

HITACHI

Inspire the Next

Digital TV Recorder

Model
HDR161



Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.



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IMPORTANT SAFEGUARDS

CAUTION: Please read all of these instructions before you operate this product and save these instructions for later use.

Electrical energy can perform many useful functions. This product has been engineered and manufactured to assure your personal safety. BUT IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. In order not to defeat the safeguards incorporated in this product, observe the following basic rules for its installation, use and servicing.

1. Power Supply

The receiver should be plugged into a 220 - 240V AC 50Hz supply only.

2. Leads

Ensure the power supply lead, and all other leads are positioned so they are not likely to be walked on or pinched by objects placed on or against them. Pay particular attention to the power lead, where it enters the mains plug and where it comes out of the receiver. Do not connect or adjust leads when the receiver is plugged in.

3. Battery Disposal

Please ensure that exhausted batteries from the remote control handset are disposed of safely in accordance with local government rules.

4. Read Instructions

All the safety and operating instructions should be read before the product is operated.

5. Retain Instructions

The safety and operating instructions should be retained for future reference.

6. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

7. Follow Instructions

All operating and use instructions should be followed.

8. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Water, Moisture and Temperature

Do not use this product near water, for example: near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming and the like.

Do not leave or use the receiver in a hot, cold or humid area. Do not allow the receiver to get wet - from drips or splashes - as this may be dangerous. Do not place water filled objects such as flower vases on the top of the receiver.

11. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

12. Transportation

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

13. Ventilation

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

14. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

15. Grounding or Polarization

This product is provided with one of the following types of plugs. If the plug should fail to fit into the power outlet, please contact your electrician. Do not defeat the safety purpose of the plug.

- a. Two-wire type (mains) plug.
- b. Three-wire grounding type (mains) plug with a grounding terminal. This plug will only fit into a grounding type power outlet.

16. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

17. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power-line surges.

18. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

19. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

20. Servicing

Ensure the person who services your receiver is qualified to do so. Do not remove the cover yourself as you could get an electric shock. We are proud to offer a high-quality product. To keep this level of quality, your receiver should be serviced at an authorised service centre.

21. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or damaged in any way.
 - f. When the product exhibits a distinct change in performance, this indicates a need for service.
- Microsoft® and Windows® are registered trademarks of Microsoft Corporation in the United States and/or other countries.

- PC/AT is a registered trademark of International Business Machines Corporation in the United States.
- Macintosh® is a registered trademark of Apple Computer, Inc. in the United States and/or other countries.
- All other company or product names are trademarks or registered trademarks of their respective companies.
- Some IC chips in this product include confidential and/or trade secret property belonging to Texas Instruments. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble or discompile the contents thereof.

22. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. Safety Check

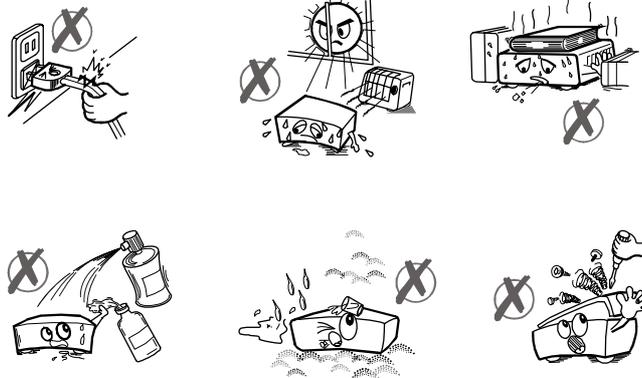
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24. Wall or Ceiling Mounting

This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

25. Heat and Flames

The receiver should not be placed near to naked flames or sources of intense heat, such as an electric fire. Ensure that no naked flames sources, such as lighted candles are placed on top of the receiver.



	WARNING RISK OF ELECTRIC SHOCK	
	<i>The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.</i>	
	<i>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</i>	



This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of life separately from your household waste. There are separate collection systems for recycling in the EU.

For more information, please contact the local authority or your retailer where you purchased the product.

SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between the pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

DO route the mains lead so that it is not likely to be walked on, crushed, chafed, or subjected to excessive wear and tear or heat.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

DON'T allow electrical equipment to be exposed to dripping or splashing, or objects filled with liquids, such as vases, to be placed on the equipment.

DON'T place hot objects or naked flame sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.

DON'T use makeshift stands and **NEVER** fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

ABOVE ALL

--- NEVER let anyone especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock;

--- NEVER guess or take chances with electrical equipment of any kind

--- it is better to be safe than sorry!

POWER CORD (MAINS LEAD)

Do not place the product where a piece of furniture or other heavy object could trap the power cord (mains lead). Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord periodically to see if it is damaged. If it is damaged, please ask an approved service agent to replace it.

For your own safety read following instructions carefully before attempting to connect this device to the mains.

This unit is designed to operate on a 220V-240V AC - 50Hz supply only. Connecting it to other power sources may damage it. Ensure that the supply corresponds to the information on the rating label on the bottom of the unit.

This digital terrestrial receiver is supplied with a moulded mains plug. This plug must not be cut off as it may contain a special radio interference filter, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate safety approved extension lead or consult your dealer.

Observe the manufacturers instructions when connecting extension leads to the set. Check the fuse rating on the new plug, this should be fitted with a 5 Amp fuse which conforms to either ASTA or BSI

(BS1362) approvals, these are easily identifiable by either the  or  symbols. If you are in any doubt about the installation of an extension lead, please consult a competent electrician.



This symbol means that this unit is double insulated. An earth connection is not required.

CAUTION

To prevent electric shock, do not remove the cover. No user servicable parts inside. Refer servicing to qualified service personnel. Disconnect from the mains supply before cleaning.

SAFETY PRECAUTIONS

Power Source.

This unit should only be connected to a 220-240V AC 50-60 Hz power supply. Do not connect to any other supply.

Power Lead.

Do not place the lead where it may be stepped on or tripped over. Do not place heavy objects on the lead. If the lead becomes cut or damaged, please disconnect the unit from the mains supply.

The mains plug or the appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Location.

Place on a solid base such as a shelf or in a TV cabinet or similar. Do not place near heat sources such as radiators, fires or similar.

Do not block ventilation holes or place in a location that does not allow a free airflow.

Do not place the unit near water or in high humidity areas. Avoid splashing. If the unit does get wet please call an approved service agent.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

GENERAL PROPERTIES

1. Menu Language : English
2. Channel lock, Menu lock
3. Channel list sorted by D-book logical channel numbers.
4. Channel list name editing option.
5. BBC UK Compliant Over Air Download.
6. PIP (Picture in picture)
7. Time shift – pause live TV.
8. One button record (Instant recording of channels).
9. Dual recordings at the same time.
10. Once, daily, weekly programmed event recordings.
11. Ability to record one channel while watching another channel.
12. X1/4, X1/2, X1, X2, X4, X8, X16, X32 forward and backward play options.
13. Play list shows available recordings (Event name, Start time, Duration, delete/playback permission)
14. Timers list shows scheduled recordings (Event name, Start time, Duration, once/daily/weekly repeat, change/delete/playback permission)
15. Record timer via 7 day EPG
16. Records DVB subtitles (If any are broadcasted by the broadcaster).
17. Automatic/Manual channel search.
18. Guided first time installation.
19. 200 channels.
20. Favourite channel lists.
21. Automatic day light saving time updating.
22. MHEG-5 Engine

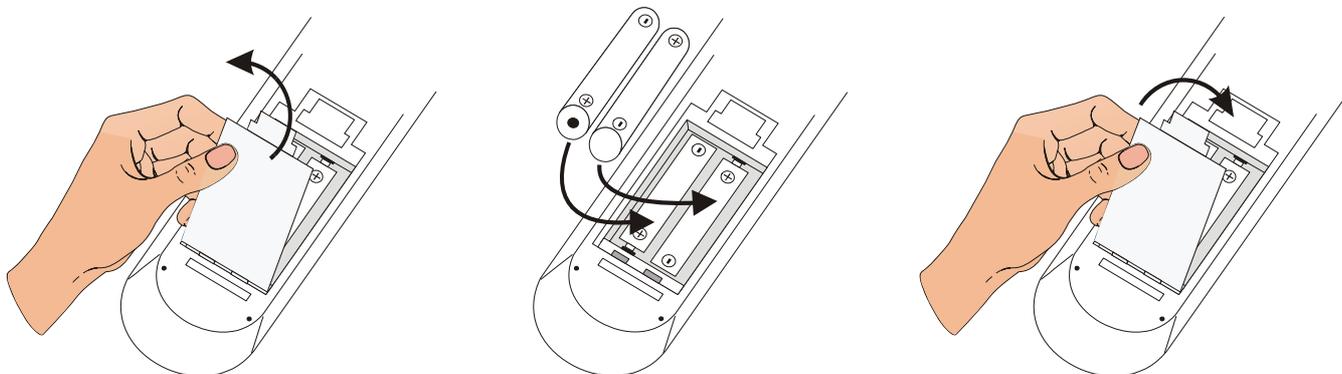
CONTENTS OF PACKAGING

Inside your receiver package you should have;

- 1 x This user guide
- 1 x Quick Start Guide
- 1 x Digital terrestrial TV receiver & recorder
- 1 x Remote control
- 2 x 1,5 V R-03/AAA batteries
- 1 x Scart lead
- 1 x RF lead

REMOTE CONTROL

1. Press the mark on the cover and slide it in the direction of the arrow.
2. Insert the batteries making sure the polarities correctly match the + and - marks inside the battery compartment.
3. Attach the cover and slide it until it clicks into place.



Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.



- Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
- Insert the batteries making sure the polarities correctly match the + and - marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak.
Battery fluid from leaked batteries is harmful to skin, therefore ensure that you wipe them first and then remove them using a cloth.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules accordance of each local government when disposing of worn-out batteries.

Replacement batteries for this unit are 1.5 Volt (R03/AAA).

GETTING STARTED

Before connecting, ensure that the power cord of the unit is unplugged from the AC outlet and turn off the devices to be connected. After making all connections (Diagrams on page 11), turn on the unit first and then the other devices.

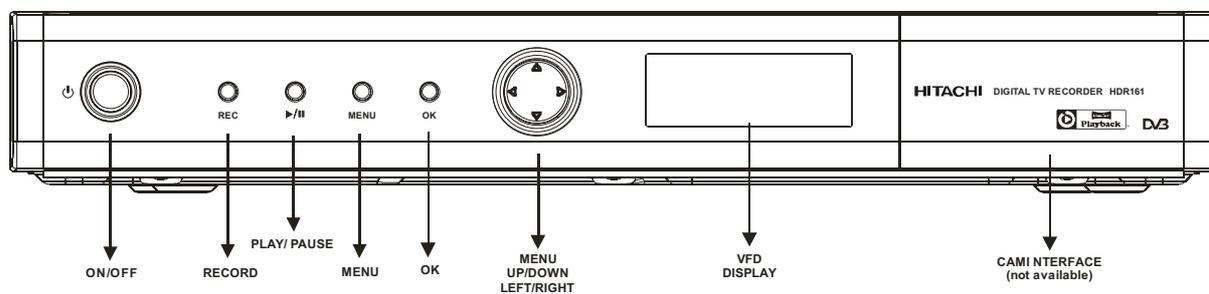
After plugging in the mains cord, wait until a blue light is viewable on the front panel (Standby Mode). "NOTE" - When the unit is first powered up, please wait a short while before activating the receiver as the unit's software needs to be initialised and the hard disk checked.

You can turn on your unit by pressing the Standby button on the remote control. Notice that the blue light on the front panel will turn blue.

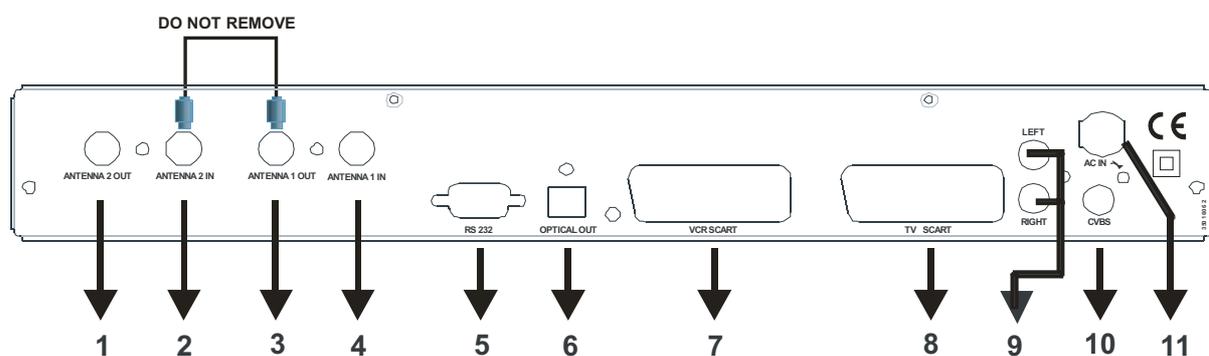
The unit is equipped with output terminals that support RGB, S-video and CVBS video signals. The image quality is highest in the order of the RGB signal, the S-video signal and the CVBS video signal.

FRONT AND BACK PANEL

FRONT PANEL:

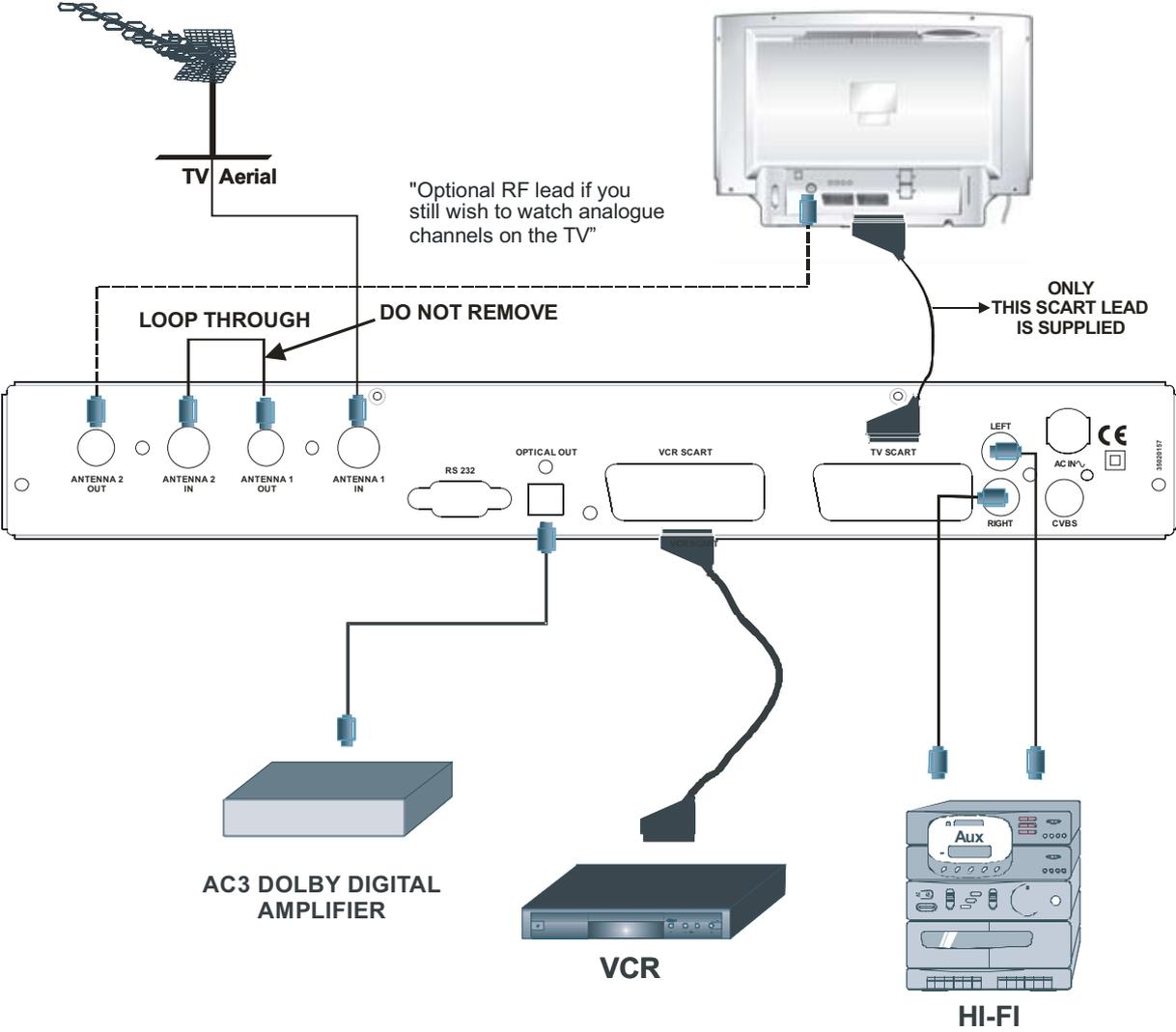


BACK PANEL



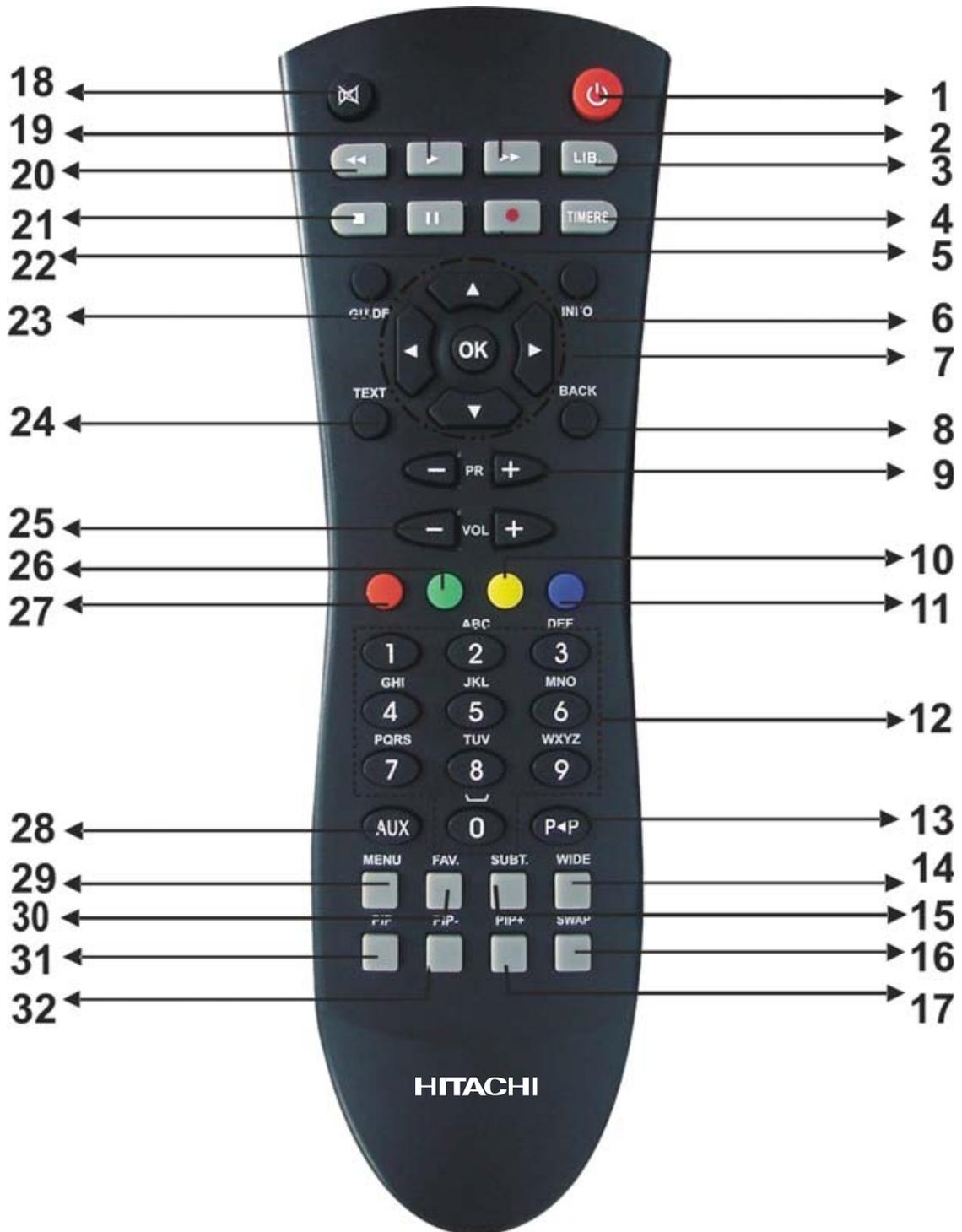
- | | |
|-------------------------------------|--|
| 1. AERIAL 2 OUT | : To watch analogue channels on the TV |
| 2. AERIAL 2 IN | : Loop through |
| 3. AERIAL 1 OUT | : Loop through |
| 4. AERIAL 1 IN | : Aerial input |
| 5. RS232 | : Software Upgrade (Service purposes only) |
| 6. OPTICAL SPDIF | : Optical Digital Audio Output |
| 7. VCR SCART | : Output for other equipment such as DVD, VCR...etc. |
| 8. TV SCART | : TV Scart connection |
| 9. ANALOGUE AUDIO LEFT/RIGHT | : Analogue Audio output |
| 10. CVBS | : Video Output |
| 11. POWER SUPPLY | : 220-240V AC, 50 Hz |

CONNECTION DIAGRAMS



NOTE: This set top box supports Free To View only. There is no provision for a CAM or Pay To View card.

REMOTE CONTROL LAYOUT



USING THE CONTROLS ON THE FRONT PANEL

You can enter the main menu by pressing the menu button on the front of the unit. Then navigate through the menu's with the four Arrow buttons on the front of the unit. and make a selection with the OK button.

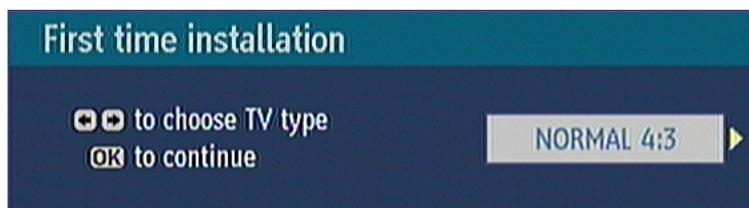
REMOTE CONTROL FUNCTIONS

BUTTON	FUNCTION
1. STAND BY	Standby ON/OFF
2. ►►	Fast Forward
3. LIB.	Library of records
4. TIMERS	Schedule recording
5. 	Record key
6. INFO	Displays Info window
7. Arrow buttons/OK	Menu Navigation
8. BACK	Exit from menu (Without saving)
9. PR+/-	Next/Previous channel
10. YELLOW	Teletext Function key
11. BLUE	Teletext Function key
12. 0,1,2,3.....9	Numeric keys
13. P ◀ P	Previous channel
14. WIDE	TV Mode
15. SUBT.	Enables Subtitles
16. SWAP	Normal screen and PIP window change their places
17. PIP +	Next channel in PIP window
18. MUTE	Mute
19. ▶	Play the records
20. ◀◀	Fast backward
21. ■	Stop the records
22.	Pause
23. GUIDE	Electronic Program Guide
24. TEXT	Teletext key
25. V+ / V -	Volume UP/DOWN
26. GREEN	Teletext Function key
27. RED	Teletext Function key
28. AUX	VCR Switch
29. MENU	Enter menu/ Exit menu (With saving)
30. FAV	Favourite list
31. PIP	Opens PIP window
32. PIP-	Previous Channel in PIP window

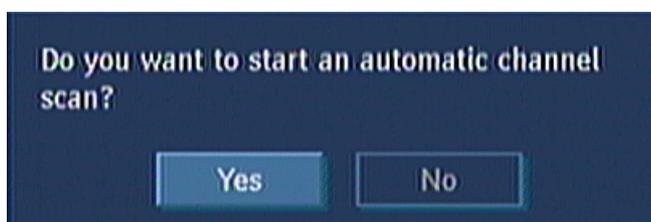
MENU INTERFACE

FIRST TIME INSTALLATION

When the box is switched on from stand-by mode and if there is no channel stored in the database, First Time Installation Menu window is displayed on the screen. In this window, set the TV type with “◀ / ▶” keys and press OK button on remote control to continue.



Automatic channel scan window appears and the unit commences to search for channels.



MAIN MENU

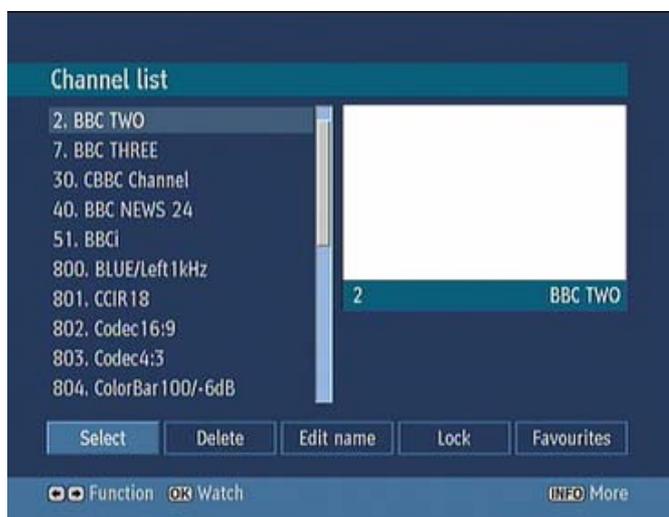
Main menu is accessed by pressing the MENU key on the remote control. Navigate with “▲/▼” keys among the menus and press OK to activate menus. In some sub-menus, press the BACK button to return to the previous menu, otherwise, use it to exit from the menu. In all menus there is an Info banner at the bottom of the screen. These are functions that can be used in the current menu.



1. CHANNEL LIST

Channel list is the place where the channels are managed. The following operations can be performed in this menu:

1. Navigating channel list
2. Deleting channels
3. Renaming channels
4. Adding locks to channels
5. Setting favourite list



1.1. NAVIGATING CHANNEL LIST

In the channel table “▲/▼” moves the selection to the previous or next .To exit menu and watch a specific channel highlight it using, “▲/▼” then press OK key while the "SELECT" option at the bottom of the screen is highlighted. If the selected channel is password protected then a pop up menu is displayed. If the correct code is entered, the selected channel can be watched. You can now select another channel in the list. The scroll Bar in middle of the screen shows relative position of the currently visible channels with respect to the whole list.

1.2. DELETING CHANNEL

To delete a channel highlight it using “▲/▼”, then highlight the “Delete” button using “◀/▶”and press OK. A message is displayed to confirm your decision, if you still want to delete select “YES”, with the < > buttons or the operation will be cancelled if you select “NO”.

1.3. EDIT CHANNELS

To rename a specific channel, highlight "Edit Name" button after the channel is selected and press OK. A box appears on the screen. “◀/▶” moves to the previous/next character. “▲/▼” toggles the current character, i.e., ‘b’ character becomes ‘a’ on “▼” and ‘c’ on “▲”. Pressing the numeric buttons ‘0...9’ replaces the highlighted character with the characters printed above the button one by one as the button is pressed. Pressing BACK cancels the editing and OK saves the new name.

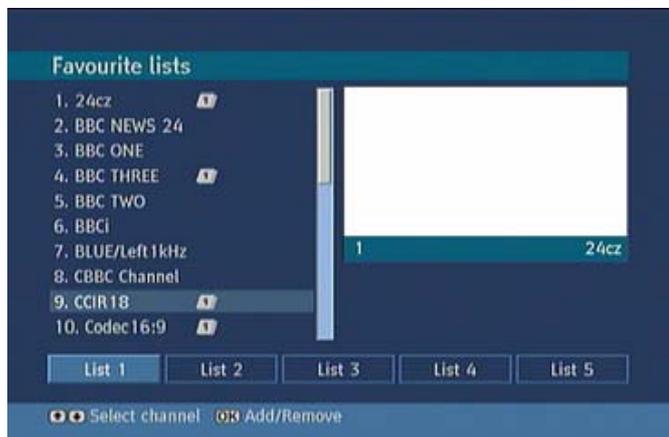
1.4. ADDING LOCKS TO CHANNELS

Channel Locking provides a password-protected access to channels selected by parents. In order to lock a channel you should know the parental Lock password (set to 0000 in the factory and can only be changed from the Configuration Menu), from the channel list menu highlight the channel to be locked and select the “Lock” button with the < > keys, when OK is pressed a password box is displayed. Enter the parental Lock code, press OK and the Lock icon will be displayed in front of the selected channel. Repeat the same operation to cancel the Lock.

1.5. SETTING FAVOURITE LIST

Favourite lists provide an easy way to group programs in a customizable way. Five favourite lists are available on this product named as List1, List2, List3, List4 and List5.

- From the channel list use the “◀/▶” buttons to highlight “Favourites” and press OK to enter the “Favourite Lists” menu.
- Press the “◀/▶” buttons to select your preferred favourite list (List1/List2/List3/List4 or List5).



- Press OK to add the highlighted programme to your list and continue to add the programmes you want to include in your favourites by highlighting the channel and pressing OK.
- Repeat the above steps to remove the channels from the list. Once complete press MENU to save your settings.
- You can step through your favourite lists with the FAV button on the remote. Each press will advance to the next list. The PR+ and PR- buttons will cycle through the channels you put in the currently selected favourites list.

2. PROGRAMME GUIDE (7 DAYS EPG)

Electronic Program Guide appears on the screen. It is able to get Information of the channel - programs weekly by means of 7-DAY-EPG. All programs of channels are displayed. The current program is highlighted and there is brief information about the programs of the channel, such as: name, short/extended event description, start & end time. By pressing “◀/▶” keys continuously the time scale can be changed. If there is any event information data available only program names and dates are displayed. Across the bottom of the screen there is an info bar showing all the available commands which are listed below.



RED BUTTON (SHRINK)

: make the info boxes smaller

GREEN BUTTON (EXPAND)

: make the info boxes larger

YELLOW BUTTON (PREV DAY)

: displays the programs of previous day

BLUE BUTTON (NEXT DAY)

: displays the programs of next day.

INFO (DETAILS)

: displays the short extended programs in detail.

RECORD

: the unit will record the selected programme.

NUMERIC BUTTONS (JUMP)

: go to preferred channel directly via numeric buttons.

OK (VIEW / REMINDER)

: shows the highlighted channel / sets the reminder for future programs

TEXT (SEARCH)

: activates “Search” window.

◀ (PAGE LEFT)

: moves the page to left.

▶ (PAGE RIGHT)

: moves the page to right.

▶ (NOW)

: shows the current programme

3. TIMERS

To display Timer window press either TIMERS key or activate it from main menu. To add a Timer press YELLOW button on the remote and the, “Add Timer” windows appears.

Channel: “◀/▶” keys will navigate the user through the TV or Radio list .

Date: By using either “◀/▶” or “0,1,2...,9” keys start date is entered.

Start: By using either “◀/▶” or “0,1,2...,9” keys start time is entered.

End: By using either “◀/▶” or “0,1,2...,9” keys end time is entered.

Duration: Displays the duration of the recording.

This is automatically worked out after the start and end times have been entered.

Repeat: By using “◀/▶” keys, repeat mode is set to “Once”, “Daily” or “Weekly” .

Playback: permit or block playback for other users. “use parental settings” is default.



Change /Delete: permit or prohibit any modifications for other users.

When a timer Start time is reached, the receiver starts to record the desired program, then when the end time is reached, the record stops. Save the adjustments by means of GREEN key or cancel with RED button. Edit the list via GREEN key and delete with the RED button.

4. RECORDINGS LIBRARY

All the recordings are kept in list. To show the list of recordings press either LIB button on the remote or access it from the main menu.



- RED BUTTON (DELETE)** : Erase the recordings
- GREEN BUTTON (EDIT)** : make changes to the recordings
- YELLOW BUTTON (TAG)** : marks the recordings for archiving
- BLUE BUTTON (SORT)** : change the order of the recordings
- INFO (DETAILS)** : displays the short extended programs in detail
- OK BUTTON** : opens the play options menu
- ▶ (RESUME)** : recommence the recordings

Red bar: indicates the used space of the recordings on the hard disk.

Yellow bar: displays the approximate capacity required for the timers currently set.

Green bar: shows the free space on the hard disk.



4.1. PLAY OPTIONS

4.1.1. PLAY FROM START

Plays the recording from the beginning.

4.1.2. RESUME

Begins with playing from the last stopped position.

4.1.3. PLAY FROM OFFSET

Begins with playing, from the time which is entered.

4.1.4. MANAGE CHAPTERS

It will display any marked chapters (To set chapter marks, press the Menu button during playback and enter the “Chapter Options” menu) and begin with playback from the selected chapter.

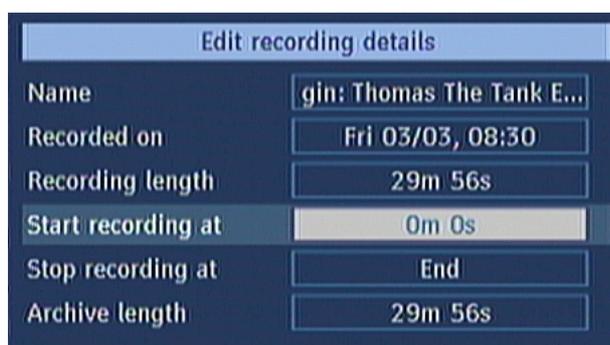
4.1.5. CREATE ARCHIVE (ARCHIVE MANAGEMENT)

Using this option, you will be able to archive your recordings to an external device like a DVD player. Press the LIB. Button and come to the “Recordings Library”. In this library, the saved recordings are listed. To select a recording which should be archived, highlight one of them using the “▲/▼” buttons and select the TAG option, by pressing the yellow button. After then, press the OK button to open the “Play Options” menu. In this menu, using the “▲/▼” buttons, select the “Create Archive” option and enter it by pressing the OK button. You will see the menu below:



EDIT RECORDINGS

While the “Edit recordings” option is highlighted, using the “◀ / ▶” buttons come to the list of recordings on the right of this menu. Select one of them, which should be archived and press the OK button. You will come to the following menu:



Here, only the “Start recording at” and “ Stop recording at” options are active. If you have already separated recording, you could select any chapter to begin with the archiving and stop it. If it is not separated in chapters, the beginning and ending time of the recording will be automatically the beginning and ending time of the archiving.

MAIN TITLE

If you want to display a main title, select “Include” (To do this, use the “◀ / ▶” buttons). If not, select “Skip”. By selecting “Skip”, the options below will be disabled.

TEXT: After you select the “Include” option in the “Main Title” menu, you could edit the main title.

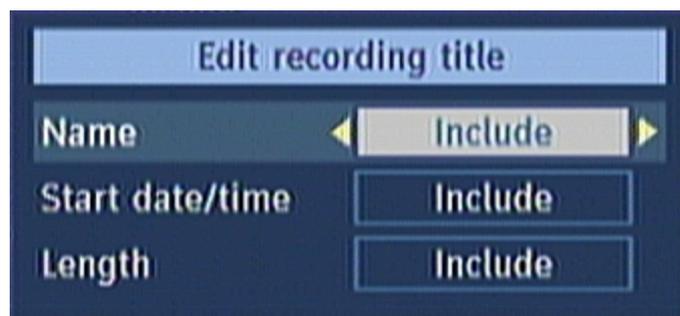
DURATION: Set the duration of the appearance of the main title on the screen.



RECORDING TITLE

If you want to display a recording title, select “Include” (To do this, use the “◀ / ▶” buttons). If not, select “Skip”. By selecting “Skip”, the options below will be disabled. While archiving, you could decide to show the names of the saved recordings on the screen.

DISPLAY: In this option, you could decide, which of the following items should be displayed in the recording title: “Name”, “Start date/time” and “Length”.

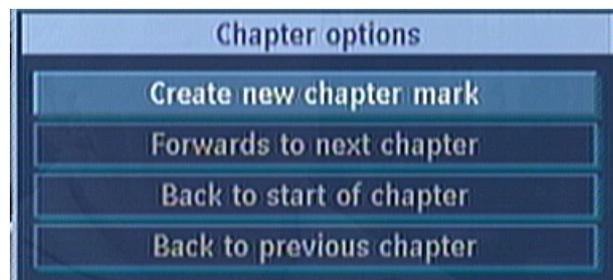


DURATION: Set the duration of the appearance of the “Edit recording title” menu main title on the screen. If you press the Menu button during playback, you will enter the “Chapter options and in this menu, you could set any point as a chapter. So, the user is be able to skip frames which should not be archived. The user could also start and stop the playback from any chapter he wants. To stop archiving, press the STOP button. During archiving, no other button will be function.



4.2. CHAPTER OPTIONS

During playback of a recording, if you press the MENU button, you will get to the “Chapter Options” menu. The chapter options menu includes following options:



This menu includes the options below:

4.2.1. CREATE NEW CHAPTER MARK

Using the “▲/▼” buttons select this option and press the OK button, to create a chapter mark. You could set a chapter mark anywhere you want.

4.2.2. FORWARDS TO NEXT CHAPTER

Using the “▲/▼” buttons select this option and press the OK button, to go to the next chapter. If there is more than one chapter.

4.2.3. BACK TO START OF CHAPTER

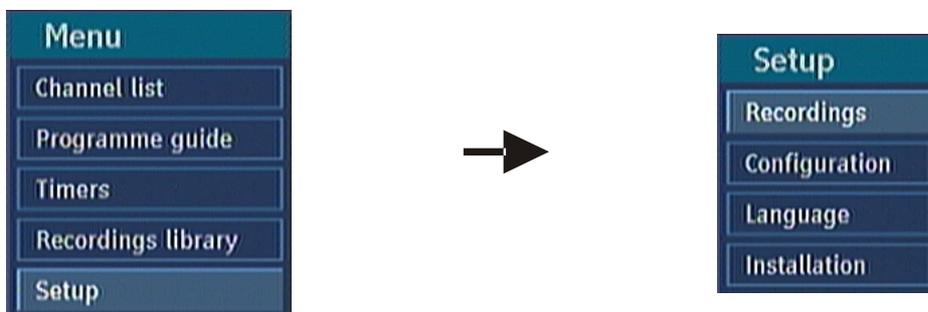
Using the “▲/▼” buttons select this option and press the OK button, to go to the beginning of the current chapter. This is the last played chapter.

4.2.4. BACK TO PREVIOUS CHAPTER

Using the “▲/▼” buttons select this option and press the OK button, to go to back to the previous chapter. If there is more than one chapter.

5. SETUP

Allows you to full make adjustments to the following: Recordings, Configuration, Language and Installation.



5.1. RECORDINGS

The settings of the recordings are configured in this menu, press OK to display the menu.

5.1.1. START EARLY

Enter the required amount of minutes by means of “◀ / ▶” buttons. The recorder will start early by this amount of minutes.

5.1.2. END LATE

Enter the required extended record time via “◀ / ▶” buttons. The recorder will stop this amount of minutes late.

5.1.3. MAX TIMESHIFT

Type the preferred timeshift time. See the section on Timeshifting.

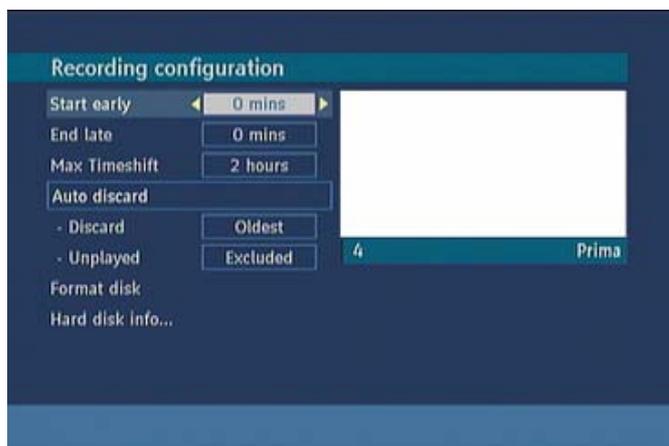
5.1.4. AUTO DISCARD

DISCARD: When the HDD is full, the recordings will be erased one by one, according to your selected file option: “Oldest, Largest, Shortest”.

UNPLAYED: select “Included” to remove the unplayed records otherwise choose “Excluded”.

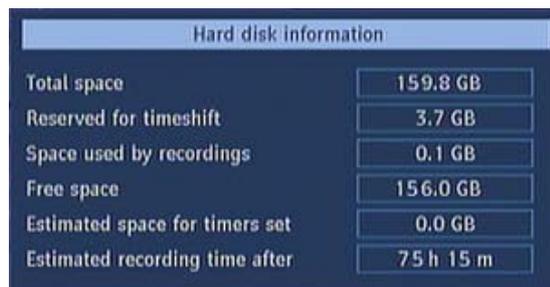
5.1.5. FORMAT DISK

All the data on Hard Disk will be lost. Press OK when the “Format Disk” line is highlighted. A menu appears on, which asks you the password (The default password is “0000”). After you enter it, a pop-up menu appears on the screen, select “YES” and press OK and the Hard Disk will be formatted. Selecting “NO” and pressing OK will cancel the operation.



5.1.6. HARD DISK INFO

Displays Hard disk information in the form of a table. Select this from the configuration menu.



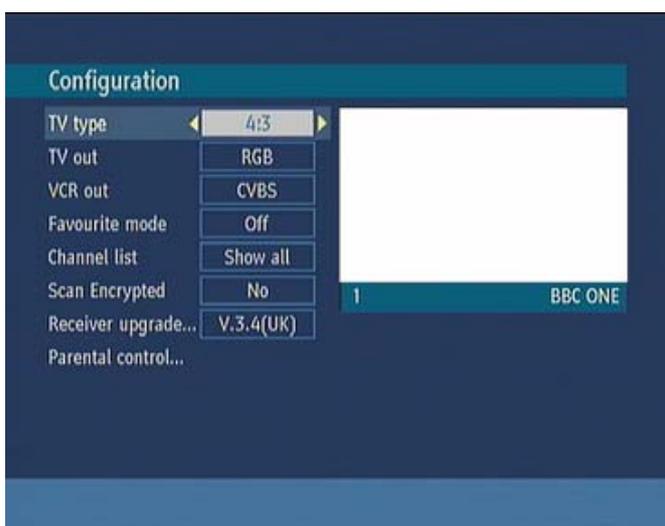
Hard disk information	
Total space	159.8 GB
Reserved for timeshift	3.7 GB
Space used by recordings	0.1 GB
Free space	156.0 GB
Estimated space for timers set	0.0 GB
Estimated recording time after	75 h 15 m

5.2. CONFIGURATION

You can configure the settings of your set top box. Select Configuration from Setup menu and press **OK** to enter this menu. Press the **BACK** button on the remote to exit

5.2.1. TV TYPE

Digital terrestrial television channels can broadcast programmes in a widescreen format which must be output differently to normal and widescreen TV sets. This function tells the receiver the screen format of the TV connected so that broadcasts are displayed correctly. Highlight the TV Type line in the Configuration menu and use the “◀/▶” keys to select 4:3 if you have a standard TV set connected or 16:9 if it is a widescreen TV. This function duplicates the selection made at the time of first installation and can be used if you change TV sets.



5.2.2. TV OUT

The receiver can output RGB , CVBS and S-Video signal from the TV SCART on the rear panel. Although the RGB format results in a better quality picture, not all equipment can cope with an RGB signal.

5.2.3. VCR OUT

This allows you to select CVBS or S-Video output from the VCR SCART socket. The receiver can output SVideo and CVBS signal from the VCR SCART on the rear panel.

5.2.4. FAVOURITE MODE

This function enables or disables the 5 favourite channel list mode by pressing “◀/▶” buttons and press **OK** . IF a favourites list exists it will switch to the list number selected. If there is no favourite listing, a warning message is displayed.

5.2.5. CHANNEL LIST

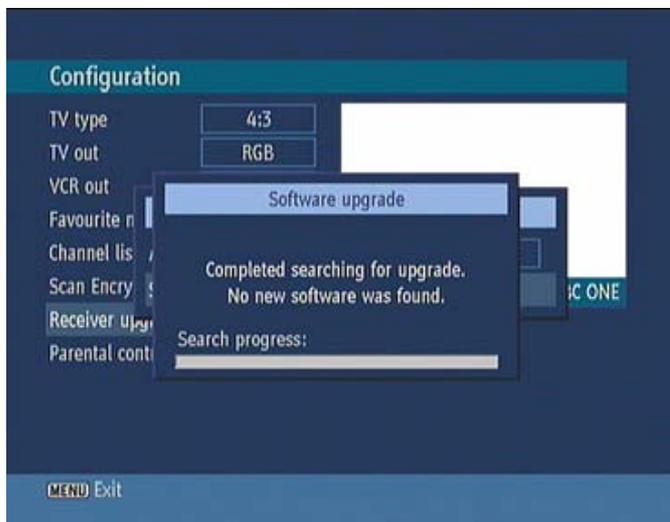
Use “▲/▼” buttons to go to Channel List option. Use “◀/▶” buttons to toggle Channel List Mode. If you select “TV Only”, with the **PR+/PR-** buttons, you navigate through only TV channels. If you select “Radio Only”, with the **PR+/PR-** buttons, you navigate through only radio channels. If you choose “Show All” all, channels can be navigated with the **PR+/PR-** buttons. To save the recent changes and exit; press the **MENU** button.

5.2.6. SCAN ENCRYPTED CHANNELS

Use “▲ / ▼” buttons to go to the Scan Encrypted Channels option. Use “◀ / ▶” buttons to toggle YES or NO the searching for encrypted channels.

5.2.7. RECEIVER UPGRADE - OAD

Over Air Download (OAD): To ensure that your STB always has the most up to date information. Please ensure that after use it is set to its standby mode. The STB automatically powers up at 3.00 A.M. each day and searches for any new information which may be broadcast and will download this to your receiver automatically. This operation will normally take approximately 30 minutes. If you have an important recording to make at 3.00 A.M. which must not have a 30 minutes interrupt then you can disable the auto OAD search by performing the following:



- Press Menu button and using the “▲/▼” buttons to choose Setup and press the OK button.
- Highlight Configuration menu with “▲/▼” keys and pres OK.
- Use “▲/▼” buttons to choose "RECEIVER UPGRADE" and press OK button.
- Using the left / right button change “Automatic scanning” from Enabled to Disabled.
- Highlight “Scan for upgrade” menu with “▲/▼” keys and pres OK to commence upgrade.

Do not forget to re enable the automatic OAD function after you have made your recording by repeating the above instructions but this time selecting ENABLE.

5.2.8. PARENTAL CONTROL

Use “▲/▼” buttons to go to Parental Control option. Press OK button to enter the menu. A box asking for the lock key is displayed. The key is set to “0000” initially. Enter lock key. If it is incorrect, "Wrong Pin" is displayed. If it is correct, the Parental Control Menu is displayed.



5.2.8.i. MENU LOCK

In menu lock you can set locking for All Menus, or the Installation Menu to restrict access to these menu's. If the menu lock is disabled, there will be free access to the menu system. Use “▲/▼” buttons to go to Menu Lock option. Use “◀ / ▶” buttons to choose Menu Lock Mode.

DISABLED : All menus are unlocked.

ALL MENUS : All Menus are accessible only with the correct lock key. So the user can't add, delete, rename, channels, can't set timers.

INSTALLATION MENU : Installation menu is locked. So the user can't add channels. Changes will be updated after exiting 'Configuration Menu'.

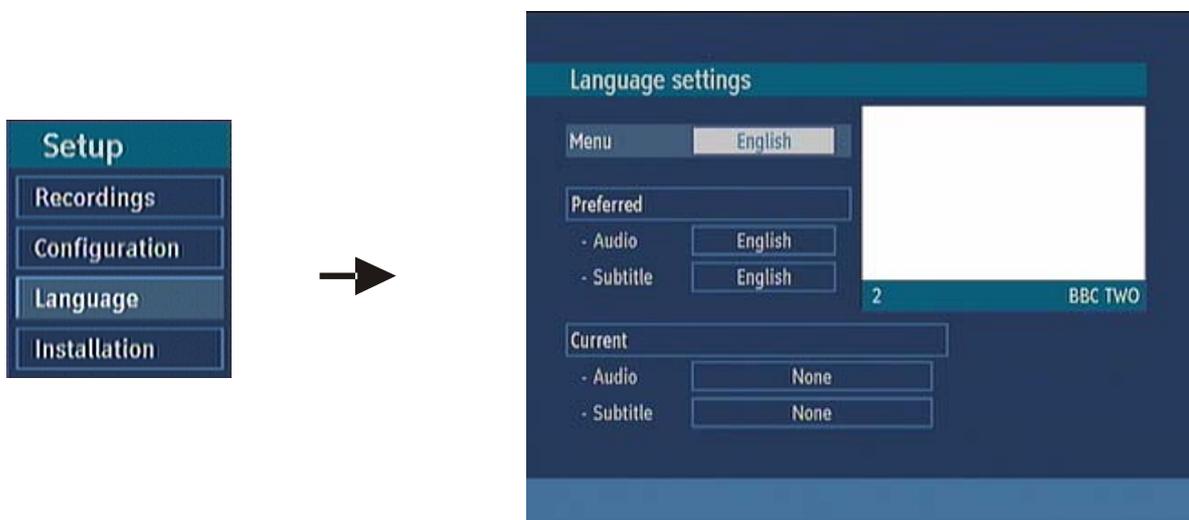
5.2.8.ii. SET PIN

The PIN code of the unit changed. Use “▲/▼” buttons to go to “Set PIN” option. Press OK to display the “Set PIN” window. Use NUMERIC buttons to enter new pin number you will need to input your new pin a second time for verification purposes. If Both pin numbers are four digits long and the same, the pin will be changed.



5.3. LANGUAGE

In this menu the user can adjust the preferred language. Language is changed by pressing OK key.



System: shows the language of the system

Preferred

These settings will be used if available. Otherwise the current settings will be used.

- **Audio:** by pressing “◀ / ▶” keys change the audio language.
- **Subtitle:** alter the subtitle language with “◀ / ▶” keys. The chosen language will be seen in subtitles.

Current

- **Audio:** if audio language is supported change the audio language by pressing “◀ / ▶” keys
- **Subtitle:** if subtitle is backed up alter the subtitle language with “◀ / ▶” keys. The chosen language will be seen in subtitles.

NB.: This menu is intended for dual language transmissions. This product is not designed to resolve “English (Visually Impaired)”.

5.4. INSTALLATION

5.4.1. AUTOMATIC CHANNEL SCAN

Automatic channel scan is activated by selecting OK when the line is highlighted. A pop-up menu appears on the screen, select “YES” the automatic scan begins. All the multiplexes are searched and a channel table is created automatically. All channels found are stored in a sorted form with respect to their channel numbers. Selecting “NO” will cancel the operation.



5.4.2. MANUAL CHANNEL SCAN

In manual search the number of the multiplex is entered manually and only that multiplex is searched for the channels. In manual and auto search, any existing channel in the database is not re-stored to avoid redundant duplicates of that channel. To start the scan enter the channel number manually and press OK.

5.4.3. FIRST TIME INSTALLATION

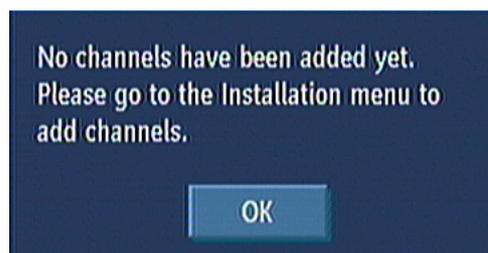
Use this option to load default settings, which had been set at the factory. To install factory settings, highlight 'First Time Installation' menu and press OK key, then you will be asked to confirm deleting all channels and settings. Selecting YES and pressing OK will delete the channel table. Selecting "NO" and pressing OK will cancel the operation.

6. MESSAGES

When the box receives no signal (e.g. the antenna cable is disconnected), "NO SIGNAL" message is seen on the screen.



When there are no channels stored in the box; the Channel List menu is not accessible. Channel navigation is not allowed. Therefore, trying to enter these menus or navigate the channels will display an error message on the screen.



7. SPECIFIC FUNCTIONS OF REMOTE CONTROL

When there is no menu active on the screen, each of the keys have specific functions.

OK KEY: when OK key is pressed Channel list appears on the screen.

RECORD KEY

The programs are recorded at once. 

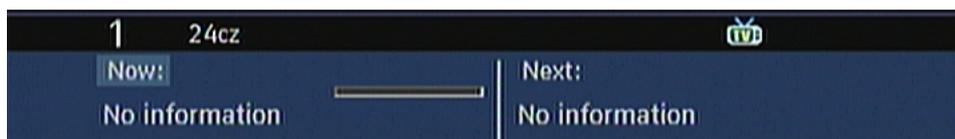
- Record time is obtained from EPG automatically. If the program has EPG information, you could set the timer. If there is no EPG info, press the Record button to set the timer in 30 minutes periods.
- In EPG by pressing the record key, programs are recorded instantly.

LIB KEY: by pressing this key, you will get to the Recordings Library, which shows you the details of your saved recordings. By pressing it again, you will exit the Recordings Library.

SUBTITLE : subtitle key shows/hides subtitles of channel. When the subtitle key is pressed, subtitle ON/OFF message is displayed.

INFO KEY

When INFO key pressed, and when changing channels the information window is displayed on the lower part of the screen. The small bar indicates the program duration. On the channel info window there are



- Current event name next event name, and their start and end times.
- Program duration bar
- Program mode (TV or Radio)
- Channel number
- Name of the channel

The second press of the info button brings up a box containing a brief description of the currently viewed programme.

You can now use the > button to change the programme description to that of the next programme on the current channel.

PR+ / PR – (CHANNEL NAVIGATION)

There are two ways to navigate through the channels:

- Pressing PR +/ PR - keys will take you to go to the next or the previous channel in the list.
- Pressing a number key will activate a small digit entry window on the left upper corner of the screen. After a digit is entered, the box will stay for 2 seconds while you enter another digit. If no digit is entered during these 2 seconds, then the box will switch to the entered number channel. If a number that is greater than the maximum number of channels is entered, the box will switch automatically to the last channel.
- Press OK button to display the channel list.

VOLUME CONTROL

The volume level of the sound from the receiver can be altered with the VOL+ and VOL- keys on the remote control handset. Pressing either key displays a bar graph of the sound volume on the TV screen. The volume level selected will remain set, even when the receiver is turned off and on again, until it is altered with VOL + and VOL - keys. The audio volume adjustment for the receiver is independent of the volume control on your TV set. Be careful that both volume controls are kept within reasonable levels so that when switching from analogue to digital television viewing, or when first turning on your TV set, the sound level is not too high.



You can silence the sound from the receiver by pressing the MUTE key. The sound remains muted until the MUTE key is pressed again, the VOL + or VOL- keys are pressed. While the sound is muted in this way, the mute symbol is displayed in the top left of the TV screen. The symbol is removed after 3 seconds, but the sound will remain muted until the MUTE key is pressed for the second time and the mute symbol will display for 3 seconds.



PIP (PICTURE-IN-PICTURE)

Enables / disables PIP window.

- **PIP +:** next channel in PIP window.
- **PIP - :** previous channel in PIP window.

NOTE: PIP is only available when LOOP THROUGH is connected. (Please see page connection diagrams)

SWAP

Main window and PIP window change their places.



TIME SHIFTING (PAUSE LIVE RECORDING)

Pause Live Recording is a feature that enables you to pause a live broadcast if, say the phone rings you can go back to the same spot that you were at when you left. The live broadcasting can be stopped

any time. Press PAUSE  button to suspend the broadcasting. In the INFO banner the timeshift will commence. The duration of Timeshift can be adjusted from Recordings in the Configuration menu (See 5.1.RECORDINGS). In order to stop the timeshift press PLAY, PAUSE or OK button. The paused recording can be watched in different speeds by means of



keys. To terminate the

Pause Live Recording press  button.



NOTE:

You can also use the PAUSE button on the front of the unit if you wish.

TEXT

Many digital terrestrial television channels not only broadcast pictures and sound for programmes but also pages of information on the programmes, the weather, news and many other topics. This digital teletext can be displayed by the receiver. Some channels are entirely given over to digital teletext and carry no normal TV programme at all.

These dedicated digital teletext channels will not give a quarter-screen image in the EPG or the Channel List screen. When such a channel is selected, after a brief pause, they will usually display the opening page of information automatically. Other channels have digital teletext pages broadcast alongside the television programme and often include a reduced-size broadcast picture within digital teletext pages.

These usually require the TEXT button to be pressed to activate the digital teletext pages. In both cases, moving through the different pages of information is accomplished in a variety of ways, dependent on the individual broadcasters, but including use of the “▲/▼/◀/▶” and [OK] keys to select items from on-screen menus, and the coloured keys to jump directly to particular pages.

You can exit teletext mode by pressing the TEXT button on the remote or by changing channel. Also if you call for the INFO bar or bring up a menu you will temporarily enter TV mode returning to TEXT mode when you cancel the menu or INFO bar.

You can exit any digital teletext channel by changing channel in any of the normal ways. You can leave the digital teletext function of a combined digital teletext/programme channel, to return to normal television viewing of that channel, by pressing the TEXT key. Calling for the information banner or any menu on-screen stops the receiver from displaying the digital teletext pages and they are temporarily replaced by a blank picture while the banner or menu is displayed. Digital teletext cannot be accessed when the Subtitles are enabled

WIDE

TV sets are available with screens of the standard (4:3) format and widescreen (16:9) format. When you first installed your receiver you specified the format of the connected TV (this can now be altered if necessary; see Configuration). Digital terrestrial television broadcasts are also made in both standard and widescreen formats. In particular, films and dramas tend to be broadcast in widescreen format to closer emulate the cinema experience, but some programmes such as news bulletins are 4:3. To help get the most from both TV set and programme when a widescreen film is watched on a standard TV, or a standard broadcast is viewed on a widescreen set, the receiver includes the WIDE key. So long as

the receiver has been correctly set up for the TV set connected, a widescreen programme will always be displayed correctly on a widescreen set, and a standard format programme will correctly fill the screen of a standard format TV.

With a widescreen TV set displaying a standard format programme the WIDE key switches between displaying the picture with black bars down the sides, and enlarging the picture so that it fills the whole width of the screen but the top and bottom are cropped off. With a standard format TV displaying a widescreen programme, the WIDE key switches between displaying the picture with black bars at the top and bottom of the screen, and filling the whole height of the screen but cropping the sides off according to instructions broadcast with the programme (called 'pan and scan'). The effect of the WIDE key on the picture display is cancelled by pressing WIDE again.

NOTE:

Sometimes the TV will automatically try and compensate for an incorrect screen format, in this instance set the tv to the correct format whilst viewing the programme.

8. TROUBLE SHOOTING GUIDE

Problem	Possible Reason	What to do
The Led indicator does not glow	Mains cable is not connected	Check if the main cable is not plugged into the power socket.
No picture or sound	No signal or weak signal.	Check the Aerial and scart connections
The settings you have made in the menus have not been changed.	The digital set-top box was unplugged without first going to standby.	Before unplugging your digital set-top box, make sure it is in standby
The remote control is not working.	The digital set-top box is in Stand by.	Press the standby key.
	Remote control is incorrectly aimed.	Check if anything is obstructing the front panel .
	Battery exhausted.	Change the batteries
Password forgotten.		Take contact with the nearest service center.
Record does not start.	No or weak Aerial 2 input Signal.	Check Aerial 2 input connection.
No PIP video.	No or weak Aerial 2 input Signal.	Check Aerial 2 input connection.
	PIP Channel is radio or teletext based.	Use PIP+ / PIP- to choose a valid TV channel.

9. TECHNICAL SPECIFICATIONS

GENERAL CHARACTERISTICS	
Supply Voltage	220 - 240 V AC ~ 50Hz
Input Frequency	470 Mhz-862 Mhz
Maximum Power consumption	21 W
Standby Power Consumption	11.7 W
Operating temperature	5°C to +45°C
Storage temperature	-15°C to +55°C
Humidity	25 to 75 % rel
Physical dimensions	360x280x48 mm
Weight	2.80 kg
HARDWARE CONFIGURATION	
Main Processor	STM5100
Flash Memory	4 MB
DDRRAM	64 MB
DIGITAL CAPABILITIES	
Transmission Standards	DVB, MPEG2
DEMODULATION	
COFDM	with 2K/8K FFT mode.
FEC	for all DVB Modes.(Automatically found)
VIDEO	
ALL MPEG-2 MP@ML Video Decoder	
Aspect Ratio	4:3, 16:9 with pan vector
RGB analogue outputs.	BW ≥ 5MHz at 0.5 to 5 MHz sweep signal
CVBS analogue output.	
AUDIO	
MPEG1 Layer 1 and 2	
Sampling frequencies supported	32 kHz, 44.1 kHz or 48 kHz.
Output can be programmed as STEREO, LEFT only or RIGHT only (on both outputs). This is useful for dual mono channels in order to select the correct sound track, which is stored for every channel.	
Wide dynamic range	16-bit resolution

REMOTE CONTROL	
Operating Distance	10m Max.
Batteries	2x1.5V Micro (R-03/AAA)
TUNERS	
2 xRF In	IEC-type, female (75Ohm)
2 x RF Out (loop through)	IEC-type, male (75Ohm)
HARD DISK	
Hard Disk capacity	160 GB
FRONT PANEL	
Display	VFD
Front Panel Control Keys	Standby ON/OFF, Record, Play/Pause, Menu, OK, Menu Up/Down/Left/Right.
AUDIO R / L	
Connector	2 x RCA (R + L)
Output	2 Vrms, 0 dBfs / Z = 10 kohm
DIGITAL AUDIO	
Output	Optical SPDIF
A / V & DATA IN / OUT	
Scart	TV scart, VCR scart
RGB Video Output	TV scart
RGB Video Input	VCR scart
CVBS Video Output	TV scart, VCR scart
CVBS Video Input	VCR scart
Analog Audio Output	TV scart, RCA jack , VCR scart
Analog Audio Input	VCR scart
Digital Audio Output	Optical output
Data Interface	RS232 (max 115200 bps), 9Pin

* Any changes in the Instruction Manual format is reserved.

10. UK GUARANTEE

Your Guarantee of Excellence

Thank you for purchasing this Hitachi product

In the unlikely event that this product should develop a fault, we undertake to replace or repair any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that:

- I) The product has been installed and used only in accordance with the instructions supplied with the product.
- II) The product has not been repaired, maintained, or modified by any person other than a Hitachi authorised engineer.
- III) The product serial number has not been removed or altered.

This guarantee does not apply to product acquired second hand or for commercial or communal use.

This guarantee does not cover the replacement of exhausted batteries, the adjustment of user controls, or head cleaning and general consumer maintenance tasks.

Any parts replaced under this guarantee shall become the property of Hitachi Europe Ltd. Any claims made under guarantee must be directed to the dealer from whom the equipment was originally purchased.

Please note that evidence of the date of purchase will be required before any service under this guarantee is carried out.

THIS GUARANTEE DOES NOT AFFECT YOUR STATUTORY RIGHTS.

IN ALL CASES OF DIFFICULTY PLEASE CONSULT YOUR HITACHI DEALER

11. IMPORTANT NOTICE:

DIGITAL SWITCHOVER AND YOUR TV EQUIPMENT

WHAT YOU NEED TO DO TO ENJOY WATCHING TV DURING AND FOLLOWING DIGITAL SWITCHOVER

Starting in 2008* and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

To continue using this digital TV equipment during and following digital switchover, you will need to “reset” your digital TV channels.

Users of this digital TV product must reset their channels on at least 2 different occasions, normally 1 month apart when switchover happens. Digital UK, the body leading digital TV switchover, and broadcasters will advise you when to reset your channels on each occasion.

If you do not reset your channels, you risk losing some or all of your TV services during and following switchover.

Please refer to the instruction manual supplied with your digital TV equipment for help with resetting channels. Some manufacturers refer to resetting channels as “rescanning” channels or “retuning”.

Please note that in order to receive the maximum number of available TV services on your equipment you must “reset” channels, not “add” channels.

For more information about this, please contact your equipment supplier or visit www.digitaluk.co.uk.

* With the exception of Whitehaven in Cumbria and the surrounding area which will switch over in October 2007.

The FREEVIEW service is subject to coverage. An aerial upgrade may be required. Freeview Playback™ and Logo™ © DTV Services Ltd 2002. Freeview is marketed by DTV Services Limited trading as DTVSL, registered number 4435179

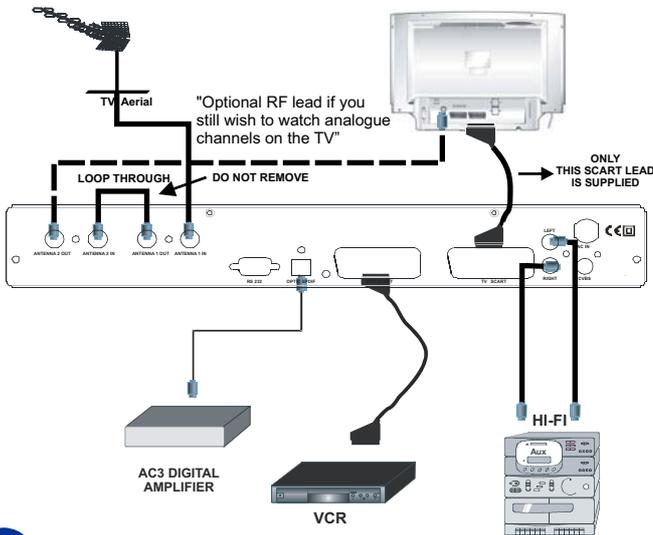
1 BEFORE YOU START

This Digital TV Recorder (DTR) can only receive and record Digital Terrestrial TV (Freeview) signals. Please check that you are in a Digital TV reception area. The FREEVIEW service is subject to coverage. An aerial upgrade may be required. FREEVIEW TM and logo © DTV services Ltd 2002. To check FREEVIEW coverage in your area now text your postcode to 83331 for a reply in seconds (standard network charges apply), telephone 08708 80 99 80 or visit www.freeview.co.uk Please check that all the following accessories are included and then insert the batteries in the remote control, ensuring that they are the correct way round.

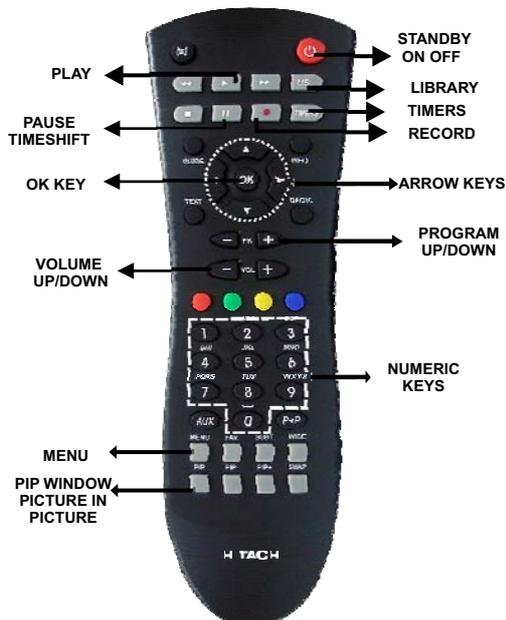
Accessories:

- 1 Remote Control & 2 x AAA batteries
- 1 Operation Manual
- 1 Scart Cable (21 pin cable)
- 1 RF Cable

2 CONNECTION



3 REMOTE CONTROL



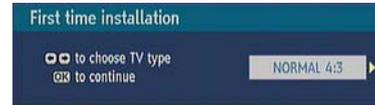
4 GETTING STARTED

Connect all cables before plugging in to mains. When the set-top-box is first powered up please wait for a while before activating the receiver since booting of software will take

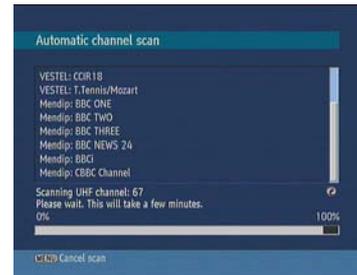
some time. Then, you can turn on your digital set-top box by pressing the **STANDBY** button on the remote control.

5 FIRST TIME INSTALLATION

➤ Set the TV type with “←/→” keys and press OK. You can select Normal 4:3 or Widescreen 16:9 if you have a widescreen TV.



➤ Automatic channel scan window appears and the unit starts to search for channels.



6 MAIN MENU

Main menu is accessed by pressing the **MENU** key on the remote control.

➤ Navigate with “↑/↓” keys among the menus and press **OK** to activate menus.

➤ The Channel List, Electronic Programme Guide, Timers, Recordings Library and Setup menu are achieved from main menu.

➤ Press **BACK** to abandon the menu without saving the changes. Press **MENU** button to save the changes and exit. In all menus, there is an Infobanner at the bottom of the screen. These are functions that can be applied in the menu.



7 CHANNEL LIST

Channel list is the place where the channels are managed. The following operations can be performed in this menu:



- Navigating channel list
- Deleting channels
- Renaming channels
- Setting favourite list
- Adding locks to channels

8 SETUP

The entire settings and configuration of the unit is adjusted in SETUP window. To activate setup window in main menu press **OK**, when it is highlighted. Setup window appears on the screen. Navigate in the window by means of “**▲/▼**” keys.



9 RECORDINGS

RECORD WITH SINGLE KEY

NOTE: The HDR161 has two tuners so you can make a recording of one digital channel and watch a different digital channel on the TV.

- To record a programme simply press the RECORD key
- The recording time of the programme will be automatically obtained from the Electronic Programme Guide (EPG).
- It is also possible to record a programme in the EPG by selecting it and pressing the RECORD button

ADD RECORDS VIA TIMERS

Programmes can also be recorded by means of “Timers” menu. Select “Timers” from Main Menu and press OK.

- Press YELLOW button to add a new recording.
- Select what you want to record.
- Press GREEN button to store it.
- When the programme starts it will be automatically recorded.



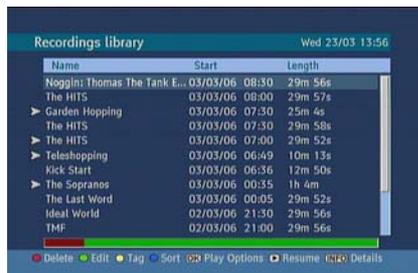
RECORDINGS LIBRARY

All the recordings are kept in “Recordings library”. To show the list of recordings press either LIB. button or access it from main menu.

Red bar: Indicates the space used on the Hard Disk.

Yellow bar: Yellow bar shows how much space has been set for timer recordings.

Green bar: Shows the free space on the hard disk.

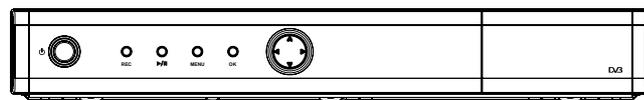


PAUSE LIVE RECORDING

This feature allows you to freeze a programme if you need to leave the TV for a while and resume watching the programme from the same point when you return. Simply Press the (pause) button and the HDR161 immediately start to record the programme being watched. When you return simply press the (pause) key again and it will start replaying whilst continuing to record. At the end of the programme press the stop button.

Model
HDR161

DIGITAL TERRESTRIAL TV RECEIVER / RECORDER



QUICK START GUIDE

Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

HITACHI

Inspire the Next

Hitachi Ltd.

Consumer Business Group

Shin-Otemachi Bldg 5f, 2-1, Otemachi 2-Chome,
Chiyoda-Ku, Tokyo 100-0004 Japan

HITACHI EUROPE LTD.

Consumer Affairs Department

PO Box 3007

Maidenhead

Berkshire SL6 8ZE

UNITED KINGDOM

Tel: 0870 405 4405

Email: consumer.mail@hitachi-eu.com

HITACHI EUROPE S.A.

364, Kifissias Ave. & 1, Delfon Str.

152 33 Chalandri

Athens

GREECE

Tel: 210 6837200

Fax: 210 6835694

Email: dmgservice.gr@hitachi-eu.com

HITACHI EUROPE GmbH

Munich Office

Dornacher Strasse 3

D-85622 Feldkirchen bei München

GERMANY

Tel: 089-991 80 - 0

Fax: 089 - 991 80 - 224

Hotline: 0180 - 551 25 51 (12ct/min.)

Email: dmg-mun.service@hitachi-eu.com

HITACHI EUROPE S.A.

Gran Via Carles III, 86 Planta 5^a

Edificios Trade - Torre Este

08028 Barcelona

SPAIN

Tel: 93 409 2550

Fax: 93 491 3513

Email: atencion.cliente@hitachi-eu.com

HITACHI EUROPE S.r.l.

Via T. Gulli, 39

20147 MILANO

ITALY

Servizio Clienti

Tel. 02 38073415

Email: customerservice.italy@hitachi-eu.com

HITACHI EUROPE AB

Box 77

S-164 94 KISTA

SWEDEN

Tel: 08 562 711 00

Fax: 08 562 711 11

Email: csgswe@hitachi-eu.com

HITACHI EUROPE S.A.S

Digital Media Group

Cité Internationale

94 Quai Charles de Gaulle,

69463 LYON cedex 06

FRANCE

Tel: 04 72 14 29 70

Fax: 04 72 14 29 99

Email: france.consommateur@hitachi-eu.com

HITACHI EUROPE AB

(Norway Branch Nuf)

Strandveien 18

1366 Lysaker

NORWAY

Tel: 67519030

Fax: 67519032

Email : csgnor@hitachi-eu.com

HITACHI EUROPE LTD.

Benelux Branche Office

Bergensesteenweg 421

1600 Sint-Pieters-Leeuw

BELGIUM

Tel: 0032/2 363 99 01

Fax: 0032/2 363 99 00

Email : info@hitachi.be

HITACHI EUROPE AB

Egebækvej 98

2850 Nærum

DENMARK

Tel: 43 43 60 50

Fax: 43 43 60 51

Email : csgden@hitachi-eu.com

HITACHI EUROPE LTD.

Kodanska 46

101 00 Praha 10

CZECH REPUBLIC

Tel: 234 064 514

Fax: 234 064 513

Email: dmg.eeu@hitachi-eu.com

HITACHI EUROPE AB

Lars Sonckin kaari 16

FIN-02600 ESPOO

FINLAND

Tel: 010-8503085

Fax: 010-8503086

E-mail: info.finland@hitachi-eu.com

www.hitachidigitalmedia.com