![Laser logo]

3.5" Hand held DVBT-C30B with FM Radio Function

Users Manual

DVBT-C30B USER MANUAL

IMPORTANT SAFETY INSTRUCTIONS AND PRECAUTIONS

- Read instruction carefully before using this product

- Observe all warnings and cautions when using this product.

- Retain all manuals and documentation for future referral.

- Only use this product in a manner described in this manual.

- Do not use this product if you are in control of a motor vehicle.

- If used in a motor vehicle is should be used away from the driver to avoid distraction.

- Do not use this device in extremely hot, cold, humid, dusty or sandy environments.

- Do not use this device in electrical storms or other conditions if the likely hood of lightning is possible.

- Do not attempt to clean this product using liquid cleaners or aerosol cleaners. Use only a damp soft cloth to clean the surface of this device.

- Extreme Care should be taken when using this product near any body of water such swimming pools, kitchen sinks, baths and alike.

- This device is not waterproof. Do not use this device in the open if there is a high level of moisture in the air.

- Only place the device on a stable surface and ensure that cables attached to the device can not cause the device to fall.

- Only use the recommended accessories for this device. Use of incorrect accessories may cause damage and void the warranty.

- Use only the recommended batteries in this device. The use of incorrect batteries may cause damage to the device or injury to the user.

- Using this device near other electronic devices may cause interference. Please use care using this product near other devices.

- Do not mix batteries in this product. Please use the same brand and type of batteries and do not mix old and new batteries.

- Dispose of batteries thoughtfully.

- Remove batteries from device if it is not to be used for long periods. Damaged caused by leaking or faulty batteries is not covered by warranty.

- Care should be taken when using the external antenna. Please remove the fitting carefully from the device. Do not pull at the cord to remove it.

- Ensure that the ventilation holes are no blocked when using this device. Heat build up may cause this device to fail.

- There are no serviceable parts in this device. Attempts to open this device by unauthorised personnel may cause further dame and void the warranty.

- Picture quality will be dependent on signal quality and strength. This device may not be able to pick up all stations in all areas. For best results use in a strong signal area and ensure that the antenna has a clear unobstructed view of the sky.

- Images of product and accessories are indicative only and may vary slightly from actual product.

- We reserve the right to make changes to this document and the product without notification.

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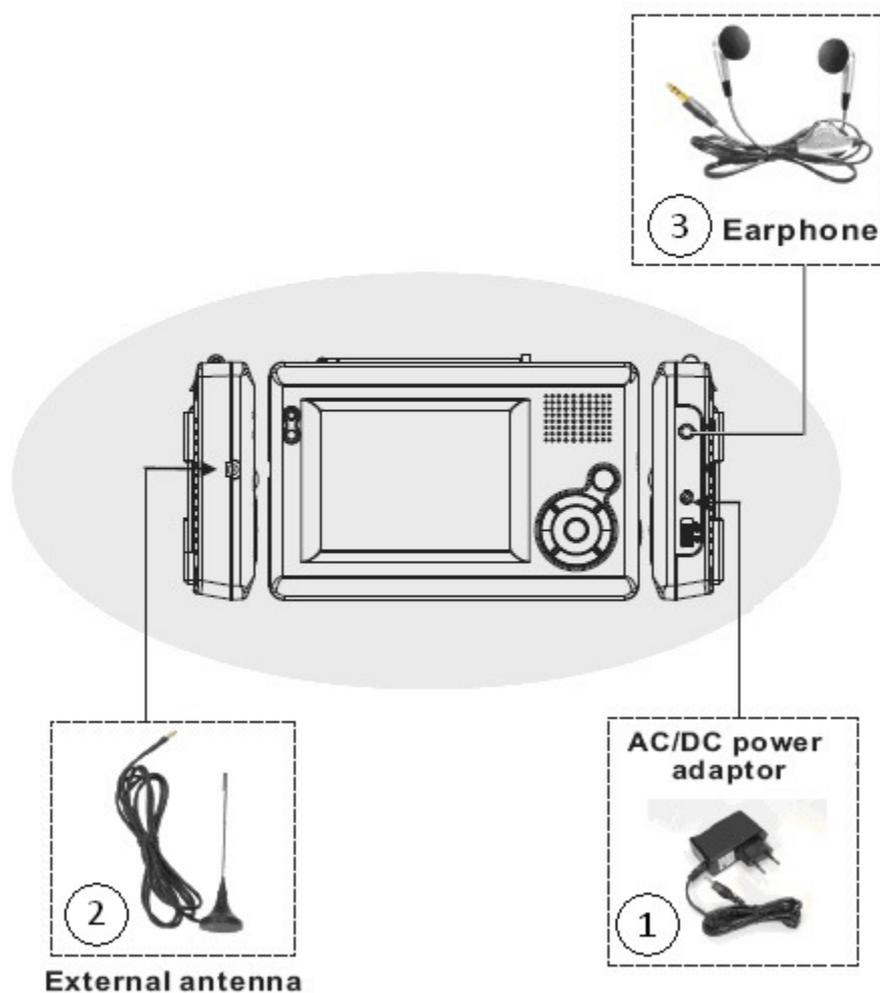# DVBT-C30B USER MANUAL

DVBT-C30B USER MANUAL

ACCESSORY LIST

Accessory List

DVBT-C30B +

1. AC/DC Power adaptor
2. External Antenna
3. Earphone
4. Battery Pack (NOT SHOWN)
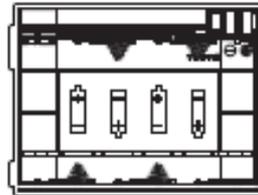5. Manual (this document)

CONNECTION GUIDE

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PREPARING THE BATTERY PACK FOR USE

The battery pack allows the TV to be used without the AC adaptor

Make sure that the batteries used in the pack are fully charged and are in good condition.

Rechargeable batteries can be used but not charged in this pack.

Attaching the Battery Pack

Fit 4 X AA Size batteries to the pack as shown.
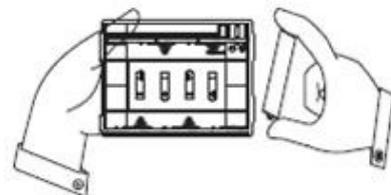
Match the batteries to the images in the pack.

Locate the top of the battery pack and hold upwards.
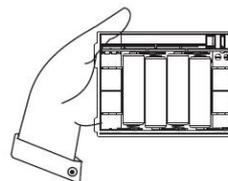
Position the pack on the back of the DVT.

Push the battery pack downwards until the pack locks in place.
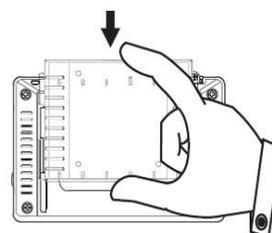
Makes sure the pack is locked in place before using the DVT.

To remove the battery pack from the DVT, locate the locking tab at the top of the pack and press in. Push the pack upwards until tabs are clear of the DVT.

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KNOWING YOUR DVB-T
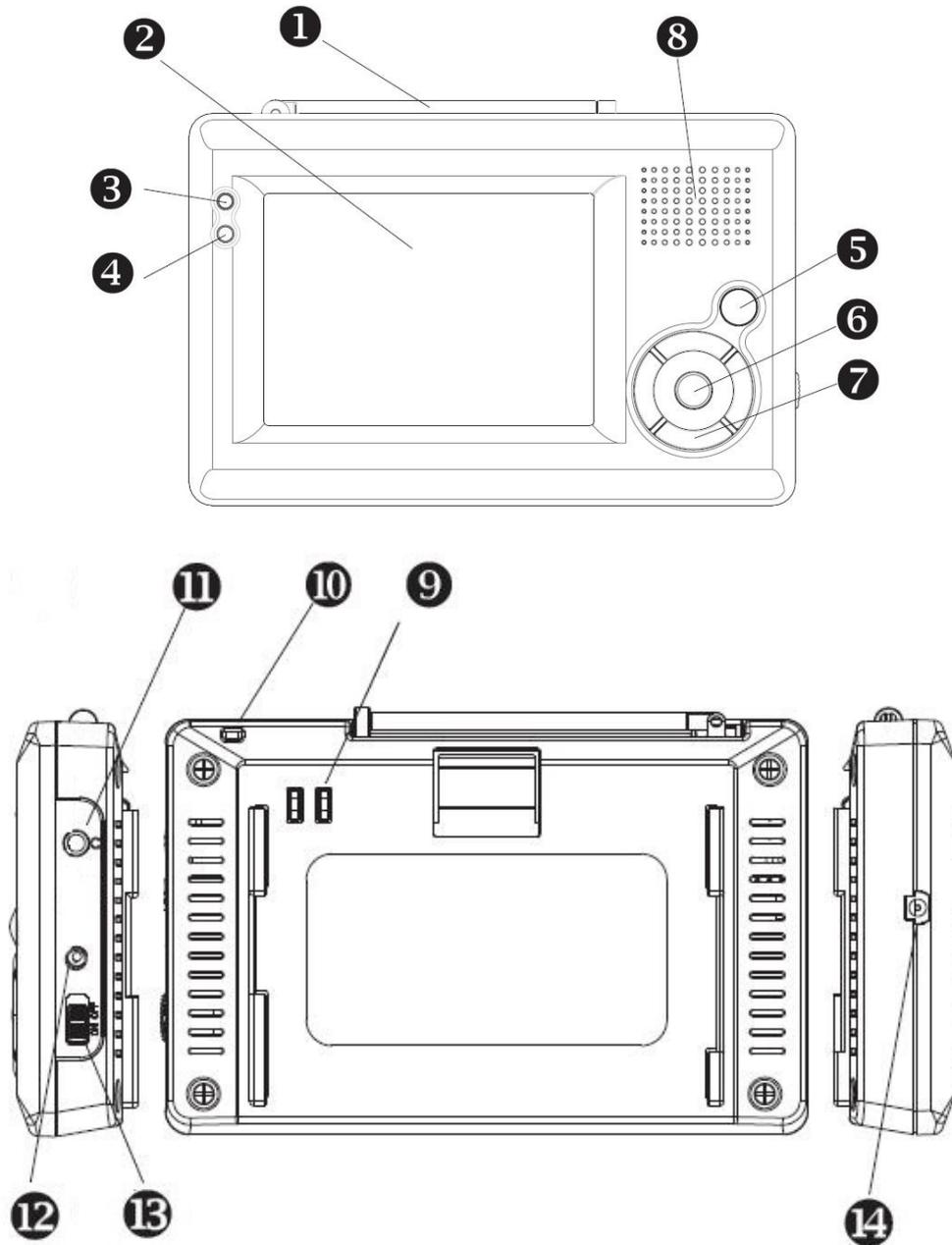
1	Antenna	8	Speaker
2	LCD panel	9	Battery Connector terminal
3	Power LED (LED will glow green if in use)	10	Eyelet for lanyard (Not Supplied)
4	IR Sensor	11	Earphone/Audio out Socket
5	Menu/Exit Button	12	DC power connecter socket
6	OK/Mute button	13	Power ON/OFF Switch
7	Multi Selector (VOL & Channel)	14	External Antenna connector

(Device shown with battery pack removed)

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BASIC OPERATION

Channel selection
Press [CH+] button or [CH-] button to select the TV/Radio channel

Menu
Press this button to enter or exit the menu mode .

Volume adjustment
Press [VOL-] button or [VOL+] button to adjust the volume.

Mute control
Press this button to mute or restore the volume.

Make selection
In menu mode, press this button to make selection

Navigating the Menu
In menu mode, press [CH+] button and [CH-] button to move cursor up and down. Press [VOL-] button and [VOL+] button to move cursor left and right.

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QUICK START FOR FIRST TIME USE

When turned on for the first time you will be required to check some basic settings for the DVBT-C30B

1) Turn the DVBT-C30B on and wait for the following screen to be shown and then press the OK button.

2) Select your OSD Language, your current region, whether it's summer time at present.
Use [CH+]/[CH-] buttons to highlight the item.
Use [VOL+] button to set the highlight item.
Press [CH+]/[CH-] buttons to scroll up and down the options.
Select one by pressing the [OK] button or exit the setting by pressing the [MENU] button.

3) Perform auto search to find available TV DVB-T channels.
Use [CH+]/[CH-] buttons to highlight the Auto Search item.
Press [OK] button to start.
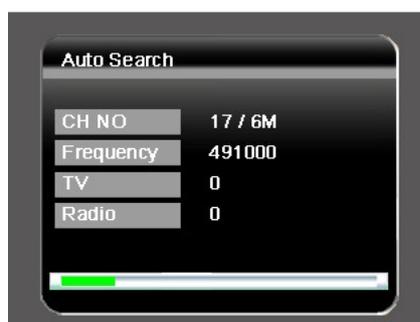
When the scan is complete you will be able to watch Digital TV channels available in your current area**.**

Please note that playback quality is subject to signal strength and quality at the current location. Changing location may improve quality in some cases.

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USING THE MAIN MENU

In the main Menu Mode you can highlight the service type, program list, preview, audio channel, program editing, program info, automatic search, manual search, and system setting to enable the related function. You can use the [CH +], [CH -], [VOL +], and the [VOL -] buttons navigate around the menu. When the required item is highlighted, press the [OK] button to select.

Icons			Description
			Service Type Selection of DVB-T TV or DVB-T Radio or FM Radio Program list
			Program List (EPG) To show the information of all the available channels and access the Electronic Program Guide (EPG
			Channel Management To rearrange and to edit the TV channel listing using skip, move and delete functions.
			Automatic Search To search the available channels automatically.
			Channel information To display the channel broadcasting parameters and signal information.
			Antenna Selection To choose to receive signal through either built-in antenna or external antenna.
			Display Settings Set display settings such as brightness, aspect ratio and auto backlight function.

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Region and Language Settings
Set up the OSD language and change region settings

Subtitle
To turn the subtitle function ON or OFF
(if service is available)

Teletext Function
Turns the Teletext function ON or OFF
(if service is available)

Audio Settings
Selects master or secondary audio language.
 (if service is available)

System Reset
To reset system to factory defaults and displays system software version.

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MAIN MENU IN DETAIL

 Service Type

Selection of Digital TV, Digital Radio or FM Radio program

The service type will be switched between Digital TV, Digital Radio and FM Radio program as [OK] button is pressed.

 Program List

To display channel information, preview the program, and to access the Electronic Program Guide (EPG)

1. Select "Program List" in the TV menu and press [OK] button. The "Program List" will appear on screen.
2. Press [CH+]/[CH-] buttons to scroll up/down the channel list to preview the program.
3. Press [VOL+] button to show the details of the channel.
4. Press [MENU] button to exit

 Automatic Search

To search the available channels automatically.

1. Browse the TV menu screen using [CH+]/[CH-]/[VOL+][VOL-] buttons to highlight the automatic search option.
2. Press [OK] button to start the channel search.
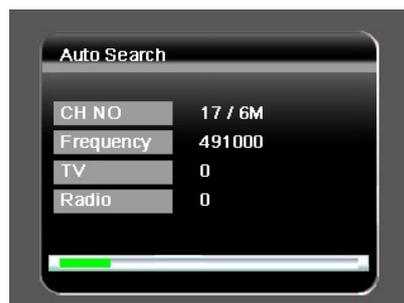
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🌐 Channel Management

To rearrange and to edit the TV channel listing using skip, move, lock, and delete functions.

1. Select "Channel Management" in the TV Menu and press the [OK] button. The management screen will appear as in the picture on the right.
2. Press the [CH+]/[CH-] buttons to scroll up/down the channel list. Press [OK] button to enter the Editing menu for the selected channel.
3. Press [MENU] button to exit anytime.

⛯ Skip a Channel
1. After entering the channel editing menu, select the "SKIP" visual-button on screen by pressing [VOL+]/[VOL-] buttons.
2. Press [OK] button to activate or deactivate it.

NOTE: this function "temporarily" removes the channel from the program list. Users can restore the channels by deactivating the function.

⛯ Move a Channel
1. After entering the channel editing menu, select the "MOVE" visual-button on screen by pressing [VOL+]/[VOL-] buttons and press [OK] button.
2. Use [CH+]/[CH-] buttons to move the channel up or down in the list.
3. Press [OK] button to save the new listing.

⛯ Delete a Channel
1. After entering the channel editing menu, select the "DELETE" visual-button on screen by using [VOL+]/[VOL-] buttons.
2. Press [OK] button to delete the channel.

NOTE: this function will "permanently" delete the channel from the current program list. Users restore the channels only by performing auto search.

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Channel Information

**To display the channel broadcasting parameters and signal information**

1. Browse the TV menu screen using the [CH+]/[CH-]/[VOL+]/[VOL-] buttons to highlight the channel information option.
2. Press [OK] button to display the channel information.
3. Press [MENU] button to exit

Channel Info	
CH Name	Cate TV
Prog. Name	-
CH NO	6
Bandwidth	6 MHz
Frequency	557000 KHz
Quality	60
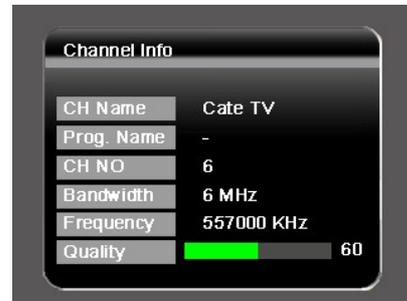
Antenna Selection

Change the option of using the inbuilt antenna or an external antenna

1. Browse the TV menu screen using [CH+]/[CH-]/[VOL+]/[VOL-] buttons to highlight the antenna selection option.
2. Press [OK] button to enter.
3. Press [VOL+]/[OK] key to access the option-list.
4. Use [CH+]/[CH-] to scroll up/down. Press [OK] button to select one option.
5. Press [MENU] key to exit.

Antenna Selection

Mode   Ext. Ant.   Option
                     Built-In Ant.
                     Ext. Ant.
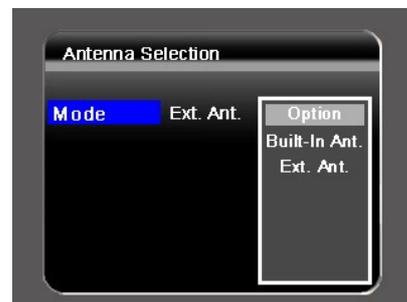
Display Settings

To set the aspect ratio, adjust brightness as well as switch on or off the auto backlight function.

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1. Press [CH+]/[CH-] buttons to highlight the item you want to adjust.
2. Press [VOL+]/[OK] button and use [CH+]/[CH-] to scroll up and down the options.
3. Select one by pressing the [OK] button or exit the setting by pressing the [MENU] button.
4. After adjusting, press [MENU] button to exit the "Display Setting".
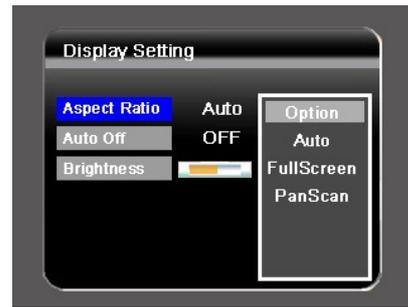
Region & Language Settings

To set up the OSD language and DVB-T regional settings

1. Press [CH+]/[CH-] buttons to highlight the item you want to adjust.
2. Press [VOL+]/[OK] button and use [CH+]/[CH-] to scroll up and down the options.
3. Select one by pressing the [OK] button or exit the setting by pressing the [MENU] button.
4. After adjusting, press [MENU] button to exit the "Region & Language Settings".

Subtitles

To activate or deactivate the subtitle function

1. Press the [OK] button to start the searching
2. After the searching, press [CH-]/[CH+] to choose the language.
3. Press the [OK] button to select.
4. Press the [MENU] button to exit

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![Teletext icon] **Teletext**

To start the Teletext function

Teletext is no longer broadcast in Australia except of the transmission of subtitles (accessible in Subtitles). This service may be available in other countries and use of this feature may vary between services.

![Audio icon] **Audio Settings**

To select master or secondary language when broadcast

1. Browse the TV menu screen using [CH+]/[CH-]/[VOL+]/[VOL-] buttons to highlight the audio option. Press [OK] button to enter the audio menu.
2. Use [VOL+]/[VOL-] buttons to select stereo/left/right audio channel. Scroll the available language using [CH+]/[CH-] buttons. Press [OK] button to select the language.
3. Press [MENU] key to exit.

![System Reset icon] **System Reset**

To check the system software version and make system reset

1. Press [OK] to enter the system reset menu.

2. Press [OK] again to proceed the resetting.

DVB-T RADIO SERVICE

As the Radio function is selected, Radio service will instantly start and the radio service screen will be shown on display.
Press [CH+]/[CH-] to select your preferred radio channel.

The menu of Digital Radio is same as Digital TV service. Please refer to man menu in details.

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FM RADIO SERVICE

Press the [CH+]/[CH-] buttons to manually search FM programs. Pressing [CH+]/[CH-] for about one second will start the auto channel search feature.

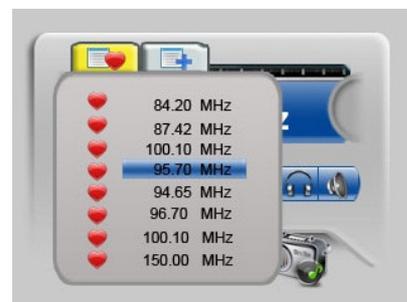*IMPORTANT: Please plug earphone for improved FM reception*

Favourites list

1. Press [OK] to open Favourite List
2. In Favourite List, press [VOL+]/[VOL-] to switch loading Favourite list & storing Favourite list page.

Load Favourite List

1. Press [CH+]/[CH-] to move between favourite

2. Press [OK] to hearing current Favourite or press [MENU] to cancel loading Favourite programs.

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 Store Favourite List

1. Press [CH+]/[CH-] to adjust preferred Favourite location

2. Press [OK] to store current frequency to preferred Favourite location or press [MENU] to cancel storing Favourite programs.

FM RADIO MENU

Press [Menu] to enter Menu in FM Radio mode.

Service Type

 Selection of Digital TV, Digital Radio or FM Radio program

1. Same as menu of Digital TV. The service type will be switched between Digital TV, Digital Radio and FM Radio program as [OK] button is pressed.

Favourites List

 Loading your favourite FM programs

1. Press [CH+]/[CH-] to move between favourite

2. Press [OK] to hearing current favourite.

Add to favourite List

 Saving your favourite FM programs

1. Press [CH+]/[CH-] to adjust preferred favourite location

2. Press [OK] to store current frequency to preferred favourite location.

Speakers

 Turning the Speaker ON or OFF

During FM Radio Service, plugging earphone will not cause the speaker of the main unit to be turned OFF. To turn the inbuilt speaker ON or OFF do the following.

1. Press the [Menu] button to display the menu. Use the [CH+]/[CH-] buttons to change to the speaker icon.

2. Press the [OK] button to turn the internal speaker ON or OFF.

3. Press the [Menu] button to return to the FM radio screen.

The speaker status is displayed on the screen

     = Speaker is ON

     = Speaker is OFF

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TROUBLE SHOOTING

Most of the troubleshooting issues can be easily solved. The common cases and their respective solutions are listed in the table below. If the problem persists, please contact the Technical support.

Problem	Possible Reason	Solution
No video, no audio.	The battery is totally discharged.	Change the battery
	The power adapter is not plugged properly.	Check whether the connector of the power adapter is completely plugged into the power jack of the device.
	The device is not powered on.	Slide [POWER SWITCH] to "ON" position.
	The program table is empty.	Perform "Auto Search" to discover the available channels.
In DVB-T mode, the number of DVB-T channels is not as much as expected.	The number of available channels is limited due to the local broadcasting system. The available channels can vary depending on the area.	Perform "Auto Search" to rescan all the channels.
	The signal quality of some TV channels is too low.	Use the external antenna to increase the reception sensitivity. For indoor use, place the antenna close to a window and place it on high point.
	Some TV channels are not available.	Only the locally free broadcasted channels can be viewed. They can differ depending on the area.
In DVB-T mode, all of the channels show "no signal or random mosaic tiles appear on the display."	Some TV channels signal quality is too low.	Use the external antenna to increase the reception sensitivity. For indoor use, place the antenna close to a window and place it on high point.
	No DVB-T service is provided in the area.	Check your country DVB-T coverage map. It is not possible to watch digital TV/listen to digital radio in non-covered areas.
There is no sound output.	The audio volume is too low.	Press [VOL+] button to raise the volume.
	The earphones are not connected properly.	Check if the earphone plug is clean and well inserted.
	The device is located close to strong magnetic field.	Move the device to another location and use it again.

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SPECIFICATIONS

Antenna	
Antenna Type	Built-in rod Antenna (VHF and UHF band reception)
	Support external antenna input (MCX Type)
Display	
Panel Type / Resolution	3.5" Colour TFT-LCD / 320RGB(W) x 240(H) pixels
Brightness / Contrast	250 nits / 400:1
View Angle	120° (Horizontal) / 105° (Vertical)
System	
TV Reception Standard	DVB-T Standard (EN 300 744) Compliance
Features	DVBT-T TV/Radio, FM Radio, auto channel search, EPG, Teletext, subtitle
OSD Languages	German, English, French, Portuguese, Spanish, Italian, Dutch, Traditional Chinese, Nederland, Czech
I/O Interface	
Speaker	1 Built-in Speaker Max (8Ω / 0.5W)
Earphone	1 Stereo Earphone Output (3.5mm)
Keypads	6 operation buttons: [CH+], [CH-], [VOL+], [VOL-], [OK/MUTE], [MENU]
Power	
Power supply	100/240V AC power adaptor with DC+5V/1.4A output
Battery	External battery pack for extended operations
Operating Time	Typical up to 5 hrs (when powered by external battery pack with 4xAA Alkaline battery)
Dimension	
L x W x H	134 x 87 x 22 (mm)
Weight	180 g (not including the battery)

AVAILABLE ACCESSORIES

Speakers and earphones

http://www.laserco.net/products/pc-accessories/speakers

For other accessories and products

http://www.laserco.net

CONTACT INFORMATION

For more information on this product and technical support please visit

HTTP://WWW.LASERCO.NET