

IMPORTANT SAFETY INSTRUCTIONS



All the safety and operating instructions should be read before operating this product. The safety and operating instructions should be retained for future reference.

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

All operating and usage instructions should be followed.

Unplug this product from the wall outlet before cleaning.

Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning and place the receiver in well ventilated and no-heat environment. Do not use attachments not recommended by the product manufacture as they may cause hazards.

Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near swimming pool, and the like. Do not place this product on an unstable cart, stand, tripod, bracket, or table.

The product may fall, causing serious injury to a child or an adult and serious damage to the product. Use only with a cart, stand tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the Product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

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

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

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1. Introduction

1-1 Main Features

120 programmable satellites / 6,000 programmable channels
950~2150 MHz IF range
MCPC/SCPC, C/KU reception
Fully MPEG 2 / DVB compliant
1 LNB input. IF loop through for 2nd receiver
Variable input symbol rate 1 ~ 45Mps
Oscilloscope / spectrum analyzer function for easy signal detection
Easy auto satellite program searching
Manual PID scan function
Picture-In-Graphics function
Multi-Picture(4,9,10,13 or16 pictures) function
Multi language menu
Electronic Program Guide
8 favorite channel group selection / parental lock
Auto NTSC / PAL switching
Teletext supported by OSD and VBI
RS 232 downloading
Data transfer / receiver-to-receiver and / or PC-to-receiver
DiSEqC version 1.2/1.3 supported

1-2 Accessories

User's manual : 1
Remote control unit : 1
Batteries(AAA Type) : 2 pieces
Warranty Card : 1

2. Controls & Features

2-1 Front Panel

(SR-X7300CU Super)

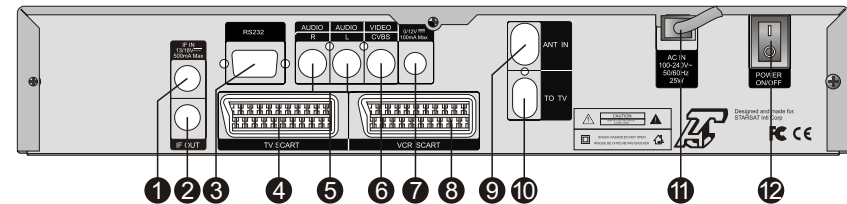


- 1 **Power**
To put the receiver in and out of standby mode.
- 2 **Menu**
Used to display the main menu.
- 3 **OK**
To show TV/Radio channel list and to select a program, highlighted line or parameter value.
- 4 **EXIT**
Use this key return to the viewing mode from any menu function
- 5 **VOL. -, +**
Volume up & down.
- 6 **CH. -, +**
Channel up & down.
- 7 **Display**
Shows channel number, error message, remote control commands and time in standby mode.
- 8 **To insert Smart Card**(Optional)

2. Controls & Features

2-2 Rear Panel

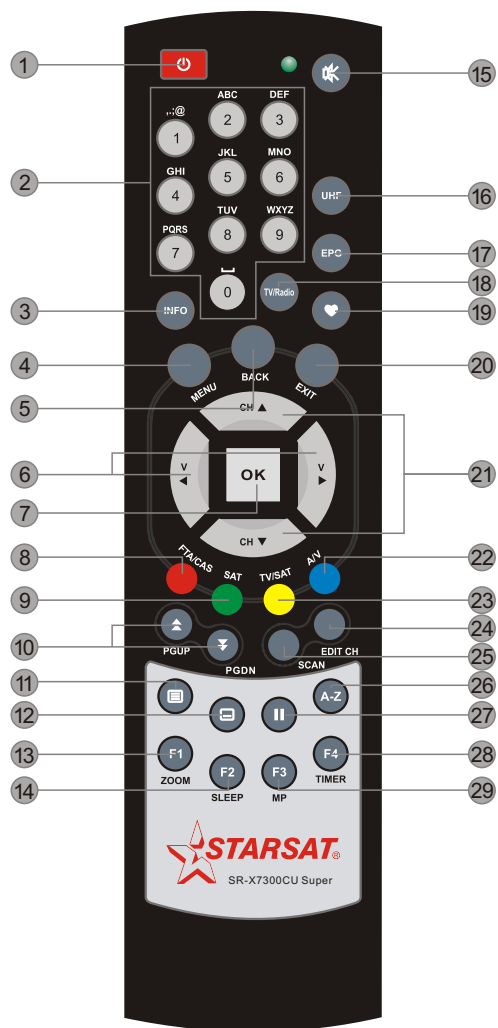
(SR-X7300CU Super)



- 1 **IF IN:** Satellite dish input (F-connector)
- 2 **IF OUT:** IF loop-through output to second receiver
- 3 **RS-232C serial port:** To read and load data information
- 4 **TV SCART:** For connection to a TV
- 5 **Audio L / R RCA (phono) connectors:** Stereo outputs for connection to a HiFi system
- 6 **Video RCA(phono)connector:** Composite video output
- 7 **0/12:** For connection to a LCD or PLASMA TV
- 8 **VCR SCART:** For connection to a VCR
- 9 **ANT.IN:** For a terrestrial (conventional) TV aerial
- 10 **To TV:** For connecting an RF cable to the aerial input of a TV
- 11 **Mains lead:** 100-240V~50 / 60Hz Max. 30W
- 12 **Power ON / OFF Switch**

2. Controls & Features

2-3 Remote Control Unit (RCU)



2. Controls & Features

2-3 Remote Control Unit (RCU)

- 1 **⏻ (POWER)** key: The power key turns the receiver on and off.
- 2 **Numeric keys(0-9)**: Numeric keys enable direct channel selection.
A-Z: Use these keys in the channel list to fine channels alphabetically.
- 3 **INFO** key: This key is used to display channel information.
- 4 **MENU** key: Used to display the main menu.
- 5 **BACK** key: This key returns you to the previous mode or menu.
- 6 **VOL. ▲, ▼**: Used to move the highlight bar or change volume up/dn,
- 7 **OK** key: The OK key is used to select a program, highlight line or parameter value.
It is also used to show the TV/RADIO channel list while watching TV or listening to the RADIO.
- 8 **FTA/CAS** key: Selects FTA/CAS channel.
- 9 **SAT** key: Select a satellite.
- 10 **▲, ▼ (PGUP / PGDN)** keys: Used to move the highlight bar one page at a time on menu. **It is also used to change the channel up&down 100 channels.**
- 11 **☒ (Teletext)** key: Used to display the Teletext data.
- 12 **☒ (Subtitle)** key: Used to display the subtitle data.
- 13 **F1** key: Zoom function in the viewing mode.
- 14 **F2** key: Sleep function in the viewing mode.
- 15 **⏻ (MUTE)** key: This key switches the sound on and off.
- 16 **UHF** key: Display and select the UHF channel for the RF modulator.
The factory default setting in channel 36
- 17 **EPG** key: This key shows program information about the selected channel.
- 18 **TV/Radio** key: Selects TV or Radio channels.
- 19 **♥ (FAV)** key: Change to last favorite channels or selects the favorite channels in the channel list
- 20 **EXIT** key: Use this key to return to the viewing mode from any menu function.
- 21 **CH. ◀, ▶**: Used to move the highlight bar or change channel up/dn.
- 22 **A/V** key: Display and select the audio and video configuration.
RED, GREEN, YELLOW, BLUE keys: These color keys are used to select functions such as Delete, Move, Rename, Sort also used for slot machine game.
- 23 **TV/SAT** key: Select TV/SAT mode.
- 24 **EDIT CH** key: Quick Edit channel in the viewing mode.
- 25 **SCAN** key: Quick Scan in the viewing mode.
- 26 **A-Z** key: Channel sort key in the viewing mode.
- 27 **⏸ (Pause)** key: to pause video during viewing normal display but audio remains active.
- 28 **F3** key: Multi Picture in the viewing mode.
- 29 **F4** key: Timer setting function in the viewing mode.

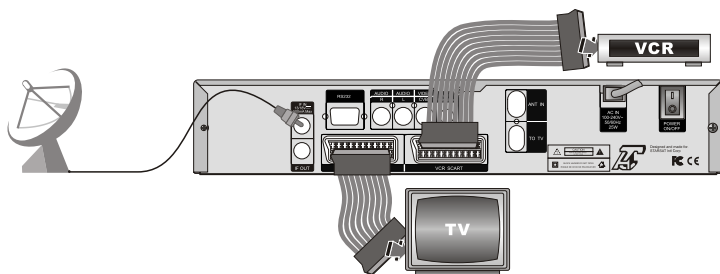
3. Connection Diagram of the Receiver



" To receive high video quality,
please use either component or scart output only "

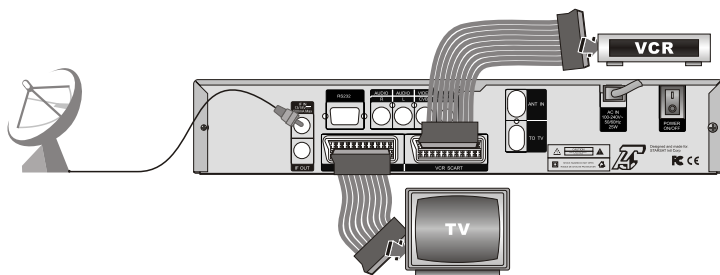
3-1 Connecting to a TV

- Connect the SCART lead between the main SCART socket on the TV and the TV SCART socket on the receiver.
- Connect an RF lead from the To TV output on the receiver to the RF input socket on the TV.
- Connect the TV aerial to the ANT.IN input socket on the receiver



3-2 Connecting to a TV and VCR

- Connect one SCART lead between the main SCART socket on the TV and the TV SCART socket on the receiver.
- Connect another SCART lead between the VCR and the VCR SCART socket on the receiver.
- Connect a RF lead from the RF output on the VCR to the TV aerial input on the TV.
- Connect the TV aerial to the RF input socket on the VCR.



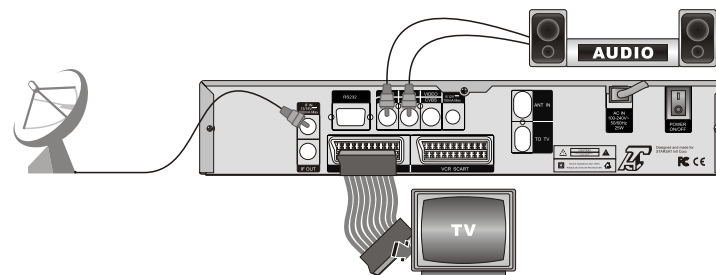
3. Connection Diagram of the Receiver



" To receive high video quality,
please use either component or scart output only "

3-3 Connecting to a HiFi System

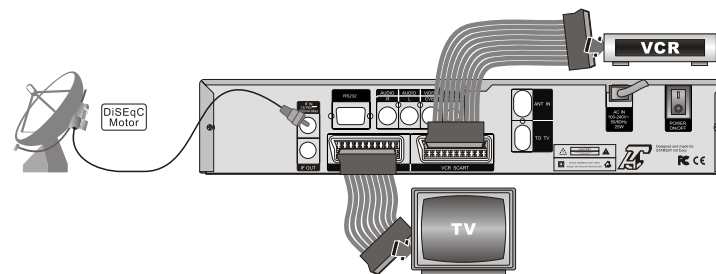
- Connect an RCA/Cinch stereo cable from the AUDIO L/R sockets on the receiver to the LINE, AUX, SPACE or EXTRA input sockets on your HiFi system.



3-4 Connecting to a TV with VCR and Motorized System (DiSeqC 1.2 / USALS)

- Connect one SCART lead between the main SCART socket on the TV and the TV SCART socket on the receiver.
- Connect another SCART lead between the VCR and VCR SCART socket on the receiver.
- Connect a coaxial cable to the IF IN connector on the receiver and the other to the REC or receiver connector on the DiSeqC 1.2 / USALS motor.

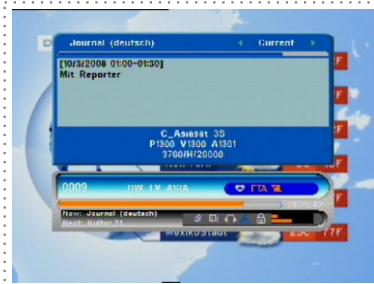
Note: Please refer to DiSeqC1.2 / USALS connection.



4. Function Guide

4-1 Channel Information

Every time you change channels, program information will be displayed for a few seconds.



The information may include:

- 1) Current time
- 2) Channel name
- 3) Current channel number & name, satellite name & TP information
- 4) Symbol for CAS, Teletext, Alternate A/V, EPG, parental lock information
- 5) Signal meta
- 6) Program information: Whenever you press the Info button, the program information window will appear.

You can change the channel list with the ▲, ▼ keys on your RCU or Front panel.

4-2 Changing Channels

You may change the channel by simply entering the channel number using your RCU 0~9 keys. Alternately, you may use the ▲, ▼ keys on the RCU and/or the front panel of the receiver.

4-3 Volume Control



To control the volume, use the ◀, ▶ keys on the RCU.

The volume indicator will show for a few seconds before automatically disappearing.

4. Function Guide

4-4 Channel List for TV/Radio/Favorite

When you press the OK key, you can directly see the channel list



You can press INFO to switch the channel list from three columns to one columns.

You can select the channel you would like to watch by moving the highlighted bar to the channel of your choice using ▲, ▼ and then pressing the OK key.

You can select the TV or Radio channel list by using the TV/Radio key. Use the FAV(grey) key for selecting the favorite channel list.

Whenever you press the FAV button, the channel mode will be changed as follows:

Normal → Favorite 1 → Favorite 2 → Favorite 3 → ... → Favorite 8 → Normal.

[Color Keys]

- 1) RED (FTA/CAS): When you want to change the channel of FTA and CA system you want select item and press ok key.
- 2) GREEN (Satellite List): When you want to change the channel of the satellite you want, select the satellite and press OK key.



3) YELLOW (Sort): By pressing the yellow key, you will be able to select the sort method, either Normal, Alphabetical, or Satellite. Normal sort shows channels in the order in which they have been added to the channel list. Alphabetical sort shows channels in Alphabetical order. If you select satellite sort, only the channels on the selected satellite will be shown, in the order in which they were added. If you have selected satellite sort and need to select a channel not on the selected

satellite, you will need to change the sort method before you can select that channel. After changing the sort method, the channel numbers will likely change to reflect the new ordering. The sort method may also be changed from the Edit Channel screen or the EPG screen.



4. Function Guide



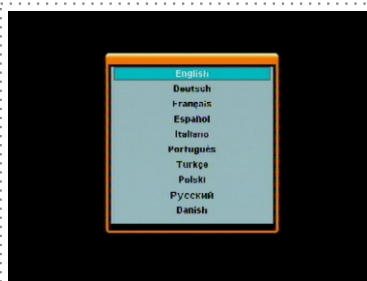
4) BLUE(Multi Pictures): If you press the Blue key, you will be able to choose between a 4, 9, 13 or 16 pictures display. After making you selection, the screen will be divided and the current channel will be displayed in the first box in the upper-left corner, followed by the next channels in the successive boxes until the screen is full. You may then change and view the channel by using the up, down, left, right keys to highlight a box with the red box.

When you are finished with multi-picture mode, press OK again, or the EXIT key to return to the full screen viewing mode or BACK to return to the channel list.



5) Stylish Multi picture: Select stylish Multi picture, and a current channel will be displayed in the first box and followed by the next channels in the successive boxes and also an activated channel will be displayed in the center. You may change the activated channel by using left, right keys and OK key. If you want to lock the channel, Press info key.

4-5 Language



A language option may appear at install stage when the receiver finds no channel saved and you can also choose preferred language from here. You can choose preferred language by using ◀, ▶ key Then press OK to confirm. You can also select language option in the preference menu. Language will be changed to ENGLISH / GERMAN / SPANISH / PORTUGUESE / TURKISH / POLISH / RUSSIAN / ARABIC / FARSI / FRENCH in order.

4. Function Guide



4-6 Zoom



1. The [Zoom] key allows you to magnify a certain area on the images and the current screen will show.
2. Press [Zoom] key again, the image will enlarge rotate as x1, x2, x4, x6, x8, x12, x16.
3. In "x2 ~ x16" image, using [▲, ▼, ◀, ▶] keys to move the image center area you want to see.
4. In zoom mode, press [Exit] to close "Zoom" window.

4-7 Teletext



The display of Teletext is based on transmitted data using the EBU teletext specification and DVB Bitmap. It is available only when the current channel carries teletext service data. VBI insertion mode and OSD (On Screen Display) mode are supported.

In the VBI insertion mode, which is always on, can only be viewed on a TV which supports teletext using your TV's RCU.

In the OSD mode, you can view teletext even though your TV does not support teletext. To watch teletext in OSD mode, press the [Teletext] button on the RCU.

0~9 : press page number. ◀, ▶ : Page left and right list.

▲, ▼ : Page up and down. ▲, ▼ : Page number increase and decrease by 100.

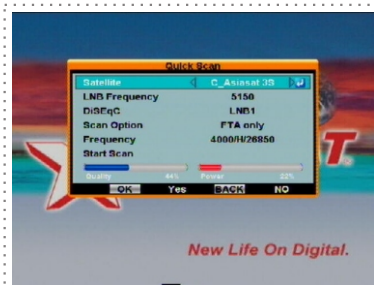
4-8 Subtitles



If the current channel provides subtitles, you can see the □ or ■ symbol indication in the channel information box. When you want to view subtitles, press the [Subtitles] key on the RCU and the language selection menu will appear. Press the OK key to view subtitles after selecting one of languages in the language selection menu.

4. Function Guide

4-9 Quick Scan



Press Scan button on RCU, and you will be able to fine the channel very easily. After selecting the satellite, if you start the Scan, the channel of the relevant satellite will be found.

4-10 Quick Edit Channel

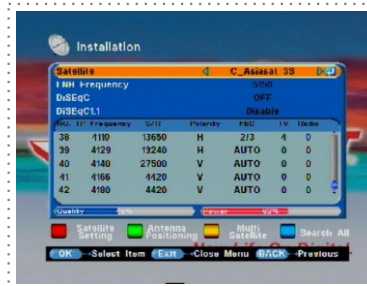


Press Edit Ch button on RCU, and you will be able to edit the channel very easily. Edit Ch button is workable event In Live mode.

5. Main Menu

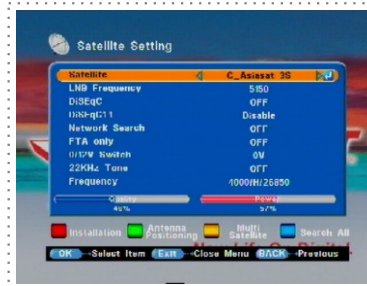
5-1 Installation

5-1-1 Installation (Antenna & Transponder Configuration)



This mode will display the LNB Frequency, DiSeqC and transponder list of current satellite and can adjust displayed information for each selected satellite. When you want to change the satellite, press OK on the Satellite item cursor and then will display satellite list. By selecting color Keys you can change to Satellite Setting (RED), Antenna Positioning (Green) and Multi Satellite Setup (Yellow) menu. If you want to start scanning all of transponder list for selected satellite, press BLUE key (Search All).

5-1-2 Satellite Setting



By pressing RED key in the Installation menu will display and can adjust all of the items for selected satellite. If you want to go back to installation menu, press Back key.

5-1-3 Transponder Setup



In this mode you can modify and adjust Transponder values. If you want to go to this mode, press OK by moving cursor to bottom of the screen and search for frequency wish to change by up (+) / down (-). You can modify the current frequency value by pressing OK and use left () right () to find value item needs to be changed. Add: Press RED key to add new frequency. Delete: Press GREEN key to deleted frequency which have cursor line. TP Search: Press BLUE key to start searching of frequency which have cursor line.

5. Main Menu

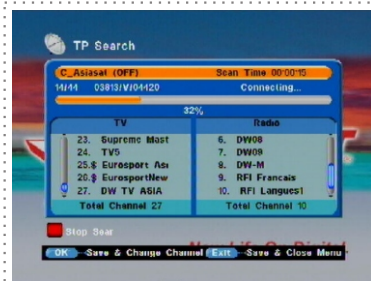
5-1-4 PID Edit



When you want edit PID (Packet Identifier) value, press GREEN key in the Transponder which has non-DVB standard channels and which only can be found when you have entered necessary settings.

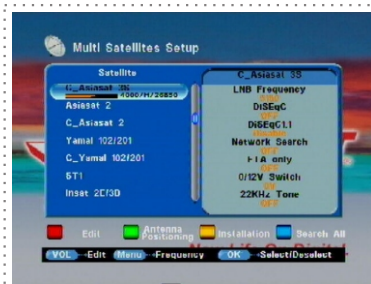
You can also add or delete channels by color keys from specific Transponder,
 PCR PID: Enter the PID (Packer Identifier) for the PCR (Program clock Reference).
 Video PID: Enter PID for the video signal.
 Audio PID: Enter PID for the audio signal.

5-1-5 Search All (Blue key in Installation menu)



By pressing the BLUE key in the Installation menu, will search all channels of the satellite regardless of the frequency.
 If you want to stop Search All while search channels, press RED key.

5-1-6 Multi Satellite Setup



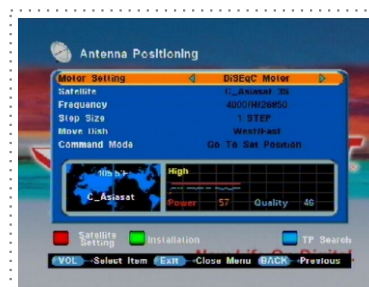
This mode can be accessed by pressing YELLOW key on the Installation menu. In this mode, you can modify each satellite's setting value, satellite list (add, delete, rename or move) and operate multi satellite search.
 RED key (Edit): To Add / Delete / Rename / Move / Locked
 BLUE key (Search All): To start channel searching of selected all satellite.

5. Main Menu

5-1-7 Antenna Positioning



Antenna Positioning (DiSEqC 1.2)
 This mode will allow you to set the antenna position for each satellite.
 In order to use antenna positioning you must use a motor controlled by DiSEqC 1.2 commands. To move the antenna, select the desired satellite, transponder, and step size. Then select Move Dish and press ◀▶ to move the antenna West or East. If you selected continuous for the step size, the antenna will move continuously until you press another key. Once the antenna is positioned properly, select Command Mode and choose save, then press OK to save the position. The position number will then be displayed next to the satellite name.
 When you want to move the antenna to a saved satellite position, select the satellite, choose Go To for the Command Mode and press OK. To clear a saved satellite position select satellite, choose Reset for the Command Mode and press OK.



Antenna Positioning (USALS)
 This mode will allow you to use a DiSEqC 1.3 / 2.3 motor controlled by a USALS (Universal Satellite Automatic Location System). To move the antenna, press the OK key to select the Satellite Position, My Longitude and My Latitude.
 Select "Go To 0" and press "OK" in Command Mode for "Position 0" which, for the polar positioner, is the imaginary the polar positioner, is the imaginary point on the geo-stationary orbit of the satellite, which has the same longitude as the place of installation.
 Select "Go To Position" and press "OK" in Command Mode to send the "Reference" command for the polar positioner which is utilized during re-calibration of the polar motor function. If you wish to manually control the positioner, use the "Step Size" and "Move Dish" commands to move the antenna.

5. Main Menu

5-2 System Setting

5-2-1 Edit Channel



The factory set password is 000000. From these menus you can create and edit channel lists. You can create a favorite channel list, delete, rename and arrange the order of the channels within the lists.

The TV list can contain hundreds of channels. By creating your own favorite list, you can make channel handling a bit more convenient or by factory default.



Move Channels

In this mode you can arrange the sequence of channels within your lists.

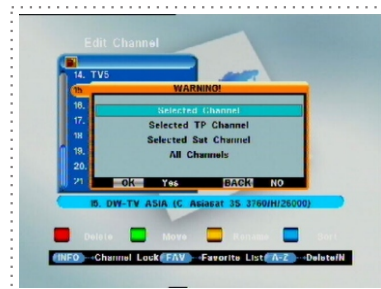
- 1) Select the channel you want to move using the ▲, ▼ keys.
- 2) Press the GREEN key to select the Move mode. The right side of the highlighted channel will change to indicate Move mode has been selected. You can move more than one channel at one time by marked.
- 3) Press ▲, ▼ keys again to move the channel.
- 4) When the channel is in the desired position, press OK to confirm the move.

Delete Channels / Delete Channel Groups / Delete All

In this mode you can delete individual channels or channel groups or all channels from within your lists.

Please note: Channels deleted in this way will be permanently deleted. The only way to get them back is to perform a new channel search.

- 1) Select the channel you wish to delete using the ▲, ▼ keys.
- 2) Press A-Z button to mark a channel for deleting.



- 3) Select Delete Mode by pressing the Red Key.
- 4) Select Selected Channel or All Channels by using the ▲, ▼ keys.
- 5) Confirm the deletion by pressing the OK keys or else press the BACK or EXIT key if you wish to cancel the operation.

5. Main Menu



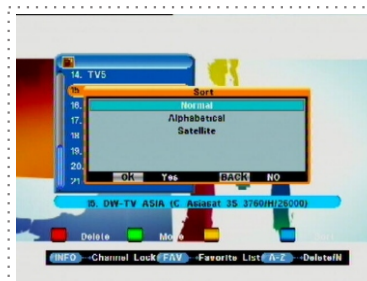
Rename channels

Within any of your favorite lists you can rename the channels. Mark the channel you want to rename and press the YELLOW key.

The rename dialog box will then appear and let you modify the existing name.

- 1) Select the specific channel which you want to change the name of.
- 2) Press the YELLOW key on your RCU to display rename mode.

- 3) Enter the characters (A...Z, 0...9) one-by-one using the ▲, ▼, ◀, ▶ keys.
- 4) Press the OK key for typing.
- 5) Press the YELLOW (Skip) key to make a space between characters.
- 6) Press the RED key if you wish to delete a character.
- 7) Press the GREEN (save) key to save the name.



Sort

See the page 11
(4-4 Channel list for TV/Radio/Favorite)



Channel Lock / Favorite

Pressing INFO key will select lock mode and release.

If you turn on the favorite attribute the channel will be added to your favorite list. You can make favorite channel groups by press FAY.

Normal Favorite1 - Favorite2... - Favorite8 - Normal

5. Main Menu

5-2-2 Parental Control



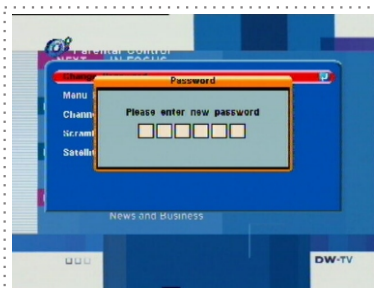
Parental Control

In the parental control menu, you can set the censorship classification or change the PIN code. From the factory the default access PIN code is set to 000000.

You can set On/Off by pressing left(◀) or right(▶).

The following settings can be altered from this menu.

- 1) Menu lock: Only available SYSTEM SETTING and INSTALLATION.
- 2) Channel lock: If you turn the lock attribute on by pressing the◀,▶keys, the channel will only be viewable after you enter a password. This feature is useful to prevent young viewers from watching inappropriate channels.
- 3) Scramble lock: If you turn the lock attribute on by pressing the◀,▶keys, the pay channels will only be viewable after you enter a password.
- 4) Satellite lock: If you turn the lock attribute on by pressing the◀,▶keys, all the channels under this satellite will only be viewable after you enter a password.



Change Password

From here you can change the access Password from the standard 000000.

DO NOT FORGET IT. Without it you do not have access to any of the functions where the code is required.

To change the new access password, enter the new password number and press ok.

You will then need to confirm your new password by entering it once more and press ok.

5. Main Menu

5-2-3 Time Adjustment



Automatic Update: This item is used to set the time by using the time signal from the satellite. Press◀,▶to change the setting.

“Date Setting” and “Current Time” items are only available when the “Automatic Update” is set to “OFF”. Press◀,▶to select one item and use number buttons to input time and date directly.

The “Automatic Update” item is only available when “Automatic Update” is set to “ON”. Press

◀,▶to set the “Automatic Update” value.

With every time you press the button the time offset will be increased/decreased by half an hour.

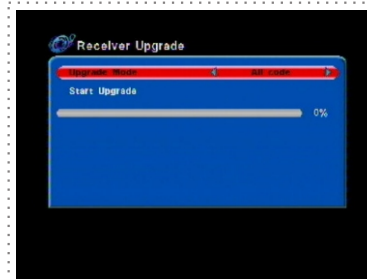
Summer: Press◀,▶to switch this function “On” or “Off”.

Time Display: Press◀,▶to switch this function “On” or “Off”.

NOTE: If the current channel provides the correct time information, you will see the current time after you entered “Local Time Setting” menu. If the channel doesn't provide time information, you have to input the date and time information manually. The most channels support the time signal.

Press [BACK] to leave the “Time” menu.

5-2-4 Receiver Upgrade



This function allows you to upgrade the software of the receiver. This can be done from PC to receiver or from a master receiver to a slave receiver.

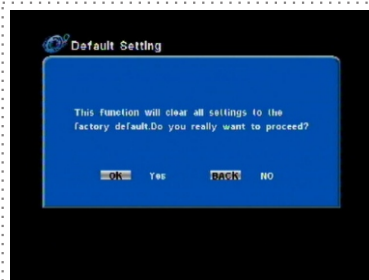
- 1) Connect master receiver or PC to the slave receiver via serial interface (0-Modem cable). Enter the “Software Upgrade” menu of the master receiver and press◀,▶to change the upgrade mode. Upgrade modes include: All code / Main code / CAS-data / Script GUI / Radio Back / default DB / User DB.
- 2) Switch on the slave receiver.

- 3) Mark “Start” on the master receiver and press [OK] to start upgrade. Wait until the display on the front panel shows “-END”. Then switch off the receiver and on again. Now the new software is used.

- 4) Press [BACK] to save the setting without upgrade.

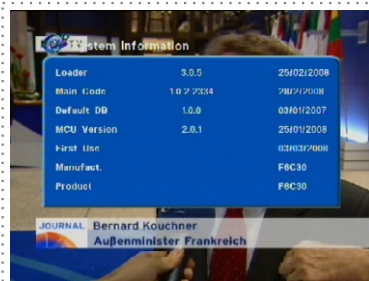
5. Main Menu

5-2-5 Default Setting



In the default setting mode, you will be asked to confirm your desire to clear all settings to the factory default or not. Default channel list will replace the existing channel list with the factory default channel list. All satellite and transponder lists will be set to the factory default as will the user preference settings. When you are ready to confirm setting the system to the factory default, Press the OK key. If you press the BACK key, the function will be cancelled and return to the system Installation menu.

5-2-6 System Information



This displays general information about which hardware and software version your receiver is running on.

5-2-7 Event Timer



Event Type: Change ch, wake up, sleep.
Mode: once, daily, weekly
Press the green key, and you can add more reservation list. You can change event type by left / right key, and you can select the channel in channel list by OK key. You can change once, daily and weekly in Mode. Press OK key in mode or duration after adjusting date, time and channel, and the reservation is done. In case that mode is sleep or change ch,

confirmation window appears and informs before 1 minute to be reserved all reservation lists need the reserved time after 1 minute from now on. Select the EPG list in Tip program guide and press RED key, and then you can simply enter the date, time and channel into event timer.

5. Main Menu

5-2-8 Hotkey



Hot Key Function

In this function, user can change color keys and function keys on the RCU for their functions (In viewing mode). The setting can be made from hotkey menu by using OK button to change the functions. For example, if the F3 key is for Multi picture, you can change to event timer using this function. If you want to go back to factory default, simply press RED key.

5. Main Menu

5-3 User Preference

From here you can access the Menu Language, First Audio Lang, Second Audio Lang, TV screen format, TV Type, Video Output.

- Menu Language: English, German, Spanish, Portuguese, Turkish, Polish, Russian, Arabic, Farsi and French.
- First Audio Lang: English, German, Spanish, Portuguese, Turkish, Polish, Russian, Arabic, Farsi and French.
- Second Audio Lang: English, German, Spanish, Portuguese, Turkish, Polish, Russian, Arabic, Farsi and French.
- TV Screen Format: Select the type of television screen format you have (Auto, 4:3PS, 4:3LB, 16:9)
- TV Type: Select the type of television screen type you have. (Auto, PAL, PAL-M, APL-N, NTSC3.58, NTSC4.43)
- Video Output: Is use for switching the screen aspect ratio mode. (RGB, CVBS)
- RF Channel is use for switching the screen aspect ratio mode. (21-69)
- R F Audio Type: is used to switch the display mode. (PAL-BG, PAL-I, PAL-DK, NTSC)
- Transparency: With this parameter you can set the transparency of the menus. (10%, 20%, 30%, 40%, Off)
- Channel Info Timeout: This setting determines the duration the info window is displayed on the screen when you change channels. (1 to 10)

LNB Power: Here you can set the power output to the LNB. (ON and OFF)

Press the Left / Right (◀/▶) button to change the value, OK/BACK Button to go to previous menu and EXIT button to go to full screen.

5-4 Games

Our receiver has built in games for your enjoyment.

In order to play the games, please go to main menu and select games and choose one to play.

5-5 Smart Card



In this option, you can find information about the conditional access system. If there is no card or it is placed incorrectly, information about "No card", "Unknown" will be showed on the screen. With a FELEC-CAS card, information about the card will be showed.

Note: Card must be inserted with chip in upper side.

6. New Features

6-1 A/V Selection

Press Blue key in the viewing mode, and you can adjust the setting of Audio / Video.

Audio

Alternate Video: select the video channel in case that several video channels input.

Output Mode: select the audio output mode among stereo (LR), Mono (LL) and Mono (RR) Alternate Audio: select the audio channel in case that several audio channels input.

Video

Display Mode: Select the type of television screen type you have Auto, PAL, PAL-M, APL-N, NTSC3.58, NTSC4.43.

TV Screen Format: adjust the screen format among Auto, 4:3PS, 4:3LB, 16:9.

Video Output: adjust the video output RGB and CVBS.

VCR Loophrough: adjust the VCR loopthrough STB Master and VCR Master.

7. Troubleshooting

There may be various reasons for abnormal operation of the unit. Therefore, if the unit does not work properly, check the unit according to the procedures shown in the table below.

Problem	Possible causes	What to do
*The display on the front panel does not light up.	*Main cable is not connected.	*Check that the main cable is plugged into the power socket
*No sound or picture.	*Wrong connection of the video / audio output to the TV input terminal. *Wrong connection of satellite antenna cable. *Wrong direction of satellite antenna.	*Connect two terminals correctly with a SCART cable or RCA or RF cable. *Connect the antenna cable correctly. *Adjust the direction of antenna.
*Black-and-White screen or V-Hold problem	*No signal or weak signal. *Wrong setting of channel information in System Installation Menu. *Your TV mode is different from satellite broadcasting mode.	*Check the cable connections LNB and other equipment connected between the LNB and the receiver or adjust the antenna. *Type the setting value correctly. *Use TV of same mode. Use a NTSC / PAL converter connected to the receiver TV.
*The RCU is not working	*Battery exhausted. *Fluorescent light interfering with the remote controller. *RCU is incorrectly aimed	*Change the batteries. *Switch off the light. *Aim the RCU at the receiver.

8. Technical Specifications

A/V & Data In / Out

TV SCART: Output (CVBS, RGB, Audio R / L)
VCR SCART: In / Output (CVBS, Audio R / L)
VIDEO OUT: 1×RCA Cinch
AUDIO OUT: 2 RCA Cinch
RS232C: Transfer rate 115, 200 bps / 9 pin D-sub Type

Power Supply

Input Voltage: 100 - 240V ~ 50 / 60Hz
Type: SMPS
Power consumption: Max. 30W
Standby Power: 8W
Protection: Separate internal fuse.
The input should have lightning Protection

Physical Specification

Size (W×D×H): 340×260×65mm
Weight (Net): Approximately 2 Kg,
Operating Temp: 0°C to + 45°C
Storage Temp: -10°C to + 70°C
Storage Humidity: 5% ~ 95% RH (Non-Condensing)

RF Modulator

Connector: 75Ω IEC 1 69 2, Male / Female
Frequency: 470MHz to 860MHz
Output Channel: Ch21 ~ 69 for the Demodulator
TV Standard: PAL G / I / K, NTSC M selectable by Menu Setting
Pre - Set Channel: Channel 36 (or TBD)

8. Technical Specifications

Tuner & Channel

Input Connector: F-type, IEC 169 24, Female
Frequency Range: 950MHz to 2150MHz
Input Impedance: 75ohm or 75Ω. Unbalanced
Signal Level: -25 to-65dBm
LNB Power & Polarization: Vertical $\pm 13V$ /Horizontal $\pm 1.8V$
Current: 500mA Max overload Protection
22KHz Tone: Frequency -22KHz $\pm 4KHz$
Amplitude: 0.6V $\pm 0.2V$
DiSEqC Control: Version 1.0 / 1.2 / 1.3 compatible
Demodulation: QPSK
Input Symbol Rate: 1-45 Ms / s
FEC Decoder: Convolutional Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8
with constraintLength K=7

MPEG Transport Stream A/V Decoding

MPEG Transport StreamA/V Decoding
Transport ~ Stream: MPEG-2 ISO / IEC 13818
Transport ~ Stream: Specification
Profile Level: MPEG-2 MP @ ML
Input Rate: 100 Mbit/s Max
Aspect Ratio: 4:3, 16:9
Video Resolution: 720 \times 576(PAL)/ 720 \times 480 (NTSC)
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: NEC UPD61217 (32bit @ 284MIPS)
Flash Memory: 2 Mbyte
Program DRAM: 32 Mbyte

MEMO

MEMO



MEMO

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MEMO



MEMO

Lined area for writing on the right page.



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