

4 Remind

Press the Blue Button to book a program for future viewing and add to the schedule list.



Potentia	Inspection Che	eck	
Picture Audio			
Snow	No.	Check the Antenna and that it is connec	
Ghost	Norma	Check Antenna Pos that it is connected	
Interference	No.	Check for electrica interference	I
Normal Picture	MI MI	Check if mute funct Check AV cables ar connected.	
? No picture	MI MI	ute Check is connected Check Cable conne Adjust Contrast, Br and Volume Setting	ections
No colour	Norma	al audio Check TV ColourS	ettings
Picture Breaking Up	Norma or We	al Audio Conduct a Channel ak	Rescan
No Colour	Image Image	egular Check AV/Video se	ttings
Mosaic	Irr	regular Check Antenna cor	nnection
No Display	Norma	Check Video Cable connected firmly.	es

Model: IDLED1901

LCD:		
Screen size	18.5 inch	
Resolution	1366x768	
Aspect Ratio	16:9	
Display colours	16.2M	
Brightness	250 CD/M ²	
Contrast ratio	1000:1	
Response time	8 ms	
View angle	160°(H)/160°(V)	
TV:		
TV system	Digital TV: DVB-T Analog TV: PAL/SECAM	
DVB-T decode	Audio: MPEG2 Audio Layer I&II Video: MPEG2 Transport MP@HL	
DVB-T de-modulation	Demodulator: COFDM OFDM Mod.: 2K,8K FFT, SFN and MFN Packed Carries: 2K/8K Guard Interval: 1/4,1/8, 1/16, 1/32	
Terminals:		
HDMI Input	x2	
VGA Input	x1	
PC audio input	x1	
AV input	x1	
USB Input	x1	
YPbPr input	x1	
AV Output	x1	
Others:		
Power supply	DC 12V, 3A(Power adaptor supplied)	
Audio Output Power(THD≤7%)	2 X 3W	

Model: IDLED2201

LCD:		
Screen size	21.6 inch	
Resolution	1366x768	
Aspect Ratio	16:9	
Display colours	16.2M	
Brightness	250 CD/M ²	
Contrast ratio	1000:1	
Response time	10ms	
View angle	160°(H)/160°(V)	
TV:		
TV system	Digital TV: DVB-T Analog TV: PAL/SECAM	
DVB-T decode	Audio: MPEG2 Audio Layer I&II Video: MPEG2 Transport MP@HL	
DVB-T de-modulation	Demodulator: COFDM OFDM Mod.: 2K,8K FFT, SFN and MFN Packed Carries: 2K/8K Guard Interval: 1/4,1/8, 1/16, 1/32	
Terminals:		
HDMI Input	x2	
VGA Input	x1	
PC audio input	x1	
AV input	x1	
USB Input	x1	
YPbPr input	x1	
AV Output	x1	
Others:		
Power supply	DC 12V, 3A (Power adaptor supplied)	
Audio Output Power(THD≤7%)	2 X 3W	

Model: IDLED2401

LCD:		
Screen size	23.6 inch	
Resolution	1920x1080	
Aspect Ratio	16:9	
Display colours	16.2M	
Brightness	250 CD/M ²	
Contrast ratio	1000:1	
Response time	8 ms	
View angle	160°(H)/160°(V)	
TV:		
TV system	Digital TV: DVB-T Analog TV: PAL/SECAM	
DVB-T decode	Audio: MPEG2 Audio Layer I&II Video: MPEG2 Transport MP@HL	
DVB-T de-modulation	Demodulator: COFDM OFDM Mod.: 2K,8K FFT, SFN andMFN Packed Carries: 2K/8K Guard Interval: 1/4,1/8, 1/16, 1/32	
Terminals:		
HDMI Input	x2	
VGA Input	x1	
PC audio input	x1	
AV input	x1	
USB Input	x1	
YPbPr input	x1	
AV Output	x1	
Others:		
Power supply	DC 12V, 3A (Power adaptor supplied)	
Audio Output Power(THD≤7%)	2 X 3W	

Please keep your receipt as proof of purchase. This product is warranted for any defect in materials or workmanship This product is warranted for any defects in the materials or workmanship for a period of 12 months after the original date of purchase. 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 us lightning or power surges or any alternation 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 boundaries of the country of purchase;
- The product must be correctly assembled and operated in accordance with the instructions contained in the manual:
- This product must be used solely for domestic purposes;
- The warranty does not coveraccidental damage;
- The warranty will be rendered invalid if the product is resold or has been damaged by inexpert repair;
- The manufacturer disclaims any liability for incidental or consequential damaged.

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

Bush Warranty: 1800 509 394 Australia Bush Warranty: 0800 450 259 New Zealand