

22 INCH FHD TV WITH DVD & BT

SUN22ET













CONTENTS

TV Operation

Remote Control	3
Initial Installation	4
Main Menu Operation	5
Channel Menu	5
Picture Menu	7
Sound Menu	8
Bluetooth	9
Time Menu	11
Option Menu	12
HDMI CEC	13
Lock Menu	14
PVR	15
Media Operation Media Operation	16
Media Operation Photo Menu	
Music Menu	
Movie Menu	
Text Menu	
Text ivieriu	20
DVD Operation	
DVD Operation	21
Specifications	
Specifications	23



[POWER]

Turns the TV on (standby)and off.

[NICAM/A]

TV Nicam/A2 select.

[PMODE]

Select the different picture mode directly.

[NUMBER(0-9)]

Press these buttons to enter different channels.

[RECALL]

Switch back and front between the current and previous channels.

[FREEZE]

To freeze current picture.

[RED.GREEN.YELLOW.CYAN]

Used to select the corresponding coloured items on the screen during DTV mode.

[EPG]

Press to display EPG information (Electronic Program Guide).

[MENU]

Display the OSD menu(on screen display).

[DISPLAY]

Press this button to display the information on current input.

[VOL+/VOL-]

Adjust the volume.

[▶ II]

► II: Press this button to PLAY or PAUSE.

[44] [>>]

Play fast backward/forward.(MEDIA/DVD)

Teletext mode

HOLD On or Off the current page display in

[SIZE]

Change the size of display in Teletext mode. [S.PAGE]

Display a sub-page of upper options.

Press the button to panse current

DTV program and start recording.

[SUBTITLE]

Select subtitle language(DVD)

[AUTO]

Press this button on PC channel to correct automatically.

[INPUT]

INPUT mode conversion button.

[ASPECT]

Select different size.

[SMODE]

Select the different sound mode directly.

[-/--]

Press to change the channel bit.

[FAV]

Favourite program channel button.

[TV/RADIO]

Press to switch between DTV and radio programs.

[SLEEP] Set the sleep timer.

[▲/▼/◀/►/OK]

Allow you to navigate the on-screen menus and adjust the system settings to your preference.

[EXIT]

Press EXIT to exit menu of sub menu.

Switches the sound on or off.

[CH+/CH-]

Change the channel.

Stop the disc.

[|44] [|+||

Play previous/next media file.(MEDIA/DVD)

[REVEAL]

Reveal or Hide the hidden words.

[INDEX]

Press to return to the index/initial page.

Press to turn the teletext On and Off.

[OIDUA]

Select Audio mode.

[REC]

Press to record the program immediately.

[PVR]

PVR List

INITIAL INSTALLATION

External Connection

1. Bottom Panel - All Models



2. Side Panel - 19"



3. Side Panel - 22", 24", 32"



POWER: Connect to the mains adaptor.

AUDIO: Audio output for external devices such as Head Units, amplifiers etc.

HDMI: Connect it to the HDMI of DVD or other equipment.

VGA: For PC display. Connect it to the D-Sub 15 pins analog output connector of the PC.

RF: Connect antenna or cable 75 Ohm coaxial to receive TV signal.

COAX: Digital output to AV receiver.

HEADPHONE: Connect it to your headphone or other equipment.

Mini YPbPr: Connect it to the YPbPr video output terminal of DVD with the converter cable.

Mini AV: Connect it to the audio & video output terminal of DVD with the converter cable.

(Audio terminals are shared with YPbPr)

PC Audio: Connect it to the audio output terminal of PC.

USB: Connect to USB device for multimedia and PVR

Firstly connect an RF Antenna cable from the TV's RF output to the TV Antenna socket. When you Reset the TV from the Setup menu, you will be presented with a number of dialogue boxes that will guide you through the TV tuning process.

First Time Installation Menu

Selection 1: Language - English - select ENTER on the remote:

Note: this is the menu language setting.

Selection 2: Country - Australia.

Please select a different country if applicable.

Selection 3: Environment: On. There is no need to adjust this setting.



MAIN MENU OPERATION

Press the Menu button on the remote to select the Main Menu. From there, you can use the ◀/▶ buttons to select between the following sub-menus:



- Channel
- Picture
- Sound
- Time
- Option
- Lock

Once you select a sub-menu, use the ▼/▲ buttons to select an option in the sub-menu.

CHANNEL MENU



Auto Tuning

The auto tuning interface will be displayed.

DVB-T Manual Tuning

Press ▼/▲ button to select **DVB-T** Manual Tuning, then press **ENTER** button to enter sub-menu.

Press **◄/▶** button to select channel, the press **ENTER** button to search program.



Program Edit

Use the coloured buttons on the remote to edit the channels. First press the \P/A buttons on the remote to highlight the channel you want to select, then:

Press the Red button to delete the channel from the program list.

Press the Yellow button to move the channel in the list. Press the Blue button to skip the selected channel (this channel will be skipped when using channel up/down on the remote.

Press the **FAV** button on the remote to add or remove the channel from your favourite list.

Signal Information

This displays the current signal information of the TV Signal.

This option can be useful to help you position your RV's antenna.

LCN (Logical Channel Number)

This setting makes sure that the Channels tuned into the TV represent the actual channel number

Software Update (USB)

Software updates may become available for this TV from time to time. To update the Software, copy the updated Software file onto an empty USB drive and insert in to the TV.

TV OPERATION

Select Input Source

Press Source on the remote, then use the arrow keys $\blacktriangle \blacktriangledown$ to select your desired source.

Press ENTER on the remote to select the source.





PICTURE MENU



Picture Mode

Press ▼/▲ buttons to select Picture mode, and go into the interface by pressing the **ENTER** button.

Contrast, Brightness, Colour, Tint, Sharpness

Note: You can only adjust the Contrast, Brightness, Colour. Tint & Sharpness settings can be adjusted when the **User** Picture Mode is selected.

Colour Temp

Modes available are standard, warm, cool and personal.

Aspect Ratio

Auto (Default), 4:3, 16:9, Zoom1, Zoom2.

Noise Reduction

Select off/low/middle/high.

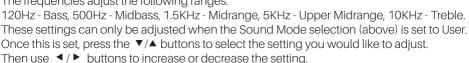
SOUND MENU

Sound Mode

The sound mode can be switched between standard/music/movie/sports/user using the ◆ / buttons.

Custom Equaliser

The frequencies adjust the following ranges:



Balance

With the ◀/▶ buttons, the balance (between left & right speakers) can be adjusted.

Auto Volume (AVL)

This function, when turned on will help balance out the volume level between different A/V sources so one is not significantly louder than the other. It can also help reduce the volume of loud TV ads compared to TV shows. The result depends greatly on the A/V source so this function is set to off. To turn AVL on, press ▼/A buttons to select Auto Volume and then press ENTER.

Press
√ ▶ buttons to turn AVL on/off.

Surround Sound

This mode is ideal for movies and simulates multi-speaker surround sound output.

SPDIF Mode

This setting selects the output mode for the coaxial digital lead. The default setting is PCM and this should be suitable for most amplifier connections.

AD Switch

This turns on the Audio Description function where available.

Main Speaker

This option in the Sound Menu allows you to turn the TV's internal speakers on or off. Press the ▼/► buttons to select the Main Speaker then press the ▼/▲ buttons to turn the Main speaker on or off. This is a particularly useful feature in conjunction with Bluetooth operation as, for example, if you are using a Bluetooth speaker that is outside the RV, you can turn on the Main speaker so the TV program can be heard both inside and outside the RV.

BLUETOOTH





Bluetooth

Press ▼/▲ buttons to select Bluetooth. Then press the ENTER button to enter the Bluetooth sub-menu.

Press ► to activate the TV's Bluetooth Audio transmitter.

Bluetooth Pair

Press ∇/\triangle buttons to select Bluetooth Pair then press the ENTER button to select. The TV will then search for available Bluetooth playback devices such as speakers, headphones etc. This search will take around 1 minute and the number of devices discovered will be displayed on the screen as the search progresses.



NOTE 1. The Bluetooth device volume level can be both controlled by the TV and on the device itself if it has a volume control. If you prefer to control the volume on the BT device, then we recommend that the volume on the TV be increased to 100. If you would prefer to control the volume of the BT device via the TV, we recommend you turn the volume on the BT device to full.

NOTE 2. If a device has been previously paired to the TV, depending on it Bluetooth Version, it should automatically re-pair to the TV. If not, you do not need to do a search every time you want to connect the device - simply go to the Paired List menu and select it from there.

NOTE 3. While the TV's internal speakers are automatically turned off when a Bluetooth device is connected, they can be turned on if required - see "TV Speaker" section on the next page.

Paired List. Press ▼/▲ to select the Paired List and Enter to select. Use this menu to connect to a previously paired Bluetooth device.

Disconnect

Press the ▼/▲ buttons to select Disconnect and ENTER to select. Use this option to Disconnect the currently paired Bluetooth device, but not turn off the TV's Bluetooth transmitter. This will also re-activate the TV's internal speakers.

Bluetooth Reset

Should your Bluetooth device stop working or its operation become intermittent, or you wish to clear some of the Bluetooth devices from the Paired List, then press the $\sqrt{\ }$ buttons to select Bluetooth Reset and ENTER to select.

This will clear the Paired List so you will need to go back to the Bluetooth Pair sub-menu to search for the Bluetooth device you wish to pair.

TIME MENU



Clock

The clock and date is automatically programmed from information received from DTV Channels.

You should not need to use this sub-menu once you have received a DTV signal, however this can be manually changed if required.

Off Time

This setting allows you to set a specific time to turn the TV off. Once you enter the menu, this function can be set to operate once only, Daily, Mon-Fri, Mon-Sat, Sat-Sun or Sunday only.

OnTime

As with the Off Time function, this setting allows you to select a time to turn the TV on. In addition to the day settings, you can also select the source you would like selected when the TV turns on and your desired volume level.

Time Zone

The Time Zone is also set when first installing the TV and should not need to be adjusted.

Sleep Timer

With ▼/▲ buttons, the sleep timer can be set to automatically turn the TV off in 10/20/30/60/90/120/180 or 240 minutes.

Auto Standby

Select 3,4 or 5 hours. The TV will turn off if there is no activity using the remote or buttons on the TV for this period of time.

OSD Timer

The OSD Timer sets the amount of time the on-screen menus are displayed on the TV. The default time is 15 seconds but should you wish to change this, select OSD Timer with the $\checkmark/$ buttons. Then with the $\checkmark/$ buttons, select Always (on) or 5, 10, 15, 20, 25, 30 seconds.

OPTION MENU



OSD Language

Select OSD Language with the $\ lacktriangledown/A$ buttons then press ENTER to adjust the on-screen language.

TT Language

This setting is not used in Australia and New Zealand.

Audio Languages

Press ∇/\triangle to select Audio Language and select language with the ∇/\triangle or $\sqrt{}$ buttons. Press the ENTER button to confirm, then the menu button to return to the previous menu.

Subtitle Languages

Press ∇/\triangle to select Subtitle Language and select language with the ∇/\triangle or $\sqrt{}$ buttons. Press the ENTER button to confirm, then the menu button to return to the previous menu.

Hearing Impaired

Select Hearing Impaired (where supported) with $\ lacktriangledown/lack \$ buttons and then press the ENTER button.

PVR File System

To check the status of the USB drive, format a drive or change the maximum record/timeshift setting, select PVR File System with ▼/▲ buttons and then press the ENTER button.

Reset

Press the ▼/▲ buttons and ENTER to select the Reset menu. Select Yes with the left arrow to reset the TV to its factory settings which will erase all of the previous settings.

HDMICEC

HDMI CEC allows devices connected to the TV via HDMI to communicate back and forth with the TV. Please see below for specific CEC settings.



CEC Control:

The default setting is On.

Audio Receiver:

Audio Receiver communication on or off.

Device Auto Power Off:

Press the ◀/▶ buttons to allow HDMI CEC connected components to turn each other off.

TV Auto Power On:

Press the ◀/▶ buttons to turn HDMI CEC Auto TV power up on/off.

Device List:

Press the ◀/▶ buttons to show HDMI CEC connected components.

Device Menu:

Press the
✓ / ▶ buttons to access the device menu.

Blue Screen

To have a Blue Screen background rather than Black when no input signal is available, select Blue Screen with \sqrt{A} buttons and them press ENTER button to select on/off, then the menu button to return to the previous menu.

LOCK MENU







Lock System

The password (default is "0000") to access the Block Program, Parental Rating Key Lock & Hotel Mode menus.

SET Password

Press the ENTER button to enter the old password (default is "0000") and then set a new password by entering it twice.

Block Program (TV only, TV must be selected as the source)

Select Block Program with $\blacktriangledown/\blacktriangle$ buttons, and press ENTER. You can then add the channels you wish to block.

Parental Rating (TV only, TV must be selected as the source)

With the ◀ /▶ buttons, the parental guidance function can be turned on or off.

Key Lock

This function disables the buttons on the back of the TV. To activate, select Key Lock with the $\checkmark/\blacktriangle$ buttons. Then with the $\checkmark/\blacktriangleright$ buttons, the Key Lock function can be turned on or off.

Hotel Mode

Hotel mode allows you to select a number of features that make this TV also useful for shop displays, promotions or where you require simple operation from one source.

Select Hotel Lock with the ▼/▲ buttons after you have turned the system lock off.

Source Lock

Source Lock allows you to limit the input sources available on the TV - for example, just DVD.

Default Source

Default Source allows you to select which input source is selected when the TV is first turned on.

DVT Channel Type

This allows you to set the default DTV channel when the TV is turned on.

Max Volume

Max Volume limits the maximum volume that the TV can be turned up to.

Default Volume

The Default Volume setting allows you to set the desired volume level for when the TV is turned on.

Clear Lock

Resets all settings.

PVR



RECORD Live TV

Ensure you have a correctly formatted USB drive inserted in the TV before recording. If the USB drive is not formatted properly, the TV will display a message advising that the USB drive needs to be formatted. To do this, go to the Option Menu, select PVR File



System and follow the steps in the PVR File System sub-menu to format the USB Drive. Please ensure that you do not have any valuable data on the drive before you do this.

When watching TV, you can press the RECORD button on the remote to start recording a program. The Power light will also start flashing red/blue to confirm that recording is in progress. The TV will also display the recording control menu (shown above) when you commence recording.

NOTE: If you want to display this menu at any time when recording, simply press the ENTER button on the remote.

Stop Recording

Press ENTER on the remote to display the record menu, then press the ■ button to stop recording. You can also press the ■ button twice to stop recording (the first press will bring up the Record Menu). The TV will then display a confirmation message to stop recording. Press ◀ on the remote to confirm. When the storage space of the USB drive is full, the TV will display a warning message then stop recording and return to normal broadcast Television.

Time Shift/Pause Live TV

While watching DTV, press the "TIME SHIFT" button on the remote control to Pause Live TV and bring up the time shift control menu. The time shift control menu is similar to the Record menu and you can perform various functions such as exit time shift, or fast forward to catch up to the live program etc. Pressing "TIME SHIFT" button again will continue the live program from where you paused it (time shift).

NOTE: To display the Time Shift menu when the TV is either paused or on Time Shift playback, press the "ENTER" button on the remote control.

The PVR function is only available for the TV channel that is being viewed. If you change the channel, the PVR function will stop. You cannot switch to another Source while recording. If you change the source, the recording will also be stopped.

Programmed Recording

Press EPG, select CH program from list using ▲ ▼ ◀ ▶ buttons, then press red button. Select Mode - Auto - Once - Every Day - Weekly. Note: Programmed recording will still record if the TV is in standby mode. The Power LED will flash red/green to indicate the TV is recording.

MEDIA OPERATION

NOTE: Before operating **Media** menu, plug in USB device then press SOURCE button.

Press ▼ / ▲ button to select Media in the Source menu, then press **Enter** button to enter.



Press ◀/▶ button to select the type of media you wish to view in the **Media** menu, then press **Enter** button to enter.

Press ◀/▶ button to select C, the press Enter button to view the contents of the USB device.

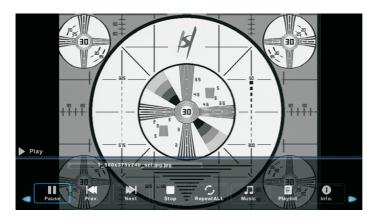
PHOTO MENU

Press ◀/▶ button to select PHOTO in the main menu, then press **Enter** button to enter. Press **Exit** button to return to the previous menu.



Press \blacktriangleleft / \blacktriangleright button to select the desired file to watch in the file selecting menu, then press **Enter** to display the picture.

When highlighting a phot, the file information will appear on the right and the picture will be previewed in the centre.



MUSIC MENU

Press ◀/▶ button to select MUSIC in the main menu, then press **Enter** button to enter. Press **Exit** button to return to the previous menu.





Press $\blacktriangleleft/\blacktriangleright$ button to select drive disk you want to watch, then press **Enter** button to enter.

Press ◀/▶ button to select return option to the previous menu.



MOVIE MENU

Press ◀/▶ button to select MOVIE in the main menu, then press **Enter** button to enter. Press **Exit** button to return to the previous menu.



Press ◀/▶ button to select desired drive disk, then press **Enter** button to enter.

Press **Enter** button to play the selected movie.

Press **Display** button to open the menu. Press \blacktriangleleft / \blacktriangleright button to select a function, then press **Enter** button to enter.

Press **Exit** button to return to the previous menu.



TEXT MENU

Press ◀/▶ button to select TEXT in the main menu, then press **Enter** button to enter. Press **Exit** button to return to the previous menu.



- Press ◀/▶ button to select drive disk, then press **Enter** button to enter.
- Press
 √ ▶ button to select return option to chane pages.

Press **Display** button to open the menu. Press ◀ / ▶ button to select a function, then press **Enter** button to enter.



DVD OPERATION

The DVD settings menu is accessed by pressing the **D. Setup** button.

Press ▲▼◀▶ to navigate the OSD menu.

Press **Enter** to confirm the change.

Press **D.Setup** to leave the OSD menu.

1. General Settings Page



TV Display

Some DVD discs have been authored in 4:3 aspect ratio format. To see the material in its original mode, you may need to change the Aspect ratio.

Pan & Scan (4:3)

The sides of the screen will be black.

Letterbox (4:3)

Top and bottom of the screen will be black.

Wide 16:9 (Widescreen)

Normal viewing mode.

OSD Language

Select the OSD language (English is default)

Last Memory. ON/OFF.

When you stop the disc, the player will automatically remember the point it finished playing. When the disc is re-inserted, the player will continue from the same point.

2. Audio Setup



Press D. Setup button on the remote control during DVD playback. Press ◀/▶ until the audio setup page is shown.

Downmix: LT/RT: Mono audio during DVD playback. Stereo: Stereo audio during DVD playback.

PREFERENCE SETUP



1. TV Type

Select the colour type from PAL, AUTO or NTSC.

2. Audio

Please select the preferred language for DVD audio.

- 1. The selected language is assigned high priority and can therefore be adopted automatically when the player begins playing a disc.
- 2. Languages vary between discs, depending on the DVD. You can also select alternative languages by pressing the AUDIO button on the remote.

3. Subtitle

Selects the preferred language for subtitles recorded on discs. You can also select alternative subtitle languages by pressing the **S.TITLE** button on the remote.

4. Disc Menu

Selects the preferred language for the disc menu recorded on the discs. This choice varies between discs.

5. Parental

It is possible to restrict playback of certain discs, based on the rating of the disc. This function is password protected.

NOTE: If you play discs that do not support the Parental Control function, the DVD player cannot restrict access to the disc.

6. Password

Change the password. The default is 0000.

7. Default

Restore the DVD settings to factory default settings.

SPECIFICATIONS

PANEL

- Display Size: 21.5" (56cm)
- Resolution: 1920 x 1080
- Brightness: 220cd/m2
- Contrast: 3000:1
- Viewing Angle: 178(H) x 178(V)

TUNER

- DVB-T Digital HD Tuner
- Analogue Tuner
- DTV Video System: H.262, H.264, H.265
- DTV Sound System: MPEG-1 Layer 1/2
- EPG (DTV Electronic Program Guide)
- ATV Video System: PAL
- ATV Sound System: BG, DK, I
- ATV Teletext: 1000 Pages
- Number of Channels: 99
- MPEG-4 Video System

PVR (Personal Video Recorder)

 TIME SHIFT: Pause, Rewind & Fast-Forward Live TV NOTE: Requires USB memory device (not included)

DVD/CD PLAYER

- Built-In DVD Player
- Supports DVD/VCD/CD/MP3/JPEG/DVD±R/DVD±RW/CD-R/RW/DIVX*
 - * free version

INPUTS

- HDMI: 2
- USB: 1 x Media (+ 1 x Power Output)
- Mini YPbPr: 1
- Mini AV: 1
- VGA: 1
- PC Audio: 1 - RF/Antenna: 1

OUTPUTS

- Bluetooth Audio Transmitter
- Headphone: 1 (3.5mm)
- Digital Coaxial: 1
- Line Out: 1
- USB: 1 x Power Output

SYSTEM

- OSD: Multi-languages
- Comb Filter: 3D
- Conformal Coated Circuit Board
- Speakers: 2 x 5W Stereo

POWER

- Input: 10-30V / <45W
- Optional AC Adapter: 240V 50Hz/60Hz
- Stand-by Power Consumption: <0.5W

CABINET

- 100 x 100 VESA Mounting
- Dimensions:
 - 501.3(W) x 298.5(H) x 48.5(D) mm with no feet 535.4(W) x 327.9(H) x 165.1(D) mm with feet
- Net weight: 2.9 kg

INCLUDES

- Multi Function IR Remote
- Mini AV cable
- 12/24V Cig. Power Lead
- Mini YPbPr cable
- Desk Mount Feet

23

WARRANTY

Congratulations on your purchase. You're joining thousands of satisfied customers who enjoy & experience the benefits of the products we distribute. In the unlikely event that some technical difficulty arises with your purchase, be assured that we are most anxious to see that the problem is quickly rectified to your satisfaction. Please familiarise yourself with the following simple conditions of our warranty. This warranty covers faults through component failure or failure of the product to operate in accordance with published specifications. Product failure as a result of unreasonable environmental conditions, accident, misuse, improper installation, unauthorised repair, vehicle electrical or wiring faults or neglect etc, will not be covered by this warranty. Removal and installation costs, if any, would be paid by the owner as well as any freight or postage costs of transporting the product to AUTOBACS AUSTRALIA PTY LTD and shall not be liable or responsible for any loss of use of this product or any form of consequential loss.

CONSUMER WARRANTY

This product is warranted by AUTOBACS AUSTRALIA PTY LTD to be free from defects in materials and workmanship under **NORMAL USE** for a period of **TWENTY FOUR MONTHS** from the date of purchase.

WITHIN 30 DAYS OF PURCHASE DATE:

Please return the unit for replacement to our National Service Centre or the Retailer from where you made the purchase. All accessories must be included. Proof of purchase date **must** accompany the products.

AFTER 30 DAYS OF PURCHASE DATE:

Warranty repair and service is carried out by our National Service Centre. Repair and service will be carried out at no cost to the owner if proof of ownership and the date of purchase can be verified to the satisfaction of the authorised centre concerned with this repair. This proof should take the form of either:

- a) The warranty card accompanying this product, stamped and dated by the dealer.
- b) A Tax Invoice or Receipt showing full details of original vendor, purchaser, model number and serial number.

COMMERCIAL WARRANTY

A product used in or associated with a commercial application will carry a limited TWELVE MONTHS warranty. An abnormal commercial application is one where usage, dust, vibration, heat/cold and other environmental conditions exist at an extreme level.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Purchaser's Name:	
Purchaser's Address:	
Model Number:	Serial Number:
Dealer Name:	Date of Purchase: / /
Dealer Address:	
Invoice/Sales Docket no:	
General Hints: To expedite service and prompt return of the equipment, please:	
a) Clearly describe the fault in detail c) Include your return address	b) Safely and securely pack the unit for transport d) Provide proof of purchase date as outlined above

National Service Contacts: AUTOBACS AUSTRALIA PTY LTD

Telephone: 1300 288 029 email: services@autobacs.com.au

