Digi-tv-vastaanotin maanpäällisille lähetyksille Mottagare för marksänd digital-TV Set-Top-Box for terrestrial reception

> Suomi-Käyttöopas Svensk-Bruksanvisning English-User manual

CI-5100T

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This STB has been manufactured to satisfy the international safety standards. Please read the following safety precautions carefully.

MAINS SUPPLY OVERLOADING	 : 190 - 250V AC 50/60Hz : Do not overload a wall outlet, extension cord or adapter as this may result in fire electric shock.
LIQUIDS	: The STB shall not be exposed to dripping or splashing and that no objects filled with liquids, such as base, shall be placed on the apparatus.
CLEANING	: Disconnect the STB from the wall outlet before cleaning. Use a light damp cloth(no solvents) to dust the STB.
VENTILATION	 The slots on top of the STB must be left uncovered to allow proper airflow to the unit. Do not stand the STB on soft furnishings or carpets. Do not expose the STB to direct sunlight or do not place it near a heater. Do not stack electronic equipments on top of the STB.
ATTACHMENTS	: Do not use any unrecommended attachments as these may cause

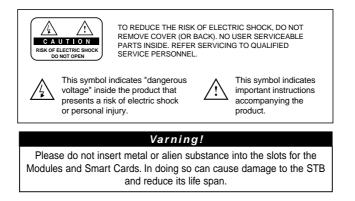
hazard or damage the STB.

CONNECTION TO THE ANTENNA

: Disconnect the STB from the mains before connecting or disconnecting the cable from the antenna. FAILURE TO DO SO CAN DAMAGE THE ANTENNA.

CONNECTION TO THE TV

- : Disconnect the STB from the mains before connecting or disconnecting the cable from the antenna. FAILURE TO DO SO CAN DAMAGE THE TV.
- **EARTHING** : The antenna cable MUST BE EARTHED to the system earth for the antenna. The earthing system must comply with SABS 061.
- **LOCATION** : Place the STB indoor in order not to expose to lightening, rain or sunlight.



Trademark

- VIACCESS™ is a trademark of France Telecom.
- CryptoWorks[™] is a trademark of Philips Electronics N.V.
- · Irdeto is a trademark of Mindport BV.
- Nagravision is a registered trademark of KUNDELSKI S.A.
- · Conax is a trademark of Telenor Conax AS.
- "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Warning

HUMAX cannot be held responsible for any kind of problems caused by the use of unofficial softeware. The use of software versions other than HUMAX official software will void the manufacturer's warranty.

It is advised that only the formal software released from HUMAX should be used in all HUMAX product range.

Glossary

STB

Your Set Top Box (Digital-TV-Receiver).

Antenna

A device that collects and amplifies elctromagnetic waves.

Coaxial cable

A specially designed and shielded cable that can transport signals with high frequency.

• CAM

Also called CA-module (CA=Conditional Access) or CI-module (CI=Common Interface). Is used together with a Smart Card to decode and view the content of sertain programme providers. Can be purchased from your dealer or from the programme provider/operator.

• FEC (Forward Error Correction)

A system of error control for data transmission.

Frequency

The number of cycles or events per one second, which is expressed in the unit of Hertz(Hz).

• IF (Intermediate Frequency)

A frequency to which a carrier frequency is shifted as an intermediate step in transmission or reception.

• MUX

The transmitter/frequency/channel where the programme provider/operator transmit a package of digital channels/services. Usually there are several MUX frequencies with different or same content.

Network

The collection of channels/services that a programme provider/operator offer. These services may be transmitted from one or several MUXes. In the transmitted data stream the operator may transmit a service information table (network information) that is informing the set-top-box about all available services in the network.

English

Software Upgrade

Humax digital set-top box is a highly sophisticated product - incorporating one of the best software applications available. Whenever a problem is found with this software or, in fact, extra functions or enhanced applications are added, the software in the equipment has to be upgraded.

In order to maintain proper performance of the product, it is essential to have the most up to date software.

The latest news and release of software versions may be found at Humax website - http://www.humaxdigital.com.

It is recommended that users register to HCSA (Humax Customer Service Area) and periodically check for the availability of software upgrade.

There are three methods to upgrade the software :

- (a) set-top box to set-top box download (copies the software of the main unit into slave unit);
- (b) pc to set-top box download (downloads the software directly from pc to the model requiring upgrade);
- (c) OTA over-the-air (downloads the software where the manufacturer reserves the right to decide when and where to release over the air).

Over The Air (OTA) is simply another alternative for downloading software versions. However, the manufacturer reserves the right to decide when and where this software upgrade can take place by "beaming" latest software versions over the air.

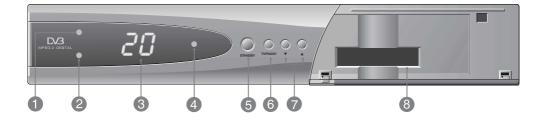
SUSS (TM) is an official trademark and logo for Humax loader software to perform OTA.

The software upgrade will only occur under the following circumstances:

- 1) the equipment should have appropriate loader software;
- 2) the manufacturer decides to release software downloading;
- 3) the equipment must be "tuned" properly to the OTA channel that the manufacturer uses.

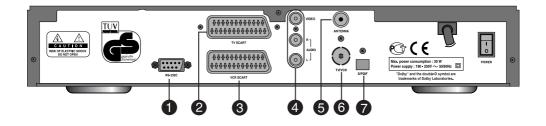
(Se also page EN32)

Front Panel



 TV INDICATOR (GREEN) The indicator lights on in TV mode.
 RADIO INDICATOR (GREEN) The indicator lights on in radio mode.
 DISPLAY Shows service number, error messages, RCU commands and time in Standby mode.
 STANDBY INDICATOR (RED) Indicates that the STB is under standby.
 STANDBY Press to switch between Operation and Standby modes.
 TV/RADIO Press to switch between TV and Radio modes.
 V A Use to change services down/up.

Connectors on the rear panel





A RS-232C

Use it when connecting to your PC.

TV SCART For the audio/video input of the TV.

VCR SCART



AUDIO L/R + VIDEO

(Se also page EN24)

Audio/video signal from your STB to Audio system, VCR or TV.



5 ANTENNA

For the VCR.

Use to connect a general Aerial Antenna and CABLE jacks to a ANTENNA input jack on the STB.



G TV/VCR

Use to connect a RF signal from your STB to RF(ANT) input jack on your TV or VCR .



S/PDIF

Output for connection to a digital amplifier.

General

Picture and sound

Digital TV is a transmission technology that replaces the traditional analogue technique. This means that several TV channels, radio channels and other digital services can be transmitted on the same space as just one channel took up before. As a consumer you get access to many more channels and services than before at the same time as they are received with perfect picture and audio quality

The digital-TV-receiver (Set-Top-Box) converts the digital signal into a format that is suitable for your TV and sound system.

Connecting your Set-Top-Box is just as simple as connecting for example a video recorder. You get the best picture quality by using a SCART-cable for connection to your TV-set. The best audio experience is obtained by connecting an optical cable to your sound system.

Scrambled transmissions

The content or some parts of the content transmitted in the terrestrial network may be scrambled. For this your Set-Top-Box is equipped with two slots for the possibility to connect two separate de-scrambling modules (Conditional Access Modules). Module, smart-card and subscription may be obtained from your local dealer or directly from the service provider.

Coverage

Before buying this product it is anticipated that you have made sure that there are digital transmissions covering your region.

Antenna / Signal source

Depending on the reception your Set-Top-Box may be connected to a simple indoor antenna or to an existing outdoor antenna system. If you live in a flat you should make sure that the digital terrestrial signals are distributed to your wall antenna outlet. If you have your own antenna system you must make sure that it is equipped with antennas, filter and/or amplifier that can handle those frequencies that the digital channels are transmitted on.

Cable-TV

Please observe that this Set-Top-Box is not designed for the reception of regular digital cable-TV signals (QAM-signal). Despite this, operators of smaller cable networks may have chosen to distribute the digital terrestrial signals (COFDM-signal) in the network. In this case this Set-Top-Box may well be used.

Check with your landlord if you are insecure about what type of TV-signal that is provided in the wall antenna outlet

Connecting more receivers to the same antenna

If you have another analogue or digital STB and you wish to use the same RF Signal. In this case you can connect it via the loop through. Connect one end of a RF cable to the TV/VCR on the STB and connect the other end to the RF (ANT) on your second STB.

Connect

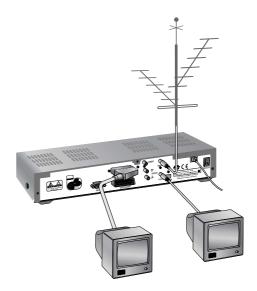
TV & other equipment

Example 1

In this example a TV set is connected to the digital receiver. If possible the TV should be connected with the digital receiver through a Scart cable.

If the TV doesn't have a Scart connection or if you want to connect a second TV to the digital receiver, the UHF output of the modulator may be used.

(Se also page EN6 and EN24)



Example 2

In example 2 a VCR and a hifi stereo components system are connected to the digital receiver in addition to the TV. The VCR should be connected through a Scart cable. In this example the hifi stereo components system is connected with the digital receiver through the analogue Cinch connections.

S/PDIF Fiber-Optic Connection (Dolby Digital AC3)

If you have a digital audio set with a fiber optic S/PDIF input, you will be able to enjoy the high quality hifi sound with your receiver. The digital amplifier or the pc card should be connected with the receiver through a fiber optic cable. Please be aware of the fact that this output is fully suitable for Dolby Digital 5.1 (AC3) and that you can take advantage of all of the home cinema's possibilities.

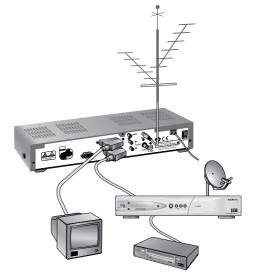


Example 3

In this example the terrestrial digital receiver is operated together with the satellite receiver. Both of the receivers should be connected through a Scart cable. Plug the Scart cable of the satellite receiver into the VCR Scart of the DVB-T receiver. As soon as the satellite receiver is turned on, its audio and video signals will be looped through the terrestrial digital receiver.

Example 4

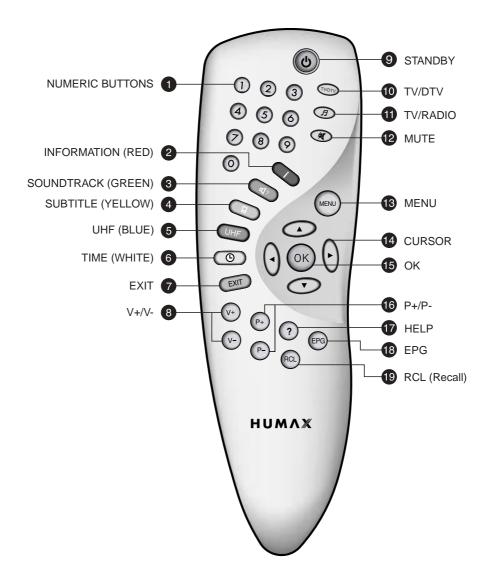
This pattern corresponds to example 3 (see above). A VCR is connected additionally to the configuration. Connect the VCR with the satellite receiver through a Scart cable. Plug the Scart cable of the VCR into the VCR or video Scart (if available) of the satellite receiver.



EN9



Remote Control Unit



EN10



A NUMERIC BUTTONS

Press to select a service, enter your PIN Code or numeric on the menu.



INFORMATION (RED)

Press to display the programme information box on the screen. And this button functions same as the RED button on the menus.



3 SOUNDTRACK (GREEN)

Press to display the soundtrack list for the current service. And this button functions same as the GREEN button on the menus.



4 SUBTITLE (YELLOW)

Press to display the subtitle language list for the current service. And this button functions same as the YELLOW button on the menus.



5 UHF (BLUE)

Press to set the UHF menu. This button functions same as the BLUE button on the menus.

TIME (WHITE)

decrease the volume.

Press to display the current time on the screen. Press to reserve services on the Information box or EPG. And this button functions same as the WHITE button on the menus.

Volume up/down buttons. Press to increase or

Press to switch between Operation and Standby



8 V+/V-

HELP 17)

Press to display the help box on the screen.



(G) OK

1Э P+/P-

TV/RADIO

MUTE

(B) MENU

Press to select the TV/DTV mode.

Press to select the TV/RADIO mode.

Press to temporarily cut off the sound.

Press to display the Main Menu on the screen

Press to move the highlight bar for selecting

options on the menus. And this button is used

to change services (up/down) and increase or

Press to display the service list. This button is

Programme up/down buttons. Press to tune to the

next or previous service. Press to move up or

used to select the item on the menus.

decrease the audio volume.

down pages on the menus.

or return to the screen from a sub menu screen.

Electronic Programme Guide button displays the TV/Radio programme guide.



RCL (Recall)

Press to select the service that was previously viewed

Please note :

modes.

O STANDBY

The design of Remote Control Unit may be changed without notice in advance.

Daily Use



Changing channel

You can select channel in the following way:

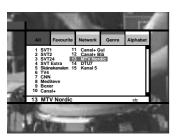
- (0~9) : Select desired channel directly using the numeric keys.
- $(P_{+})/(P_{-})$: Select channels step by step, up or down.
- ▲/▼ : Select channels step by step, up or down. (only func tional in picture mode without menus on the screen)
- E Jump between present and previously viewed channel.
- : Select a channel via the electronic programme guide.
- (F) : Select mode for TV- or radio channels.

Channel / Service list

(ок)

The channel list shows a selected list of channels. (Se also p. EN 16)

- : Press OK to display the channel list.
- : Press RED key to display a list of all available channels.
- (1) : Press GREEN key to display a list of own favourite channels.
- : Press YELLOW key for a list of channels by network.
- UHF : Press BLUE key to display a list of channels sorted by genre.
- ③ : Press WHITE key to display all channels in alphabetical order.
- $A/\nabla, A/P$: Use these keys to select desired channel.





Advaced Service List

In the main menu and on the option **Select Service** you may select if a **Simple** or an **Advanced** service list should be displayed on the screen. The advanced service list is similar to the Simple service list except that it shows thirty services (Network and Genre list will only display twenty services). Each channel that is scrambled is in the advanced list is indicated with the icon (^[]).

Service Configuration

With the service list displayed you may reach the **Service Configuration** menu. In this menu you can change the attributes of a service

- Use the ▲/▼/◄/► buttons to move a service you want to change in the Service List.
- 2. Press the Menu button (MR).
- 3. Use the ▲/▼ buttons to move to an item (such as genre, favourite, lock, skip, delete) you want on the Service Configuration screen.
- 4. Use the </ > buttons to select. Press the ⁽⁾ button to complete.

Favourite lists

If you want to add a channel to one of the favourite lists you do this quickly by using the **Service Configuration** menu above. You can also add channels and organise favourite- and genre lists by entering **Main Menu > Installation > Service Organising**.



Volyme Control

- $(\Psi)/(\Psi)$ Use the volume keys to adjust the volume level.
- Optional keys to adjust volume level (is only working in pure picture mode without any menus on the screen).
- To temporarily stop the volume, press the Mute button. To cancel mute, press the Mute button again or press any of the volume buttons.

Soundtrack

(d) When you want to change the audio language of current service, press the Green button firstly.

The on-screen menu is displayed on the top to left side of the screen.

- ◄/► Use to select the audio on the left, right or both.
- ▲/▼ Use to select the audio language you want.
- When this button is pressed, the Soundtrack OSD will disappear keeping the selected Soundtrack language constant.
- EXIT Press EXIT to cancel.

When the current service is switched, the audio language returns to the audio language that was selected in previous service. If the returned audio language is invalid, the audio language that you selected from the audio language menu has the priority of playback.

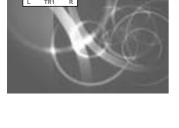
Soundtracks broadcast in Dolby Digital are indicated by Dolby Digital symbols either side of the respective language selection in the menu. By selecting such a soundtrack the Dolby Digital audio will be output by the optical S/PDIF on the STB. This can be decoded by an external Dolby Digital television or amplifier, for example.

Subtitling

- When the current broadcasting programme provides subtitle, press the YELLOW Subtitle button to see the current subtitle language list.
- ▲/▼ Use the up/down buttons to select a Subtitle language you want.
- Press the OK button and the selected language is highlighted and then the Subtitle Language you want is displayed on the screen.
- EXIT) Press the EXIT button to cancel the Subtitle mode.

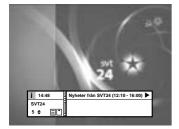
Teletext

Use your TV Remote Control Unit to control the Teletext service. The teletext button doesn't exist on the STB Remote Control Unit. When the service supports Teletext, the Teletext icon (\equiv) is displayed on the i-plate.





inglis



Information box (i-plate)

The details of service part and event part are automatically displayed on the I-Plate when pressing the i button (\Box) or changing services.

i-Plate is divided into service part and event part.

SERVICE-PART (Left side of the box)

SERVICE PART consists of the following items:

- i-Plate icon, Current time and Dolby Digital symbol.
- Service name, Service number, (♦) icons.
- Subtitle, Teletext, Scrambling service symbol. (These are automatically displayed when the broadcasting station provides appropriate information.)
- Signal quality bar.

EVENT-PART (Right side of the box)

EVENT PART consists of the following items:

- Event name, Event duration time
- · Description text of event, State of reserved event

Event Part shows the current and next event information.

- Use to move from the current event information to the next event information.
- Use to move from the next event information to the current event information.

When the Help (?) button is pressed under i-Plate display and there are no detailed event informations in the i-Plate, the Help window will appear on the screen. The Help window shows the current Network information, including: Nework, Channel, Mode, Guard Interval...

The detailed information for the event can be displayed by pressing the Help (?) button in the i-Plate with event data displaying mode.

You can reserve the programme in the event data display mode by using the White (()) button.

You can reset timer programme Once, Daily or Weekly mode.

When you release the timer programme mode, then you will be asked to confirm the action.





Main Menu

The Main Menu consists of the bellow grouped function setting options. Detailed description of each function is described on the following pages: EN16 till EN33.

1. Select Service

The select service displays the required service list which can be viewed in Simple or Advanced mode.

(Se page EN 16 and also page EN 12)

2. TV Guide

Your STB has an Electronic Programme Guide (EPG) to help you navigate through all the possible viewing options.

The TV Guide supplies information such as programme listings and start and end times for all available services.

In addition, detailed information about the programme listings and start and end times for all available services.

In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).

(Se page EN18)

3. Parental Control

Access to services and programmes is controlled by a PIN Code (i.e., a 4-digit secret code that is defined by the user).

The very first time you attempt to lock all services (or lock programmes by ratings), the on-screen menu will instruct you to assign a PIN Code (Later on, if necessary, you can change it). (Se page EN20)

4. Installation

The Installation mode allows you to have the information of setting services and newly set services (language, time, organise, search,..). Furthermore, you can recognize the states of hardware and software versions and signals from your STB. (Se page EN20)

5. Utility

This menu provides Calendar and Biorhythm. (Se page EN33)

Settings & Functions



1. Select Service

To select the desired in the service list, you should firstly display the service list using \bigcirc button. Use $\blacktriangle/\checkmark/\checkmark/\triangleright$ buttons to select a service and press (K) button. Also use (P+)/(P-) buttons to select a service directly in the service list.

The contents of service list are as follows:

Simple Service List

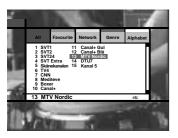
- 1. Select "Select Service" from the Main Menu and press the 🗰 button.
- 2. Select "Simple" and press the OK button.
- 3. Then the simple service list (max. 10 services) will appear on the screen.

Advanced Service List

The advanced service list shows thirty services. This list is similar to the Simple service list except that it shows thirty services and is apart from the Network and Genre list that displays twenty services.

Use the following colour buttons to list various service lists:

- RED
- () Service list All
- GREEN
- (() Favourite
- YELLOOW
- () Network
- BLUE
- (UHF) Genre WHITE (()) - Service list by Alphabetical order



Service All

- 1. To display the Service All, press the 🛞 button. Use Red () button to select the service All list.
- 2. Select the desired service by using the A/V/A/F buttons.
- 3. Press the (ok) button to view the selected service.

The service list provides you the Simple mode and Advanced mode. The right side scroll-bar of the screen displays the location of the selected service in relation to All services.

Press the Red () button to toggle between Simple mode and Advanced mode.



Service Favourite

- 1. Press the Green () button on the remote control unit to select the Favourite service list.
- Note : The groups are labeled in four different alphabet characters (A.B.C.D).
- 2. Use the ▲/▼ buttons to select a favourite group that you want.
- 3. Press the Green () button to toggle group and service list.



Service Network

1. Press the Yellow (
) button on the remote control unit to select the Network service list.

2. Press the Yellow () button to toggle provider and service list.

- **Note :** 1. The provider name is displayed on the left window and the provider's services are displayed on the right window.
 - 2. The scroll bar on left of the screen shows the loca tion of the cursor in the Network. The scroll bar on right of the screen shows the location of the service from the selected Network.

All	Favourite	Network	Genre	Alphabet	-
Adult etc User A User B User C User D		11 112 1124 17 Extra			A N
1 SVT				etc	12.
	7.			150	

Service Genre

- 1. Press the Blue (UHF) button on the remote control unit to select the Genre service list.
- 2. Press the Blue (\square) button to toggle Genre and service list.
- *Note*: The scroll bar on left of the screen shows the location of the cursor in the selected Genre. The scroll bar on right of the screen shows the location of the service.

(Se also page EN14, Service Configuration.)

đ	Ð			-	1		
	AI		Favourite	Network	Genre	Alphabet	
1	All ABCDEFGHI	15 8 13	Boxer Canal+ Canal+ Blå Canal+ Gul CNN DTU7 Kanal 5 Mediteve MTV Nordio Skånekana	1 SV 2 SV 3 SV 6 TV	T 2 T 24		1
	1 5	ŜVT	1			etc	
			X			12	

Service Genre

- 1. Press the White (() button on the remote control unit to select the Alphabet service list.
- 2. Press the White ($\textcircled{\baselineskip}$) button to toggle Alphabet and service list.
- **Note**: The scroll bar on left of the screen shows the location of the cursor in the Alphabet. The scroll bar on right side of the screen shows the location of the selected Alphabet service.

Settings & Functions



2. TV- and Radio guide (EPG)

You can watch a programme being shown and reserve it in the TV Guide mode.

To enter the TV Guide mode

Press the EPG () button on the remote control unit or select the TV Guide on the Main Menu.

To select the TV/Radio Guide

Press the (T) button on the remote control unit and TV Guide will be switched to the Radio Guide.

TV Guide mode includes four different modes.

To select each mode, use the following buttons:

- Red (): Use to display the current and next programme list.
- Green (\square) : Use to display the programme list for one-week.
- Yellow (): Use to display the reserved programme list.
- Blue (UHF) : Use to display the simple TV Guide list. (Quick mode)

Reservere a programme:

To be able to reserve a programme, first highlight it using the buttons ^(P+)/^(P-) or ▲/▼. Then press the white button (^(C)). Then select if the programme should be reserved just once, daily or weekly. Press the yellow button (^(I)) to get a list of all your reservations.



NOW / NEXT mode

Show the informations of the programmes that are played now or will be played next time. This mode consists of the service name, event name, event duration time, current time and on-screendisplay window.

To watch a programme you want through the display window :

- Use the ⊕//₽ buttons to select a programme you want. The selected service will appear on the right display window.
- Use the ▲/▼ buttons to select a programme you want. And then press the ⊛ button on the remote control unit.

The selected service will appear on the right display window. The selected OSD will be highlighted every time the cursor moves.

To reserve a programme you want :

Select a programme you want by using the ^(P)/^(P) buttons or ▲/▼ buttons. And then press the White (^(G)) button. Press the
 Press the
 buttons to watch the programme of previous page or the programme of next page. Press the Yellow () button to watch the Reserved programme list.



Weekly mode

Shows the information of programmes that will be played for a week. Select a day you want using the $\triangleleft >$ buttons.

To watch and reserve a programme you want, do the same steps as with the NOW/NEXT mode.



Reserved mode

Shows the programme lists that you have already reserved on the TV Guide or Information box. Maximum eight programmes can be reserved.

This programme list includes service name, date, duration time, reservation mode and event name.

To cancel the Reserved service, select a programme you want to cancel using the buttons and then press the White (O) button.



Quick mode

•

Shows a simple TV Guide like an Information box. This mode shows in the A/V playback mode.

- Red vertical line : Indicates the current time.
- Black/white bar : Shows the proceeding state of programme.
- Time range of bar : This consists of three 30 minute blocks.

Settings & Functions





3. Parental Control

You can set a parental guidance rating to each programme in this mode.

- 1. When the ^(w) button is pressed after selecting the highlighted parental control on the initial menu screen, a display window for entering the PIN Code will appear on the centre of screen. ** The default PIN Code is **10000**.
- Enter the PIN Code on the display window. (If any problem occurs when entering a PIN Code, you cannot switch to the next mode.)
- 3. Set the parental guidance rating of highlighted censorship classification.

The parental level is given as age-based numbers : no block, 6, 10, 14, 18 and total block. Enter the PIN Code to unlock or lock programmes.

- 4. To change your PIN Code:
 - Select the highlighted Old Pin Code using the ▲/▼ buttons and then enter your Old PIN Code.
 - Enter a New PIN Code in the highlighted New PIN Code using the ▲/▼ buttons.
 - To verify the New PIN Code, re-enter a New PIN Code in the highlighted Verify Changed PIN Code.
- 5. When the entered PIN Code is correct, then all settings are completed. (If the PIN Code is wrong, the message "PIN Code mismatch" will be displayed on the display window. When the
 button is pressed at this time, the Old PIN Code is valid and the cursor is located in the first position of this menu.)



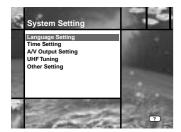
4. Installation

This mode allows you to customise, add a new service and displays the state of the STB. Enter the submenus after selecting the Installation mode in the Main Menu.

4-1. System Setting

The System Setting mode supports the STB internal settings according to the connection of the receiver and external units.

This mode includes Language Setting, Time Setting, A/V Output Setting, UHF Tuning and Other Settings.



Language Setti	ng		5
Menu Language	English		
Audio Language Subtitle Language	Czech Danish English Finnish French		
	the second	the second	?



Language Setting

Select the language for menu, audio or subtitle.

- Select the highlighted language setting using the ▲/▼ buttons in the system setting mode and then press the button.
- Select the highlighted Menu(or Audio, Subtitle) Language and press the
 buttons and the language list will be displayed.
- Use the ▲/▼ buttons to move to a language you want and then press the w button to finish.

Menu Language

Select a language for the menu or banner OSD in this mode.

You can choose the language from a selection of Czech, Danish, English, French, German, Hungarian, Italian, Portuguese, Swedish and more.

When a broadcasting information (event) is transmitted, the selected Menu Language will be applied.

Audio Language

Select the default language for audio when changing services.

If you change the current service, your STB will initially select the previously memorised Audio Language. If the Audio Language of current service is not provided, at this time, you should reselect a language on the Audio Language menu.

Languages provided:

Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Norwegian, Portuguese, Rumanian, Russian, Spanish, Swedish, Turkish and more.

If no language is provided, then the default language of current service will be automatically selected.

N	Language Setti	ng	~.se
	Menu Language Audio Language Subtitle Language	English English English	
		Danish English Finnish French German	
		1000	asys a
2		Sec. Sec.	?

Subtitle Language

Select the default language for subtitle when changing services.

Language provided: Danish, English, Finnish, French, German, Hungarian, Italian, Norwegian, Portuguese, Spanish, Swedish and more.

Settings & Functions



Time Setting

You can set the Current Time and Wakeup Time in this mode. Furthermore, the Service Number in the Wakeup mode and Sleep Time (standby mode) can be set. When a VCR is connected, recording can be automatically done according to Wakeup/Sleep Time Setting.

Current Time

To set the Current Time, enter the Offset value using the standardised information of current service area.

The time setting will be used as the standardised time for the I-Plate, TV Guide, Wakeup and Sleep Timer.

Time Offset

Current Time is based on TDT (Time and Data Table) at the stream of the current service.



Timer

You can select nine kinds of Timer like 1,2......8 and Disabled.

If you select "Disabled", then the other timers will not work. Press the button at timer option to display the Timer table. The Timer determines the on/off time and can also be used for VCR recording.

Timer Mode

Wakeup/Sleep timer determines the Timer Mode.

- Once : The timer programming is applied only once.
- Daily : The timer recording is applied everyday repeatedly
- Weekly : The timer recording is applied weekly. (Set one day in a week).

Use the **◄/**► buttons to select the type of timer programming.

Wakeup Time

Select the time when STB is turned on. Use the numeric buttons (0-9) on the remote control unit to enter your Wakeup Time.

Wakeup Service No.

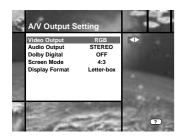
Use the ◄/► buttons to set the service number provided for the set Wakeup Time. Use the TV/Radio ⑦ button on the remote control unit to toggle TV/Radio.

Service Name

The Service Name that has been determined by the Wakeup Service No. will be shown.

Sleep Time

Depending on Time Setting, select the time when STB is turned off.



A/V Output Setting

Video Output (CVBS/S-Video/RGB)

Select one of the following options:

- RGB if you have connected a scart cable to a standard TV.
- CVBS if you have connected a scart cable to an old TV that do not have RGB-input.
- S-Video if you have connected to the S-video (SVHS) input on your TV or VCR.

Audio Output

Set the audio mode which is output from the TV SCART and RCA/Cinch Jack. (Stereo/Mono)

Dolby Digital

If Dolby Digital option is ON and the broadcaster provides the Dolby Digital stream, the Dolby Digital audio language is firstly selected when changing the service.

Screen Mode

Set the screen format of your TV (4:3 or 16:9).

- 4:3 Standard TV
- 16:9 Wide screen TV

Display Format

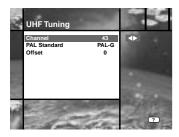
Select in witch format the picture should be dislayed on your TV.

If your TV screen format is 4:3 and you view a 16:9 transmission,

- Letter-box the whole picture in its original format will be displayed with a black filling on the top and bottom of the TV-screen.
- Center the sides of the movie will be cut off and the central part will be shown on the entire TV-screen.
- Auto your TV-set is in control of the picture display format.

If your TV screen format is 16:9 and you view a 4:3 transmission,

- Pillar-box the whole picture in its original format will be displayed with black bars filling out the TV-screen on both sides of the picture.
- Full the picture is expanded so that it covers the whole TV-screen. (Creates a slightly deformed appearance)
- Auto your TV-set is in control of the picture display format.



UHF Tuning

How to set the UHF-modulator if your receiver is connected to the TV with a TV cord.

Channel

Select a proper output channel that will not be interfered by other TV-transmissions or other surrounding equipment that make use of a UHF-modulator (VCR, DVD, TV-game etc.)

The range of channels and frequency value are different for each PAL Standard.

PAL B for Europe/Australia : CH 2 PAL D for China : CH 1 PAL K for Russia : CH 2	3 - 62
--	--------

PAL-standard

Select transmission (modulation) standard for the UHF-modulator. Standard for the Nordic countries is PAL G. Others, se picture.

Offset

Adjust the fine tuning value. The Offset ranges from -4 to +4 and each Offset represents 1MHz.

2	Other Setting		~
	OSD Transparency Info Box Display Time Menu Background Changing to Reserved Service	60% 5 Bild 1 Auto	
1			?

Other Setting

Select the OSD Transparency, Information Box Display Time etc.

OSD Transparency

Select the OSD Transparent type. It affects Information box, Soundtrack, Subtitle, Service list, Time and Quick mode of TV Guide. Use the ◄/► buttons to toggle transparent, opaque, 20%, 40%, 60% and 80%.

Info.Box Display Time

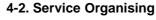
Set the display duration of Information box displayed on the screen after changing services. The time ranges from 0 to 20 seconds.

Menu Background

Set the type of background for the menu to be displayed on.

Changing to Reserved Service

Select **Auto Mode** if the receiver should automatically change channel when a reserved event starts. Select **Manual Mode** if you want to receive a message on the screen saying that the reserved event has started, and then yourself chose to change channel.



This menu gives users access to options that allow them to organise their TV Services, Radio Services and Networks.

** The default PIN Code is 0000.

Organise TV Services

Organise All Services

This mode allows users to Delete, Move, Lock, Skip and Rename TV Services.

- ▲/▼/4/▷ Use the arrow buttons to move around and select channels in the list.
 - Use the OK button to confirm.
- EXIT Use the EXIT button to cancel.

Delete

(ок)

• Press the Red () button to delete unwanted services.

Move

- Press the Green (() button to move the service to where you want to locate. Then, the icon \$ will be displayed in front of the service number.
- Use the $(\blacktriangle/ \bigtriangledown/ \sphericalangle/ \backsim)$ buttons to select a new location.

Lock

- Press the Yellow (I) button to lock services. Then, the symbol "
 will be displayed at the right side of the service name.
- -Repeat above procedure to remove the service lock.

Skip

- Press the Blue (UFF) button to skip services. Then, the symbol
 "\" will be displayed at the right side of the service name.
- Use Numeric buttons(0~9), service list or 📾 button to view the skipped services when selecting channels.

Note : You can't view the skipped services by using $(\underline{P}_{1})/(\underline{P}_{-})$ buttons.

Orma	nise TV Servi		•
0.94		/ices	
	1 SVT1 2 SVT2 3 SVT24 4 SVT Extra 5 TV4 6 CNN 7 eTV 8 DTU 7 9 Mediteve 10 Boxer	11 Canal+ 12 Canal+ Gul 13 Canal+ Blà 14 Kanal 5 15 DR1 16 DR2 17 MTV Nor 18 VH-1 19 Nickelod 20 Discovery	100



Organise TV Servi

Organise All Services Organise Favourite A-D Organise Service Genre

Rename

• Press the White (()) button to change the service name. Then, the keyboard image will be displayed on the screen.

A/V/A/E: Use the arrow buttons to select characters on the keyboard.

- . Use the OK button to confirm selected character.
- : RED button for "standard"-keyboard.
- GREEN key for an extended keyboard.
- (I) : YELLOW key to save the new name.
- UHF : BLUE key to erase characters.



Organise Favourite A-D

Each of TV and Radio has four Favourite groups. Each Favoruite group contains up to 100 services.

Delete, Move, Lock, Skip or Rename each TV service in a Favourite TV group and re-group them into your Favourite TV group.

This mode has the same operating methods as "organise all services".

- When you delete a service in the Favourite group, it will be available again on the All TV service list. This allows the service to be removed from the Favourite group.
- You can move the service only within the Favourite group.
- Coloured keys are available when the cursor is located in the middle window. (Except when the middle window is disabled(grey).)

To select the Favourite group;

- 1. Use the </ > button to move the cursor to "Gr."-plate(left).
- 2. Select the wanted favourite group.

To group the services into Favourites;

- 1. Use the ▶ button to move the cursor to "Services"-plate (right).
- 2. Select the service you want to group into Favourites.
- 3. Press the OK button.
- 4. Use the ◄ button to move the cursor to "Favourites"-plate(left).
- 5. Press the \odot button to save the selected group.

Note : 1. Use the $\triangleleft/\triangleright$ buttons to move the cursor.

2. Use the $(P_{+})/(P_{-})$ buttons to select the previous or next page.

10 Canal+ 11 Canal+ Gul 12 Canal+ Blà	etc 3 SVT24 etc 4 SVT Extra etc 5 Skänekanalen etc 6 TV4 etc 7 CNN etc 8 Mediteve etc 9 Boxer etc 13 MTV Nordic etc 14 DTU7 etc 15 Kanal 5
---	---

Organise Service Genre

The Organise Service Genre feature allows the user to Delete/ Lock/Skip/Rename a service in the selected Genre.

Available genre:

Movie, News, Show, Sports, Children, Music, Art, Education, etc.

The colour buttons function same as ones for Organise All services except the following differences:

When you delete a service in the selected genre, it will be available again on the All TV services list at the right side. At that time, the genre for the deleted service becomes "etc".

You can move the service only in the selected genre.

Coloured buttons are available when the cursor is located in the middle window.

To select the Genre;

- 1. Use the </ > button to move the cursor to "Gr."-plate(left).
- 2. Select the wanted genre.

To group the services into a Genre;

- 1. Use the ▶ button to move the cursor to "Services"- plate(right).
- 2. Select the service you want to group into Genre.
- 3. Press the OK button.
- 4. Use the ◄ button to move the cursor to "Genre"-plate(left).
- 5. Press the \odot button to save the selected group.
- **Note :** 1. Use the ^{◀/▶} buttons to move the cursor.

2. Use the $(P_{+})/(P_{-})$ buttons to select the previous or next page.







Organise Radio Services

The Organise Radio Services functions same as TV Services except that it uses Radio Services.

You can delete or move Radio Services and change the attributes of them.

Organise All Services

The Organise All Services lets the user Delete, Move, Lock, Skip or Rename Radio services on the All Radio services list.

Organise Favourite A-D

The Organise Favourite A-D lets the user Delete, Move, Lock, Skip or Rename Radio Services from the Favourite Radio Services and group into a new Favourite Radio Services.

The Radio Services are grouped into a Favourite in the same way as the TV Services.

(Se page EN25)

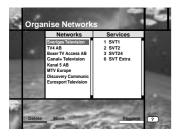
Organise Service Genre

The Organise Service Genre lets the user Delete, Lock, Skip or Rename Radio Services and group into Radio Service Genres.

Radio Genres include: Pop, Rock, Country, Classic, Jazz, Folk, News, Show, Sports, Education, User A-D, etc.

The Radio Services are grouped into a Genre in the same way as the TV Services.

(Se page EN27)



Organise Networks

You can edit services using the network unit.

• The provider names are displayed on the left side of screen, and the TV/Radio Services included in the highlighted

Network are displayed on the right side of screen. Only the Delete, Move, Rename Function can be used in this mode.

 When TV/Radio Services are too many to be displayed, use the </>
 button to move the cursor to the right window and use the ▲/▼ and (P)/(P-) buttons to move the cursor to the next list.

When the number of services is under 10, the scroll bar is not displayed. In Radio Service icon \mathcal{I} is marked in front of service number.



Easy Search	-	200
Channel Mode Guard Intervall Hierarchy Network Search	CH 22 8K FFT AUTO None No	0.9
		?

4-3. Service Searching

A service is transmitted in a transport stream. To watch the service, all services in the transport stream should be searched and stored in this menu. The proper information to search the stream is provided by the network operator. Please contact your installer or the network operator.

** The default PIN code is **0000**.

Easy Search

The services can be searched with minimal information in this menu, "Easy Search". But it takes more time, if the parameters are set as "Auto". To search the services quickly, please give proper information for each items.

Channel

Select the number of UHF channel, in which the transport stream is transmitted, within K21 to K69 by using the *◄/►* buttons or the numeric buttons. If the number is not correct, STB will fail to search any service.

Mode

Select the proper item within "2K FFT", "8K FFT" and "Auto" by using the *◄*/▶ buttons. If the information is not known, then "Auto" can be selected. But this takes slightly longer time if "Auto" is selected.

Guard Interval

Select the proper item within "1/4", "1/8", "1/16", "1/32" and "Auto" by using the \triangleleft buttons. If the information is not known, then "Auto" can be selected. But this takes slightly longer time.

Hierarchy

Select the proper item within "None", "alpha=1", "alpha=2", "alpha=4" and "auto" by using the ◄/► buttons. If the information is not know, then "Auto" can be selected. But this takes longer time.

Network Search

Select the option "YES" to search all services in the network.

Then, after STB succeeds to lock to the signal, STB will get proper information on the services in the other UHF channels and stores the information automatically. If the network operator does not transmit proper information in the default channel, STB can not search all services. It is required to search for all UHF channels manually.

Common values fo (September 2002)	or the	e Swedish network:	
Channel:	21 to 69 (At the moment there are 5 MUXes with dif- ferent channel numbers depending on region)		
Mode:	8K	FFT	
Guard Intreval:	Auto	o (Value vary)	
Hierarchy:	NO	NE	
Network search:	No	(Search each MUX/ channel separately)	
For channel info	se:	www.teracom.se	

Common values for (September 2002)	or the	Finnish network:
Channel:	(At are fere	o 69 the moment there 3 MUXes with dif- nt channel numbers ending on region)
Mode:	8K	FFT
Guard Intreval:	Auto	o (Value vary)
Hierarchy:	NO	NE
Network search:	No	(Search each MUX/ channel separately)
For channel info	se:	www.digita.fi



Custom Search

The menu, "Custom Search" operates similar as the menu "Easy Search", however more parameters are required to search the services. Select proper items as follows. To get proper information, please contact your installer or the network operator.

Frequency

Select the proper item within "2K FFT", "8K FFT" and "Auto" by using the \triangleleft > buttons. If the information is not known, then "Auto" can be selected. But this takes slightly longer time if "Auto" is selected

Mode

Select the proper item within "1/4", "1/8", "1/16", "1/32" and "Auto" by using the \triangleleft buttons. If the information is not known, then "Auto" can be selected. But this takes slightly longer time.

Guard Interval

Select the proper item within "1/4", "1/8", "1/16", "1/32" and "Auto" by using the $\triangleleft/\triangleright$ buttons. If the information is not known, then "Auto" can be selected. But this takes slightly longer time.

Hierarchy

Select the proper item within "None", "alpha=1", "alpha=2", "alpha=4" and "auto" by using the ◄/► buttons. If the information is not know, then "Auto" can be selected. But this takes longer time.

Constellation

Select the proper item within "QPSK", "16-QAM", "64-QAM" and "Auto" by using the ◄/► buttons.

Stream

Select the proper item within "HP", "LP" and "Auto". This item is deactivated when Hierarchy is "Auto" or "None".

Code Rate

Select the proper item within "1/2", "2/3", "3/4", "5/6", "7/8" and "Auto" by using the \triangleleft / \triangleright buttons. "Auto" is recommended, if Hierarchy is set as "Auto".

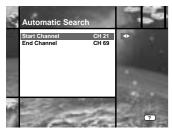
Frequency Offset

Select the proper item within "No offset", "+1/6 MHz", "-1/6 MHz" and "Auto" by using the ◄/► buttons. "Auto" is recommended.

Network Search

Select the option "YES" to search all services in the network. Then, after STB succeeds to lock to the signal, STB will get proper information on the services in the other UHF channels and stores the information automatically. If the network operator does not transmit proper information in the default channel, STB can not search all services. It is required to search for all UHF channels manually.

Frequency	818.0	09
Mode	8K FFT	
Guard Interval	AUTO	
Hierarchy	NONE	
Constellation	64-QAM	
Stream	HP	1000
Code Rate	3/4	
Frequency Offset	No Offset	-
Network Search	No	





Automatic Search

The menu "Automatic Search" is the easiest method to store new stations. Proceed as follows in order to start the Automatic Search:

Start Channel

Set the lowest UHF channel in your area by using the ◄/► buttons. Press the ^(K) button to start the search.

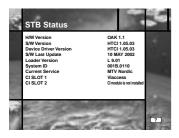
End Channel

Enter the highest UHF channel by using the ◄/► buttons. Press the ⊛ button to start the search.

Default Search

The function is not activated on this model.

4-4. Status



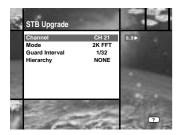
STB Status

Displays the information of H/W Version, S/W Version, Loader Version and CI CAM of STB and so on.

R.	Signal Detection	5
	CH 44	100
	Signal Level (39%)	12
	Signal Quality (100%)	
	Teracom_Sverige	10.00
1	Etc.	?

Signal Detection

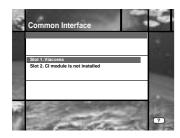
Shows the Signal Level (AGC level) and Signal Quality(BER) of the current service and is help to the initial antenna setting.



STB Upgrade

You can download and upgrade the software of this STB via Transmitting station when the software of new version is released. Do not turn off the STB during downloading. If the power is accidentally switched OFF, turn on the STB and the process will be continued.

(Se page EN4)



4-5. Common Interface

You can enjoy not only scrambled services using the Conditional Access Modules (CAM), but also Free-To-Air services.

This STB currently supports six kinds of CAM (VIACCESS[™], Nagravision, CONAX, CryptoWorks(TM), Irdeto or Mediaguard).

Common Interface module and Smart Card depend on the service provider. If you need CAM, contact your service provider or distributor.

Note : If CAM is not used, then only Free-To-Air services are available.

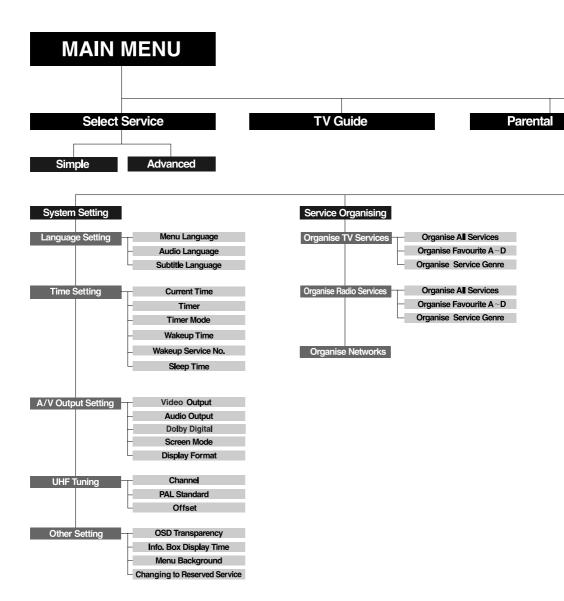


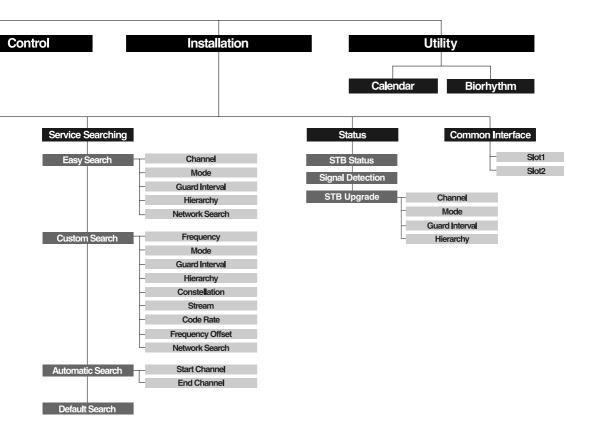
5. Utllity

STB supports additional functions such as Calendar and Biorythm.



At the Biorhythm use the $\blacktriangle/\checkmark/\checkmark/$ buttons to adjust your birth year and date to see your current biorhythm status.





Troubleshooting Guide

Problem	Solution
About STB	
Does not display any message on the front panel or STB has no power.	Check the main power cable and check that it is plugged into a suitable power outlet. Check you have switch the STB main power switch ON at the rear of the STB. Check whether STB is in Standby mode.
No Picture	Ensure that the STB is switched on (see above). Check the video output port (SCART & RCA Jack) is firmly connected to the TV or VCR. If you are using the RF Output, check that the RF Lead is connected firmly to the STB and TV/VCR. Check that you have selected the correct channel or Video Output on your TV. If you are using the RF Output, check that you have correctly tuned the UHF channel of the STB or TV. Check the brightness level of the TV.
Poor picture quality	See "No Picture" above. Check the signal level, if this is low then try adjusting of your antenna.
No Sound	See "No Picture" above. Check the volume level of the TV and STB. Check the Mute status of the TV and STB.
Remote Control does not operate	Point remote control directly towards the STB. Check and replace batteries.
On-Screen Error Messages	
No or Bad Signal	Check the Antenna - replace Antenna if necessary. Check the cable from the Antenna. Check the "Signal Level" and the "Signal Quality" in the Signal Detection menu.
Service is not running or scrambled / No access to the service slot.	Check whether the Common Interface module and Smart card are correctly inserted. Check whether the Common Interface module and Smart card is appropriate for the selected service.
Please check the card / No right for this service / No smart card in slot and please insert your card (when using the CAM)	Check that the Smart card is inserted correctly. Check the Smart card is appropriate for the selected service. Check the subscription rights of the Smart card.
Time Display	
The front panel does not display the time.	Make sure you have switched on the STB. Switch the STB on and tune to a service to allow the STB to receive the time sent with the signal by the service provider. Front panel will only display the time in Standby mode.
Time displayed on the front panel is incorrect.	Adjust the time in the Time Setting menu.
Service Search	
"No Signal" in Manual Search	Check the "Signal Level" and the "Signal Quality" in the Signal Detection menu. Check the Antenna - replace Antenna if necessary. Check the cable from the Antenna.
Front Panel Error Messages	
E-dE: Incorrect data block(CRC-16)	Try switching STB power Off and On.
E - 1급 E 급 : Invalid system ID	Check whether the system ID is different for Software and STB.
E-UE : UART RX/TX time out	Try switching STB power Off and On.

• If you can't solve the problem referring to this Troubleshooting Guide, contact us via our homepage: http://www.humaxdigital.com

Specifications

Conditional Access Interface

PCMCIA

2 Slot Common Interface

Tuner & Channel

Graphic(MPEG) & System

DRAM

Input Connector	IEC 169-2, Female
Input Impedance	75Ω
Input Channel	CH21 ~ CH69
Input RF Power Level	-70dBm ~ -20dBm
Demodulation	OFDM
Mode	2K, 8K and Auto
FEC Decode	1/2, 2/3, 3/4, 5/6, 7/8 and Auto
Guard Interval	1/4, 1/8, 1/16, 1/32 and Auto

MPEG Transport Stream A/V Decoding

Transport Stream	MPEG-2 ISO/IEC 13818
	Transport stream Specification
Profile Level	MPEG-2 MP@ML
Input Rate	60 Mbit/s Max
Aspect Ratio	4:3, 16:9
Video Resolution	720 x 576
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single channel / Dual channel Joint stereo / Stereo
Sampling	32, 44.1 and 48KHz

Memory	
Main Processor	TMIPS R3930(81MHz)
Flash Memory	2Mbyte

4Mbyte

• Data rate decides the picture quality of digital TV programmes. Data rate of about 5-6 Mbit/s coincides with the picture quality of a analog TV programme.

A/V & Data In/Out

TV SCART	Video Output (CVBS, S-Video, RGB) Audio Output (Resolution : 20 bits DAC, Max. 2 Vrms)
VCR SCART	Video Output(CVBS)Video Input(CVBS, S-Video, RGB)Audio Output(Resolution : 20 bits DAC,
VIDEO	Max. 1 Vrms(fixed) RCA/Cinch, Video Output(CVBS)
AUDIO R/L	RCA/Cinch Volume and Mute Control
S/PDIF	(Resolution : 20 bits DAC, Max. 2 Vrms) Digital Audio Output, Fiber-Optic (Resolution : 20 bits)
RS-232C	Transfer rate Max. 115Kbps, 9pin D-sub Type

RF(UHF)-modulator

Connector	75Ω IEC, 169-2, male/female
Frequency	4470 - 862 MHz
Output Channel	CH21-69, CH28-69 or CH13-62 for the Re modulator
TV Standard	PAL I/G/B/D/K selectable by Menu setting
Preset Channel	CH36. Software changeable by Menu

Power Supply

Input Voltage	190 - 250V AC, 50/60 Hz
Туре	Switch mode
Power Consumption	Max. 30 W
Standby Power	≤ 11 W
Protection	Separate internal fuse. The input shall have lightening Protection

Physical Specification

Size (W x H x D)	370 x 60 x 280 mm (Excluding the Foot) Foot height is 8 mm
Weight (Net)	Around 2.8 kg
Operating Temp	0°C to + 45°C
Storage Temp	-10°C to + 70°C
Storage Humidity	5% ~ 95% RH (Non-Condensing)

• Please note : The specification of the STB may be changed without notice in advance.

www.humaxdigital.com

020911CI5100T_Fi_Sw_En

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com