User’s manual

HD/SD DVB-T2 DIGITAL TV RECEIVER
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1. 2 Connections

The red power wire connect to the ACC line which can control the auto, don't connect to the storage battery directly from the auto, to guard against long term operation can't stop. The ACC line and the GND line should install firmly, avoid some unnecessary machine issues.

2. Parts menu introduction
2.1 Remote control function brief

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<th>Description</th>
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</thead>
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<td>Power</td>
<td>Press to turn on/off the DTV</td>
</tr>
<tr>
<td>Mute</td>
<td>Select sound or remove sound</td>
</tr>
<tr>
<td>Enter</td>
<td>Confirm the selection</td>
</tr>
<tr>
<td>Display</td>
<td>Displays current channel/program information</td>
</tr>
<tr>
<td>TV/RADIO</td>
<td>Switch between TV and Radio modes</td>
</tr>
<tr>
<td>0-9</td>
<td>Input channel number</td>
</tr>
<tr>
<td>SUB</td>
<td>Change the subtitle language</td>
</tr>
<tr>
<td>EPG</td>
<td>Display the Electronic Program Guide</td>
</tr>
<tr>
<td>AUDIO</td>
<td>To change audio menu</td>
</tr>
<tr>
<td>TTX</td>
<td>Display teletext features</td>
</tr>
<tr>
<td>FAV</td>
<td>Add or remove TV channels from one of the four favorite channel lists</td>
</tr>
<tr>
<td>Exit</td>
<td>Menu exit</td>
</tr>
<tr>
<td>VOL+/-</td>
<td>Volume adjust and left/right in the menu</td>
</tr>
<tr>
<td>Menu</td>
<td>Display the main Menu</td>
</tr>
<tr>
<td>CH+/-</td>
<td>Change the channel one by one and up/down in the menu</td>
</tr>
<tr>
<td>&lt;</td>
<td>Menu selection</td>
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<td>&gt;</td>
<td>Menu selection</td>
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<tr>
<td>Search</td>
<td>Scan program</td>
</tr>
<tr>
<td>Play/Pause</td>
<td>Press to turn on/off the Time shift</td>
</tr>
<tr>
<td></td>
<td>Press to turn on/off the recording</td>
</tr>
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</table>
2.2 Function brief and ports introduction
The HD tv receiver support H.264, MPEG2, MPEG4, MPEG5 such video decoding.
Support PCM, ACC Level2, ACC Level4 such audio decoding tv receiver solution.
It is available for European and Australia countries.
Input Port: DTV,USB
Output Port: AV,YPbPr,HDMI,Audio

2.3 Installation Guide
The tv box will show installation guide before search channels. You can select language and country then enter auto search.
Show as below picture:
Press button select language and country, when select channel search, press button enter auto search. Show as below picture:
Press EXIT stop search, popup whether to stop search tooltip, press OK exit auto search function, and save search information then exit search page. Press MENU to skip the displayed channel search to continue to search for the next channel status.
Note: Auto search will immediately delete all channel informations.

2.4 Main Menu
Traditional style full screen main menu, and matrix style menu.
Press MENU to open main menu, including: Program, Picture, Channel Search, Time, Option System, USB six submenu.
Press button to select submenu, then press OK to enter submenu page, press EXIT to exit submenu back to current page.

2.4.1 Menu — Program
Press to move the highlight bar to select debugging project. Press EXIT/MENU back to main menu.
Press to select focus adjust project.

2.4.1.1 Program - Program Edit
Under the Program Edit option press OK/ enter, firstly prompt customer to enter a password, default setting password: 00000.
If the password is correct, enter the Program Edit menu, if enter wrong password, it prompt for password error, press EXIT button back to password error menu prompt.
RED button (Move): Press Red button to select the need to move channel, at customer's satisfy location, press OK, the channel number will move to the appropriate location.

FAV button (FAV): After press FAV button, the selected channel will add to FAV List. Press up and down buttons to select multiple channels.

Green button (Skip): After press Green button, the selected channel will skip during channel switch, can't be selected.

Yellow button (Lock): After press Yellow button, the selected channels will be locked. When watch need to enter password for viewing.

Blue button (Delete): After press Blue button, popup confirmation for customer whether delete dialog, press ENTER button will delete the channel.

Exit button: back to Program Edit menu;

Note, if the Program Edit has been modified, press EXIT button back to Programpage, will popup the save display box, keep save then exit.

Under the Program Edit option press OK/▼ button, select EPG, to get more information about the program and program news going to play at current or future, or press EPG button to enter electronic program guide menu page as below:

2.4.1.2 EPG

2.4.1.3 Program - Sort
Press◄/► to select the way of Sort : By LCN; By ONID: By Service name; By Service ID: default setting By LCN.

2.4.1.4 Program - LCN
Press◄/► to select whether open LCN, default setting ON.

2.4.2 Menu - Picture

Press◄/► to move the highlight bar to select debugging project. Press EXIT/MENU back to main menu.

Press◄/► to select focus adjust project.

Aspect Ratio select range : 16:9 Wide Screen; Auto; 4:3 Full; 4:3 Pan & scan; 4:3 Letter Box, default 16:9 Wide Screen;

Resolution select range: 480P,576P,720P,1080I; default 1080I;

TV Format select range: NTSC, PAL, default PAL;

Video output select range : CVBS,RGB

2.4.2.1 Menu-Channel Search
2.4.2.2 Channel Search - Auto Search
Under Auto Search option press OK/ button popup dialog to confirm whether enter to search, press ENTER button to confirm auto search menu page, the tv receiver under the processing of searching channels.

Press EXIT to stop auto search, if the processing of searching didn't finish, will popup the dialog to confirm whether exit search, after confirmation will exit search.
Press MENU to skip the displayed channel search to continue to search for the next channel status.
Note: Auto search will immediately delete all channel informations.

2.4.2.3 Channel Search - Manual Search

The menu show Frequency channel, Frequency, Bandwidth, Quality. Press OK to enter Channel Search processing.

2.4.2.4 Installation - Country
Press/ to select country, different country different frequency range and bandwidth.
Antenna power : open 5V/0V, support one external antenna

2.4.3 Menu - Time

Press/ to move the highlight bar to select debugging project. Press EXIT/MENU back to main menu. The OK button doesn't work in this page.

2.4.3.1 Time - Time Offset
Select range : Auto, Manual, default Auto

2.4.3.2 Time - Country Region
When Time offset is Manual, Country Region option in gray can't be selected. Different country different selection, default, Paris

2.4.3.3 Time - Time Zone
Select range : GMT-12-GMT+12, default GMT+1, Select range : GMT-12-GMT+12, default GMT+1, When Time offset is Auto, Time Zone option in gray can't be selected.

2.4.3.4 Sleep
This function has been closed.

2.4.4 Menu - Option

Press/ to move the highlight bar to select debugging project. Press EXIT/MENU back to main menu.
Press OK/ to enter the option menu page under Configuration menu.
2.4.4.1 Option - Language
Under Language option press OK/ button enter language page, press ▲▼ to select focus adjust project, press EXIT/MENU back to Configuration menu.

OSD Language range: English, Czech, Danish, French, German, Italian, Portuguese, Spanish
Subtitle Language: in order to take care of hearing disability, will add special subtitles when program recording.
Audio Language: Audio language selection type
Digital Audio select range: PCM,RAW,Off. default PCM
Audio Description: this option closed.

2.4.5 Menu -System

2.4.5.1 System -Parental Guidance
Under Parental Guide option press OK to enter, first show 6-digit password input box, enter correct password, enter to Parental Guide menu page.

This page is a child lock function, the channel is age limit, can't watch for child. Press ▲▼ to select age limit range, press OK to confirm setting, press EXIT/MENU back to previous page.

Input old Password: enter the initial 6-digit password, default password is 000000, if enter wrong password will pop-up password error massage box, press EXIT to exit the prompt box.
Input new password: enter new 6-digit password.
Confirm password: enter the password again to confirm new password, if enter correct again, will pop-up set successfully prompt box, press EXIT to exit prompt box, password setting successfully.

2.4.5.2 System- Restore Factory Default
Press OK/ then pop-up enter password menu, enter the initial password: 000000, STB perform reset action, enter engineering default state, restore to default setting.

2.4.5.3 System - Information
Press OK/ show message box: Model, SW Version ( software version ), HW Version ( type of main engine ).
2.4.5.4 System - Software Update
Under Software Update option press OK to enter this page.

Enter Media press ▲ to move the highlight bar to select Music or Photo. Movie PVR. Press OK to confirm. Press EXIT back to previous page.

Multimedia-Music
Music support play WMA/MP3/AAC format files.

2.4.5.5 Menu-USB

Press ▲/▼ to move the cursor select play songs, press OK to enter next menu, press RETURN back to previous menu.

Press <PLAY/PAUSE>, <PRE>, <NEXT>, <FORWARD>, <BACKWARD> to play/Pause, previous song, next song, fast forward, fast backward. Press EXIT to exit play mode.

Multimedia-Photo support play jpg/bmp/png format files.

2.4.6 Menu-Multimedia
2.4.6.1 Multimedia
Press ▲/▼ to move the highlight bar to select debugging project. Press EXIT/MENU back to main menu.

Press OK/▼ to enter the option menu page under the Multimedia menu.

Multimedia-Music support play WMA/MP3/AAC format files.
Press \[\text{A/V}\] to move cursor to select display picture. The cursor will stay about 2 seconds on the selected file (in the menu Slide Time setting to decide the time length), then enter to scan mode automatic. Press OK can change to full screen play. Press RETURN back to previous menu, press PLAY: pictures display from top to down.

**Note**:
1) Only support USB storage device, can't support mobile phone or camera such multimedia devices. Support removable hard disk, maximum support 400G. Support NTFS and FAT32 format.
2) The maximum depth of the USB folder support: 308
3) The maximum number of files for each folder support: 5000
4) Only support single and dual channel audio formats.

### 2.4.6.2 Photo Configure

Under Photo Configure option press OK to enter Photo Configure page.

**Slide Time**: Slide time: Play speed and time setting for preview picture

**Slide Mode**: This function closed.

**Aspect Ratio**: Images broadcast ratio, Keep for keeping picture Original ratio, Discard for picture stretching full screen play.

### 2.4.6.3 Movie Configure

- Subtitle Specific:
  - Subtitle BG
  - Subtitle Font color

### 2.4.6.4 PVR Configure

- **Record Device**: Checking record device
- **Format**: format of record device

### 2.5 Other menus

#### 2.5.1 Audio Languages
Audio Languages only show current audio types in code stream.
Press EXIT button : close Audio Language menu.
Press △/▽ button : Fluctuation options, switch audio to selected language and audio type.
Press ◄/► button : set sound channel as , cycle options.

2.5.2 EPG Navigation Menu
This page show channel information page.
Press △/▽ to move cursor, switch channel.
Press OK button to select the need to reserve watch programme.
Press ◄/► to search channel information.
Press Yellow/Blue button to execute programme page up and down function.

2.5.3 Schedule Menu

The screen will show broadcast time and programme name of the scheduled programme.
Press EXIT back to previous menu.
Press OK to confirm whether need to watch the programme scheduled.

2.5.4 Info Menu

When not INFO menu, press INFO button show as above INFO menu, press EXIT to exit the menu.
When have INFO menu, press INFO button show as below, display channel detail informations, press EXIT to exit the menu.
2.5.5 Volume menu
Consist of the progress bar and digital, display at the bottom of the screen, progress bar show the percentage of current volume, the numbers show the size of the current volume. The volume adjustment range is 0-32, default 15.

Press VOL+/- to plus/minus volume, and show volume menu. Press MENU button to close Volume menu, and show main menu.
Press EXIT to close Volume menu.

2.5.6 Mute Menu
When MUTE display at the left bottom screen means current user mute.
Press MUTE button: if current user under not mute, display Mute icon then mute.
If current user under mute, remove user mute, then close mute icon.
Press VOL+/- button: remove user mute, close mute icon, and show Volume menu.
Press Sound button: remove user mute, close mute icon, and show current Sound Mode.

2.5.7 Favorite List Menu
When not Favorite List menu, press FAV button to pop-up this menu, press ▲/▼ to move cursor switch channels.
Press OK to confirm the programme, press EXIT/FAV to exit the menu.

2.5.8 Time shifting
Time shifting means you can stop watching the real-time ongoing program, to answer calls or make calls, when you finish you can continue to watch from where you stopped and not miss any wonderful programs.

1. Under full screen ongoing state press [PLAY/PAUSE], the video picture is paused. If there is external USB device, the tv receiver will start record the current program automatic as below.
2. Press [PLAY/PAUSE] again, continue to watch the program from where paused. Press EXIT to exit the record program, means to exit time shifting function. And return to current real-time program as below.

2.5.9 Program Record
1. You can record programs when watch tv, press Yellow button pop-up the recording time setting floating panel, then you can set record time according to the USB storage device disk space, press ENTER button to start record program you're watching, and save the video file as below.

2. From the MENU-USB-Multimedia-PVR, you can find the record program in the USB device disk, and select to play the record program.

3. Fault problems and solutions
Before contacting your local service, please make sure following instructions. If the product does not work normally after completing the following fault problems and solutions, please contact your local product distributor or service center.

<table>
<thead>
<tr>
<th>Fault problems</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture and sound</td>
<td>Check the main power cable and check that it is plugged into a suitable power outlet. Check whether Power Switch is On.</td>
</tr>
<tr>
<td>NO signal</td>
<td>Check the antenna position and installation. Check the area setting whether correct, if not need to reset again</td>
</tr>
<tr>
<td>No sound</td>
<td>Check the volume level of the TV and the remote control. Check the Mute status of the TV and product.</td>
</tr>
<tr>
<td>Poor picture &amp; sound quality</td>
<td>Check if the weak reception of antennas, and install antennas again</td>
</tr>
<tr>
<td>Can't search signal</td>
<td>Check the setting of country and area if correct, or maybe the weak signal</td>
</tr>
<tr>
<td>Poor pictures and sound quality when car moving</td>
<td>Maybe the weak signal in the local position, try in another place.</td>
</tr>
</tbody>
</table>

4. Accessories Included

<table>
<thead>
<tr>
<th>Name</th>
<th>Specification</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote control</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Power line</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>AV line</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>User's manual</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Antennas</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>IR line</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>