DIGITAL INTERACTIVE TERRESTRIAL TV RECEIVER

i-CAN™ 2100T

USER MANUAL

mhp®

www.i-can.tv

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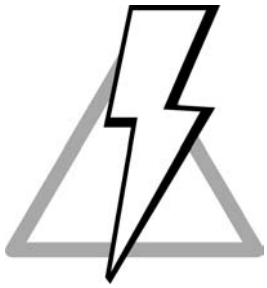
Safety First

This digital decoder has been manufactured to meet international safety standards. However, safety precautions must be followed to ensure the safe and reliable operation of the decoder. Please take note of the following guidelines.

To Avoid the Risk of an Electric Shock

- This decoder operates with an external power supply in the range of 100 to 240V AC, 50/60 Hz. Use a standard AC wall outlet; a DC power source cannot be used. Remember that contact with 110-240 Volts AC power supply can be lethal.
- Ensure that all electrical connections are properly made before connecting the decoder to the power supply. Always unplug the decoder before connecting or disconnecting any cables.
- Whenever you connect the decoder to the power supply, always connect the power lead to the power input connector on the back panel of the decoder before you connect the power brick to the wall socket outlet.



Removing cover of the decoder may lead to a severe & potentially fatal electric shock.

- Whenever you disconnect the decoder from the power supply, always remove the power brick from the wall socket-outlet before you remove the other end of the lead from the power input connector on the back panel of the decoder.
- Never attempt to repair or reconstruct the decoder yourself. A serious electric shock may occur if this decoder is repaired, disassembled or reconstructed by an unauthorized person.
- Be extremely careful if this unit comes into contact with water. Immediately disconnect the power brick if possible.

DO

- ✓ If anything falls into the cabinet, unplug the decoder and have it checked by a qualified technician.
- ✓ Allow adequate air circulation to prevent internal heat build-up. Do not place the unit next to a radiator or any heat source and make sure that the air vents are not covered.

DO NOT

- ✕ … expose the decoder to extreme temperature, direct sunlight or high humidity.
- ✕ … place any objects on top of the decoder which restrict air circulation.
- ✕ … place the decoder on fabric furnishings, carpets or other flammable materials.

Maintenance

If you wish to clean your decoder first disconnect it from the power supply. To clean the decoder, use a soft, dry cloth. For very dirty surfaces, dip a soft cloth in a weak soap-and-water solution and wring well. After cleaning, wipe with a soft, dry cloth. Never use alcohol, paint thinner, or a chemically treated cloth to clean this unit. Such chemicals may damage the unit's finishing.

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1 Introduction

About This Manual

This User Manual describes the overall functionality of your decoder (set-top box). You will find here all the information you need to get started. First, make sure that your decoder is properly installed. Next, pick up your remote control and follow the instructions in this manual. Once you have learnt how to operate the remote control and familiarized yourself with the main features of your decoder, you will need this manual only for reference.

About Your Decoder (Set-Top Box)

Using your digital decoder makes viewing easier, with much more information and guidance, and much more control over what you watch than any previous TV system.

Your decoder will allow you to do the following:

- see what programs are on all accessible channels,
- prevent your children from viewing unsuitable programs,
- display additional information pertaining to a selected program,
- download a selection of games or interactive services,
- sort channel lists,
- and much more.

Please be aware that from time to time software of your decoder may be automatically updated, and this new software can change the functionality of your decoder.

Please note that if you always want to have the most up-to-date software version and updated channels list on your decoder, it is advised to switch your decoder to standby mode if you are not using it.

2 Your Decoder

Unpacking Your Digital Decoder

As you unpack your digital decoder, please make sure that the following accessories are included:

- Remote control with separately packed batteries
- External power supply (power brick)
- SCART and RF coaxial cables
- Telephone modem cable
- Getting Started document

If any parts are missing, please contact your vendor.

Front Panel

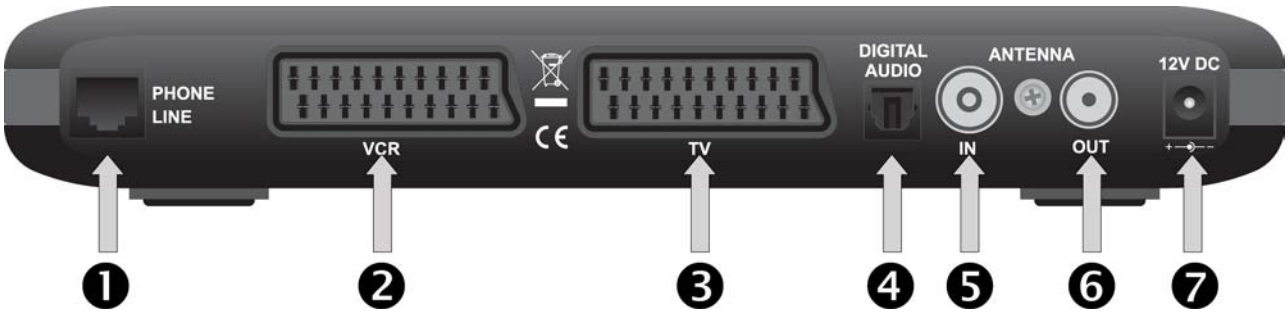
Indicator light

Blue – operating mode.
Green – flickers when receiving signal from the remote control.
Red – in standby, low power consumption.

Smart Card

Allows you to view scrambled TV and Radio channels.
Gently push the card into the slot. The chip should face downwards and the symbol of an arrow should face inwards.

Back Panel



1 – RJ-11 plug for connection of a modem to the phone line

2 – SCART for connection to the VCR

3 – SCART for connection to the TV

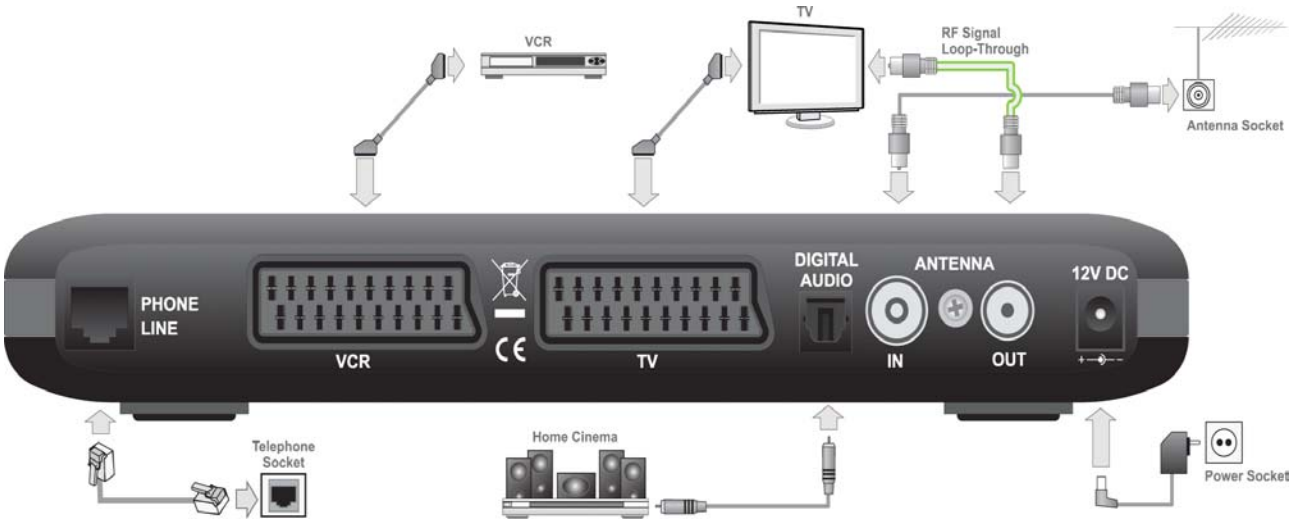
4 – Optical S/PDIF for AC-3 Digital Audio out

5 – Antenna signal input

6 – Output to TV for analogue TV programs

7 – DC Input from external power supply

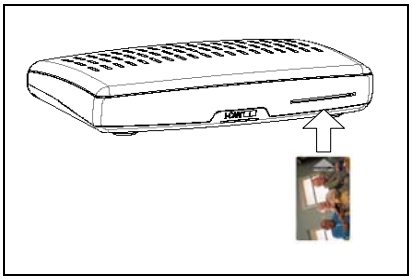
Connectivity Diagram



Smart Card

Your Smart Card

Smart Card allows you to view scrambled TV and Radio channels. Gently push the card into the slot. The chip should face downwards and the arrow symbol should face inwards. Without the smart card, you can view all free-to-air channels. More information about the card can be found in the Decoder Status submenu.



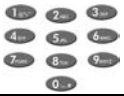
Inserting Smart Card

Looking After Your Smart Card

The card is fragile, so keep in mind the following precautions:

- Do not bend or twist the card
- Do not expose the card to heat or sunlight
- After inserting the card, leave it in the slot permanently
- Clean only with a soft dry cloth

Remote Control

Button	Action
	Switches your decoder between standby and the operating modes.
	The number buttons allow you to type your choice directly, for example channel numbers or a PIN.
	Mutes the sound. Pressing this button once again restores the previously set volume level.
	Press this key to change audio, subtitle and teletext language and display format, if possible.
	Increase / decrease audio volume.
	In viewing mode or in the Channel Banner, tune to the next/previous channel. In the Channel List, menu, or in Electronic Program Guide, scroll the channel list page up/down.
	Displays / leaves the menu system.
	Displays one of the channel lists. Pressing this button a second time hides both the Channel List and the Channel Banner. Select the channel you want to tune to then press .
	Displays the **Options** menu with the choice of subtitle languages for the current program.
	Displays the Electronic Program Guide for the currently tuned channel.
	Switches circularly between viewing mode, Channel Banner and Channel Banner with Extended Information.
	In Channel Banner, scroll channel information up/down. The decoder remains tuned to the current channel. In the menu, select menu items or options.
	In the Channel Banner, switches between current program information and next program information. In menu, select menu items or change parameters with predefined values.
	In the Channel Banner, tunes to the channel the Channel Banner refers to. In the menu, selects the currently highlighted menu item or confirms your choices made in the menu screens.
	In viewing mode or in the Channel Banner, alternates between the current and previous program within the same Channel List. In the menu or in the Electronic Program Guide, returns to the previous screen.
	Removes the Channel Banner, or Extended Information from the screen. In the menu system or Electronic Program Guide, returns to normal viewing.
	Color buttons are used to navigate through external MHP applications such as program guide, t-commerce, voting, etc.
	Displays the Applications window. Pressing this button a second time closes the Application window.
	This button is used to navigate through external MHP applications such as program guide, t-commerce, voting, etc
	Switches your decoder between the TV and Radio modes. Switching is performed circularly between the last TV channel selected and last radio channel selected.
	Displays the Options menu, which allows you to change the display format for the current program.

3 How to Set up Your Decoder

Welcome Screen

Once your decoder and any other equipment have been connected, plug both the TV set and the decoder to the mains and turn it on. Now you will see the Welcome screen on your TV screen. After a few seconds, the Language screen appears.

Welcome Screen

Select Language

The **Select Language** screen allows you to select the language for any information displayed on the screen. Press / to highlight the on-screen language, and then press OK to make a selection. Once you select the language, the confirmation screen appears.

Select Language

Channel Numbering Method

In this screen you can choose the way the channels are going to be numbered in the process of channel search.

If you choose **Automatic Channel Numbering**, the channels are going to be organized as the broadcaster ordered them (usually thematically).

If you choose **Normal Channel Numbering**, the channels are going to be numbered in the order they are found during the **Channel Search** process.

Channel Numbering Method

Channel Search

Once you select the numbering method and press OK, the channel search starts automatically. When this procedure is completed, you are informed about the total number of channels found. Then press the OK button to tune to the first TV channel.

If the channel searching procedure has not been concluded successfully, a respective error message appears. You can then press the OK button to go back to the **Select Language** screen or enter the menu system, where you will be able to access **Installation** and Help submenus. These and other parts of the menu system are described later in this manual.

Channel Search

4 Using Your Decoder

Turning Your Decoder On / Off

Switch on the TV set and any other connected equipment. Then switch your decoder on by pressing the button on the remote control. When you are not using your decoder, put it into standby by pressing this button again. The standby operation mode is indicated by the red light on the front panel. When the decoder comes out of standby, the last channel viewed appears.

Basic Rule “Point & Select”

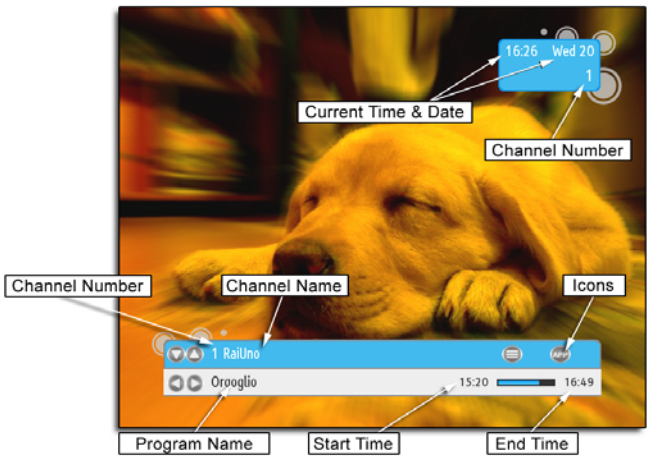
You only need to know one rule to use your decoder. This rule is called “Point and Select”. Once you master this rule, you can use any function of your decoder. You “point” by pressing the arrow buttons on the remote control or front panel. Pressing the arrow buttons moves the “on-screen” highlight to different items on the screen. Once you have pointed to an item on the screen, select it by pressing the OK button on the remote control.

Channel Banner

Channel Banner appears at the bottom of the screen when you tune your decoder to a new channel or when you press the INFO button.

It offers you basic information about individual programs and facilitates surfing through channels and programs. The Channel Banner disappears automatically after a few seconds or when you press EXIT.

Note that some Channel Banner information are only available in case of digital channels.

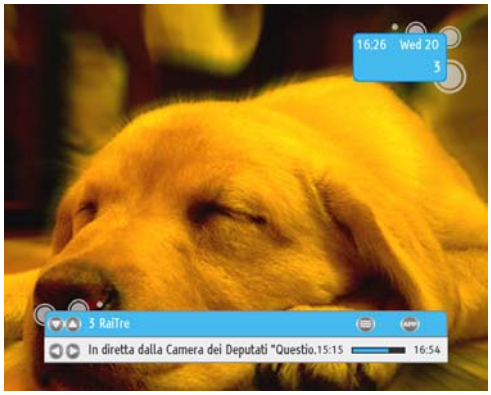


Channel Banner Icons

	Alternative audio languages are available for the current program.
	Channel Banner displays information concerning a locked channel.
	Extended information about a particular program is available.
	Pressing OK tunes to the channel that the Channel Banner refers to.
	Program is broadcast with surround sound.
	Recording reminder has been set for a particular event.
	Viewing reminder has been set for a particular event.
	The program is parentally locked.
	External applications are available on a particular channel.
	Teletext is broadcast on the currently tuned channel.
	Viewer has a choice of subtitles for the current program.
	Channel is scrambled.

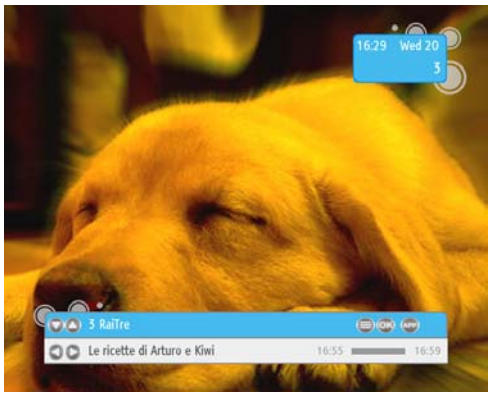
Selecting programs in the Channel Banner

The Channel Banner allows you to display information concerning the current program and the next program broadcast on the selected channel.



Current Program Information

- If the information displayed in the Channel Banner concerns the current program, the right arrow symbol appears to the left of the program name. Pressing the button displays information about the program that is broadcast next on the same channel.



Next Program Information

- If the Channel Banner displays information about the next program, the right arrow symbol is replaced with the left arrow symbol . Pressing the button then displays information about the current program on the same channel.

Selecting channels

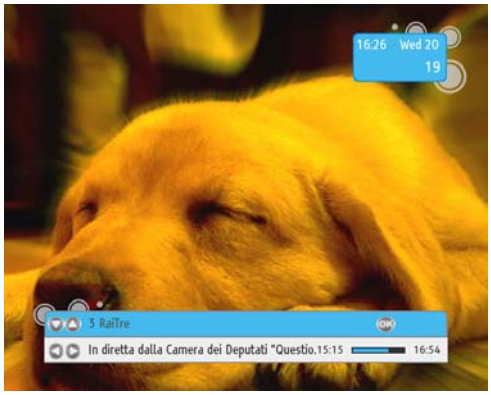
There are three different ways of changing channels.

- Press / to scroll through the current channels list. When you press , the Channel Banner displays information concerning the next channel. When you press , the Channel Banner displays information concerning the previous channel, but your decoder remains tuned to the current channel. If the Channel Banner displays information about the current program that is not broadcast on the currently tuned channel, the OK symbol appears. Pressing OK tunes to that program.

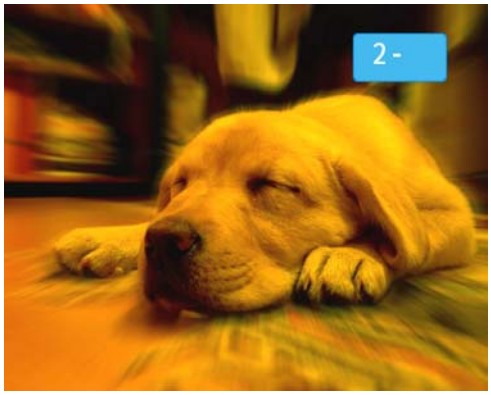
  - Please note that current channel name is in white and next/previous channel name is in black.

- When you press , your decoder tunes to the next channel. When you press , your decoder tunes to the previous channel.

- You can also select channels by entering their numbers directly. Once you press a number button, the channel number entry box appears in the upper right corner of the screen.



Channel Banner (Tuning to the Channel)



Channel Number Entry Box

Channel List

Your decoder gives you access to up to 7 TV channel lists and up to 7 Radio channel lists. In order to access the lists, press the LIST button on your remote control. After that you have access **All TV** list and and **All Radio** list. Use the TV/♫ button to switch between Radio and TV lists. If you defined your favorite lists, you can access them by pressing / buttons.

Creating your favorite lists is described in the **Channel Manager** section, later in this manual. Once you are in the desired channels list, select the channel by pressing / or number keys. Each time you highlight a non-current channel, the OK icon appears in the Channel Banner. To tune to this channel, press OK.

The Channel List allows you to work in browsing mode. In this mode, the decoder remains tuned to the same channel, while you browse through channels and programs.

Channel List

Options Menu

Press the OPTIONS button to gain access to the Options menu. This menu allows you to change the **Audio Language**, the **Subtitle Language**, the **Teletext Language** or the **Display Format** for the currently broadcast program (if available). Your new settings take effect immediately and they are remembered until the program ends. When the program ends, the settings revert to their default values.

Audio Language

If available, you can select any of the audio languages being broadcast. If any AC3 languages are available for the current program they are marked by the symbol.

Subtitle Language

If available, you can select among different subtitle languages. If you select **OFF**, no subtitles are displayed.

Teletext Language

If available, you can select among different teletext languages.

Display Format

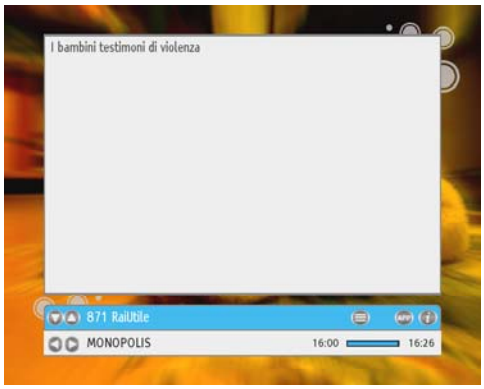
If you have a TV set with a 4:3 picture format, and the broadcast is in the 16:9 format (or the other way round), you can change the display format for the currently broadcast program. You have a choice of Letter-box, Pan-Scan, and Full Screen.

Options Menu

No Options Are Available

Extended Information About Programs

The icon displayed in the Channel Banner informs you that pressing the INFO button displays some additional information about the currently selected program. When you press INFO, the Extended Information window appears above the Channel Banner. Press EXIT or INFO to remove the Extended Information window from the screen.



Extended Info

Locked Channels

You can protect access to selected channels using your PIN code. For more information on how to lock channels see the **For Parents** section of this manual. All locked channels are marked by the icon in the Channel Banner. When you try to tune to a locked channel, the PIN entry box appears. Enter your PIN if you want to unlock the channel, or press EXIT and tune to another channel. When you enter the correct PIN code, the locked channel remains unlocked until you switch your decoder into standby mode and then into the operation mode again.

Locked Channel (PIN Code Box)

Running Interactive Applications

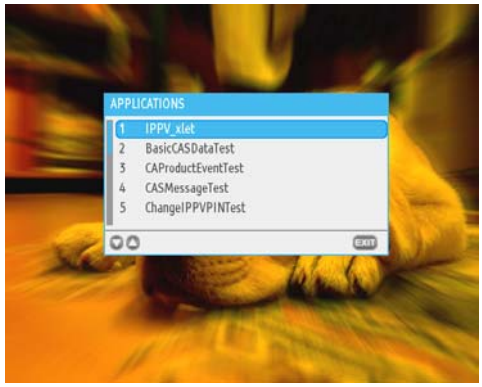
By default all interactive applications start automatically when tuning to a channel containing at least one application.

To prevent the applications from running go to **Display Options** in **Your Preferences** menu and change **Application AutoSTART** value to **No**.

Then, if there is an application to a channel you tuned to, the APP icon in the Channel Banner appears. In order to access a list of the applications simply press the APP button on your remote control. This brings up the Applications window. You can select any available application using the / buttons and confirm your selection by pressing the OK button.

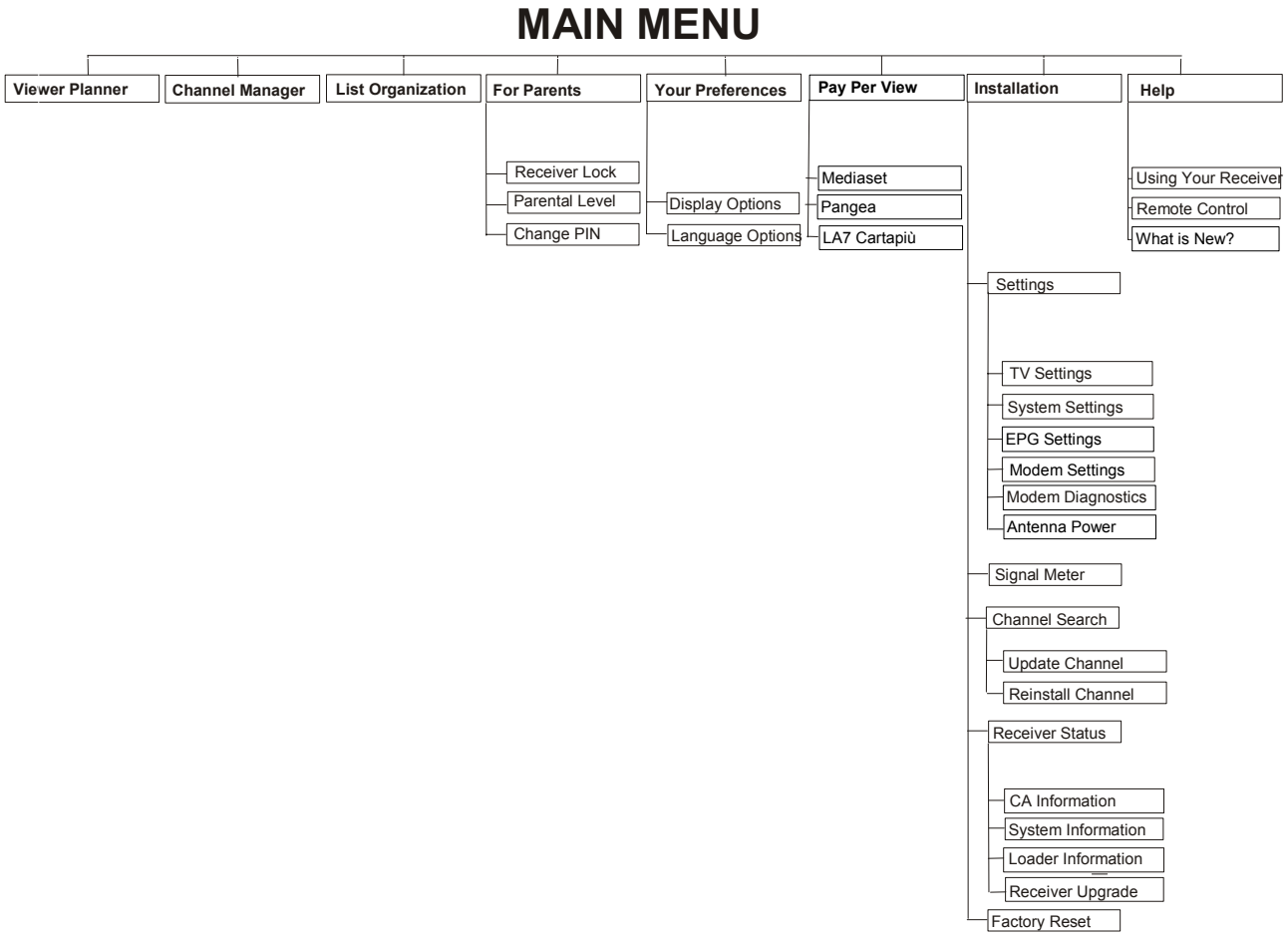
If you want to leave the running application, you can press the MENU button or simply change the channel with the / buttons.

- Note, that if the same application is available on a consecutive channel, changing to that channel does not end the application.



Interactive Applications Window

5 Main Menu



Your decoder offers a **Menu System** allowing you to change the way many of the features of your decoder operate.

To gain access to the **Menu System**, press the MENU button. To open one of the submenus, highlight the item using the arrow buttons and then press OK. To return to the **Main Menu** from one of its submenus, press the BACK button. To exit the **Menu System** immediately, press the EXIT button or MENU button again.

Main Menu window

Here is a short overview of the basic functions of the submenus

Viewer Planner

Gives you access to the **Recording Timers** and **Viewing Timers**.

Channel Manager

Allows you to modify channels. You can, for example, rename, move or skip channels.

List Organization

Allows you to organize your favorite lists.

For Parents

Allows you to lock/unlock an entire channel, change the current PIN code, and define lock of the decoder.

Your Preferences

Allows you to define **Your Preferences** concerning on-screen display as well as audio and subtitle languages.

Pay Per View

Allows you to purchase selected program or package of programs.

Installation

Allows you to set up your decoder, modem, search for existing channels, check status of the decoder, and restore the factory settings of your decoder.

Help

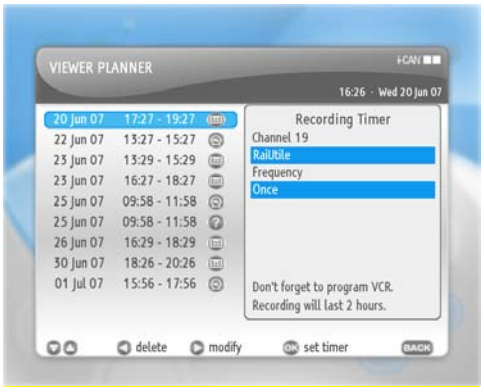
Gives you access to the help information concerning the basic functions of your decoder.

Viewer Planner

When you select **Viewer Planner** from the **Main Menu**, you get access to timers and reminders, which have already been set.

- **Timers** are the planned recordings you set up in advance.
- **Reminders** are the notifications set up in order to let you know about the programs you wanted to watch.

If there are no timers or reminders set, this can be done in this screen. Pressing OK brings up the **Setting A Timer** screen.



Viewer Planner

Setting a Timer

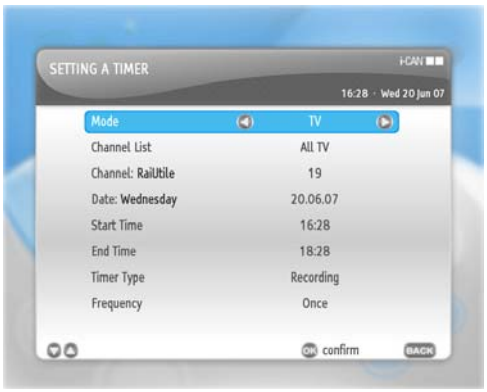
In the **Setting a Timer** screen current data is displayed such as: the current channel, current date and time. By pressing / , you can select the channel, date, start/end time, timer type and frequency. Using / buttons you can change the values. For channel, date and start/end time modification you can also use number buttons on your remote control. In Timer Type you may choose between **Recording** and **Viewing**. When you choose **Recording** then the timer is set, if you choose **Viewing**, then the reminder is set.

When you set all the values, press OK.

If you chose **Recording** (timer) you will be asked to enter a PIN code. It is used as a precaution in case there was an adult rated program within the period of time you set.

If the PIN code is correct and all the values are acceptable, the acceptance screen will appear. Pressing BACK returns you the **Viewer Planner** screen where the timer/reminder you set is shown.

- Note that you will also be asked for the PIN code before the reminder is accepted if the selected channel is locked.
- If you do not want to enter a PIN code each time you set a timer you may disable it in the **Receiver Lock** submenu in **For Parents**. See: **Receiver Lock** section.



Setting a Timer

Channel Manager

When you select **Channel Manager** from the **Main Menu**, you can define the content of individual channel lists as well as modify channels belonging to individual lists. The Modify option allows you to perform a number of operations relating to channels belonging to the currently selected channel list.

Channel Manager

If you choose **All TV** channel list you can: **Move**, **Skip**, **Rename**, and **Hide/Restore** channels.

If you choose one of your favorite lists you can: **Add**, **Lock**, **Move**, **Skip**, **Rename** or **Delete** channels.

Add Channels

You can make up to 6 TV and up to 6 Radio favorite channels lists. Once you are in the **Channel Manager** menu, select either TV or Radio mode. Next select the favorite list you want to add channels to, and press OK. You will see two lists: All your TV/Radio channels on the left and an empty favorite list. To add a channel to the favorite list, simply highlight the channel and press OK. The selected channel appears on your favorite list. You can add all the channels at once pressing the LIST button. When your list is ready, press the BACK button to save it. You can press (red) button to change transparency of the lists.

Add Channels

Move Channels

You can change the order of channels within the **All TV** and your favorite channel list. This order is retained in the Channel Banner mode.

To move channels in **All TV** list, in **Channel Manager** select the **All Channel** list and **Move Channels** option. In the next screen select the channels you want to move - highlight a channel using the / buttons, then press the OK button. The icon will appear next to the selected channel. Press the / buttons until the channel reaches the desired position and then press the OK button to confirm. The channels will swap places.

Move Channels – All TV

To move channels in one of your favorite lists, select your favorite list (e.g. Fav1) in **Channel Manager** and **Move Channels** option. In the next screen take similar steps to the ones in moving channels in **All TV** list. There are, however, two differences: the icon indicating change is , and the channels do not swap places - the channel is inserted in the chosen place.

Move Channels – favorite list

Rename Channels

In the **Rename Channels** submenu you can change names of channels within the channel list. Using the / buttons select the channel you want to rename, and then press the OK button. This opens the virtual keyboard. The name of the channel appears in the box on the top. You can switch to the keyboard (and back) by pressing . Besides standard characters, you can change the letter case by pressing the SHIFT key on the keyboard. You can also change the writing mode to Overwrite (OVR) or Insert (INS). Once you change the name press the OK button if you are in the name box, or hit ACCEPT on the keyboard, to save the change.

Rename Channels

Skip Channels

In the **Skip Channels** submenu you can select the channels you want to skip when changing channels. Using the / buttons select the channel you want to skip, and then press the OK button. The icon appears next to the selected channel. If you want to unmark the skipped channel, highlight the skipped channel and press the OK button. The icon disappears.

Skip Channels

Lock Channels

In the **Lock Channels** submenu you can select the channels you want to lock. Using the / buttons select the channel you want to lock, and then press the OK button. The icon appears next to the selected channel. If you want to deselect the locked channel, highlight the locked channel and press the OK button. The icon disappears.

Lock Channels

Delete Channels

In the **Delete Channels** submenu you can select the channels you want to delete from your favorite list. Using the / buttons select the channel you want to delete and then press the OK button. Afterwards you are prompted to confirm, and then the channel is deleted from the list.

Delete Channels

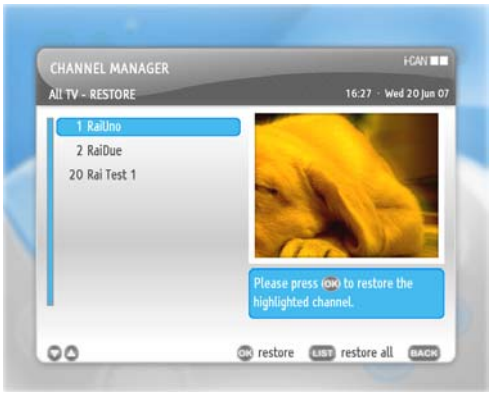
Hide Channels

In the **Hide Channels** submenu you can select the channels you want to hide in the **All TV** list. Using the / buttons select the channel you want to hide and then press the OK button. Afterwards you are prompted to confirm, and then the channel is hidden from the list.

Hide Channels

Restore Channels

In the **Restore Channels** submenu you can bring back the hidden channels from the **All TV** list. Using the / buttons select the channel you want to restore and then press the OK button. Use the LIST button to select all channels on the list to be restored and press OK. Afterwards you are prompted to confirm, and then the channels is restored to the TV/Radio list.



Restore Channels

List Organization

When you select **List Organization** from the **Main Menu**, you will be able to manage your favorite lists. You can **Rename**, **Reorder** or **Delete** any of the lists. You can switch between Radio and TV lists by pressing the LIST button. Using / buttons select the task you want to perform and press the OK button. Renaming, reordering and deleting is done in a similar manner as it was described for channels in the **Channel Manager**.

List Organization

For Parents

To gain access to this menu, you need to enter your PIN code. The main aim of this menu is to restrict access to individual channels. It will allow you to set the **Parental Level**, change your PIN code and switch the **Receiver Lock On** or **Off**.

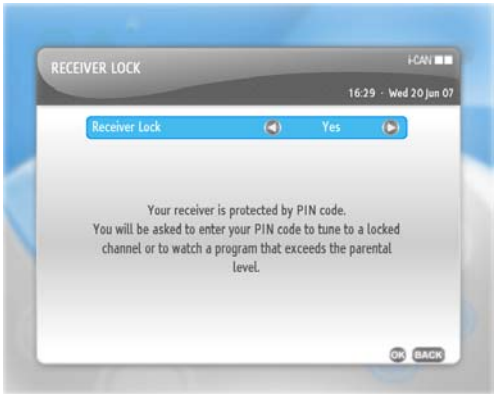
For Parents

Receiver Lock

The **Receiver Lock** screen contains only one option: **Receiver Lock**. If this option is assigned the **Yes** value, then access to the following operations is allowed only after the proper PIN code has been entered:

- Access to the **For Parents** submenu
- Access to the **Installation** submenu
- Unlocking previously locked channels
- Unlocking parentally locked programs
- Setting a timer

If you switch the **Receiver Lock** option to **No**, the operations listed above are no longer protected by the PIN code, even if there is a padlock icon on the banner (in case of locked channels) indicating otherwise.



Receiver Lock

Parental Level

This screen lets you define the parental control level in order to restrict access to programs with ratings that exceed the current level. By default, “18 Years” option is defined. You can select the **Parental Level** by pressing / buttons. The **Parental Level** is switched circularly from “No Parental Control”, “7 Years”, “14 Years”, and “18 Years”.

Parental Level

Change PIN code

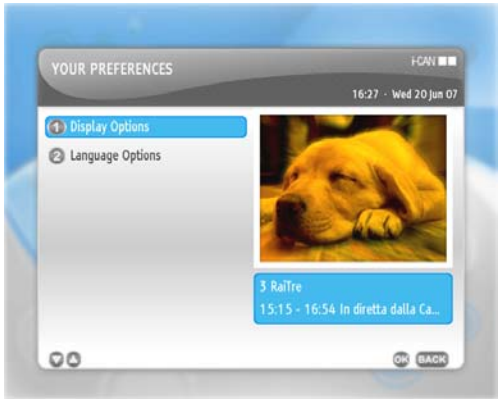
The **Change PIN Code** screen allows you to change your PIN code. You will be able to change the current PIN code only if you type in a valid PIN. You will have to enter your new PIN code twice for confirmation purposes.

Please keep your PIN secret. Also, choose a number that you can remember.

Change PIN code

Your Preferences

When you select the **Your Preferences** item from the **Main Menu**, you get access to the **Your Preferences** screen. This screen allows you to define your display and language preferences. Use the arrow buttons to highlight the item you are interested in, then press OK.



Your Preferences Submenu

Display Options

The **Display Options** screen allows you to define some options related to displaying information on the screen.

- **Time and Date** - blocks the current time and date from being displayed in the top left corner of the screen.
- **Channel Banner Duration** - specifies how long the Channel Banner remains displayed.
- **Volume Bar** - stops the volume bar from being displayed.
- **Transparency** - changes the transparency of the on-screen display.
- **Application AutoSTART** – here you can choose whether to start up the application immediately after tuning to a channel with the application. Setting the value to **Yes** starts the application automatically. Setting the value to **No** prevents the application from being displayed. **Yes** is chosen as default.
- **Radio Picture** - changes the background picture while a radio channel is selected.
- **Radio Label** - stops the radio label from being displayed.

Display Options

Language Options

The **Language Options** screen allows you to select options concerning on-screen language, preferred audio languages, preferred subtitling languages, and also teletext language. Your preferred languages are selected automatically in the viewing mode. If the first language is unavailable, the decoder uses your second choice.

Language Options

Pay Per View

When you choose **Pay Per View** item from the **Main Menu** list you will be able to buy a program or package of programs. In **Pay Per View** screen you can choose between the following services: **Mediaset Premium**, **Pangea** and **LA7 Cartapiù**. Please note that you need an active smart card to use this feature.

Pay Per View submenu

Installation

There should be no need for you to use the **Installation** menu, as your decoder should have been set up when it was installed. However, the **Installation** screens can be useful if, for example, you buy a new TV and you want to make sure your decoder makes the best use of its features.

The **Installation** menu allows you to do the following:

- change hardware configuration options
- configure modem
- perform the channel search procedure
- check the level and quality of the signal
- get some basic information concerning the system and loader
- download new software versions
- restore all factory settings of your decoder

Please note that selecting **Factory Reset**, restores all factory settings of your decoder. This means that any options that you have changed in the **Installation** submenu will be lost.

Installation Submenu

Settings

The **Settings** submenu consists of following items: **TV Settings**, **System Settings**, **EPG Settings**, **Modem Settings**, **Modem Diagnostics** and **Antenna Power**.

Settings Submenu

TV Settings

The **TV Settings** screen contains the following options: **TV Screen Format**, **Display Format**, **TV SCART Output** and **Video Standard**. Change the **TV Screen Format** setting, if necessary. You may also change the default **Display Format** value (Letter-box) to change the way the video signal is transformed if the broadcast aspect ratio is different than that of your TV. **TV SCART Output** lets you choose the format of the video output signal for TV. **Video Standard** should be set to the standard used in your country.

Read the descriptions that appear in the **TV Settings** screen before you make a decision.

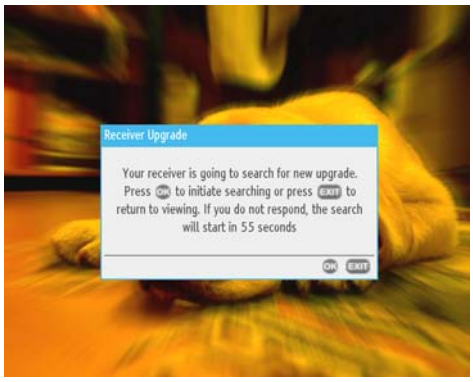
TV Settings

System Settings

The **System Settings** screen contains some of the configuration parameters you may change.

- **Default CA System** - The Conditional Access system you use.
- **VCR SCART Output** - Format of the video output signal for VCR.
- **Dolby Digital** - If you use a Dolby Digital receiver (Home-Cinema system), change the value of the Dolby Digital option to Yes.
  Note: If you set this option to **Yes**, when the broadcast carries Dolby Digital - no audio will be available through the TV & VCR outputs or L/R audio outputs of the decoder. The Dolby Digital bit stream (AC-3) will only be available via Digital Optical Out.
- **Auto Upgrade in Standby** - When you switch your receiver into the standby mode, the application checks whether a new software version is available. If the new software version is detected, you are informed about the availability of the upgrade once you have switched your decoder into the operate mode. However, you may switch the Auto Upgrade option to Yes. In this case, software of the decoder is upgraded automatically when the receiver is in the standby mode.
- **Auto Upgrade in Operate** - This option allows you to upgrade your decoder when it is in the operate mode. You can set the **Check Time** and **Check Repeat** of the upgrades search. At the specified time a window is shown informing you about that the search for upgrades is about to begin. The search is initialized if you press the OK button or after 1 minute. You can press EXIT button to cancel the search.
- **Check Time** – Here you can specify the time when you want your decoder to check for upgrades.
- **Check Repeat** – This option allows you to choose how often you want your decoder to repeat the check for upgrades.
- **Channel Numbering** – Displays information about the way the channels are numbered. This message is for informative purpose

System Settings



Upgrade In Operate

only and it cannot be modified.

EPG Settings

In this menu you can change EPG (Electronic Program Guide) settings. There are three options available: Auto Update Data, set Yes by default; Check Time, where you can define exact time when your decoder should check for EPG updates; Check Repeat, which allows you to define how often your decoder should repeat the check.

EPG Settings

Modem Settings

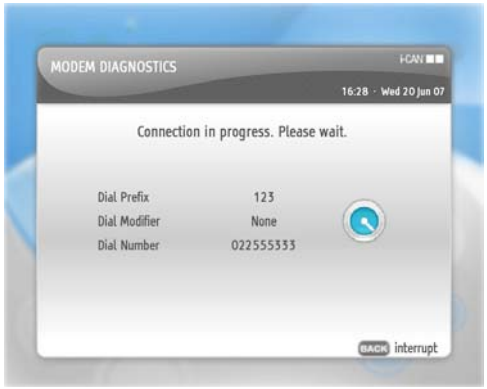
Your decoder is equipped with an internal modem. To set up your modem parameters use the remote number buttons and color keys presented in the help bar. If necessary the virtual keyboard can be opened by pressing the (red) button on your remote. If you want to delete characters in the entry box, press the (blue) button. Once you have set up your modem, press OK to confirm the settings.

- To learn how to use the keyboard, see: **Rename Channels** section in this manual.

Modem Settings

Modem Diagnostics

The **Modem Diagnostics** screen allows you to check the modem connection. If any problems are detected, the appropriate message is shown. When no problems are detected, you can check if the modem is connected by following the instructions on the screen.



Modem Diagnostics

Antenna Power

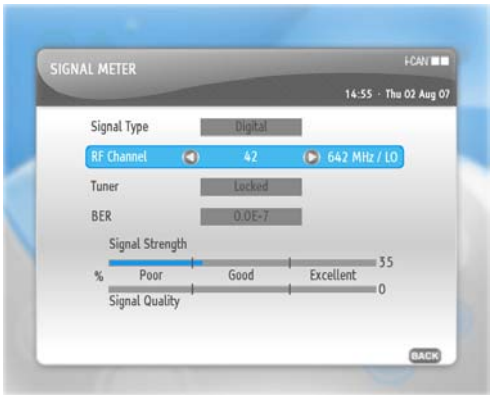
If you have an active antenna, which requires 5V power supply, you can adjust the settings of your decoder here. By default **Antenna Power** value is set to **Off**, which is set for passive antennas. If you have an active antenna change the value to **On**.

Note: if you have a passive antenna and change the **Antenna Power** to **On** a short circuit may occur. If you have an active antenna and leave the **Antenna Power** set to **Off** you may experience a low quality picture.

Antenna Power

Signal Meter

This screen displays the signal strength/quality as well as the BER value of the signal. The displayed data concerns the currently tuned channel. You may change the RF Channel to be monitored for the signal level/quality by pressing the / keys.



Signal Meter

Channel Search

Once you select the **Channel Search** item from the **Installation** submenu, you are prompted to decide whether you want to update your channel list or whether you want to reinstall your channel list.

- If you select the **Update Channel Lists** item, your channel lists remains intact. All newly found channels are added to the list you already have.

- If you select the **Reinstall Channels Lists** item, the whole bandwidth is scanned again and the existing channels are replaced with newly found ones.

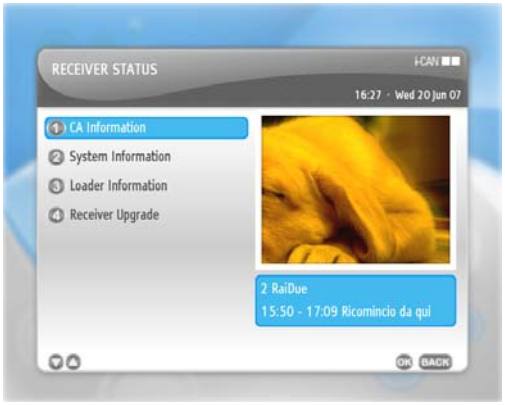
  - Please note, that when choosing Reinstall Channels Lists you will need to decide whether to apply **Automatic Channel Numbering** or **Normal Channel Numbering**. For more information, see: **Channel Numbering Method.**

Channel Search

Confirm your choice by pressing OK. Then the screen showing search progress appears (it is the same screen as in **Channel Search** done during the first running of the decoder).

Receiver Status

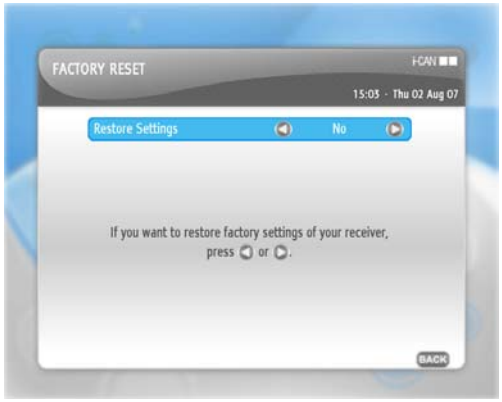
The **Receiver Status** submenu gives you access to **CA Information**, **System Information** and **Loader information**. The **Receiver Upgrade** function allows you to perform the receiver upgrade procedure, which downloads up to date software for your decoder with the latest improvements.



Receiver Status

Factory Reset

If you select **Yes** in the **Factory Reset** screen and press OK, the factory settings of your decoder are restored, and the first-time installation process is started (the Language screen appears).



Factory Reset

Help

The Help menu provides you with some basic information concerning your decoder's functions. Here you will find some information on how to use your decoder, your remote control, why you may need a PIN code, how to use reminders and timers and what interactive applications are. Apart from that in **What is New?** you will find listed recently downloaded upgrades for your decoder.

Help

6 Electronic Program Guide

The Electronic Program Guide gives you details of all broadcast programs (if available) up to seven days in advance. To get access to the Electronic Program Guide, press the EPG button. In EPG menu you can use the following buttons:

- / to navigate through options and programs within the menus,
- OK to confirm your choice,
- EPG to return to normal viewing,
- (red) to display the program guide,
- (blue) to see additional information about the program (if available),
- (green) to see the list of available paid events,
- (yellow) to enter the search mode to look for a program by categories (genre, time period, day, channel, and title).

Electronic Program Guide

7 Before Requesting Service

Before requesting service for your decoder, check the table below for a possible cause and solution of the problem you are experiencing. Some simple checks or minor adjustments on your part may eliminate the problem and restore proper operation. The most common problems are related to cable connections. Make sure that your decoder is properly connected. To ensure that all the cables are in their place, disconnect and connect them again. If remedies indicated in the table do not solve the problem, consult your vendor.

Installation issues	
Symptom	Remedy
Your decoder does not find channels.	▪ Adjust the antenna. ▪ Make sure that it is possible to receive digital terrestrial signal in your area. ▪ Make sure that the antenna you are using is adequate for digital signal reception. ▪ If you are using a directional antenna, make sure it is directed towards a digital TV transmitter. ▪ Using indoor antennas is not advisable, as digital channels will be hard or impossible to receive. Try switching to a standard outdoor antenna. ▪ Check the cable from the antenna. ▪ If you cannot resolve the problem easily you may need to have your antenna and installation tested by a professional.
General issues	
Symptom	Remedy
The standby indicator on the front panel of the decoder does not light up.	▪ Check if the power brick cable, SCART cable and antenna cable are correctly connected and the decoder is switched on. Disconnect these cables, and then reconnect them to ensure they are in place. ▪ Check that power is available at the wall socket.
The standby indicator on the front panel of the decoder is red.	▪ Your decoder is in standby, press the button on your remote control.
Your remote control fails to operate your decoder.	▪ Check the batteries in your remote control. ▪ Make sure your decoder is in the operate mode. ▪ Make sure that you are pointing your remote control at the front panel of the decoder. ▪ Make sure that there is no direct sunlight from behind of your decoder. ▪ There may be a temporary transmission error, or your decoder has lost some of its software settings. Switch it off at the power source

	and switch it on again after a few seconds.
No program broadcast has been recorded on your VCR.	▪ Check the connection between the decoder and VCR.
Electronic Program Guide (EPG) issues	
Symptom	Remedy
The EPG is empty.	▪ The selected program does not support EPG.
Audio & video issues	
Symptom	Remedy
The picture on your TV screen changes color. This may happen after a power-cut or after your decoder has been disconnected from the power source.	▪ Your decoder has lost some of its software settings. Switch it off and switch it on again after a few seconds. If the problem persists, contact your vendor.
Blocks appear in the picture on the screen.	▪ The signal is too weak or defective due to e.g. bad weather conditions. Try to adjust your antenna position or wait for the signal to be re-established.
Your TV screen is blank.	▪ If your decoder is in standby, press the button on your remote control (applies only if your TV set is in AV mode). ▪ Check that your decoder is connected to the power source and properly connected to your TV set. Check the TV SCART cable. ▪ Disconnect and then reconnect your decoder.
"Snow" appears on your TV screen.	▪ Your decoder is in standby. This is indicated by a red Standby indicator on the front panel. Press the button on your remote control. ▪ Some of the connections to your decoder may have worked loose. Check that your decoder is connected to the power source and correctly connected to your TV set.
The picture appears to be either "squashed" (form side to side or top to bottom) or cut off at the top and bottom of the screen.	▪ The Display Format in the Options menu has not been set to correspond with your TV. Try a different setting.
There is no sound.	▪ Check whether the Mute mode is active. If so, use the remote control of your decoder and/or your TV set to cancel the Mute function. ▪ Check whether the volume on your decoder or TV is sufficiently high. Press the volume buttons on the remote control of your decoder or of your TV set. ▪ Check that your decoder is properly connected to your TV set or to your sound system. Some of the connections to your decoder may have worked loose.
There is no stereo sound on your HiFi system.	▪ Check whether the cables are connected correctly between your HiFi system and right & left audio outputs at the back of your decoder.

Appendix A Technical Data

System:
Front-end: DVB-T
Input frequency range: VHF III: 177.5-227.5 MHz; UHF IV/V: 474-858 MHz
Loop through frequency range: 47-862 MHz
Powered by STi5100 CPU
FLASH memory: 8 MB
RAM memory: 64 MB

Connectivity:
Antenna In
RF signal bypass (loop-through)
TV SCART
VCR SCART
Optical S/PDIF digital audio output
V.90 Modem port
Smart Card reader
Power In

Video:
MPEG-2 MP@ML
Video rate: 0.5 - 15 Mbit/s
Formats: 4:3, 16:9 with Pan & Scan, Letterbox
Graphics: 16 bit OSD, up to 720 x 576 pixels

Audio:
MPEG-1 audio layer II
Mono, Dual Mono, Stereo, Joint Stereo
AC-3 pass through S/PDIF

Conditional Access:
Support for Conax, Iredo, Nagra

Software:
DVB MHP 1.1.2
Loader for Over The Air software upgrades
Teletext on VBI, DVB subtitles
Set of applications including among other things: Channel Banner, Now/Next Navigator, Parental Control, Electronic Program Guide

Accessories:
RCU with batteries
External power supply unit: 12V DC, 1.5A
Set of cables
User documentation

Reliability & Compliance:
Fully DVB compliant
Quality according to EU norms, CE marking
MTBF: 50 000h

General Data:
Dimensions: 22w x 17d x 4.5h cm
One LED (On / Standby / RCU key pressed)
Mains input voltage: 230V AC, 50 - 60 Hz
Operate mode consumption: max 8W
Standby mode consumption: max 4W

This specification is subject to improvement and change without notice.

CE

The product complies with the following European Council Directives:
– 73/23/EEC (Low Voltage Directive),
– 89/336/EEC (EMC Directive),
– 93/68/EEC-CE (Marking Directive)
– 99/05/CE (RTTE directive)
– 2002/96/EC (WEEE directive)

Appendix B Glossary of Terms

16:9
Wide-screen TV screen format.

AC-3
Dolby AC-3 Digital Audio

Application
A piece of software, which is sent with the TV and audio signal and may be run on the TV set. Examples of such applications are interactive quizzes or games.

A/V
A connector for the transmission of audio, video and status signal.

Browsing Mode
A mode in the Channel Banner, in which you can check what are the next/previous channels and next programs, while staying on the current channel.

Conditional Access (CA)
A system to control subscriber's access to services, channels, and programs.

Channel Lock
An electronic lock that can be set on any channel, allowing access only by means of your PIN code.

Electronic Program Guide (EPG)
Continuously updated program guide for quick and easy reference or program selection.

Menu System
A set of on-screen menus allowing you to customize your decoder.

MHP
Multimedia Home Platform is a common platform for accessing a wide range of digital multimedia services. Applications from various service providers are interoperable with different MHP implementations.

PIN Code
Your personal 4-digit number for controlling specific features of the decoder including access to locked channels.

STB (Set-Top Box)
Another name of a digital decoder.

SCART
A 21-pin connector used for connection of digital decoders, video recorders and TV sets.

Scrambled Channel
A channel which signal is impossible to decode by the decoder. You need an appropriate and valid smart card to descramble (decode) the signal for the channel.

Service
Also called a channel to which a TV or decoder is tuned. A service provider offers one or more services.

Smart Card
A card containing an integrated electronic circuit, which together with electronics in the decoder allows you to receive services.

S/PDIF
Digital interface format. Digital audio output.

Terrestrial TV
Conventional TV programs received directly from a ground transmitter.

VCR
An abbreviation for Video Cassette Recorder.

Viewing Mode
The state of your decoder when no menus or windows are displayed on the screen, and the current channel is tuned.

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