

SAFETY PRECAUTION



Important Safety Instructions

- 1, Read these instructions
- 2, Keep these instructions
- 3, Heed all warnings
- 4, Follow all instructions
- 5, Do not use this apparatus near water
- 6, Clean only with dry cloth
- 7, Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8, Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9, Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10, Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11, Only use attachments/accessories specified by the manufacturer.
- 12, Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use cautions when moving the cart/apparatus combination to avoid injury from tip-over.



- 13, unplug this apparatus during lightning storms or when unused for long periods of time.
- 14, Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged. Liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15, **WARNING:** to reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 16, The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

SAFETY PRECAUTION

CAUTION:		
	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage" within the product enclosure that may be so sufficient magnitude to constitute a risk of electric shock to a person.	Warning: To reduce the risk of electric shock, do not open the cover or cabinet. No user serviceable parts inside. Refer servicing to qualified personnel only.	The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

WARNING: The apparatus shall not be exposed to dripping or splashing of liquids. No objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: Do not put a candle or lamp on the cabinet, as this can cause a risk of fire.

WARNING: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply to your home, consult your local dealer or power company.

Important Safety Instructions

WARNING: The batteries of the remote control should not be exposed to excessive heat such as fire, direct sun, or similar.

WARNING: Maintenance personnel must use the appropriate tools and replacement parts as specified by the manufacturer.

Note: Do not open the cabinet on this unit, as this may expose you to dangerous voltages and radiation.

Unit Cleaning: After the unit power is turned off, you can clean the cabinet, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer's approval, as this may result in the risk of fire, electric shock or other personal injury.

Locating: Slots and openings in the cabinet are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing the unit on a bed, sofa or other similar surface.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the unit.

Object and Liquid Entry: Never put objects of any kind into this unit through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the unit.

Note: Moisture may be formed inside the unit under the following conditions:

- When the unit is suddenly moved from a cold environment, or an air-condition room, to a warm place.
- Immediately after a heater has been turned on.
- In a steamy or very humid room.

If moisture forms inside the unit, it may not operate properly. To correct this problem, wait several hours for the moisture to evaporate before operating the unit.

Parts Replacement: When the unit parts need to be replaced, user should make sure the service technician uses the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may create a risk of fire, electric shock or other hazards.

Safety Check: After all the maintenance and repairs are done, the user should request the service technician conduct an overall safety check, to ensure the unit is in proper operating condition.

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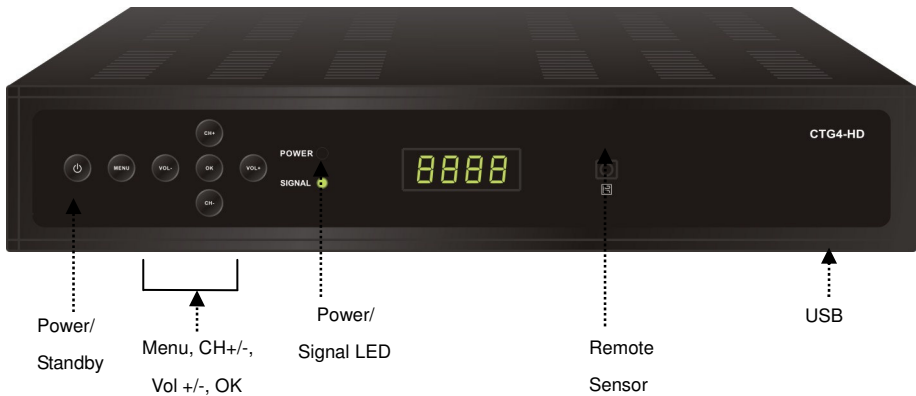
1. Settop Description & Remote Control

1.1 Settop Description

This Settop allows you to receive unencrypted (free) and encrypted (paid tier) Digital Cable programs from your Cable TV Service Provider.

The Settop will search for additional new channels as soon as you launch the automatic channel search. All Settop settings can be easily configured via the user interface (Settop Menu).

1.2 Front Panel Description

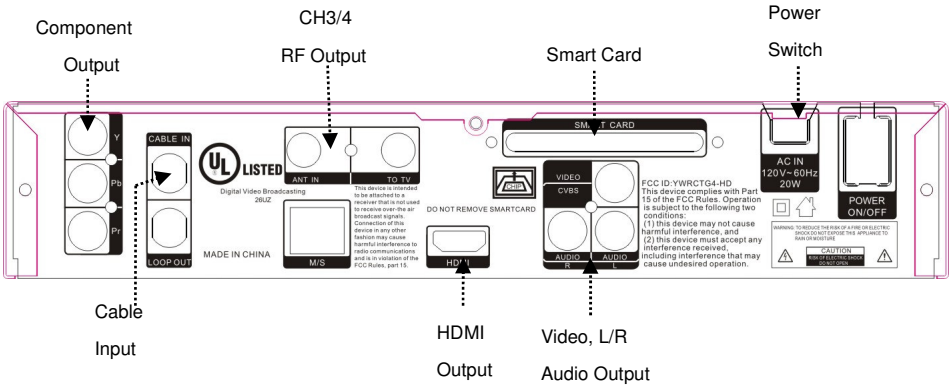


1	POWER Button	Used to switch the Settop between the ON mode and Standby mode (Make sure the rear panel ON/OFF switch is set to ON).
2	Remote Sensor	Detects the infrared (IR) signals from the remote control unit. Point your remote toward this area when selecting channels, adjusting volume, etc.

Remote Control & Panel Description

3	Display (4-Digit / 7-Segment)	When the Settop is on, this will display the Channel Number you are watching. When the Settop is in standby mode, this will display the current Time.
4	LED: Power/Signal	Red light (POWER) is displayed when Settop is plugged in and rear panel switch is in ON position. Yellow light (SIGNAL) is displayed when the Settop is ON and properly tuned to a channel.
5	VOL+/-	Press these buttons to adjust the sound level. You may also need to adjust your TV volume control to achieve the desired sound level. These will also serve as Cursor buttons, for navigating and changing preferences in the Settop Menu.
6	MENU	This button allows you to enter the Settop Menu, making it possible to set the Settop features to your preference without using the remote control. This button will also allow you to exit all Menus.
7	CH+/-	Press these buttons to change the channel. These will also serve as Cursor buttons, for navigating and changing preferences in the Settop Menu.
8	OK	Press this button to display the channel list. This button will also serve as the OK button while in the Settop Menu.
9	USB	Flip down the front panel cover to reveal the USB jack. Use this to connect an external USB device, which can be used to view pictures, as well as record and playback video content.

1.3 Rear Panel Description



1	CABLE IN	CABLE input of the tuner. Connect your Cable TV signal to this jack.
2	LOOP OUT	CABLE output for connecting Cable TV signal to another device. This jack will output the cable signal at all times, whether the receiver is on or off.
3	HDMI	High Definition Multimedia Interface connection. This connection enables secure distribution of uncompressed high-definition video and audio, in a single cable. Because signals remain in digital format, HDMI assures that the images retain the highest video quality from your Settop to your TV.
4	VIDEO	Composite video output for connecting to your TV video Input jack.

Remote Control & Panel Description

5	AUDIO	AUDIO output for connecting to your TV Audio Input jacks.
6	SMART CARD	De-scramble pay TV services for encrypted-premium channel content reception (contact your Cable TV Provider for this Card and to order programming). Be sure the Smart Card is inserted with proper orientation.
7	TO TV	RF Modulator output for connecting to your TV RF input (Analog CH3/4 RF Output).
8	ANT IN	Antenna input for connecting a terrestrial off-air antenna. This input will pass thru to the 'TO TV' output, but only when the Settop is set to Standby or Off.
9	Y Pb Pr	Component output for connecting high quality Video to your TV.
10	AC IN	Main Power cord for your Settop.
11	POWER ON/OFF	Allows user to completely switch off power to the Settop, without having to unplug the Main Power cord.

1.4 Remote Control Description



2. Basic Operation

2.1 Switch 'ON' the Settop

First, plug in your Settop. Next, set the Power ON/OFF switch on the rear panel of the Settop to 'ON'. Then, press the [Power] button on the front panel or remote control, to turn the Settop ON. When the Settop is first used, it will start a 'First Time Setup' walk-thru operation.

? Frequently Asked Question

Q: My Settop is powered on, but the TV screen shows nothing:

A: Make sure your TV is set to the correct video input. For example, if you have connected the Settop to the HDMI1 input of your TV, then you need to select the corresponding input of the TV.

Q: My Settop is powered on, but only a "No Signal" display is shown.

A: The channel you selected has no signal. This can be caused by several reasons:

1. The channel you selected currently has no programming from your cable provider. Select another channel.
2. The signal of the current TV channel is too weak. You can try changing to another channel with a stronger signal. If the problem still exists, please consult your local Cable TV Provider.

2.2 Standby Mode

1. Press the [Power] button on the front panel or remote control, to switch from operational mode [ON] to standby mode [OFF].
2. In standby mode, press the [Power] button on the front panel or remote control, to switch to operational mode [ON]. The last active channel will be tuned and displayed.
3. To switch the Settop off completely, set the Power ON/OFF button on the Rear Panel to [OFF]. Or, you may unplug the main power cord from the AC wall outlet.

2.3 MUTE

1. Press the [Mute] button to mute the sound. An icon will be displayed on the screen to indicate the sound has been muted.
2. Press the [Mute] button again to restore the sound.

2.4 AUDIO

1. Press the [Audio] button to open the Audio Mode window.
2. Select the desired audio program with [CH▲/▼] and change the value with [VOL◀/▶].



2.5 RECALL

Press the [Recall] button to toggle between the current channel and the previously selected channel.

*You may also use this [PGDN / RECALL] button when in the GUIDE to quickly page down thru the available channels.

2.6 Channel Numbers

Enter the channel number directly with your remote control and confirm the number with the [OK] button, to change to the desired channel.

2.7 PPV

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2.8 GUIDE

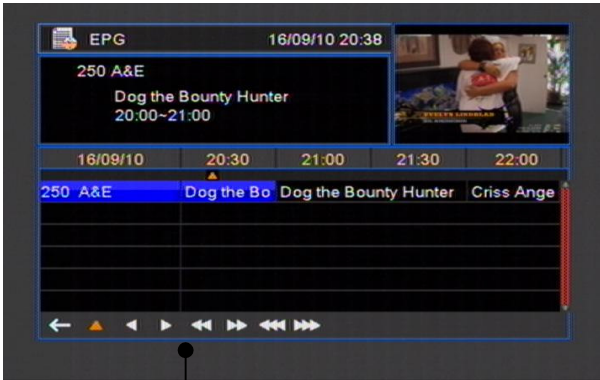
The Settop has an Electronic Program Guide (EPG) to help you navigate through all available channels. The EPG supplies information such as channel listings, program descriptions, and starting/ending times for all programs.

Press the [GUIDE] button to display the Electronic Program Guide.







NOTE: When in this menu, use the color buttons on your remote control to correspond to the color coded function (for example, the Green-Time feature is accessed by pressing the Green-GUIDE button on your remote).

1. Press the RED button on the remote control, which corresponds to the RED (Time) command on the bottom of the screen. You will then enter into the following screen.



Icons to navigate
around the EPG

2. Use the [VOL ◀/▶] buttons to select the chosen icon, then press the [OK] button to set that action. Press the [EXIT] button to return to the original EPG screen.

-  Back to actual time
-  Navigate at a “30 minute interval“
-  Navigate at a “2 hour interval“
-  Navigate at a “daily interval“

3. Press the GREEN button on the remote control, which corresponds to the GREEN (Timer) command on the bottom of the screen. You will then enter into the following screen.



To navigate, press the [CH▲▼, VOL◀▶] buttons and set related date, as well start time and duration. Using this Timer menu, you may set the Settop to tune your desired channel (or tune and record) at a preset time. Save your settings by highlighting 'Save' and pressing the [OK] button.

2.9 CH ▲/▼

Press the [CH▲/▼] buttons to change the channel.

2.10 VOL ◀/▶

Press the [VOL◀▶] buttons to adjust the volume.

2.11 OK

1. Press the [OK] button to open the Channel List window. You can also select your different "Favorites" groups by pressing [VOL◀/▶].
2. Once you've selected the desired Channel / Favorites list, you can select the desired channel by pressing the [CH▲/▼] buttons to highlight the channel, then confirm it by pressing the [OK] button.
3. Press the [EXIT] button to return to normal TV viewing.

You may also use the [OK] button to direct tune a channel. First, enter the desired Channel number using the remote control number keys, then press [OK] to tune that channel.

You also use this [OK] button while setting features in the Settop Menu system.

2.12 MENU

Press the [Menu] button to enter or exit the current menu.

2.13 EXIT

Press the [Exit] button to exit the current menu. You may press this button to escape any on screen display or function, including: ZOOM, INFO, GUIDE, Channel List, etc..

2.14 PAUSE

1. Press the [PAUSE] button and the picture will be paused, but the sound of the channel will still continue.
2. Press the [PAUSE] button again to return to normal viewing.

2.15 ZOOM

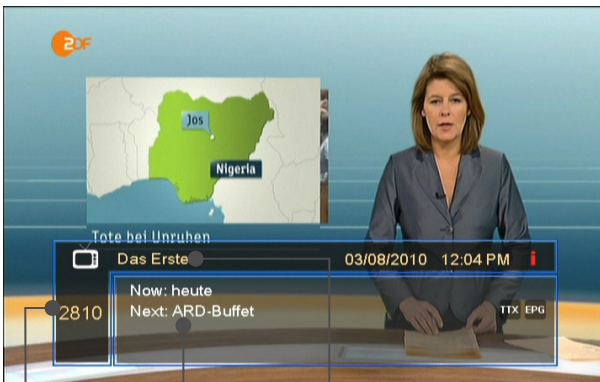
1. The [Zoom] button allows you to magnify the video. You may use this button during normal viewing, or you may press [PAUSE] and zoom a still picture.
2. Press the [Zoom] button the first time and you will see 'ZOOM x1' displayed in the lower right corner of the TV screen. Press [ZOOM] again and the image will enlarge to 'ZOOM x2'. Press [Zoom] again, and repeat until you reach the desired magnification (Zoom has the following possible magnification settings: x1, x2, x4, x6, x8, x12, x16).
3. In "x2 ~ x16" Zoom mode, use the [CH▲/▼ / VOL◀/▶] buttons to move the image center area to the portion of the video you want to view.
4. Press the [Exit] button to close the "Zoom" window.



*You may also use this [PGUP / ZOOM] button when in the GUIDE to quickly page up thru the available channels.

2.16 INFO

Press the [INFO] button to open the information screen. This window will show the channel number being received, the channel ID, program description, and the current date and time.



Channel
number

Service
Information

Channel name

3. Menu

3.1 Programs:



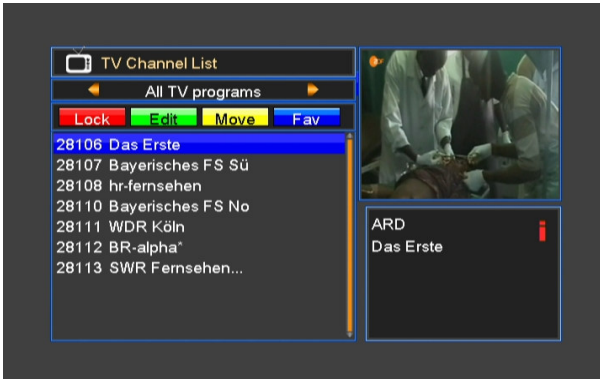
3.1.1 TV Channel List

The TV Channel List menu allows you to modify the channel list to your preference.

Note: When in this menu, use the color buttons on your remote control to correspond to the color coded function (for example, the Green-Edit feature is accessed by pressing the Green-GUIDE button on your remote).

Using this menu, you may:

- a) Set the channels to be protected by Lock.
- b) Edit, or rename, your channels.
- c) Move, or rearrange, the channel order.
- d) Set you favorite (FAV) channels into specified 'Favorite Lists'.



Move the “highlighted” selection to the desired channel by pressing the [CH▲▼] buttons. Then press the [OK] button to preview the current highlighted program in the top, right preview window.

3.1.1.1 Lock

1. Press the [RED] button on the remote, to enable the “Lock” mode. Use the [CH▲▼] buttons to highlight a channel you wish to protect/Lock, and confirm the action with the [OK] button. Enter the PIN code (default is ‘0-0-0-0’). Once a channel is Locked, a small icon will be visible next to the channel.
2. Press the [RED] button again, or press the [EXIT] button, to exit “Lock” mode.

Once all “Lock” changes have been made, press the [EXIT] button to return to the main ‘Channel List’ menu. At this time, a message will appear asking, “Are you sure to save?”. Select yes, press the [OK] button, and all of your ‘Lock’ settings are saved.

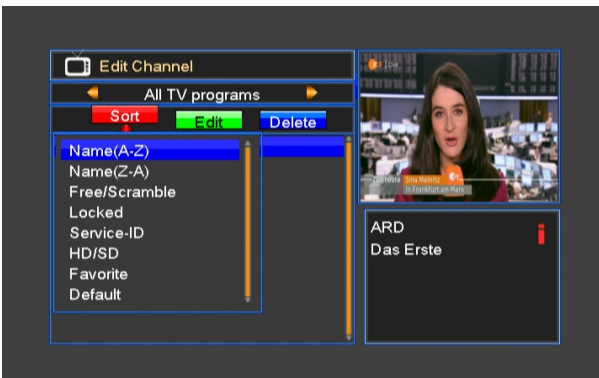


3.1.1.2 Edit

Press the [GREEN] button to enable the “Edit” mode. You can then select between “Sort”, “Edit” and “Delete”.

3.1.1.2.1 Sort

Press the [RED] button to “Sort” the channels, then select the sorting method you prefer. There are eight sorting methods available. Press the [CH▲▼] buttons to highlight the desired sorting method and press the [OK] button to confirm.

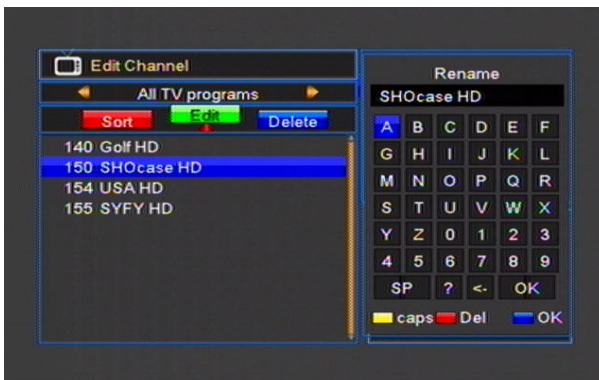


Available sorting options.

- **Name (A-Z):** Sorting in Alphabetical order.
- **Name (Z-A):** Sorting in reverse Alphabetical order.
- **Free/Scramble:** All Free channels will be listed first and Scrambled (paid tier) channels will be listed next.
- **Lock:** All locked channels will be listed first in channel list.
- **Service ID:** Sorting the channels by Channel Number.
- **HD/SD:** All HD channels will be listed first and SD channels will be listed next.
- **Favorite:** All Favorite channels will be listed first.
- **Default:**

3.1.1.2.2 Edit

Press the [GREEN] button, then press the [CH▲▼] buttons to highlight a channel you wish to Edit, and confirm the action with the [OK] button. This will open the “Rename” window as shown below:



1. Press the [YELLOW] button to select 'CAPS', this will set the letters to capital case or lower case.
2. Press the [RED] button to select 'Del', this will delete the last character shown.

3. Press the [BLUE] button to select 'OK', this will save the Rename changes you have made.
4. Press the [EXIT] button to cancel the operation and Exit the "Rename" window.

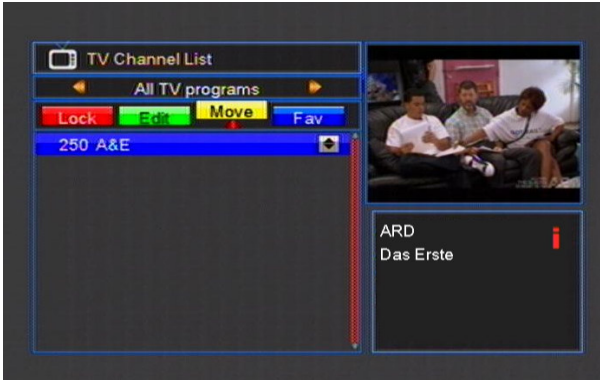
3.1.1.2.3 Delete

1. Press the [BLUE] button, then press the [CH▲▼] buttons to select a channel you wish to Delete from the channel list, and confirm the action with the [OK] button. An 'x' will appear next to the channel you have chosen to delete.
2. Press the [BLUE] button again, or press the [EXIT] button, to exit "Delete" mode.

Once all "Delete" changes have been made, press the [EXIT] button to return to the main 'Channel List' menu. At this time, a message will appear asking, "Are you sure to save?". Select yes, press the [OK] button, and all of your Delete changes are saved.

NOTE: If you delete a channel from the main TV Channel list and would like to add it back, you must perform an 'Auto Scan'.

3.1.1.3 Move



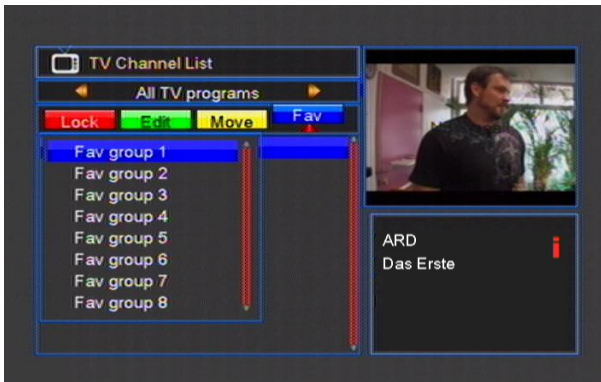
1. Press the [YELLOW] button, then press the [CH▲▼] buttons to highlight the channel you wish to move, and confirm the action by pressing the [OK] button. A small icon will appear next to the channel you have chosen to Move.
2. Press the [CH▲▼] buttons to Move the selected channel to the desired location in the Channel List.
3. Press the [OK] button to drop the channel into the desired location in the Channel List.
4. Press the [YELLOW] button again, or press the [EXIT] button, to exit "Delete" mode.

Once all "Move" changes have been made, press the [EXIT] button to return to the main 'Channel List' menu. At this time, a message will appear asking, "Are you sure to save?". Select yes, press the [OK] button, and all of your Move changes are saved.

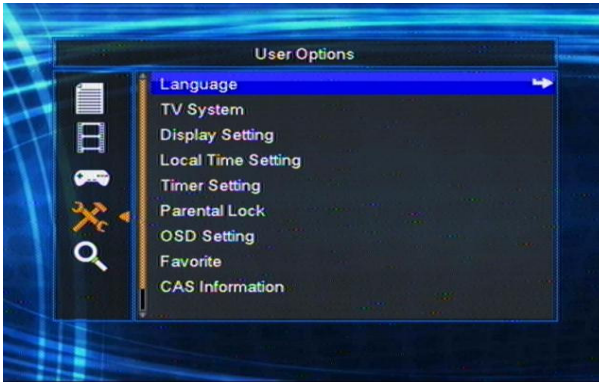
3.1.1.4 Favorites

1. Press the [BLUE] button, then press the [CH▲▼] buttons to highlight the channel you wish to add to your Favorite List.
2. Press the [OK] button and a drop down menu of 'Favorite Lists' will appear.
3. Press the [CH▲▼] buttons to highlight the 'Favorite List' you would like to add the selected channel to.
4. Press the [OK] button to add the channel, a small icon will appear next to the 'Favorite List' you have chosen.
5. Press the [BLUE] button again, or press the [EXIT] button, to exit "Favorite" mode.

Once all "Favorite" changes have been made, press the [EXIT] button to return to the main 'Channel List' menu. At this time, a message will appear asking, "Are you sure to save?". Select yes, press the [OK] button, and all of your Favorite changes are saved.



3.2 User Options

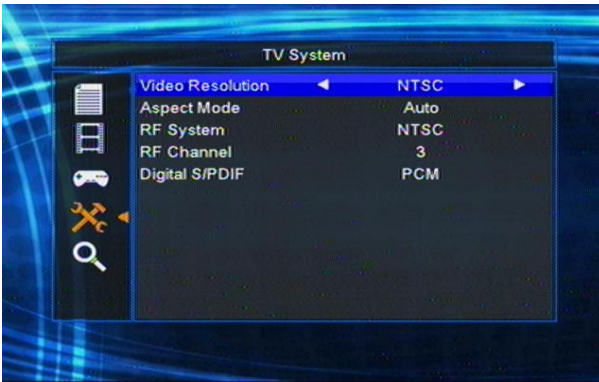


3.2.1 Language



1. Press the [CH▲▼] buttons to highlight 'Language'. Then press the [VOL◀▶] buttons to select from the many available menu languages, including: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish and Italian.
2. Closed Caption: You can set the Closed Caption language if the operator provides such service.
3. Press the [Exit] button to return to the 'User Options' menu.

3.2.2 TV System



3.3.2.1 Video Resolution

Press the [CH▲▼] buttons to highlight 'Video Resolution'. Then press the [VOL◀▶] buttons to cycle through the available Video Resolutions: -> 480P -> 720P -> 1080i.

NOTE:

- a. This setting only affects the HDMI and Component (YPbPr) output.
- b. Be sure your TV supports the format you select.

3.2.2.2 Aspect Mode

Press the [CH▲▼] buttons to highlight 'Aspect Mode'. Then press the [VOL◀▶] buttons to cycle through the available Aspect Modes: Auto -> 4:3PS -> 4:3LB -> 16:9

3.2.2.3 RF Channel

Press the [CH▲▼] buttons to highlight 'RF Channel'. Then press the [VOL◀▶] buttons to select CH3 or CH4.

NOTE: This will set the 'TO TV' output connection on the rear of your Settop. This is used to connect to an analog TV set using a standard RF cable.

3.2.3 Display Setting

This menu allows you to set the picture Brightness, Contrast, and Saturation levels.

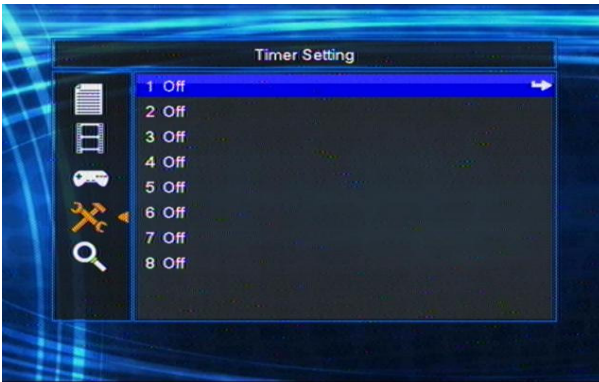


3.2.4 Local Time Setting



1. **GMT-Usage:** Refers to the time provided by the TV signal. Press the [VOL◀▶] buttons to change the settings between 'ON' and 'OFF'. Select 'OFF' if you would like to set the time manually.
 2. **GMT-Offset:** This option is available only when you set the GMT-Offset to 'ON'. Press the [VOL◀▶] buttons, to set "GMT Offset". Select the appropriate 'Time Zone' for your location.
 3. **Daylight Savings Time:** You can set to 'ON' or 'OFF'.
 4. **Date and Time:** These options are only available if you set GMT-Offset to 'OFF'. Press the [VOL◀▶] buttons to move the cursor and use the number buttons to set the date and time.
- NOTE:** There may be instances when your TV signal does not provide the time and date signal. In this case, please set this data manually.
5. Press the [Exit] button to return to the 'User Options' menu.

3.2.5 Timer Setting



1. **Timer Setting:** Press the [CH▲▼] buttons to highlight one of the 8 available Timers. Press [VOL◀▶] to enter into the following menu:



2. **Timer Mode:** Select the required Timer mode with the [VOL◀▶] buttons. Select between 'OFF', 'Once' or 'Daily'.
3. **Timer service:** Select between 'Record' or 'Channel'.
 - If Record is chosen, the Receiver will tune the channel and begin Recording at the set time.
 - If Channel is chosen, the Receiver will tune the channel at the set time.

4. **Wakeup Channel:** Press the [OK] button to enter the channel list and select the related channel you want to set.
5. **Wakeup Date:** Use the number keys to input your wakeup date.
6. **On Time:** Use number keys to set the wakeup time.
7. **Duration:** Set the duration (length of the program you will record or watch) of the selected service.

3.2.6 Parental Lock

Allows you to protect the main menu and the channels (which are previously set in the 'Channel List – Edit' menu) with a PIN code. The default password is "0000":

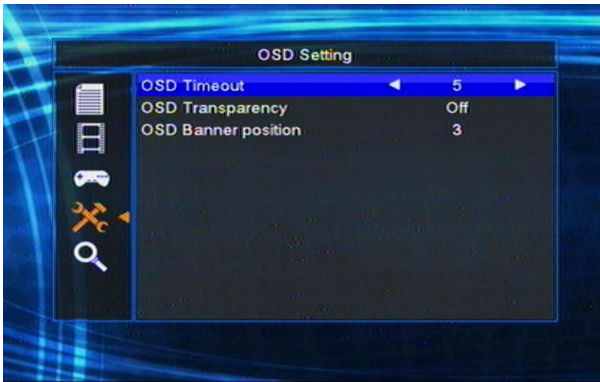


1. **Menu Lock:** Press the [VOL ◀▶] button to set 'ON' or 'OFF'
 - When this is set to 'ON', you must enter the password before you are allowed to access the Settop menus.
 - When this is set 'OFF', no password is required to access the Settop menus
2. **Channel Lock:** Press the [VOL ◀▶] buttons to set 'ON' or 'OFF'.
When this is set to 'ON', the channels which are previously marked as 'Lock' in the 'Channel List – Edit' menu may only be viewed if the correct PIN code is entered. The default password is "0000".
3. **New Password:** You can change the default password from "0000" to any 4 digit number you choose.

NOTE: If you change your password, make sure you do not forget or lose it. If the password is lost, you will have to contact your cable TV Provider for assistance.

4. Confirm Password
5. Press [EXIT] to return to the 'User Options' menu.

3.2.7 OSD Setting



1. **OSD Timeout:** When you are changing channels during normal Settop use, an 'Information Banner' will appear, which gives detailed information about the current channel. This 'OSD Timeout' setting will change the length of time this Information Banner is shown.
 - Press the [VOL◀▶] buttons to set the time. The amount of time this banner will appear can be changed between "1 second ~ 10 seconds".
2. **OSD Transparency:** Press the [VOL◀▶] buttons to select one of the 5 possible levels of transparency, 10%, 20%, 30%, and 40% and "OFF" (this means OSD is NOT transparent).
3. **OSD Banner position:** You can adjust the Information Banner position to one of 14 possible levels, from -10 ~ +3.
 - Selecting the +3 setting will move the Information Banner to the lowest part of your TV screen.

- Selecting the -10 setting will move the Information Banner to our highest setting, slightly below the center of the TV Screen.

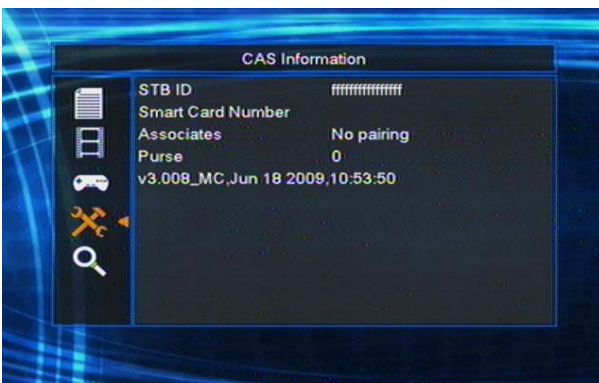
3.2.8 Favorite

Use this menu to rename the 'Favorite' groups to your own preference.



3.2.9 CAS information

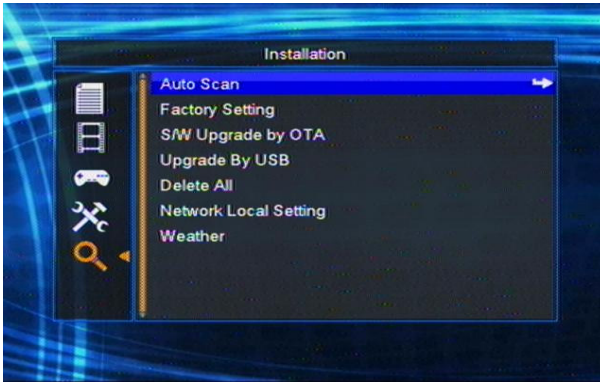
This menu is intended for use with a Smart Card, which will be provided by your Cable TV Provider.



3.2.10 Restore default values:

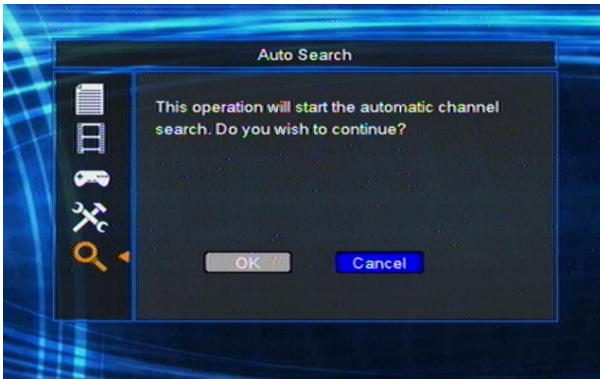
Restores all 'User Option' menu settings back to original Default values.

3.3 Installation



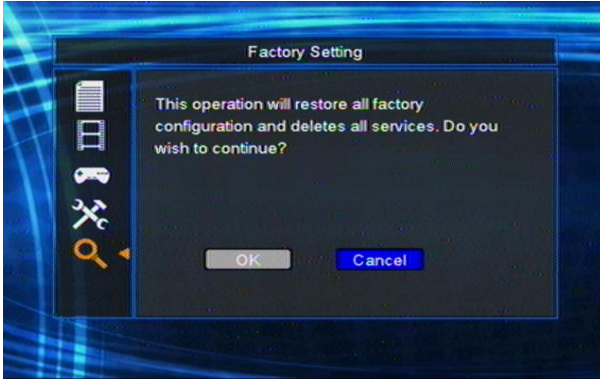
1. Press the [CH▲▼] buttons to highlight the desired function.
2. Press the [OK] button to enter.

3.3.1 Auto Scan



1. Allows you to automatically scan in all available Cable TV channels.

3.3.2 Factory Setting

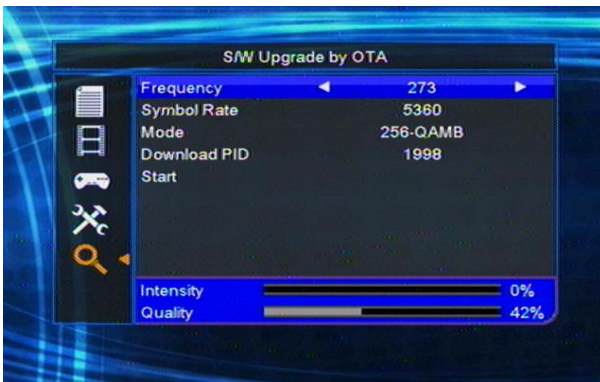


1. Restores your Settop to original factory settings.

NOTE: All channel list information and favorite channels lists will be deleted.

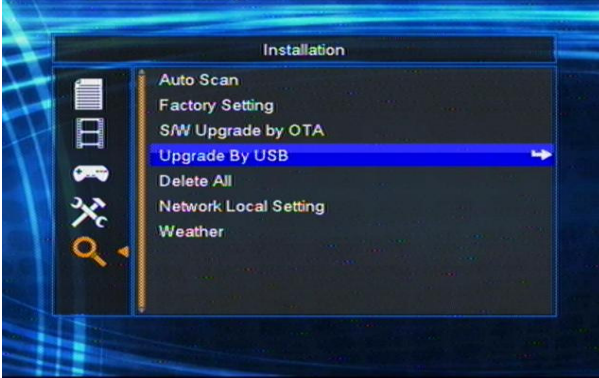
3.3.3 Software upgrade by OTA

The Settop Software may be updated automatically, by an Over-The-Air (OTA) Update.



3.3.4 Upgrade by USB

The Settop Software may also be updated using the USB connection. Your Cable TV Provider will inform you should such an upgrade be necessary.



*When upgrading your Settop Software via USB connection, the update process looks like the following:



Note: Do not remove the USB stick or power off during Update operation.

4. Technical Specification

VIDEO

Decoding	MPEG4 / H.264 and MPEG-2 compatible
Output	480P/720P/1080i
Aspect ratio	4:3PS, 4:3LB, 16:9, Auto

AUDIO

Decoding	MPEG-2/MPEG-1 layer I & II, AAC, Dolby AC3
Sampling rate	32 / 44.1 / 48

DEMODULATOR

Demodulation	16~ 256 QAM, Annex B
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INPUT SIGNAL

RF Input	Type F; 75 Ohms
Frequency	54MHz ~ 864MHz
Input level	-20dBmV -20dBmV

OUTPUT Connections

RF Modulator	CH3/4; Type F; 75 Ohms
V/L/R	Composite Video and analog L/R audio
YPbPr	Component Video
HDMI	Version 1.2, with HDCP v1.3c
USB	USB 2.0

MISCELLANEOUS

Supply voltage	120VAC 60Hz
Power consumption	Max. 20 watts
Operation temperature	+5° to +40°
Storage temperature	-20° to +70°
Dimension (W * D * H)	280 * 210 * 65mm
Weight	1.9 Kg