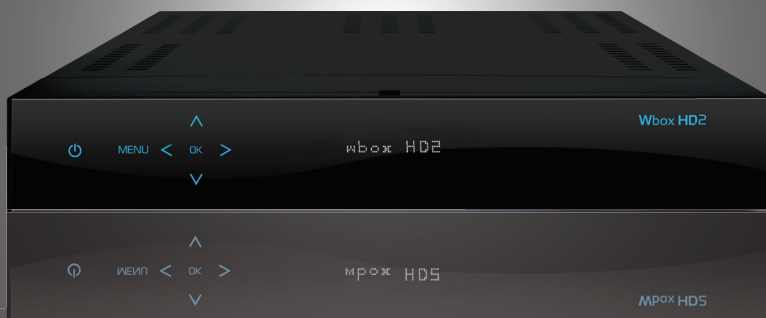


# User's Guide



**Wbox HD2 >>>**

**Manufactured under license from Dolby Laboratories.**

**"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.**

# Safety Instructions

This product has been manufactured to satisfy the international safety standards. Please read all of safety and operating instructions before operating the product and keep this manual for future reference. The information in this user manual is subject to change without notice.

### **MAINS POWER SUPPLY**

AC 90~250V~, 50/60Hz.

Operate your product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

The mains plug is used as the disconnect device. The disconnect device shall remain readily operable.

### **OVERLOADING**

Do not overload a wall outlet, extension cord or adapter as this may result in electric shock or fire.

### **LIQUIDS**

The product should not be exposed to any dripping or splashing liquids. No objects filled with liquids, such as vases, should be placed on the device.

### **CLEANING**

Before cleaning, disconnect the product from the wall outlet. Use a cloth lightly dampened with water (no solvents) to clean the exterior.

### **VENTILATION**

The slots on top of the product must be left uncovered to allow proper airflow to the unit. Do not place the product on soft furnishings or carpets. Do not expose the product to direct sunlight or place it near a heater. Do not stack electronic equipment on top of the product.

### **ATTACHMENTS**

Do not use any attachment that is not recommended by the manufacturer; it may cause a hazard or damage the product.

### **CONNECTION TO THE TV**

Disconnect the product from the mains before connecting or disconnecting the antenna cable. Failure to do so can damage the TV.

### **LOCATION**

Place the product indoors in order not to expose it to lightning, rain or sunlight.

Do not install the product near any heat sources such as radiators, heating devices, stoves, or other apparatus (including amplifiers) that produce heat.

### **DURING A LIGHTNING STORM, or WHEN NOT IN USE**

Unplug the product from the wall outlet and disconnect the cable during a lightning storm or when unused for a long time.

## Safety Instructions

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### SERVICING

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazard. Refer all servicing to qualified service personnel.

**This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.**

**※ Do not pull out the mains plug during operation. It will cause damage to the internal hard drive. Please press “Power” button on your Remote control or unit to turn it off.**

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# Before You Begin

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## **Note**

*Before installing the device, please remove the protective plastic film on the top of the device.*

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## **General Features**

- Supports DVB-C, DVB-T/T2
  - MPEG-2 (MP@ML), MPEG-2 (MP@HL), MPEG4 AVC/H.264, HP@L4
  - 2 SCARTS for TV, VCR
  - VFD Front Panel Display (Clock in standby mode)
  - OSD Teletext supported
  - EPG (Electronic Program Guide) for On-screen Channel Information
  - Parental control function
  - HDMI
  - S/PDIF OUT Optical
  - 1 Smart card Reader
  - 2 USB
  - Timeshift
  - Software Update
- 

## **Note**

*The device has two tuners. You can simultaneously record and watch channels that belong to two different multiplexes at most.*

---

## **Accessories**

- User's Manual
  - Remote Control Unit
  - Batteries (AAA)
  - HDMI Cable (Optional)
- 

## **Active and Passive Standby**

This device has two different standby modes. Power consumption and available recording options depend on which standby mode is used.

### **Active standby**

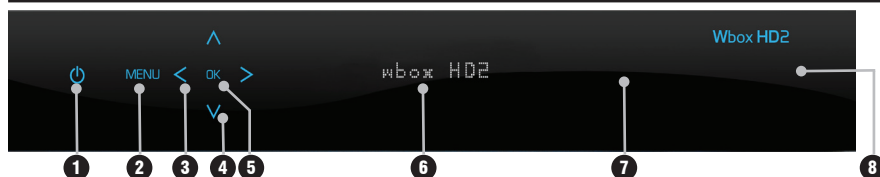
The device is in active standby when it is turned off using the remote control. In active standby, only the display is turned off and the power consumption is normal. All scheduled recordings, including keyword recordings, work normally in active standby.

### **Passive standby**

The device is in passive standby when it is turned off using the power button on the front panel. In passive standby, the device is almost completely off and the power consumption is minimal. Keyword recordings do not work in passive standby. Other scheduled recordings work normally.

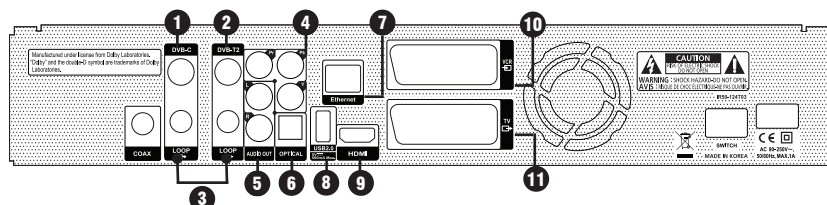
# Controls and Functions

## Front Panel

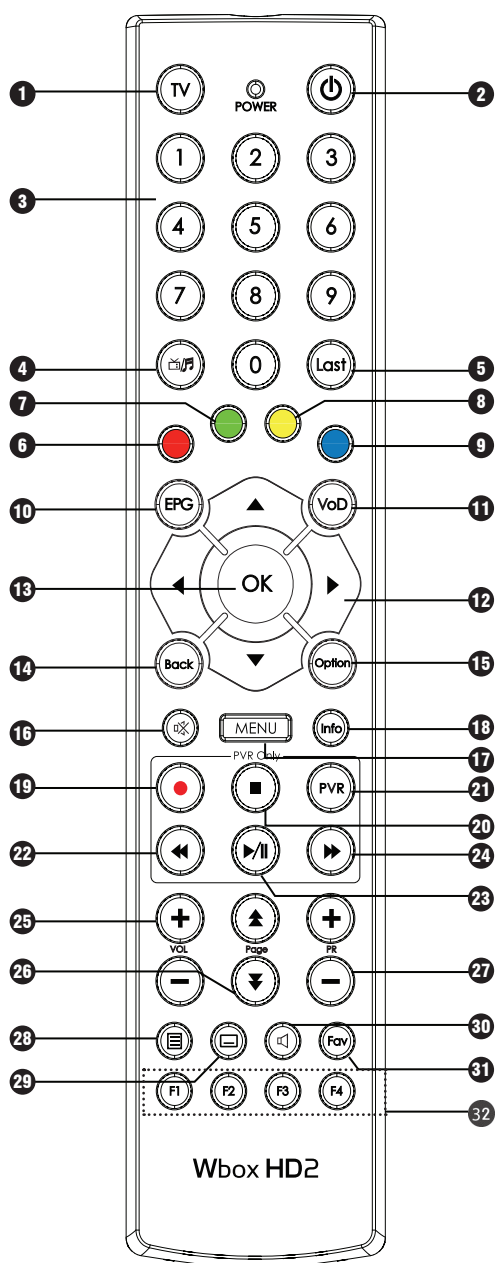


- 1 Power (⏻) button**  
Turns your receiver On/Off.  
Turning the receiver off using this button puts the receiver to **passive standby** (see section **Active and Passive Standby**).
- 2 MENU button**  
Display the menu.
- 3 Arrow (◀/▶) buttons**  
Move the cursor left/right.  
Turn volume up/down.
- 4 Arrow (▲/▼) buttons**  
Move the cursor up/down.  
Switch channel up/down.
- 5 OK button**  
Confirm selection.  
Display the channel list menu when watching TV.
- 6 Front Panel Display (VFD)**  
Displays the current time or the name of the current channel.
- 7 USB Port**  
USB connector for an external hard drive or USB storage.
- 8 Smartcard Slot**  
Slot for a CONAX smart card. Insert the card with the chip downwards and inwards.

## Rear Panel



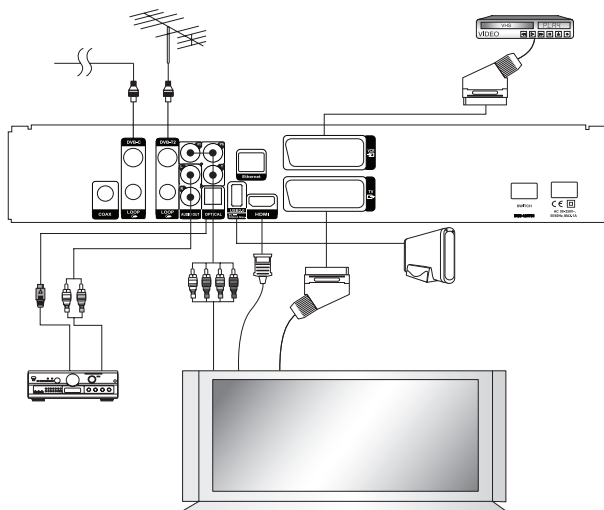
- 1 DVB-C**  
Connect to the cable antenna.
- 2 DVB-T2**  
Connect to the terrestrial antenna.
- 3 LOOP**  
Signal output. Connect to the antenna input of another device, such as a TV.
- 4 YPbPr**  
Connect to video input jack on TV or any external video system.
- 5 AUDIO OUT (LEFT/RIGHT)**  
Connect to audio input jacks on TV or any external audio system.
- 6 S/PDIF OPTICAL**  
Connect to a digital audio component with OPTICAL cable
- 7 Ethernet**  
Connect to the Ethernet with Ethernet cable.
- 8 USB**  
Connect to the External HDD or USB storage with USB cable.
- 9 HDMI**  
Connects to the TV with HDMI cable.
- 10 SCART for VCR**  
Connect to the VCR with SCART cable.
- 11 SCART for TV**  
Connect to the TV with SCART cable.



### Remote Control Unit

- 1 TV button**  
The TV button can be used to switch your TV on or off. For details, please refer to the instructions in section 'Remote Control Unit –Additional Functions'.
- 2 Power (⏻) button**  
Turns your receiver On/Off.  
Turning the receiver off using this button puts the receiver to **active standby** (see section **Active and Passive Standby**).
- 3 Numeric (0~9) buttons**  
Access channels directly via channel number.
- 4 TV/Radio (📺/📻) button**  
Switch between TV and Radio channels.
- 5 Last button**  
Switch back to the previous channel.
- 6 Red button**  
EPG: Move the EPG timeline one day backwards.
- 7 Green button**  
EPG: Move the EPG timeline to current time.
- 8 Yellow button**  
EPG: Move the EPG timeline one day forwards.
- 9 Blue button**  
For future usage
- 10 EPG button**  
Display the TV program guide.
- 11 VoD button**  
For future usage
- 12 Arrow (Up/Down/Left/Right) buttons**  
Move the cursor up, down, left or right.  
Turn volume up/down (Right/Left). Switch channel up/down (Up/Down).
- 13 OK button**  
Select a menu or confirm selection.  
Display the channel list menu when watching TV.
- 14 Back button**  
Close a menu or go to the previous menu.
- 15 Option button**  
Display more options when applicable.
- 16 Mute (🔇) button**  
Mute audio output.
- 17 MENU button**  
Display the main menu.
- 18 Info button**  
Show channel and program information on the screen.
- 19 REC (●) button**  
Start recording a program.  
EPG: Sets the selected program to be recorded.
- 20 STOP (■) button**  
Stop a recording or playback.  
Return to the live program on the timeshift mode.
- 21 PVR button**  
Display the PVR (Personal Video Recorder) menu.
- 22 REW (⏮) button**  
Rewind the recorded program.
- 23 Play/Pause (▶/⏸) button**  
Play/Pause the live program or recording.  
Pausing live TV will activate the timeshift mode.
- 24 FF (⏭) button**  
Fast forward the recorded program.
- 25 VOL +/- button**  
Adjust the volume level.
- 26 Page (⬆/⬇) button**  
Move up or down pages on the menu and TV/Radio List.
- 27 PR +/- button**  
Change channel up or down.
- 28 Teletext (📄) button**  
Start teletext service.
- 29 Subtitle (🗣) button**  
Select subtitle languages.
- 30 Audio (🔊) button**  
Select audio track languages.
- 31 Fav button**  
Displays the favorites list selection menu.
- 32 F1~F4 buttons**

# Connections



Connecting your TV directly to the audio/video output of your set-top box will ensure a more vivid picture and enhance your viewing enjoyment.

## Location of your receiver

- Install your receiver in a horizontal position.
- Do not put any heavy items such as a TV on your receiver.
- Do not install your receiver in the following places: vibrating places, places with direct sunlight, humid places, places with too high or low temperature, and places with no ventilation.

## Connecting your receiver to TV

To connect your receiver with your television, you can use 3 different methods: via YPbPr, SCART, or HDMI cable.

### 1.HDMI

Connect the HDMI cable to the terminal marked “HDMI” on the rear panel of your receiver and its other end to the HDMI input of your TV.

### 2.SCART

Connect the SCART cable to the SCART terminal marked “TV” on the rear panel of your receiver and its other end to the SCART input of your TV.

### 3.YPbPr

Connect the three YPbPr cables to the terminals marked “YPbPr” on the rear panel of your receiver and the other ends of the cables to the respective inputs of your TV. Connect an audio cable to the RCA connectors marked “AUDIO OUT (L, R)” on the rear panel of your receiver and its other end to the respective audio input jacks on your TV.

### **Connecting your receiver to VCR**

Connect a SCART cable to the SCART connector marked “VCR” at the rear panel of your receiver and its other end to the respective input connector on your VCR.

### **Connecting external audio/Hi-Fi system**

Connect an audio cable to the RCA connectors marked “AUDIO OUT (L, R)” at the rear panel of your receiver and its other end to the respective audio input jacks of the external audio/Hi-Fi system.

### **Connecting digital audio system**

Connect an optical cable to the connector marked “S/PDIF OUT” at the rear panel of your receiver and its other end to the respective S/PDIF INPUT OPTICAL connector on the digital audio system.

### **Connecting your analog receiver**

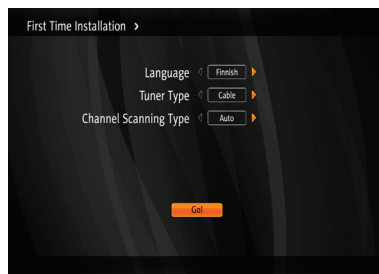
Connect a coaxial cable from output terminal marked “LOOP” to the RF input terminal of your analog receiver. Now by keeping your receiver in standby, you will be able to tune and view analog channels from your analog receiver.

# First Time Installation and Basic Operation

## First Time Installation

When starting up your receiver for the first time, an initial setup of the receiver needs to be performed before it is ready to be used.

- 1 Select your language (Finnish/Swedish/English).
- 2 Select tuner type (Cable/Terrestrial).
- 3 Select channel scanning type (Auto/Manual).
- 4 Select **Go!** and press the **OK** button to enter the selected scanning menu.
- 5 Manual scanning: Adjust variable settings using the **Arrow (▲/▼/◀/▶)** and **Numeric (0~9)** buttons. Select **Start** and press the **OK** button to start channels search. (If you selected Auto channel scanning type, you don't need perform this step)
- 6 The results of the search are shown when the scanning has finished. Select **Save** and press the **OK** button to save all found channels.



※ **To change the tuner type, please do Restore Factory Defaults.**

### Basic Operation

This section explains various functions while watching TV or listening to the Radio.

#### Switching Channel

You can switch the current channel by three different methods

**Method 1)** Press the **Arrow (▲/▼)** or **PR+/-** buttons.

**Method 2)** Press the **Numeric (0~9)** buttons to select a channel directly.

**Method 3)** Press the **OK** button to display the channel list. Select a channel you want to watch using the **Arrow (▲/▼)** buttons and press the **OK** button.

*[Note] Press the **Last** button to return to the previous channel.*

*Press **TV/Radio** button to switch between TV and radio channels.*

#### Volume Control

To control the volume:

Press the **VOL +/-** or **Arrow (◀/▶)** buttons.

Press the **Mute (🔇)** button to turn the sound off.

Press the **Mute (🔇)** button again or the **VOL +/-** buttons to cancel muting.

#### Event Information

Press the **Info** button to display a banner with the following information.

- ❶ name of the selected channel list
- ❷ channel number / name
- ❸ additional information about the program
- ❹ current program title
- ❺ next program title
- ❻ current time / date
- ❼ icons (widescreen, multichannel audio, lock, subtitles, high definition, audio tracks, teletext, age rating)



If you press the **Info** button again, detailed program information will be displayed on the right side. The banner and detailed information will disappear when you press the **Info** button for the third time.



### Viewing the Teletext

To view the teletext service:

- 1 Press the **Teletext** (≡) button to display the teletext service, if present.
- 2 Use **Arrow** (▲/▼) or **Numeric** (0~9) buttons to change pages. Use **Arrow** (◀/▶) buttons to navigate between sub pages, if present.
- 3 To exit the teletext service, press the **Teletext** (≡) button again. The first press will switch the Teletext transparent mode. The second press will close the Teletext service.



### Selecting the Audio Track

To select the audio track language:

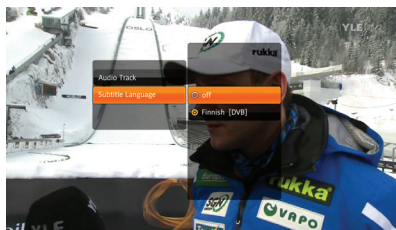
- 1 Press the **Audio** (🔊) button and then **OK** button to display Audio Track pop-up menu.
- 2 Select audio track using the **Arrow** (▲/▼) buttons and press the **OK** button to confirm your selection.



### Selecting the Subtitle

To select the subtitle language:

- 1 Press the **Subtitle** (🗉) button and then **OK** button to display subtitle language pop-up menu.
- 2 Select subtitle language using the **Arrow** (▲/▼) buttons and press the **OK** button to confirm your selection.



### Electronic Program Guide (EPG)

Electronic Program Guide displays program information such as channel number / name, program titles, broadcasting schedule, and program synopsis.

※ EPG service differ depending on the service provider.

- 1 Press **EPG** button to enter the Electronic Program Guide.
- 2 Select a program to view more information about it.

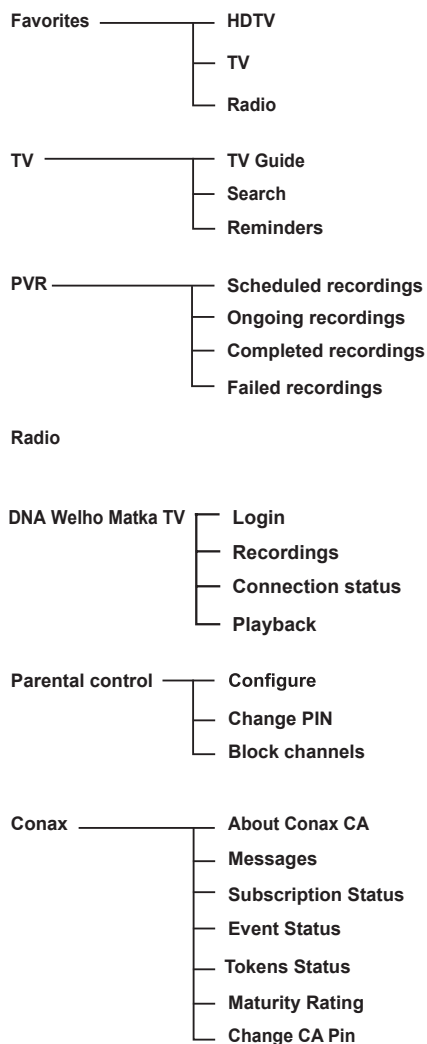
- **Arrow (▲/▼) buttons:** Move program focus up/down to another channel on the program grid. In the one channel mode, move program focus up/down on the program list.
- **Arrow (◀/▶) buttons:** Move program focus left/right on the timeline within the same channel. In the one channel mode, changes the channel that is being viewed.
- **Page (▲/▼) buttons:** Move up/down the channels (or programs in one channel mode) one page at a time.
- **Yellow** button: Move the timeline one day forward.
- **Green** button: Move the timeline to current time.
- **Red** button: Move the timeline one day backward.

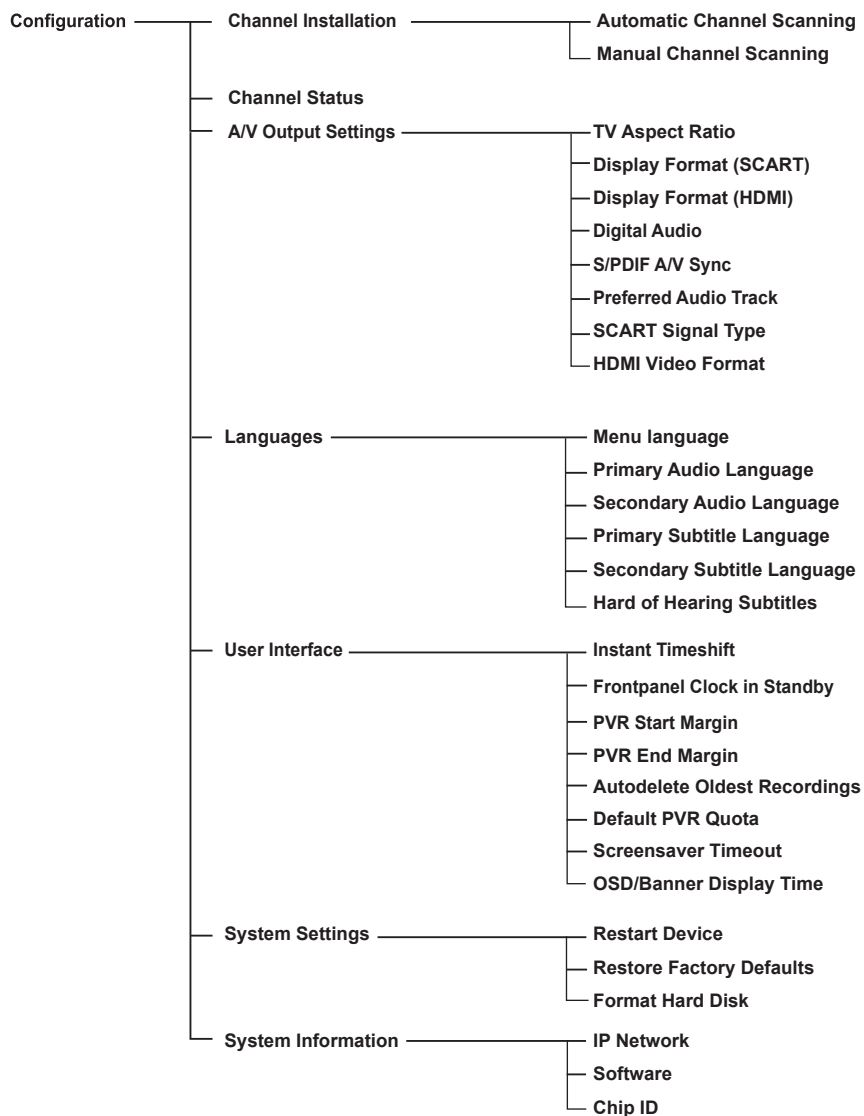


*[Note] The timeline displays programs at an hour intervals. A light blue vertical line marks the current time.*

- 3 To change the EPG mode (all channels, one channel ), press the **EPG** button again.
- 4 To use additional functions, press the **Option** or **OK** button.
  - (1) **Switch to channel / Play:** Change to the selected channel.
  - (2) **Remind me:** Set up a notification to remind you when the program is beginning.
  - (3) **Record:** Set the selected program to be recorded.
  - (4) **Record always:** Opens a menu for creating a keyword recording for the selected program. Recording can be set for all channels or a specific channel. Select **Save** to save the keyword recording.
  - (5) **Record repeatedly:** Creates a new manual repeating recording for the selected program. You can adjust the settings of the recording from the menu that is displayed.
  - (6) **Show similar:** Find similar programs in the EPG.
  - (7) **More info:** Display more information about the selected program on the right side of the screen.
- 5 To exit from the EPG, press the **Back** button.

# Menu Map





# Main Menu

This menu consists of 7 different menus:

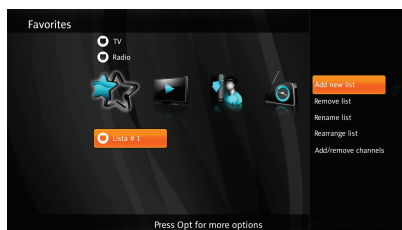
- Favorites
- PVR
- Parental control
- Configuration
- TV
- Radio
- Conax

- 1 Press the **Menu** button to enter the Menu mode. Menu will open at the last remembered state.
- 2 Use the **Arrow** (▲/▼/◀/▶) buttons to move up, down, left, and right on the menus.
- 3 Navigate to the submenu you are looking for and press the **OK** button to confirm your choice.
- 4 Use the **Arrow** (◀) button to return to the previous menu.
- 5 To exit the current menu, press the **Back** button.

## Favorites

Select **Favorites** using the **Arrow** (◀/▶) buttons and press the Option button to open more options.

- (1) **Add new list** : Create new favorite list.
- (2) **Remove list** : Remove an existing list.  
You cannot remove default lists (HDTV, TV, Radio).
- (3) **Rename list** : Rename an existing list.  
(max. 10 letters)
- (4) **Rearrange list** : Rearrange channels in a list  
When done with rearranging, press the **Arrow** (▶) button, and then select **Save** and press the **OK** button to save your changes.
- (5) **Add/remove channels** : Add/remove channels on the selected list. When done with adding/removing channels, press **Arrow** (▶) button, and then select **Save** and press the **OK** button to save your changes.



# TV

## TV Guide

- 1 Select **TV Guide** using the **Arrow (▲/▼)** buttons on the **TV** menu and press **OK** button.
- 2 TV guide will be displayed.

## Search

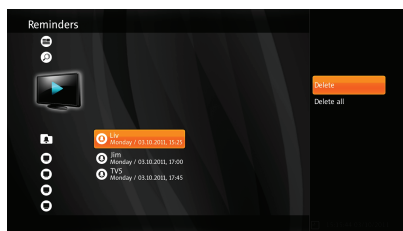
- 1 Select **Search** using the **Arrow (▲/▼)** buttons on the **TV** menu and press **OK** button to open the Keypad.
- 2 Input a keyword using the **Arrow (▲/▼/◀/▶)** and **OK** buttons. Then select **enter** and press the **OK** button to start the search.
- 3 A list of matching programs will be displayed on the screen.



## Reminders

This menu lists all reminders.

- 1 Select **Reminders** using the **Arrow (▲/▼)** buttons on the **TV** menu and press the **OK** button.
- 2 Reminders list is displayed.
- 3 Press the **Option** button on the reminders list to open more options.
  - (1) **Delete**: Delete the selected reminder.
  - (2) **Delete all**: Delete all reminders.



## TV List

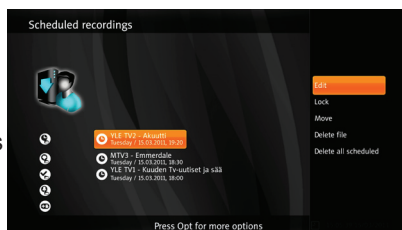
This part of the menu lists all TV channels with current program information.

# PVR

## Scheduled recordings

This menu lists recordings that have been scheduled and are waiting for the determined time or program to come up.

- 1 Select **Scheduled recordings** using the **Arrow** (**▲/▼**) buttons on the **PVR** menu and press the **OK** button.
- 2 The list of active recordings is displayed.
- 3 Press the **Option** button on the scheduled recordings list to open more options.

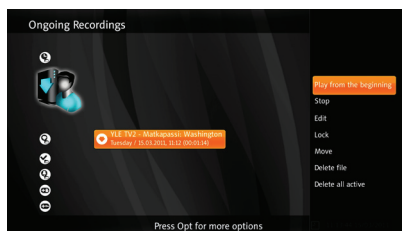


- (1) **Edit**: Displays an additional menu for changing details of the scheduling (Channel, Date, Start time, End time, Repeat). When done editing, select **Save** and press the **OK** button to save the changes.
- (2) **Lock/Unlock**: Locks or unlocks the selected recording. Locked recordings cannot be deleted.
- (3) **Move**: Move the selected recording to another folder.
- (4) **Delete file**: Remove the scheduled recording.
- (5) **Delete all scheduled**: Removes all scheduled recordings.

## Ongoing recordings

This menu lists recordings that are currently active and being recorded.

- 1 Select **Ongoing recordings** using the **Arrow** (**▲/▼**) buttons on the **PVR** menu and press the **OK** button.
- 2 The list of ongoing recordings is displayed.
- 3 Press the **Option** button on the ongoing recordings list to open more options.



- (1) **Continue**: Resume watching an active recording.
- (2) **Play from the beginning**: Play an active recording from the beginning.
- (3) **Stop**: Stop an active recording. This file can then be found in recordings.
- (4) **Edit**: Displays an additional menu for changing details of the scheduling (Channel, Date, Start time, End time, Repeat). When done editing, select **Save** and press the **OK** button to save the changes.
- (5) **Lock/Unlock**: Locks or unlocks the selected recording. Locked recordings cannot be deleted.
- (6) **Move**: Move the selected recording to another folder.
- (7) **Delete**: Stop the selected recording and delete it.
- (8) **Delete all active**: Stop and delete all ongoing recordings.

### PVR

#### Completed recordings

This menu lists recordings that have completed.

- 1 Select **Completed recordings** using the **Arrow** (**▲/▼**) buttons on the **PVR** menu and press the **OK** button.
- 2 Completed recordings are displayed.
- 3 Press the **Option** button on the completed recordings list to open more options.

(1) **Continue**: Resume watching a completed recording.

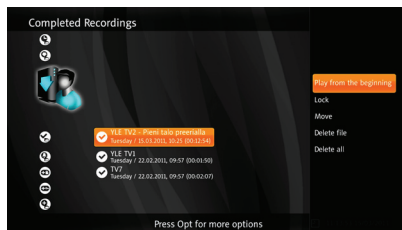
(2) **Play from the beginning**: Play a completed recording from the beginning.

(3) **Lock/Unlock**: Locks or unlocks the selected recording. Locked recordings cannot be deleted.

(4) **Move**: Move the selected recording to another folder.

(5) **Delete file**: Delete the selected recording.

(6) **Delete all**: Delete all completed recordings.



#### Failed recordings

This menu lists recordings that have failed. A recording can fail, for example, when mains power is lost during a recording.



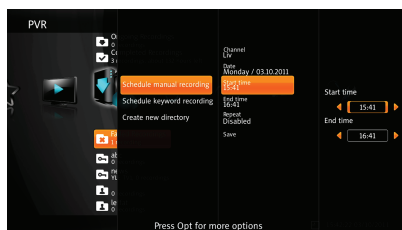
### PVR

#### Schedule manual recording

- 1 Press the **Option** button on the **PVR** menu. Select **Schedule manual recording** using the **Arrow (▲/▼)** buttons and press the **OK** button.
- 2 A menu for adjusting recording settings is displayed on the right side of the screen.
- 3 Use the **Arrow (▲/▼)** button to select a setting and press the **OK** button to change it. Available settings are listed below:

- (1) **Channel:** Selecting this setting will open a channel selection list. Select a channel you wish to record using the **Arrow (▲/▼)** buttons and press the **OK** button.
- (2) **Date:** Selecting this setting will open a calendar menu. Use the **Arrow (▲/▼)** buttons to navigate to the desired date and press the **OK** button to select it.
- (3) **Start time:** Selecting this setting will open a menu for adjusting the start time. Use the **Arrow (◀/▶)** buttons to change the time in 5 minute steps. **Numeric (0-9)** buttons can also be used to input the time. When done, press the **OK** button to set the time.
- (4) **End time:** Selecting this setting will open a menu for adjusting the end time. Use the **Arrow (◀/▶)** buttons to change the time in 5 minute steps. **Numeric (0-9)** buttons can also be used to input the time. When done, press the **OK** button to set the time.
- (5) **Repeat:** Selecting this setting will open a menu for changing the repeat setting. Use the **Arrow (▲/▼)** buttons to select an option and press the **OK** button to set it. Available options are: Disabled, Daily, Weekly, Weekends, or Weekdays.

- 4 When all the settings are ready, select **Save** and press the **OK** button to save the manual recording.

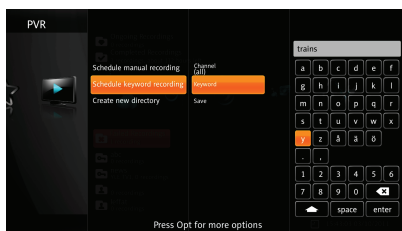


#### Schedule keyword recording

- 1 Press the **Option** button on the **PVR** menu. Select **Schedule keyword recording** using the **Arrow (▲/▼)** buttons and press the **OK** button.
- 2 A menu for adjusting recording settings is displayed on the right side of the screen.
- 3 Use the **Arrow (▲/▼)** buttons to select a setting and press the **OK** button to change it. Available settings are listed below:

- (1) **Channel:** By default the keyword recording applies to any channel. When this setting is changed, the keyword recording only applies to the selected channel. Use the **Arrow (▲/▼)** buttons to select a channel and press the **OK** button to set it.
- (2) **Keyword:** Selecting this setting will open a virtual keyboard for typing a keyword. Input a keyword using the **Arrow (▲/▼/◀/▶)** and **OK** buttons. Then select **enter** and press the **OK** button to set it.

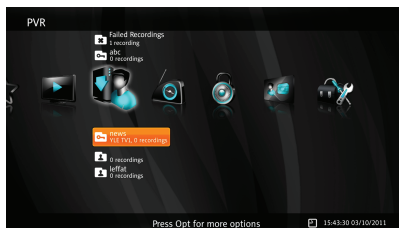
- 4 When all the settings are ready, select **Save** and press the **OK** button to save the keyword recording. This will create a new folder named after the keyword on the PVR menu. All recordings for this keyword recording can be found there.



# PVR

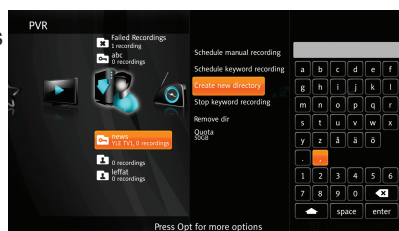
## Edit a keyword recording

- 1 Select the keyword recording you wish to edit using the **Arrow (▲/▼)** buttons on the **PVR** menu and press the **Option** button.
- 2 A menu for editing the keyword recording is displayed on the right side of the screen.
- 3 Use the **Arrow (▲/▼)** to select a function and press the **OK** button. Available functions are listed below:
  - (1) **Stop keyword recording**: This function will stop the selected keyword recording, but will not delete the directory or any recordings.
  - (2) **Remove dir**: This function will delete the selected directory and any recordings in it.
  - (3) **Quota**: This setting can be used to set a quota for the keyword recording. Selecting this setting will open a menu for adjusting the quota. Use **Arrow (◀/▶)** or **Numeric (0-9)** buttons to set the quota and press the **OK** button to set it



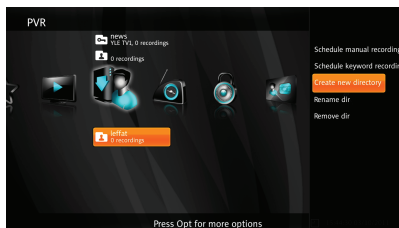
## Create new directory

- 1 Press the **Option** button on the **PVR** menu. Select **Create new directory** using the **Arrow(▲/▼)** buttons and press the **OK** button.
- 2 A virtual keyboard for inputting the name of the directory is displayed on the right side of the screen.
- 3 Input a name for the directory using the **Arrow (▲/▼ ◀/▶)** and **OK** buttons. Then select **enter** and press the **OK** button to set it.
- 4 The new directory will appear on the **PVR** menu.



## Edit a directory

- 1 Select the directory you wish to edit using the **Arrow (▲/▼)** buttons on the **PVR** menu and press the **Option** button.
- 2 A menu for editing the directory is displayed on the right side of the screen.
- 3 Use the **Arrow (▲/▼)** to select a function and press the **OK** button. Available functions are listed below:
  - (1) **Rename dir**: This function will open a virtual keyboard for inputting a new name for the directory. Input a name for the directory using the **Arrow (▲/▼/◀/▶)** and **OK** buttons. Then select **enter** and press the **OK** button to set it.
  - (2) **Remove dir**: This function will delete the selected directory and any recordings in it.



## **Radio**

### **Radio List**

The all of the Radio channel display with current program information.



## Chapter 5 >> Main Menu

# DNA Welho MatkaTV

With the DNA Welho MatkaTV service you can record your favourite television programs using an application downloaded onto a smart phone or tablet PC. Recordings can be viewed on several devices - both at home or when on the road. To access the service, you must have a valid subscription to the DNA Welho MatkaTV service and log in the service through a mobile application. When you log in the service through a STB, you can browse and view the recordings saved in the service on your television screen.

For further information on the DNA MatkaTV service, the supported devices and your nearest sales point, visit our web site at [www.dna.fi/matkatv](http://www.dna.fi/matkatv).

## Login

Log in the DNA Welho MatkaTV service with your credentials.

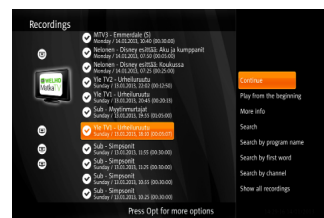
You can find capital letters, numbers and special characters by pressing the arrow button on the virtual keyboard. It switches the virtual keyboard between three different modes: small letters, capital letters, and numbers and special characters.



## Recordings

The recordings saved in the DNA Welho MatkaTV service can be viewed when the user is logged on.

- 1 Select **Recordings** using the **Arrow (▲/▼)** buttons on the **MatkaTV** menu and press the **OK** button to display the list of recordings.
- 2 Press the **Option** button on a recording to open more options.



- (1) **Continue:** Resume watching the recording.
- (2) **Play from the beginning:** Start playback of the recording from beginning.
- (3) **More info:** Display more information about the selected recording.
- (4) **Search:** Search recordings by typing keywords.
- (5) **Search by program name:** Displays recordings with the same name as the selected recording.
- (6) **Search by first word:** Displays recordings with the same first word as the selected recording.
- (7) **Search by channel:** Displays recordings from the same channel as the selected recording.
- (8) **Show all recordings:** Restores the list of all recordings.



## Chapter 5 >> Main Menu

### Connection status

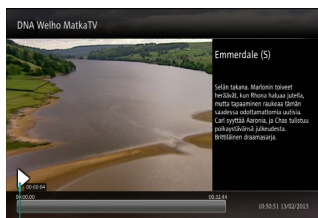
The connection status of the DNA Welho MatkaTV service. The connection status can be “Ok”, “Login failed” or “Check Internet connection”.

If the connection status is “Login failed”, check the credentials you entered in the “Login” step. If the connection status is “Check Internet connection”, check the device’s network cable.

### Playback

The following buttons are usable in playback mode.

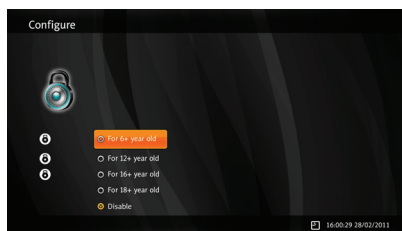
- (1) **Stop** (■): Stops playback.
- (2) **REW** (◀◀): Rewind the recorded program. Start playback again by pressing **Play/Pause** (▶/||).
- (3) **Play/Pause** (▶/||): Puts the recorded program on pause or resumes playback.
- (4) **FF** (▶▶): Fast forward the recorded program. Start playback again by pressing **Play/Pause** (▶/||).
- (5) **Info**: Displays more information about the recording.



# Parental control

## Configure

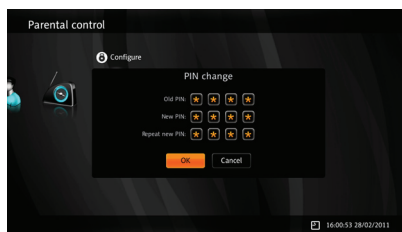
- 1 Select **Configure** using the **Arrow (▲/▼)** buttons on the **Parental control** menu and press **OK** button.
- 2 Authentication required pop-up will be displayed.
- 3 Input a PIN using the **Numeric (0~9)** buttons and press the **OK** button.
- 4 Select age lock level (For 6+, 12+, 16+, 18+ year old) using the **Arrow (▲/▼)** buttons and press the **OK** button.



※The age lock level will be based on EPG rating information.

## Change PIN

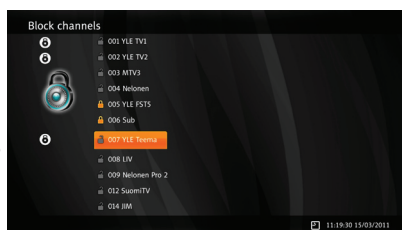
- 1 Select **Change PIN** using the **Arrow (▲/▼)** buttons on the **Parental control** menu and press the **OK** button.
- 2 A pop-up for changing PIN will be displayed.
- 3 Input the old PIN using the **Numeric (0~9)** buttons.
- 4 Input the new PIN using the **Numeric (0~9)** buttons.
- 5 Input the new PIN again using the **Numeric (0~9)** buttons to confirm.
- 6 Press **OK** button to change the PIN.



※ **Default PIN code is "1111"**

## Block channels

- 1 Select **Block channels** using the **Arrow (▲/▼)** buttons on the **Parental control** menu and press the **OK** button.
- 2 Authentication required pop-up will be displayed.
- 3 Input PIN using the **Numeric (0~9)** buttons and press the **OK** button. When the PIN is typed in correctly, the menu for blocking channels is displayed.
- 4 Select the channels that you want to block using the **Arrow (▲/▼)** and **Page (▲/▼)** buttons and press the **OK** button to lock or unlock a channel.



### Conax

When a Conax smart card is inserted, its menu will be displayed in this part of the menu.  
Please insert smart card correctly with the chip downwards and inwards.

## Configuration

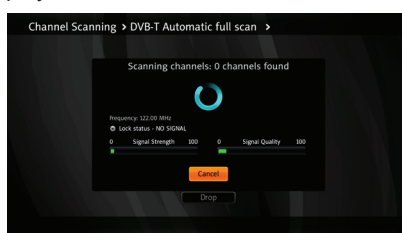
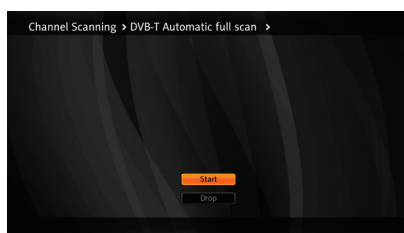
### Channel Installation

1 Select **Channel Installation** using the **Arrow (▲/▼)** buttons on the **Configuration** menu and press the **OK** button.

#### Automatic Channel Scanning:

2-1 Select **Automatic Channel Scanning** and press the **OK** button.

2-2 DVB-C or DVB-T Automatic scan menu will be displayed.



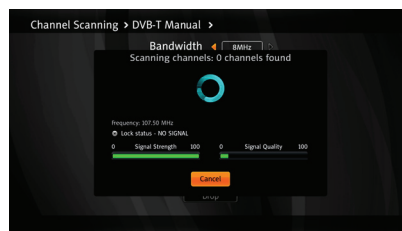
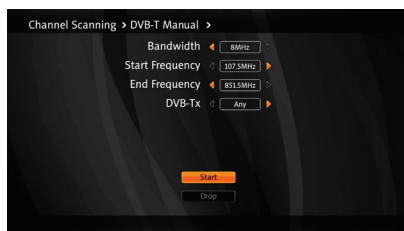
2-3 Select **Start** and press the **OK** button to start the channel scan.

2-4 The results of the channel search are shown. Select **Save** and press **OK** button to save all found channels.

#### Manual Channel Scanning:

3-1 Select **Manual Channel Scanning** and press the **OK** button.

3-2 DVB-C or DVB-T Manual scan menu will be displayed.



3-3 Adjust variable settings using the **Arrow (▲/▼/◀/▶)** and **Numeric (0~9)** buttons.

- DVB-C: Bandwidth, Start Frequency, End Frequency, Symbol Rate, and Modulation
- DVB-T: Bandwidth, Start Frequency, End Frequency, DVB-T/T2

3-4 Select **Start** and press the **OK** button to start the channel scan.

3-5 The results of the channel search are shown. Select **Save** and press **OK** button to save all found channels.

*[Note] If you want to delete all channels, select **Drop** and press **OK** button.  
To change the tuner type, please do **Restore Factory Defaults**.*

# Configuration

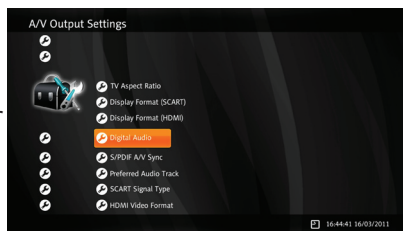
## Channel Status

This part of the menu can be used to view the channel parameters and signal status of the currently tuned TV channel.

## A/V Output Settings

- 1 Select **A/V Output Settings** using the **Arrow (▲/▼)** buttons on the **Configuration** menu and press the **OK** button.
- 2 Select a setting to be modified using the **Arrow (▲/▼)** buttons and press the **OK** button.
- 3 Select a value for each setting using the **Arrow (▲/▼)** buttons and press the **OK** button.  
Available values are listed below:

- (1) **TV Aspect Ratio:** 16:9, 4:3, or Auto
- (2) **Display Format (SCART):** Fullscreen, Letterbox, or Stretched
- (3) **Display Format (HDMI):** Fullscreen, Letterbox, or Stretched
- (4) **Digital Audio:** Multichannel or Stereo
- (5) **S/PDIF A/V Sync:** 0~250ms
- (6) **Preferred Audio Track:** Normal, Hard of Hearing, or Visually Impaired
- (7) **SCART Signal Type:** CVBS or RGB
- (8) **HDMI Video Format:** Automatic, 576p, 720p, 1080i, or Original format

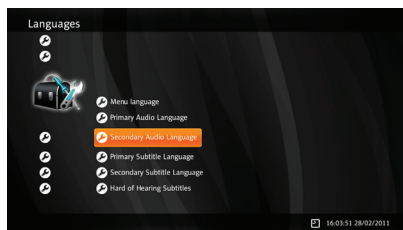


## Languages

- 1 Select **Languages** using the **Arrow (▲/▼)** buttons on the **Configuration** menu and press the **OK** button.
- 2 Select a language setting using the **Arrow (▲/▼)** buttons and press the **OK** button. Available settings are listed below:

- (1) **Menu language**
- (2) **Primary Audio Language**
- (3) **Secondary Audio language**
- (4) **Primary Subtitle Language**
- (5) **Secondary Subtitle language**
- (6) **Hard of Hearing Subtitles**

- 3 Select a value for each language setting using the **Arrow (▲/▼)** buttons and press the **OK** button.

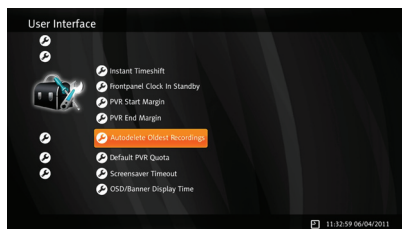




# Configuration

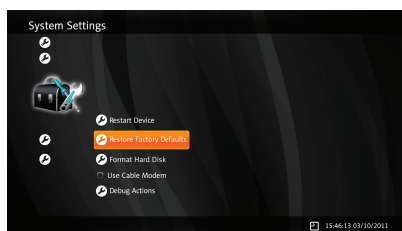
## User Interface

- 1 Select **User Interface** using the **Arrow (▲/▼)** buttons on the **Configuration** menu and press the **OK** button.
- 2 Select a setting using the **Arrow (▲/▼)** buttons and press the **OK** button. Available settings are listed below:
  - (1) **Instant Timeshift**: If you enable the instant timeshift, the timeshift function will operate automatically.
  - (2) **Front Panel Clock In Standby**: If you enable the front panel clock in standby, the clock will be displayed on the front panel when the receiver is in standby mode.
  - (3) **PVR Start Margin**: This setting adjusts all scheduled recordings to start earlier. (Disabled, 1, 2, 5, or 10 minutes)
  - (4) **PVR End Margin**: The time that is automatically added to each recording after the program is expected to end. (Disabled, 5, 10, 15, 20, or 30 minutes)
  - (5) **Autodelete Oldest Recordings**: If you enable this setting, the oldest recording in each keyword recording will be automatically removed when its quota is exceeded. This setting does not apply if the quota is set to unlimited.
  - (6) **Default PVR Quota**: This setting defines a default disk space quota for new keyword recordings. (10GB, 20GB, 50GB, 100GB, 200GB, 500GB, or Unlimited)
  - (7) **Screensaver Timeout**: If you don't take any action, the screensaver screen will be displayed after this timeout setting. (Disabled, 5, 10, or 15 minutes)
  - (8) **OSD/Banner Display Time**: When the OSD/Banner is shown it will be hidden after this display time setting. (2, 5, 10, and 15 seconds)



## System Settings

- 1 Select **System Setting** using the **Arrow (▲/▼)** buttons on the **Configuration** menu and press the **OK** button.
- 2 Select an action using the **Arrow (▲/▼)** buttons and press the **OK** button. Available actions are listed below:
  - (1) **Restart Device**: If you select Restart device and press OK button, the STB will reboot itself.
  - (2) **Restore Factory Settings**: Reset back to the factory default settings. PIN input is needed to execute this action.
  - (3) **Format Hard Disk**: Formats the hard disk of the device. This action removes all recordings.
  - (4) **Use Cable Modem**: Enable or disable the cable modem.



# Configuration

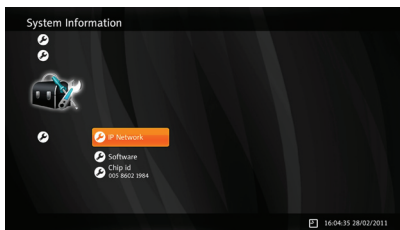
## System information

- 1 Select **System information** using the **Arrow (▲/▼)** buttons on the **Configuration** menu and press the **OK** button.

## Chapter 5 >> Main Menu

2 Select a setting using the **Arrow** (▲/▼) buttons and press the **OK** button. Available settings are listed below:

- (1) **IP Network**: Cable modem, DNS1, DNS2, Ethernet status can be checked with this option.
- (2) **Software**: Platform, Firmware version, and Software Update Check can be checked with this option.
- (3) **Chip id**: Chip id of the device.



## PVR Function

※ **Do not pull out the mains plug during recording/timeshift. It will cause damage to the internal hard drive. Please press "Power" button on your remote control or STB to turn it off.**

### Instant Record

- 1 Press the **Record** (●) button to record the current program instantly.
- 2 Press the the **Stop** (■) button to display a list of ongoing recordings.
- 3 Select the recording channel and press the **OK** button. Available function are listed below:
  - (1) **Stop**: Stops the ongoing recording.
  - (2) **Play**: Starts playing the ongoing recording.
  - (3) **Cancel**: Closes the menu.



### EPG Record

Please refer to Electronic Program Guide (EPG).

### Playback

The following buttons are usable in playback mode.

- (1) **Stop** (■): Press the **Stop** (■) button to stop playback.
- (2) **PVR**: Press the **PVR** button to return to the completed recording list.
- (3) **REW** (◀◀): Press the **REW** (◀◀) button to rewind playback.
- (4) **Play/Pause** (▶/||): Press the **Play/Pause** (▶/||) button to start/stop playback.
- (5) **FF** (▶▶): Press the **FF** (▶▶) button to fast forward playback.



# Remote Control Unit – Additional Functions

## 1. Learning Method

**TV** button has a learning functionality that can be used to teach it commands from the remote control of your TV. Typically the learning function is used to learn the power command of the TV, but it can also optionally hold one other command. If the TV button is taught two commands, then pressing the button will alternate between them. First press will send first command; second press will send the second command.

*[Note] In LEARN MODE, if there is no further action within 30 seconds at any point, the remote control turns to normal operation mode switching the LED off.*

*[Note] TV Power button doesn't have default functionality unless the learning method is used.*

### The Learning Method

(1) Press **TV** and **OK** buttons at the same time for 1.5 seconds. This will turn on the LEARN MODE.

- The Power LED ON will turn "ON".

(2) Press **TV** button.

- The Power LED blinks once and will then be "ON".

(3) Press 1st SOURCE button (Power button of the original TV remote).

- If it **learns correctly**, The Power LED **blinks twice** and will stay "ON". To teach a second command, go to step (4). To return back to normal operation, go to step (6).
- If it does **not learn correctly**, The Power LED **blinks 5 times** and will stay "ON". To retry, go back to step (2). To return back to normal operation, go to step (6).
- If there is no input signal for 30 seconds, the Power will LED blink 5 times and the remote will stay in learning mode. If no there is no further input signal for another 30 seconds, the remote will return to normal operation mode and the Power LED will be "OFF".

(4) Press **TV** Power button one more time.

- The Power LED blinks once and will stay "ON".
- The second code can only be learned if the first code was learned successfully.

(5) Press second SOURCE button (For example, any numeric button from the original remote control)

- If it **learns correctly**, The Power LED **blinks twice** and will stay "ON". To return back to normal operation, go to step (6).
- If it does **not learn correctly**, The Power LED **blinks 5 times** and will stay "ON". To retry, go back to step (4). To return back to normal operation, go to step (6).
- If there is no input signal for 30 seconds, the remote will stay in learning mode after blinking 5 times. If no there is no further input signal for another 30 seconds, the remote will return to normal operation mode and the Power LED will be "OFF".

(6) To return back to normal operation mode, Press **TV** and **OK** buttons at the same time.

- The Power LED blinks 3 times and will be "OFF".

## 2. Low Battery Warning Function

This function can be used to check if the remote control batteries have a low voltage and need to be replaced soon.

(1) When you press **Power** button, the power LED will blink 3 times if the voltage level is low (2.2V ~ 2.3V).

(2) Learning mode cannot be used when the battery voltage level is low.

# Troubleshooting

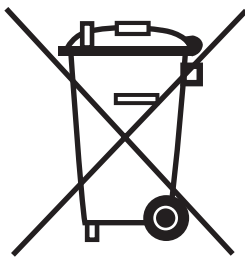
Problem	Solution
No display on the front panel VFD. No power supply.	Plug the power cord correctly.
No picture.	Check that video and antenna cables are connected correctly. Check that your TV is set to the correct video input source.
Poor picture quality.	Check the signal level.
No sound.	Check the volume level of the TV and STB. Check the mute status of the TV and STB. Check that the audio cables are connected correctly.
Remote Control does not operate.	Point remote control directly towards your receiver. Check and replace batteries. Check if anything blocks the front panel.
Service is not running or scrambled.	Make sure the smart card is appropriate for the selected service. If necessary, contact your TV service provider.
No card inserted.	Insert smart card, and make sure it is inserted correctly with the chip downwards and inwards.
Incorrect card	Insert the correct smart card. Remove the smart card and reinsert it.
Cannot record programs.	The hard disk is full. Delete unnecessary programs and make space for recordings.

# Specifications

TUNER & CHANNE		
DVB-C (Dual)	Input Frequency	47~870MHz
	Input Connector	IEC 169-2 Female (RF IN), IEC 169-2 Male (RF OUT)
	IF Frequency	36.125 MHz
	FEC Mode Rate	1/2, 2/3, 3/4, 5/6, 7/8
	Demodulation	QAM
	Constellation	16, 32, 64, 128, and 256 QAM
	QAM System Clock	28.92 MHz
DVB-T2 (Dual)	Input Frequency	VHF:104~300MHz, UHF:300~862MHz
	Input Connector	IEC 169-2 Female (RF IN), IEC 169-2 Male (RF OUT)
	Input Impedance	75Ω
	Input Signal Level	-85dbm~-35dbm
	Channel Bandwidth	1.7MHz, 6MHz, 7MHz, 8MHz
	Modulation Type	QPSK, 16QAM, 64QAM, 256QAM
	FFT Mode	1K, 2K, 4K, 8K, 16K, 32K
	Code Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
	Guard Interval	1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128
Switching Mode Power Supply		
Input Voltage		AC 90-250V~, 50/60Hz, Max. 1A
MPEG TS A/V Decoding		
Transport Stream		MPEG-2 ISO/IEC 13818-1
Profile Level		MPEG-2 MP@ML MPEG-2 MP@HL, MPEG-4 AVC/H.264 HP@L4
Aspect Ratio		4:3, 16:9
Video Resolution		1080i, 720p, 576p
Audio Decoding		MPEG-1, Musicam Layers 1 & 2, AC-3
Audio Mode		Mono, Stereo
Sampling Rate		32, 44.1& 48KHz
System Resources		
Main Processor		ST40 CPU core: 450MHz
Flash Memory		64MByte
DDR2		DDR2 1Gbits x 2 (256MByte)
EEPROM		8Kbyte

## Specifications

<b>A/V &amp; Interfaces</b>	
Digital output (HD)	HDMI
Component (HD)	YPbPr
TV-Scart & RCA (SD)	Video : CVBS / RGB output Audio : L/R output
VCR-Scart(SD)	Video : CVBS output / CVBS input bypass Audio : L/R output / L,R input bypass
Digital Audio output	Digital Audio Bitstream output (S/PDIF OPTICAL)
USB Port	USB 2.0 x 2
Network	Fast Ethernet (10/100)
<b>Conditional Access System</b>	
Smart Card	1 Smart Card Reader
<b>Hard Disk</b>	
HDD	1TByte
<b>Front Panel</b>	
Display	VFD
Keys	7 Touch keys
<b>Accessories</b>	
RCU	IR (Freq:38KHz), Battery : 2x1.5V AAA
HDMI Cable	1.5M
Manual	Yes
<b>Physical Specification</b>	
Size(WxHxD)	375 x 60 x 230 mm
Net Weight	3 Kg
Operation Temperature	0~50 °C
Storage Temperature	-10~+60 °C



### **Correct Disposal of This Product (Waste Electrical & Electronic Equipment)**

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.