

# User Guide



Wbox HD2s >>>



## Safety Instructions

# 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.  
Please press "Power" button on your Remote control or unit to turn it off.**



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# Before You Begin

## General Features

- Supports DVB-C, DVB-T/T2
- MPEG-2 (MP@ML), MPEG-2 (MP@HL), MPEG4 AVC/H.264, HP@L4
- OSD Teletext supported
- EPG (Electronic Program Guide) for On-screen Channel Information
- Parental control function
- HDMI
- S/PDIF OUT OPTICAL
- 1 Smart card Reader
- Ethernet
- USB

## Accessories

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



# Controls and Functions

## Front / Rear Panel



**1 Power LED**

Display the power ON/OFF.

**2 IR-receiver**

IR Remote Control Receiver.

**3 Smart Card Slot**

Smart card shall be paired by informing the CHIP-ID to your operator. You can find the CHIP-ID from CONAX and System information menu. Insert the card with the chip inwards and downwards.



**1 DVB-C, DVB-T/T2**

Connect to the cable antenna.

**2 LOOP**

Signal output. Connect to the antenna input of another device, such as a TV.

**3 Ethernet**

Connect to the Ethernet with Ethernet cable.

**4 USB**

Connection for External HDD or USB memorystick.

**5 HDMI**

Connects to the TV with HDMI cable.

**6 AV**

Connect to video/audio input jack on TV or any external video/audio system.

**7 S/PDIF OPTICAL**

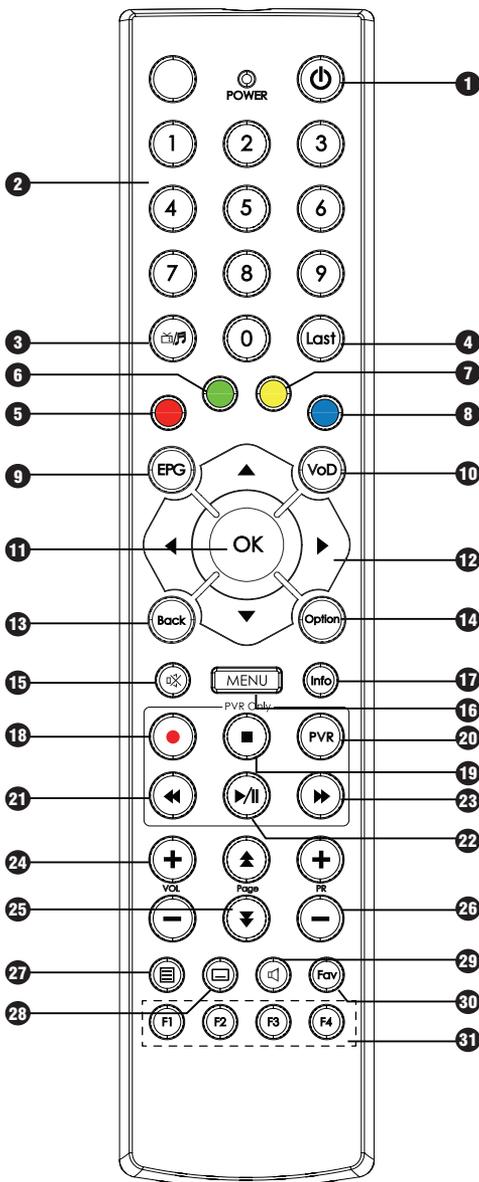
Connect to a digital audio component with OPTICAL cable.

**8 AC Adaptor**

AC Adaptor INPUT.

※ *The image shown may differ from the actual product.*

# Remote Control Unit

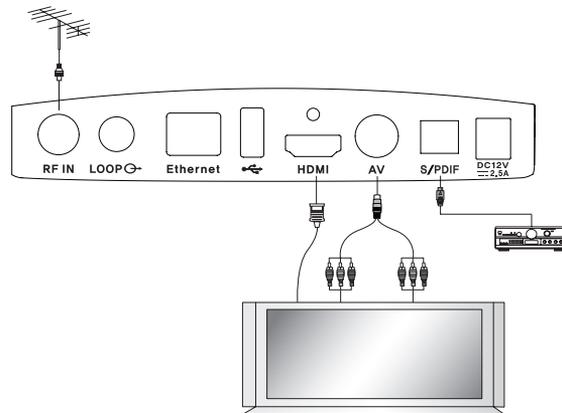


## Remote Control Unit

- 1 Power** (⏻)  
Turns your receiver On/Off.
- 2 Numeric (0~9)**  
Access channels directly via channel number.
- 3 TV/Radio** (📺/🎵)  
Switch between TV and Radio channels.
- 4 Last**  
Switch back to the previous channel.
- 5 Red**  
EPG: Move the EPG timeline one day backwards.
- 6 Green**  
EPG: Move the EPG timeline to current time.
- 7 Yellow**  
EPG: Move the EPG timeline one day forwards.
- 8 Blue**  
For future usage
- 9 EPG**  
Display the TV program guide.
- 10 VoD**  
For future usage.
- 11 OK**  
Select a menu or confirm selection.  
Display the channel list menu when watching TV.
- 12 Arrow (Up/Down/Left/Right)**  
Move the cursor up, down, left or right.  
Turn volume up/down (Right/Left). Switch channel up/down (Up/Down).
- 13 Back**  
Close a menu or go to the previous menu.
- 14 Option**  
Display more options when applicable.
- 15 Mute** (🔇)  
Mute audio output.
- 16 Menu**  
Display the main menu.
- 17 Info**  
Show channel and program information on the screen.
- 18 REC** (●)  
Start recording a program.  
EPG: Sets the selected program to be recorded.
- 19 STOP** (■)  
Stop a recording or playback.
- 20 PVR**  
Display the PVR (Personal Video Recorder) menu.
- 21 REW** (⏮)  
Rewind the recorded program.
- 22 Play/Pause** (▶/⏸)  
Play/Pause the live program or recording.
- 23 FF** (⏭)  
Fast forward the recorded program.
- 24 VOL +/-**  
Adjust the volume level.
- 25 Page** (⏴/⏵)  
Move up or down pages on the menu and TV/ Radio List.
- 26 PR +/-**  
Change channel up or down.
- 27 Teletext** (📄)  
Start teletext service.
- 28 Subtitle** (🗣)  
Select subtitle languages.
- 29 Audio** (🔊)  
Select audio track languages.
- 30 Fav**  
Displays the favorites list selection menu.
- 31 F1~F4**



# Connections



Connecting your TV to the set-top box with an HDMI cable 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 2 different methods: via AV 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. AV

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



## Chapter 3 >> Connections

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### Connecting digital audio system

Connect an optical cable to the connector marked “S/PDIF” 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.

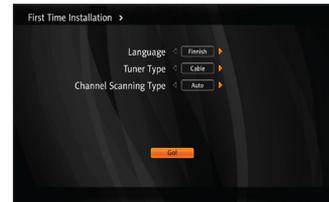


# First Time Installation and Basic Operations

## 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 to 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.
- 7 Press the **Menu** button to exit the scanning menu.



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



## Chapter 4 >> First Time Installation and Basic Operations

### 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. The list can be scrolled faster with the **Arrow (◀/▶)** buttons. Press the **OK** button to tune to a channel.

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

*[Note] 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 where you can find the following information.

- 1 name of the selected channel list
- 2 channel number / name
- 3 additional information about the program
- 4 current program title
- 5 next program title
- 6 current time / date
- 7 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.



## Chapter 4 >> First Time Installation and Basic Operations

### Viewing the Teletext

To view the teletext service:

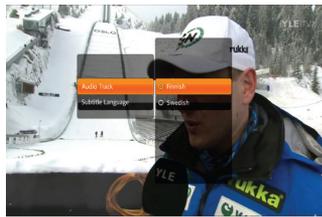
- 1 Press the **Teletext** (☰) button to display the teletext service, if present.
- 2 Use **Arrow (▲/▼)** or **Numeric (0-9)** buttons to change pages. Use **Arrow (◀/▶)** buttons to navigate between sub pages, if present.
- 3 To exit the teletext service, press **Teletext (☰)** button again. The first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

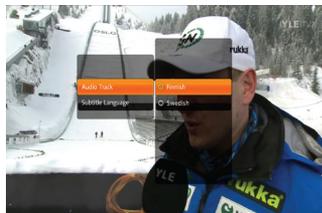
- 1 Press the **Audio** (🔊) button and then **OK** button to display Audio Track pop-up menu.
- 2 Select audio track using the **Arrow (▲/▼)** buttons and press the **OK** button to confirm your selection.



### 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)

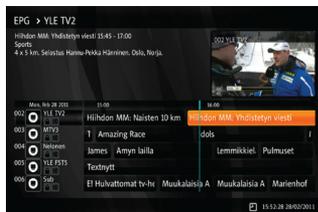
Electronic Program Guide displays program information such as channel number / name, program titles, broadcasting schedule, and program synopsis.

※ EPG service may 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 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 channel list (or program list 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 one hour intervals. A light blue vertical line marks the current time.

3 To change the EPG mode between program grid and list, press the **EPG** button again.

4 To use additional functions, press the **Option** or **OK** button. For recording related options, refer to **EPG Record** on page 15.

- (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) **Show similar:** Find similar programs in the EPG.
- (4) **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.

### PVR Function

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

Connect an External HDD or USB storage to enable recording. An External HDD is recommended over a USB flash drive. The recommended minimum storage capacity is 2 GB.

This device has one tuner. It can record two programs at the same time only if they are from the same channel multiplex.

[Note] Encrypted recordings do not work if the smartcard is changed or not inserted.



## Chapter 4 >> First Time Installation and Basic Operations

### Instant Record

- 1 Press the **Record** (●) button to start recording the current program instantly.
- 2 To stop a recording, press the the **Stop** (■) button or the **Record** (●) button again. The list of ongoing recordings will appear.
- 3 Select the recording channel and press the **OK** button.

Available functions:

- (1) **Stop**: ongoing recording will stop.
- (2) **Play**: play the ongoing recording.
- (3) **Cancel**: close the menu.



### EPG Record

- 1 Open EPG and select a program to be recorded using the **Arrow** (▲/▼/◀/▶) buttons.
- 2 Press **Option** or **OK** button to view all recording options.
  - (1) **Record**: Set the selected program to be recorded.
  - (2) **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.
  - (3) **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. Available settings are: Channel, Date, Start time, End time, Repeat (Disabled, Daily, Weekly, Weekends, or Weekdays). Select **save** to save the recording.

### Playback

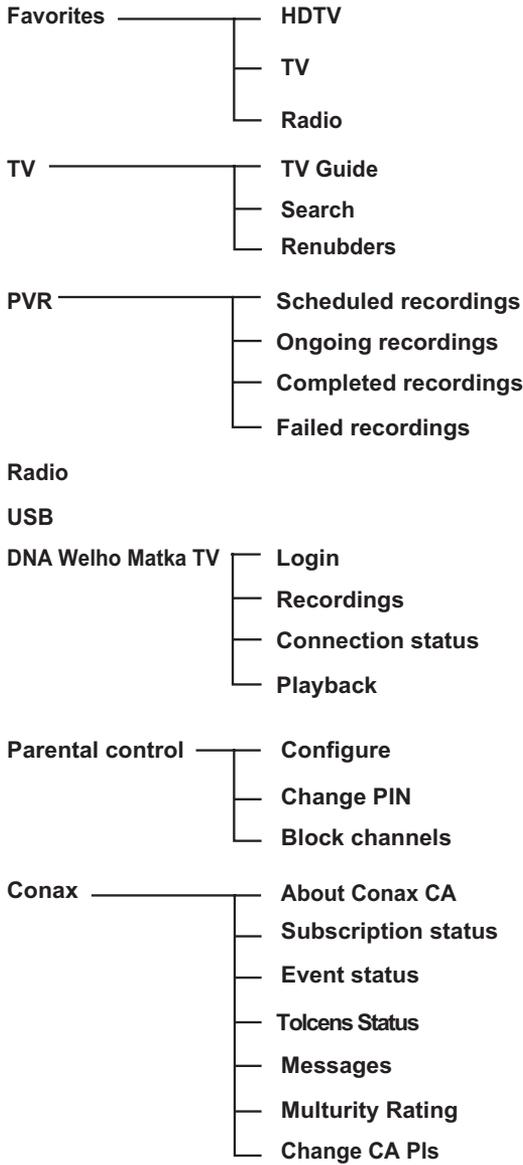
The following buttons are usable in playback mode.

- (1) **Stop** (■): Stops playback.
- (2) **PVR**: Return to the completed recordings list.
- (3) **REW** (◀◀): Rewind the recorded program.
- (4) **Play/Pause** (▶||): Puts the recorded program on pause or resumes playback.
- (5) **FF** (▶▶): Fast forward the recorded program.



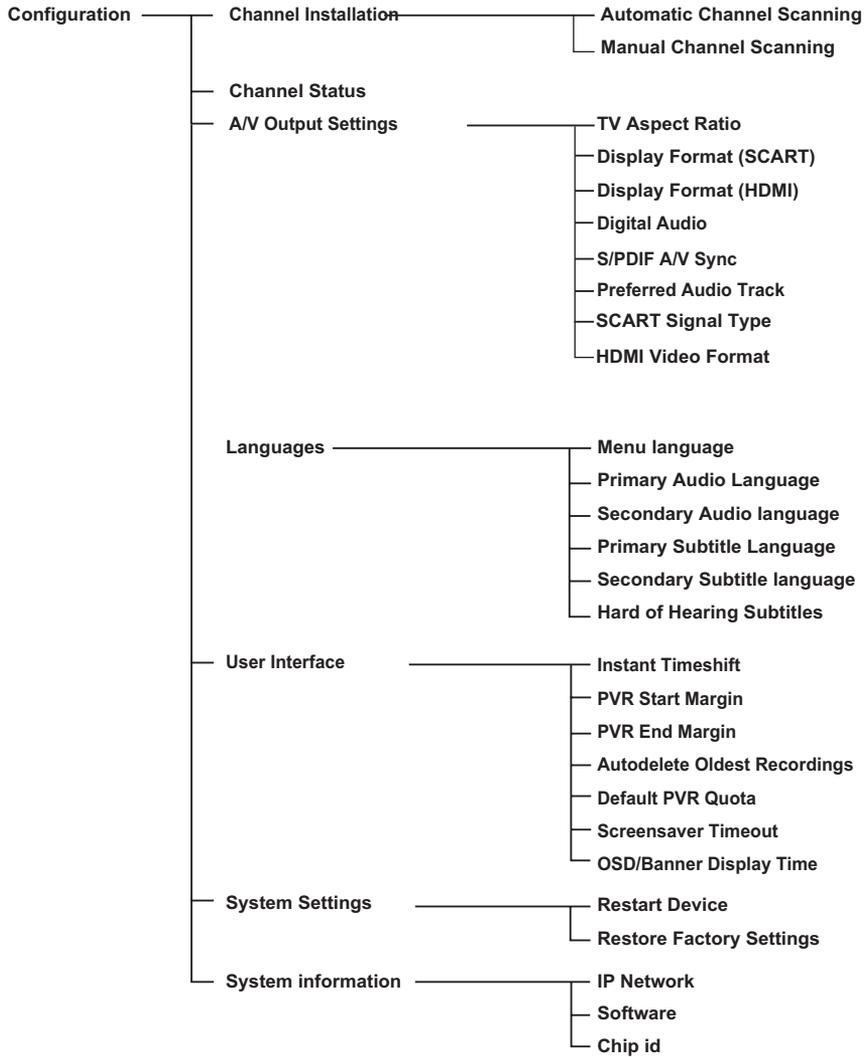


# Menu Map





## Chapter 5 >> Main Menu





## Chapter 5 >> Main Menu

# Main Menu

This menu consists of 8 different menus:

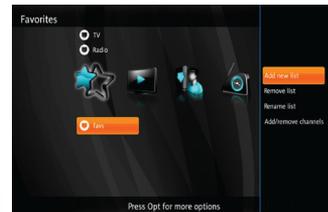
- Favorites
- PVR
- USB
- Parental control
- Configuration
- TV
- Radio
- DNA Welho MatkaTV
- Conax

- 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 a new favorites list.
- (2) **Remove list:** Remove an existing list. Default lists cannot be removed (HDTV, TV, Radio).
- (3) **Rename list:** Rename an existing list.(max. 10 letters)
- (4) **Rearrange list:** Rearrange channels on 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.

*[Note] Please refer to pages 14 and 15 for instructions on how to use EPG and record programs.*

### 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.



- 4 You can record programs directly from search results. Select a program using the **Arrow (▲/▼)** buttons and then press the **Option** or **OK** button. Recording options are listed in more detail in section **EPG record** on page 15.

### 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.



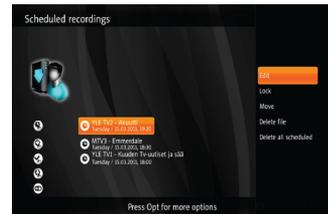
## Chapter 5 >> Main Menu

# 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 to display the list of recordings.
- 2 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.
  - (6) **More info**: Display more information about the selected program.



## 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 to display the list of recordings.
- 2 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 **Completed 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.
  - (9) **More info**: Display more information about the selected program.





## Chapter 5 >> Main Menu

### 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 to display the list of recordings.
- 2 Press the **Option** button 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. (Only recordings in this folder are deleted.)
  - (7) **More info**: Display more information about the selected program.



### Failed recordings

This menu lists recordings that have failed. A recording can fail, for example, when mains power is lost during a recording. Keyword recordings can fail completely or partly if a conflicting recording is set at a later date.

### 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 to display recording options.
- 2 Use the **Arrow (▲/▼)** 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 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**: Use the **Arrow (◀/▶)** buttons to change the start time in 5 minute steps. **Numeric (0-9)** button can also be used to input the time. When done, press the **OK** button to set the time.
  - (4) **End time**: Use the **Arrow (◀/▶)** buttons to change the end 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**: Use the **Arrow (▲/▼)** buttons to select a setting and press the **OK** button to set it. Available settings are: Disabled, Daily, Weekly, Weekends, or Weekdays.
- 3 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** ( $\blacktriangle/\blacktriangledown$ ) buttons and press the **OK** button to display a list of recording settings.
- 2 Use the **Arrow** ( $\blacktriangle/\blacktriangledown$ ) 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** ( $\blacktriangle/\blacktriangledown$ ) 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** ( $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ ) and **OK** buttons. Then select **enter** and press the **OK** button to set it.
- 3 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.



## Edit keyword recording

- 1 Select the keyword recording you wish to edit using the **Arrow** ( $\blacktriangle/\blacktriangledown$ ) buttons on the **PVR** menu and press the **Option** button to display a list of functions.
- 2 Use the **Arrow** ( $\blacktriangle/\blacktriangledown$ ) 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** ( $\blacktriangleleft/\blacktriangleright$ ) 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** ( $\blacktriangle/\blacktriangledown$ ) buttons and press the **OK** button to display a virtual keyboard.
- 2 Input a name for the directory using the **Arrow** ( $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ ) and **OK** buttons. Then select **enter** and press the **OK** button to set it.
- 3 The new directory will appear on the **PVR** menu.





## Chapter 5 >> Main 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 to display a list of functions.
- 2 Use the **Arrow (▲/▼)** buttons 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

This part of the menu displays all radio channels.

## USB

### USB

This part of the menu can be used to format an External HDD or USB stick.

- 1 Press the **Option** button on the USB menu
- 2 Select **Begin format now** and press **OK**.

*[Note] After formatting you cannot use the same External HDD or USB device with your computer any more.*

# 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 the **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 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.

※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 inwards and downwards.



## Chapter 5 >> Main Menu

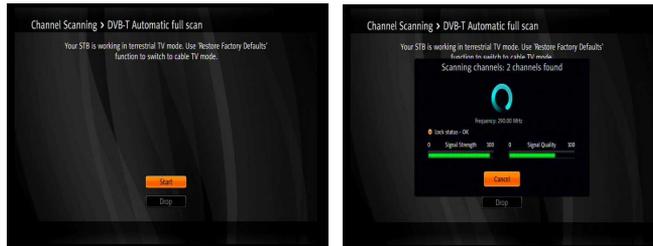
# Configuration

## Channel Installation

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

### Automatic Channel Scanning:

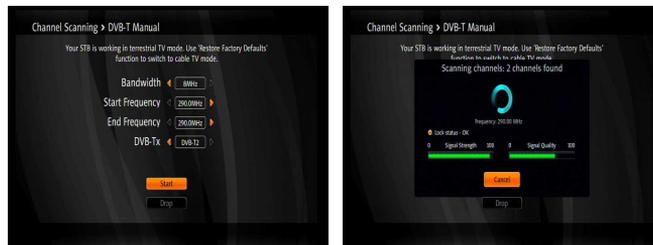
- 2-1 Select **Automatic Channel Scanning** and press the **OK** button.
- 2-2 DVB-C or DVB-T Automatic scan menu will be displayed.



- 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 the **OK** button. To change the tuner type, please do **Restore Factory Defaults**.*



## Chapter 5 >> Main Menu

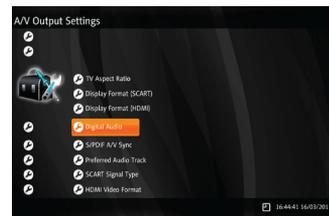
### Channel Status

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 Automatic
- (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.





## Chapter 5 >> Main Menu

### User Interface

- 1 Select **User Interface** using the **Arrow (▲/▼)** buttons on the menu and press the **OK** button.
- 2 Select a setting using the **Arrow (▲/▼)** buttons and press **Configuration** the **OK** button.

Available settings are listed below:

- (1) **Instant Timeshift:** If you enable the instant timeshift, the timeshift function will operate automatically.
- (2) **PVR Start Margin:** This setting adjusts all scheduled recordings to start earlier. (Disabled, 1, 2, 5, or 10 minutes)
- (3) **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)
- (4) **Autodelete Oldest Recordings:** If you enable this setting, the oldest recording in each keyword recording will be automatically removed when its quota is exceeded.
- (5) **Default PVR Quota:** This setting defines a default disk space quota for new keyword recordings. (10GB, 20GB, 50GB, 100GB, 200GB, 500GB or Unlimited)
- (6) **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)
- (7) **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 the 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.



### System information

- 1 Select **System information** 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) **IP Network:** Ethernet status, DNS1 and DNS2 can be viewed with this option.
- (2) **Software:** Firmware version, and Software Update Check can be viewed with this option.
- (3) **Chip id:** Chip id of the device for chipset pairing.





## Troubleshooting

# Troubleshooting

Problem	Solution
No power supply.	Plug the power cord correctly.
No picture.	Check that the video and antenna cables are connected correctly, and that they are not damaged in any way. Check that your TV is set to the correct video input source.
Poor picture quality.	Check the signal level. A very long or worn antenna cable or a low quality splitter can lower 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.
Service is not running or scrambled.	Make sure the smart card is appropriate for the selected service. If necessary, contact your TV service provider. See also <i>Pay TV channels do not work</i> .
No card inserted.	Insert smart card, and make sure it is inserted correctly with the chip inwards and downwards.
Incorrect card.	Insert the correct smart card. Remove the smart card and reinsert it. Make sure it is inserted with the chip inwards and downwards.



## Troubleshooting

Problem	Solution
Pay TV channels do not work.	<p>Pay TV channels do not work if the smart card and STB are not paired.</p> <p>To make the pairing, inform your operator with your STB's CHIP-ID and the number of your smartcard. You can find the CHIP-ID from CONAX an System information menu.</p> <p>The smartcard must be inserted within 3 days after the STB has been added to the operators customer database. The STB must be turned on until channels that require pairing begin to work (usually for 20-60 minutes).</p>
Recording does not work.	<p>Plug in a USB device and format it to enable recording.</p> <p>Note that after formatting you cannot use the USB device in your computer any more.</p>

# Specifications

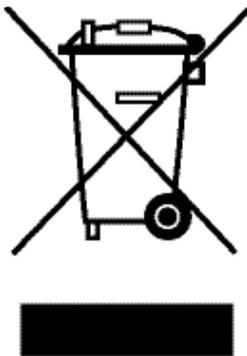
Virtin & Kanavat		
DVB-C	Taajuusalue	47~870MHz
	RF-liitinIEC	169-2 naaras (RF IN), IEC 169-2 uros (RF OUT)
	Sisäinen taajuus	36.125 MHz
	Suojaustaso	1/2, 2/3, 3/4, 5/6, 7/8
	Demodulointi	QAM
	Konstellaatio	16, 32, 64, 128, and 256 QAM
	QAM kellotaajuus	28.92 MHz
DVB-T2	Taajuusalue	VHF:104~300MHz, UHF:300~862MHz
	RF-liitinIEC	169-2 naaras (RF IN), IEC 169-2 naaras (RF OUT)
	Tuloimpedanssi	75 Ω
	Signaalin tulotaso	-85dbm~-35dbm
	Kaistanleveys	1.7MHz, 6MHz, 7MHz, 8MHz
	Modulaatio	QPSK, 16QAM, 64QAM, 256QAM
	OFDM-järjestelmä	1K, 2K, 4K, 8K, 16K, 32K
	Suojaustaso	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Suojaväli	1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128	
Virtalähde		
Tulojännite	Muuntaja, DC12V 2.5A	
MPEG TS A/V-dekoodaus		
Siirtobittivirta	MPEG-2 ISO/IEC 13818-1	
Profiili ja taso	MPEG-2 MP@ML MPEG-2 MP@HL, MPEG-4 AVC/H.264 HP@L4	
Kuvasuhde	4:3, 16:9	
Videoresoluutio	1080i, 720p, 576p	
Audiodekoodaus	MPEG-1, Musicam Layers 1 & 2, AC-3	
Audiotila	Mono, Stereo	
Näytteenottotaajuus	32, 44.1 & 48KHz	
Systeemin resurssit		
Proessori	ST40 CPU-ydin: 450MHz	
Flash-muisti	64 megatavua	
DDR2-muisti	DDR2 1 gigabittiä x 2 (256 megatavua)	
EEPROM	8 kilotavua	
AV-liitännät		
Digitaalinen ulostulo (HD)	HDMI	
TV Scart & RCA (SD)	DIN-SCART	
Digitaalinen ääniliitäntä	Digital Audio Bitstream -ulostulo (S/PDIF OPTINEN)	
USB-portti	USB 2.0 x 1	
Verkko	Fast Ethernet (10/100)	



## Specifications

Maksullinen vastaanotto	
Älykortti	1 älykortinlukija
Lisälaitteet	
Kaukosäädin	IR (Taajuus:38KHz), Paristot: 2x1.5V AAA
HDMI-kaapeli	1.5 m
Verkkokaapeli	1.5 m (lisävaruste)
Antennikaapeli	1.5 m (lisävaruste)
AV-kaapeli	DIN-SCART (lisävaruste)
Käyttöopas	Kyllä
Koko ja paino	
Koko (LxKxS)	180 x 33 x 132 mm
Paino	1 Kg
Käyttölämpötila	0~45 °C
Varastointilämpötila	-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.

**IM02-102DNA**