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Important Safety Instruction

- 1) Read all of these instructions.
- 2) Save these instructions for later use.
- 3) Follow all warnings and instructions marked on the product.
- 4) Follow all instructions.
- 5) Do not use the 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 safely. 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) Do not place the apparatus on an unstable cart, stand or table. The apparatus may fall, causing serious damage to the apparatus.
- 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 moisture, does not operate normally, or has been dropped.
- 15) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Shock Hazard Marking and Associated Graphical Symbols



Explanation of Safety Related Symbols



WARNING: To Reduce The risk of fire or electric shock, do not expose this the TV to rain or moisture.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

WARNING: To Reduce The risk of fire or electric shock, do not expose this the apparatus to rain or moisture.

The main socket-outlet for connecting mains plug shall be accessibly close to this apparatus

Declaration of Conformity

FCC Rule: TESTED TO COMPLY WITH FCC PART 15, CLASS B
OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE.

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

INFORMATION TO USER:

This equipment has tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limit are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, user 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:

- 1. Reorient / Relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.
- 4. Consult the dealer or an experience radio / TV technician for help.

CAUTION: Changes or modifications not expressly approved by manufacturer responsible for compliance could void the user's authority to operate the equipment.

1. SAFETY PRECAUTIONS

This receiver has been manufactured to satisfy the international safety standards.

Please read the following recommended safety precautions carefully.

MAIN SUPPLY: AC 95V~240V 50/60 Hz

LOCATION: Locate the receiver indoor.

Locate receiver away from potential hazards such as houseplants, lighting, raining and direct sunlight.

OVERLOADING: Do not overload wall outlets, extension cords or adapters as this

can result in fire or electrical shock.

LIQUIDS: Keep liquids away from the receiver.

CLEANING: Before cleaning, disconnect the receiver from the wall socket. Use a cloth lightly dampened with water (no solvents) to clean the exterior.

VENTILATION: Do not block the receiver ventilation holes. Ensure that free airflow is maintained around the receiver.

Never set the receiver on soft furnishings or carpets. Do not use or store the receiver where it is exposed to direct sunlight, or near heater.

Never stack other electronic equipment on top of the receiver.

Place the receiver at least 30mm from the wall.

ATTACHMENTS: Do not use any attachment that is not recommended by the manufacturer, as it may cause a hazard or damage the equipment.

CONNECTION TO THE SATELLITE DISH LNB: The LNB connector cable has a voltage in its center core. It is therefore recommended that the receiver is disconnected from the mains power before connecting or disconnecting this cable. FAILURE TO DO SO COULD DAMAGE THE LNB.

SERVICING: Do not attempt to service this product yourself. Any attempt to do so will make the warranty invalid. Refer all servicing to a qualified service agent.

LIGHTNING: If the receiver is installed in an area subject to intense lighting activity, protection devices for the receiver mains connector and modem telephone line are essential. The individual manufacturer's instruction for safeguarding other equipment, such as TV set, Hi-Fi, etc., connected to the receiver, must also be followed during lighting storms.

GROUNDING: The ground of the LNB cable must be directly connected to the system ground for the satellite dish. The grounding system must comply with local regulations.

2. GENERAL FEATURES

- Fully MPEG-2 & DVB Compliant
- Input Frequency 950~2150MHz
- Supports EPG, PIG
- Supports SCPC & MCPC from C / Ku-band
- 1 LNB Input Tuner with Loop Through IF Signal
- Tuner Symbol Rate : 1 \sim 45MS/s
- Fast Booting & Auto Scan
- Quick Channel Changing
- Max. 4000 Channels(TV & Radio) Programmable
- User Friendly 256 Colors OSD & Easy GUI
- A lot of OSD Language supported
- Radio Channel Background Display
- Favorite Channel List Programmable
- Master PIN Code Function & Parental Lock Function
- 100 Steps Volume Control
- Automatic Detection of Forward Error Correction
- Window based S/W Download Program Supported by RS232 Serial Port
- Set to Set Download (Main Program, Channel Data)
- 4:3, 16:9 Letter Box
- Support Closed Caption
- 7 Segment-4 Digit Display
- 5 Keys on the Front Panel (Power On/Off, Channel Up/Down, Volume Up/Down)
- Various LNB Polarity Control
 - 22KHz Switching Control
- 6 RCA Output for Video, Audio L/R, Component
- S/PDIF Output for Digital Audio
- S-VIDEO Output
- RF-Modulator Output
- Zoom function
- Multi Picture
- Blind Scan
- USALS

3. HOW TO CONNECT YOUR RECEIVER

Please DO NOT plug in the main power supply cord until you have finished all the connections.

1) LOCATION OF THE RECEIVER

Your receiver should be placed under proper ventilation.

Don't put in completely enclosed cabinet that will restrict the flow of air, Resulting overheating.

The location should be safeguarded from direct sunlight, excess moisture,

rough handling or household pets.

Avoid stacking other electronic components on the top of the receiver.

The location should be safely accessible by the cable from your antenna system.

2) CONNECTING THE RECEIVER WITH DISH SYSTEM

After installing your dish system, connect the coaxial cable from LNB of your dish antenna to "LNB IN" terminal marked at the rear of the receiver.

All cable connectors should be finger tightened; do not use any kind of wrench on the cable over connectors.

The cable should be 75Ω impedence coaxial twisted at the end with a "F" type connector.

3) CONNECTING THE RECEIVER TO TV

To connect the receiver with your television, you can follow three method; through RF cable, RCA cable, COMPONENT cable and S-Video cable.

Connect the RF cable to the terminal marked "TV OUT" at the rear panel of the receiver and its other end to the TV RF input socket.

4) CONNECTING EXTERNAL AUDIO HI-FI SYSTEM

To connect any external Audio Hi-Fi system, the receiver has been provided with S/PDIF connector at the back of the receiver.

5) CONNECTING YOUR ANALOG RECEIVER

To facilitate the user using analog receiver to view analog channels,

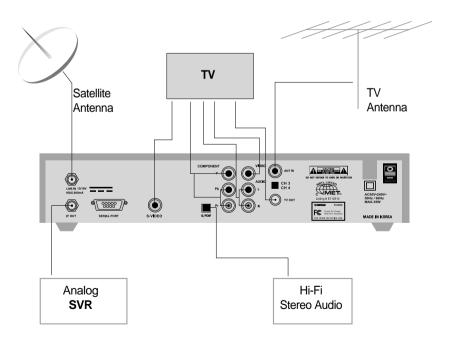
the receiver has been provided with a loop through terminal marked as "IF OUT".

Connect the coaxial cable from this terminal to the

IF input terminal of your analog receiver.

Now by keeping the receiver in standby,

you will be able to tune and view analog channels from your analog receiver.



4. HARDWARE DESCRIPTION

4. A. FRONT PANEL







VOL

INFRARED SENSOR



7 SEGMENT DISPLAY



1) POWER: This key is used to turn the receiver on and off (stand by).

2) CH: These keys are used to change the channels.

3) VOL: These keys are used to increase and decrease the volume level manually.

4) INFRARED SENSOR: This is to receive the IR commands from the RCU. Do not block the view of the sensor.

5) 7 SEGMENT DISPLAY: This SEGMENT display will show the current channel number. While the receiver is in stand by mode, the display will show the current time.

6) SMART CARD INTERFACE SLOTS: To watch scrambled channels you should insert a smart card into Smart Card Interface issued the service provider whom you subscribes to. Therefore you can watch only a specific range of channels with entitlements in smart card. The smart card includes information to decipher parameters necessary for descrambling the program. Please note that the gold chip on the smart card should face download and inward when you insert when you insert it into Smart Card Interface.

4. B. REAR PANEL

- 1) LNB IN: This port is to connect the coaxial cable from LNB of your Dish. The IF input is provided through this port and the input frequency range is $950\sim2150$ MHz. Also the voltage switching 13V and 18V is passed through this port.
- 2) IF OUT: To enable the connection of an analog receiver. The receiver is provided with this port. Connect this port to LNB IN port of the other receiver via RF Cable.
- 3) SERIAL PORT: This is used to connect your receiver with computer through a serial cable. This port can be used for upgrading software.
- 4) S/PDIF DIGITAL OUTPUT: This port is for the connection to the extenal Hifi system which has a optical S/PDIF input interface.
- 5) VIDEO, AUDIO R/L, COMPONENT(Y, Pb, Pr): These RCA connectors are used to connect any external video and audio.
- 6) ANT IN: This is used to connect your local RF channels to your TV through Loop.
- 7) TV OUT: This is used to connect your TV through RF cable.
- 8) POWER INPUT: This is to plug in the AC main power cord. The input AC volts range is 95V~240V, 50/60Hz supply.
- 9) S-VIDEO: This is used to connect your TV through S-Video Cable.
- 10) CH 3,4: The switch select RF 3,4 channel number.
- 11) **POWER SWITCH**: This is swith to turn on and off the AC main power.



4. C. REMOTE CONTROL UNIT

- (b) 1) POWER: This is used to switch the receiver to ON/STANDBY mode.
- (x) 2) MUTE: This key is used to toggle between normal and muted audio.
- ① ~ 9 3) 0-9 NUMERIC KEYS: These keys are used to enter numeric values and to select the channel directly by entering its number.
- () A) CH ▲ · CH ▼ : These keys are used to change channels and to browse the menu.
- 5) VOL ► · VOL : These keys are used to vary the volume level and to change the cursor options in the menu.
- (MENU) 6) MENU: This key is used to open up the menu.
- (EXIT) 7) EXIT: This key is used to exit from any menus.
- (ox) 8) OK: This key is used to enter and confirm any data to the receiver in the menu systems. The Channel list can be accessed directly by pressing this Key in the normal view mode.
- 9) Page Up: This key is used to page up the menu.
- (¥) 10) Page Down: This key is used to page down the menu.
- (FAV) 11) FAV: This key is used to switch between favorite lists.
- (GUIDE) 12) GUIDE: This key is used to open up the Electronic Program Guide.
- (INFO) 13) i: This key is used to view the channel information.
- (4) 14) [7]: This key is used to toggle between the TV channel and the radio channel.

- 15) LAST: This key is used to return to the previous channel.
- 16) AUDIO: This key is used to select the soundtrack list for the current service and also used to select audio mode.
- 17) PAUSE: This key is used to pause the screen.
- (SAT) 18) SAT: This key is used to select the satellite.
- (F1) (F2) (F3) (F4) **19) F1, F2, F3, F4**: Function Keys.
- (HELP) **20) HELP**: This key is for Help.



5. SYSTEM SET-UP

5.A. Automatic channel search for a satellite

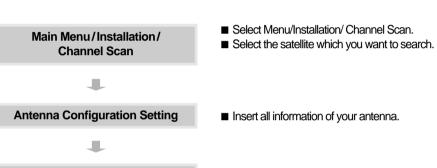
You can automatically detect and save all TV and Radio channels of a satellite as follows:

System Connection ■ Connect the receiver to all peripheral devices. **Power On** ■ Turn on the power of the receiver and other Main Menu / Installation / ■ Select Main Menu/Installation / Antenna Setup **Antenna Setup** using CH ▲ · ▼ & OK keys. ■ Select the satellite which you want to search using VOL ◀ · ▶ keys. ■ Insert all information of your antenna. **Antenna Configuration Setting Automatic Channel Search** ■ Press OK key, and the receiver will automatically search for all TV/Radio channels from a satellite.

5. B. Manual channel search for a transponder

Manual Channel Search

You can automatically search and save all TV and Radio channels of a transponder as follows:



- Select the transponder from transponder list which you want to search. If you cannot find it from transponder list, you should insert all the transponder information (i.e., Frequency, Symbol Rate, Polarity and FEC).
- Press OK key, and the receiver will automatically search for all channels contained in the selected transponder.

6. MENU OPERATION

The main menu is classified into five sub menus which will carry out the various operation individually.

1. MAIN MENU

After installing your dish system and receiver with appropriate connectors, plug in the AC main power and turn on the receiver.



Press the MENU key of the RCU. You will see the "Main Menu" on the TV screen as follow.

You can move into the desired submenu using the "up/down" keys ($\blacktriangle \cdot \blacktriangledown$) or numeric keys. Press "OK" key to confirm your selection. If the "Main Menu" is locked, note that you should enter the PIN code in order to move into the corresponding submenu in case of "Edit Channels" menu, "Edit Favorites" menu and "Installation" menu.

The default factory PIN code is "0000".

Press the "menu" key or "exit" key to return to previous menu.

2. EDIT CHANNELS



You can edit channels on various channel lists - channel lock, delete channel, move channel, edit the name of a channel, and sort the channel list.

Select "Edit Channels" menu in main menu, and you will be asked to enter your PIN code. You can find the following "Edit Channels" screen by entering it.

1. A. CHANNEL LOCK

Select the "Channel Lock" icon using the left/right keys ($\blacktriangleleft \cdot \blacktriangleright$). Select the channel that you want to lock or unlock from the channel list using the "up/down" keys ($\blacktriangle \cdot \blacktriangledown$) and the "page up/down"

keys(★ ¥). Press the "OK" key to confirm your selection.

Also, you can use the " \(\tilde{\sigma}\)/\(\tilde{\sigma}\) " key to select either TV channel list or Radio channel list.

Once the channel is locked, every time you try to watch the program, you will be asked to enter PIN code. Press the "menu" key or "exit" key to return to previous menu.

2. B. DELETE CHANNEL

Select the "Delete Channel" icon using the "left/right" keys($\blacktriangleleft \cdot \blacktriangleright$). Select the channel that you want to delete from the channel list using the "up/down" keys($\blacktriangle \cdot \blacktriangledown$) and the "page up/down" keys($\blacktriangle \cdot \blacktriangledown$). Press the "OK" key to confirm your selection. Also, you can use the " $rac{} = \frac{1}{2} \sqrt{3}$ " key to select either TV channel list or Radio channel list.

Press the "menu" key or "exit" key to return to previous menu.

2. C. MOVE CHANNEL

Select the "Move Channel" icon using the "left/right" keys($\blacktriangleleft \cdot \blacktriangleright$). Select the channel that you want to move from the channel list using the "up/down" keys($\blacktriangle \cdot \blacktriangledown$) and the "page up/down" keys($\blacktriangle \cdot \blacktriangledown$). Press "OK" key to confirm your selection.

Move it to the position where you want to place it using the "up/down" keys($\blacktriangle \lor \blacktriangledown$) and the "page up/down" keys($\blacktriangle \lor \blacktriangledown$). Press the "OK" key to confirm. Also, you can use the " \leftrightarrows / \sqsupset " key to select either TV channel list or Radio channel list.

Press the "menu" key or "exit" key to return to previous menu.

2. D. EDIT CHANNEL NAME

Select the "Edit Channel Name" icon using the "left/right" keys($\blacktriangleleft \cdot \blacktriangleright$). Select the channel that you want to edit from the channel list using the "up/down" keys($\blacktriangle \cdot \blacktriangledown$) and the "page up/down" keys ($\blacktriangle \cdot \blacktriangledown$). Press "OK" key to confirm your selection.

Select the character which you want to edit using the browse keys($\blacktriangle \cdot \blacktriangledown, \blacktriangleleft \cdot \blacktriangleright$). Press "OK" key to confirm. Save the character currently selected using the "F2" key. Also, you can use the " $\ \Box / \ \Box$ " key to select either TV channel list or Radio channel list. Press the "menu" key or "exit" key to return to previous menu.

2. E. SORT CHANNEL LIST

Select the "Sort Channel List" icon using the "left/right" keys($\P \cdot P$). Press "OK" key to confirm. Select the sort type which you want to sort using the "up/down" keys($\P \cdot P$). Press the "OK" key to confirm.Also, you can use the " $\P \cdot P$ " key to select either TV channel list or Radio channel list. Press the "menu" key or "exit" key to return to previous menu.

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3. EDIT FAVORITES

You can edit the favorite channel list, such as add/delete a channel or move its position, which facilitates you to easily find your favorite channel from the favorite channel list.

The favorite channel is classified into one of 8 favorite categories depending on its genre.

Select "Edit Favorite" menu in main menu, and you will be asked to enter your PIN code. You can find the following "Edit Favorite" screen by entering it.

3. A. ADD FAVORITE CHANNEL

You can choose TV channel list or Radio channel list in an alternative way by pressing the "台/戶" key on the RCU.



By pressing "FAV" key on the RCU, you can choose your favorite channel group out of 8 favorite groups. Select the "Add Channel" icon using the "left/right" keys(◀·▶). Select a channel that you want to add into the favorite channel list using the "up/down" keys(▲·▼) and the "page up/down" keys (▲ ▼). Press the "OK" key, and the selected channel will be added to the favorite channel list. Press the "menu" key or "exit" key to return to previous menu.

3. B. DELETE FAVORITE CHANNEL

You can choose TV channel list or Radio channal list in an alternative way by pressing the " $\[\]$ " key on the RCU.

By pressing "FAV" key on the RCU, you can choose your favorite channel group out of 8 favorite groups.

Select the "Delete Channel" icon using the "left/right" keys(◀ ▶).

Select a channel that you want to delete from the favorite channel list using the "up/down"

 $\text{keys}(\blacktriangle \cdot \blacktriangledown)$ and the "page up/down" $\text{keys}(\bigstar \blacktriangledown)$. Press the "OK" key, and the selected channel will disappear from the favorite channel list.

Press the "menu" key or "exit" key to return to previous menu.

3. C. MOVE FAVORITE CHANNEL

You can choose TV channel list or Radio channel list in an alternative way by pressing the " $\mbox{$\stackrel{.}{\sim}$}/\mbox{$\beta$}$ " key on the RCU.

By pressing "FAV" key on the RCU, you can choose your favorite channel group out of 8 favorite groups.

Select the "Move Channel" icon using the "left/right" keys(◀ · ▶).

Select a channel that you want to move using the "up/down" keys($\blacktriangle \cdot \blacktriangledown$). and the "page

up/down" keys(\clubsuit \blacktriangledown). Press "OK" key to confirm your selection. Move it to the position where you want to place it using the "up/down" keys(\blacktriangle \blacktriangledown). and the "page up/down" keys(\clubsuit \blacktriangledown).

Press the "OK" key to confirm.

Press the "menu" key or "exit" key to return to previous menu.

3. D. RENAME FAVORITE GROUP

By pressing "FAV" key on the RCU, you can choose your favorite channel group out of 8 favorite groups.

Select the "Rename Favorite Group" icon using the "left/right" keys(◀ · ▶).

Press the "OK" key and select the character which you want to edit using the browse keys($\blacktriangleleft \cdot \blacktriangleright$ $\blacktriangle \cdot \blacktriangledown$).

Press the "OK" key to confirm.

Save the character currently renamed using the "F2" key.

Press the "menu" key or "exit" key to return to previous menu.

3. F. SORT CHANNEL LIST.

You can choose TV Channel list or Radio channel list in an alternative way by pressing the "台/d" key on the RCU.

By pressing "FAV" key on the RCU, you can choose your favorite channel group out of 8 favorite groups.

Select the "Sort Favorite List" icon using the "left/right" keys($\blacktriangleleft \cdot \blacktriangleright$). Press "OK" key to confirm.

Select the sort type which you want to sort using the "up/down" $keys(\blacktriangle \cdot \blacktriangledown)$.

Press the "OK" key to confirm.

Press the "menu" key or "exit" key to return to previous menu.



4. INSTALLATION

"Installation" menu helps you to setup a variety of parameters necessary for receiving signal, add new service, upgrade the new software and reset the channel data.

Select "Installation" menu in main menu, and you will be asked to enter your PIN code.

You can find the following "Installation" screen by entering it.

4.A. ANTENNA SETUP

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Your receiver includes the preprogrammed information of transponders contained in various satellites.

You can update the transponder list preprogrammed for a satellite by adding a new transponder to it or modifying the information of the existing transponder. (Refer to the Channel Scan described in section 4.B) Select "Antenna Setup" menu in "Installation" menu and the following screen will be displayed.

Select the desired satellite using the "left/right" keys($\blacktriangleleft \cdot \blacktriangleright$). Set "LNB Power", "LNB Type", "LNB Freq", "22KHz", "Search Option", and "DiSEqC 1.0" fields to the appropriate value using the left/right keys($\blacktriangleleft \cdot \blacktriangleright$) at each field.



I NB Power : Depending on the user's antenna LNB, you can supply either LNB power by setting "ON" or not by setting "OFF". Normally set this to "ON". **LNB Type** : You can select the LNB type. LNB Frea. : You can select the predefined LNB frequency or manually enter a specific frequency in MHz unit by pressing numeric keys. 22KHz : In case you are using two antennas connected to a 22KHz tone switch box, you can supply either 22KHz by setting "ON" or off by setting "OFF" to select antenna. Search option : You can search all the free channels & scramble channels or only free channels or onlyscramble channels by setting the search option. DiSEqC 1.0 : If you have DiSEqC box, you can choose port by selecting port number. Otherwise, choose "none" Motor : If you have a DiSEqC 1.2 motorised system, then you can take advantage of the DiSEgC 1.2 functions available. Choose Installer as Motor and press "F1" key.

4. A. 1 Automatic Scan

Check the signal strength. Press "OK" key to start the scan procedure. You can see the progressive status of channel searching.

After that, adjust antenna direction using browse keys.

Please note that the scan procedure may take a few minutes.

Press the "menu" key or "exit" key to return to previous menu.

4. A. 2 Blind Scan



Blind Scan search the channel when you don't know the transponder information.

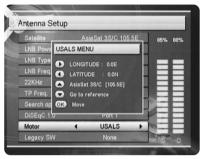
Press the F2 key to start the blind scan procedure and the following screen will be displayed.

Please note that the scan procedure may take a few minutes.

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Press the "menu" key or "exit" key to return to previous menu.

4. A. 3 USALS



- -Please go to Antenna Setup and select USALS from motor.
- -Press F1 then Pop-up will be appeared.
- -Press arrow button to write Longitude
- -Press arrow button to write Latitude, then OK to work.

4. B. CHANNEL SCAN

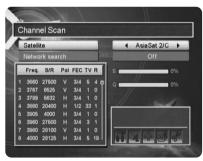
It will be more convenient to use "Channel Scan" procedure when you want to search channel for a specified transponder offered from the satellite. As in "Antenna Setup", "Channel Scan" also searches all channels broadcasted over a specific transponder using its predefined information. You can add a new transponder if you cannot find it on the predefined transponder list.

Select "Channel Scan" menu in "Installation" menu, and the following screen will be displayed.

4. B. 1 Channel Scan

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Select the desired satellite using the "left/right" keys ($\blacktriangleleft \cdot \blacktriangleright$). Select the "Antenna Configuration" icon using the browse keys($\blacktriangle \cdot \blacktriangledown \cdot \blacktriangleleft \cdot \blacktriangleright$).



Press "OK" key, and set "LNB Power", "LNB Type", "LNB Freq", "22KHz", "Search Option", and "DiSEqC 1.0" fields to the appropriate value using the "left/right" keys(◀ · ▶) at each field. Check the signal strength and press "Exit" key.

Select the "Search/Edit TP" icon using the "left/right" keys(\blacktriangleleft \blacktriangleright). Press "OK" key, and select the desiredtransponder using the "up/down" keys (\blacktriangle

▼). Press "OK" key to start the manual searching for selected transponder. You can see the progressive status of channel searching.

If you cannot find the desired transponder from the transponder list, you can add it by inputting appropriate parameter values for a new transponder using the "F1" key. When you want to change the parameter of an existent transponder, select the parameter using the "F1" key, change its value and press the "Exit" Key. Correctly set various parameters.

Freq. : Input the frequency of the transponder you want to find manually.

S/R: Inputs the symbol rate of the transponder you want to find.

Pol. : Select the polarization of the transponder you want to find. In the case of

horizontal,18V and in the case vertical, 13V are output through LNB line.

EEC: Select the FEC of the transponder you want to find. You can select the value of 1/2, 2/3, 3/4, 5/6, 7/8 or auto.

2/3, 3/4, 3/0, 7/0 01 adit

4. B. 2 ADD SATELLITE

You can add a new satellite. Select the "Add Satellite" icon using the "left/right" keys ($\blacktriangleleft \cdot \blacktriangleright$), and press the "OK" key.

Select the "Search/Edit TP" icon using the "left/right" keys (◀ ▶). Press the "OK" key and add a new transponder using the "F1" key. You should set various parameters of the transponder. The default name of the added satellites is "UserSAT-No."

4. B. 3 RENAME SATELLITE

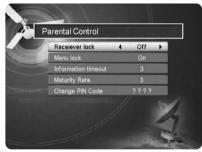
You can also change the satellite name. Select the "Rename Satellite" icon using the "left/right" keys ($\blacktriangleleft \cdot \blacktriangleright$).

Press "OK" key and select the character which you want to edit using the browse keys ($\blacktriangle \cdot \blacktriangledown, \blacktriangleleft \cdot \blacktriangleright$). Press the "OK" key to confirm. Save the character currently renamed using the "F2" key.

4. B. 4 DELETE SATELLITE

You can also delete the user satellite. Select the satellite that you want to delete from the satellite list. Select the "Delete Satellite" icon using the browse keys ($\blacktriangle \cdot \blacktriangledown, \blacktriangleleft \cdot \blacktriangleright$).

Press the "OK" key, and the selected satellite will disappear.



4. C. PARENT CONTROL

This function prevents children or unauthorized persons from watching programs.

Also you can change PIN(Personal Identification Number) code.

Select "Parental Control" menu in "Installation" menu, and the following screen will be displayed.

4.C.1 Receiver Lock

To lock receiver, select "Receiver Lock" in the "Parental Control" menu and change it to "On" mode using the "left/right" keys ($\blacktriangleleft \cdot \blacktriangleright$).

4.C.2 Menu Lock

To lock the Main Menu, select "Menu Lock" in the "Parental Control" menu and change it to "On" mode using the "left/right" keys $(\blacktriangleleft \cdot \blacktriangleright)$.

4.C.3 Change PIN Code

You can change your PIN code from factory default value "0000" as follow: Select "Change PIN Code" in the "Parental Control" menu using the "left/right" keys(◀ · ▶).

Press "OK" key. Then you will be asked for a new PIN code.

Once you enter a new PIN code, the receiver will ask you to enter it in again. After you enter a new PIN code twice, the PIN code is changed permanently. If you forget the PIN code, you have to contact the distributor to find out it.

4. D. TIME SETTING

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You can change the time of your receiver and also switch on/off the timer function in this menu.

Select "Time Settings" item in the "Receiver Settings" menu and the following screen will be displayed.

Time Mode : Select the time mode of your receiver. In Auto mode, your receiver will use the information from the satellite as time reference. In manual mode, you can set the time of your receiver manually. Time Adjustment Set the time offset from the UTC (GMT). Useful in auto mode only. **Current time** : Set the current time manually. Useful in manual mode only. **Summer Time** Enable or disable the Summer Time. Most European countries use the Summer Time. Useful in auto mode only. On time : Set the time when the receiver will be automatically turned on Off time : Set the time when the receiver will be automatically turned off.



4. E. RECEIVER UPGRADE

You can upgrade the software of this receiver through serial port when the new software is released. Please contact the distributor for receiver upgrade. Distributor supports you useful information and new software for the receiver.

4. F. FACTORY DEFAULT

This is to restore the factory set values in case the user has encountered some problems after changing any new values of channel data and others which may be in error.

Select "Factory Default" menu in "Installation" menu and press "OK" key.

If you want to continue, select option "Yes" .The receiver will be reset to settings automatically. Please note that the "Factory Default" procedure may take a few minutes.



5. SYSTEM SETTINGS

This menu helps you to Set up video output

language, screen type and Select "System Settings" menu in main menu

Screen Type

: You can choose either 4:3 or 16:9 according to the TV type.

Menu Transparency: You can select the transparency of the menu.

Menu Language Audio Language : You can select the menu language. : You can select the audio language.

Channel Mode

: You can select the channel mode when channel is changed.

Beep for scanning

: If this is "on", receiver will beep out the signal status.

Press the "menu" key or "exit" key to return to previous menu.

6. GAMES

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This menu helps you play game called Tetris. In this game you can choose level from 1 or 9. Once you choose game menu from main menu, you can choose OK to start a game.

7. CHANNEL LIST

This menu helps you to easily select the channel that you want to watch.



The channel list is separately constructed for each satellite. Press "OK" key, and the following screen will be displayed. You can get the information of channel number, channel name, and whether the program is scrambled or locked

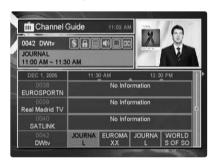
To watch a specific channel, first select it by pressing the "up/down" keys (▲ ▼) and the "page up/down" keys (★,¥). Then, press "OK" key. This enables you to move into that specific channel.

You can also select a specific satellite using the "SAT" key. When you press the "△/♬ " key, you can

alternatively select TV or radio channel list. When you press Press the "menu" key or "exit" key to return to previous menu.

8. CHANNEL GUIDE

Press "GUIDE" key, and the following screen will be displayed. It will give the titles of the current and next programmes on different channels.



The information may include: current time / channel name, name of the current and next programme, the start and total time of the current programme, the start and total time of the next programme.

Programme information will be available only when it is included in the transmission.

When you press the "ĭ/♪ " key, you can alternatively select TV or radio channel guide.

Press the "menu" key or "exit" key to return to previous menu.



When you press"GUIDE" key again, Daily Guide will be displayed. You can see all events for selected chanel.

9. AUDIO

Press "AUDIO" key.

Select the audio mode which you want using the "left / right" keys(◀, ▶).

Some programs are broadcasted with one or more alternative language soundtracks.

You can select the preferred audio language for soundtrack using the "up/down" keys (▲ ▼).

10. ZOOM FUNCTION



On the live TV screen or paused TV screen, you can magnify some region of TV screen. Press "F4" key and the ZOOM box will be display.

You can use following keys.

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- Up/Down/Left/Right keys (▲ · ▼ ◀ · ▶): Move the ZOOM box
- Page Up/Page Down keys (★,▼): Increase or decrease the ZOOM box
- OK key (ok): Watch the ZOOM box to full screen or return to ZOOM box

11. MULTI PICTURE



You can use the Multi-picture Function using F1 key. You can watch four, six or nine pictures at the same time using this function. And select the number of pictures using $(\blacktriangle, \blacktriangledown)$ keys and press OK. After that, you can see the Multi-Picture Screen. Also you can select the channel using $(\blacktriangleleft, \blacktriangleright \blacktriangle, \blacktriangledown)$ keys and OK key in the Multi-picture Screen. The channel of your selection is only live signal when you selected one channel of the several channels. The channels of which is not selected are just the pictures.





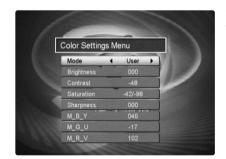


4 Picture

6 Picture

9 Picture

12. COLOR SETTING MENU



You can adjust the color seting to take the enhonced TV screen. Press "F2" key then below screen will display.

Mode	: You can select this to "Default" or "User" When "Mode" is "User", you can change each color value.
Brightness Contrast Saturation Sharpness	: If your receiver connected to TV by using "VIDEO" or "S-VIDEO" Connector , these items will change the color setting of TV screen.
M_B_Y M_G_U M_R_V	: If your receiver connected to TV by using "Component cable "(Y-Pb-Pr)", these three items will change the color setting of TV screen.

7. TROUBLE SHOOTING

Problem	Solution
Abou	ut the Receiver
Does not display LED on the front panel or the receiver has no power.	- Connect the power cord to the power outlet properly.
No pictures on the screen	 Check if the receiver is in standby mode. Check if the video output port is firmly connected to the Tv. Check if you have selected the correct channel or video output on your TV.
No sound	Connect the audio cords properly.Check the volume level of the TV.Press "MUTE" key.
Remote Control does not operate	Point remote control directly towards the receiver.Check and replace batteries.
Poor picture quality	 Check the signal strength in the "Antenna Setup" menu. If this is low, try adjusting the alignment of your dish.
On - Scre	een Error Messages
Searching Signal	 Connect the antenna cable properly. Check the LNB. Please replace LNB if necessary. Check the position of the dish. Please realign dish if necessary. Check the signal strength in the "Antenna Setup" menu.
Unrecognized smartcard	- Check the smartcard.
Please insert your smartcard	- Insert the smartcard.

8. TECHNICAL SPECIFICATIONS

1. Power Supply

Type : SMPS

Input Voltage : AC 95V~240v 50Hz / 60Hz

Fuse Rating : 250V/T2A

2. Tuner

 $\begin{array}{lll} \textbf{Input Frequency} & : 950 \sim 2150 \text{MHz} \\ \textbf{Input Signal Level} & : -65 \sim -25 \text{dBm} \\ \textbf{Input Impedance} & : 75 \Omega & \textbf{Unbalanced} \\ \textbf{Connector Type} & : 'F' & \textbf{Type Female} \\ \end{array}$

LNB Power Supply : 13V/18V, Max 500mA with Short Circuit Protection 22KHz Tone : Frequency 22± 4KHz, Amplitude 0.6±0.2Vpp

DiSEqC : 1.0 & 1.2 Version Compatible **Channel Selection** : PLL Frequency Synthesizer

3. Demodulator

Type : QPSK Demodulation(DVB-S)

Symbol Rate : $1\sim45$ MS/s

Inner FEC : Viterbi Convolutional Coding

Rate 1/2, 2/3, 3/4, 5/6, 7/8

Outer FEC : Reed Solomon Coding(204,188) T=8

4. Video Decoder

System Decoding : MPEG-2 ISO/IEC 13818-2

Profile and Level : MPEG-2 MP@ML Data Rate : 1∼15 MB/s

Video Formats : 4:3(Normal) & 16:9(Widescreen)

5. Audio Decoder

System Decoding : MPEG-1 ISO/IEC 11172-3

Layer I & II

Audio Mode : Mono, Dual, Stereo, Joint Stero

Sampling Frequency : 32, 44.1, 48 KHz

6. Audio/Video Output

 Audio Output
 : 2 × RCA Cinch

 Video Output
 : 1 × RCA Cinch

 Digital Audio
 : 1 × S/PDIF (Optical)

 S-Video
 : 1 × S-VIDEO

 COMPONENT
 : 3 × RCA Cinch

7. RF Modulator

Modulator Output : CH3~4 Video Type : NTSC

Output Connector : "F" Type Female
Ant. IN Connector : "F" Type Female

8. Serial Data Interface

Signal : RS-232, Max. 115200 bps

Connector Type : 9 Pin D-Sub(male)

9. Embedded Descramble

X Crypt Conditional Access System

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Programing The Remote Control

There are two ways to program the remote control; Automatic Code Search or Direct Entry

Using Automatic Code Search

- 1. Turn on the component you want to control (TV, VCR or DVD)
- Press and hold the component key you want to program. Holding the component key until the LED on the remote control turns on, then release the key.
- Point the remote at the component, press and release the UP (▲) button, then wait three seconds or until the LED stops flashing.

At this point the remote control is searching for the correct code to program. If, after three seconds, the component you want to control does not turn off, press and release $\mathbf{UP}(\triangle)$ button again to tell the remote to search the next set of codes.

Continue pressing and releasing **UP** (**a**) button until the component turns off.

If the component you want to control does turn off;
 Press and release OK button, then the LED blinks three times.

Using Direct Entry Method

- 1. Turn on the component you want to control (TV, VCR or DVD)
- 2. Locate the enclosed Code List. Find your brand of the component you want to control.
- Press and hold the component key you want to program. Holding the component key until the LED on the remote control turns on, then release the key.
- 4. Enter 3-digit code from the code list, then the LED blinks three times.
- If you get no response, repeat these steps using the next code listed for your brand until the component responds to the remote control command.

Changing Volume Lock

Locking the volume controls to a single device makes it easier to control volume, without having to guess whether the volume will change. If you lock the remote's volume controls to the TV (for example), you will always be able to change the volume to the level you want, without having to adjust it on multiple devices.

If you want to lock the volume for the DVD component;

- 1. Press and hold the DVD component key until the LED on the remote control turns on.
- 2. Enter 3-digit code. 9 9 9.
- 3. Press and release the DVD component key, then the LED blinks three times.

Unlocking volume control;

If you want to unlock the volume for the DVD component;

- 1. Press and hold the DVD component key until the LED on the remote control turns on.
- 2. Enter 3-digit code, 9 9 9.
- 3. Press and release the DVD component key, then the LED blinks three times.

	_						
	Brand Li	ist	for	TV			
	A Mark	151					
	Abex	130					
	Admiral		131	166			
_	Aiko	009					
	Akai	014					
٦	Alleron	056					
	Amtron	030					
	Anam National	015	030				
	AOC	016	-	018	019	140	
		141	169				
	Apex	181					
	Audiovox	030					
	Belcor Bell & Howell	016 013	042	058			
	Broksonic	016	182	036			
	Brokwood	016	102				
	Candle	016					
	Carver	012					
	Celebrity	014					
	Citizen	009		016	-	030	
		042		139	173		
	Colortyme	011	016	018			
	Concerto	016 005	006	007	030		
	Contec / Cony Coronado	151	006	007	030		
	Craig	030					
	Crosley	012					
	Crown	030					
	Curtis Mathes	800	012	016	018	042	
		045	058	096	139	172	
		173					
	Daewoo	000			016	017	
		018	116	139	151	167	
	Daytron	016	018	139			
	Dimensia Dumont	045 016	125				
	Dynatech	016	123				
	Electroband	014					
	Electrohome		003	014	015	016	
		018		•			
	Emerson	004	005	016	018	020	
		021	022	023	024	025	
		026		028	029	030	
		031	032	033	034	035	
		036	037	038	039	042	
		056 143	058 151	114 167	139 178	142	
	Envision	016	018	107	176		
	Fisher	042	057	058	059	144	
	Fujitsu	056	037	050	037	1-1-1	
	Funai	030	056				
	GE	003	015	016	018	045	
		060	061	062	078	132	
		147	148	149	174		
	Gilbralter	016					
	Grundy	056					
	Hallmark Hitachi		018 006	007	016	018	
	пиаст	005 067				101	
		102	103		105	106	
			108		119	123	
		124	143	151	161	171	
		179					
	Infinity	012					
- 1	IDI	012					

JBL

012

JC Penney			010			Radio Shack / Realistic				030	
		041	045		060		045	058	075	130	139
	061	064	078		096	RCA	002				
	117	130	132	139			019	045	090	091	092
Jensen JVC	005	018 006	007	046	047		093	094		118	132
300	048		068	128			135	136	143	153	162
	133	158	178	120	123	Realistic	167 042	172 058	176	180	
Kawasho		016				Runco	125	056			
KEC	151					Sampo		018	130	139	
Kenwood	002	016	018			Samsung		002		008	016
Kloss Novabeam		049	065			ououg	017	018		096	
KMC	151						130	139	151	163	
KTV		066	139	142		Sansui	168				
LG(Goldstar)		063	016	120	018	Sanyo		042		057	058
	130	139		120	127		085	098		144	
Logik	013	139	131			Scott	005		018	021	030
Luxman		018				Coore	032 002	056 006	007	012	016
LXI	012	018	040	041	042	Sears		040		042	
	045	058	132				047			058	
Magnavox	002	010		016				087	132	144	
	043	044	049	050			160				
	079	110	111	112	151	Sharp	005	016	018	023	026
Majestic	013						075	080	088	089	113
Marantz			018	051	067		131	139	151		
Megatron		067				Shogun	016				
Memorex		017	018	042	056	Signature	013				
	058					Sony	014	150	157	159	164
MGA			016	017	018	C	170	177	010	000	056
Midland	130	053	059			Soundesign		016	018	030	056
Mitsubishi		003	016	017	018	SSS	016				
MITSUDISHI			054		115	Starlite	030				
Montgomery Ward		055	054	033	113	Sylvania		010		016 050	
Motorola	015	131					043 079	081	146	050	065
MTC			018	096		Symphonic		030		160	
Multitech	030	•	0.0			Tandy	131	050	050	.00	
Multivision	076					Tashiko	041				
NAD	018	040	041	134	171	Tatung	015				
NEC		015	016	017	018	Technics	061				
Nikko		018				Techwood	016	018	061		
Onwa	030					Teknika	005	006	007	009	010
Optimus	134	171						013		017	
Optonica	075	131					030	044		096	138
Orion	032	168 061	120	152	175		139	151	175		
Panasonic Philco		005		012		Telecaption	082				
Fillico		017		043	049	Tera	016				
		065	151	043	045	Thomson	154				
Philips		005		012	015	TMK	016				
	016	043	049	065	070	Toshiba	083	041		058 145	146
	077	078	079	151	7/400/0000		155	156		143	140
Pilot	016					Totevision	139	130	103		
Pioneer	016	018	071	072	134	Universal		078			
	143	171				Vidikron	012	0,0			
Portland		016	017	018	139	Vidtech	016				
	151					Wards	-	012	012	016	017
Price Club	096					waius		020			044
Prism Proscan	045	132					045	049		060	065
			010	073				078		084	151
Proton Pulsar	005	016	018	0/3		Yamaha			017		
Quasar		061	066	074	175	Zenith		016		122	125
Radio Shack						Lemai		165	.21	, 22	.23
Shack	J-12	555									

Brand List for VCR

Admiral	031	046				Logik	021				
Adventura	029					LXI	017				
Aiko	015					Magnavox	001	011	026	027	
Aiwa	029					Magnin	000	0	020	02,	
Akai	007	008	009	035	041	Marantz	001	002	003	004	019
Allegro	030	000	003	055	٠ ا	Marantz	025	026	003	00.	015
America Action	015					Marta	017				
American High	026	027				Matsushita	026				
Anam	026	027				Memorex	000	004	011	017	026
Asha	000	02,					028		031	046	
Audiovox	017					MGA	016	023	041		
Beaumark	000					MGN Technology	000				
Bell & Howell	004					Minolta	012	020	024		
Broksonic	005					Mitsubishi	016		023	024	041
Calix	017						042				•
Candle	000	017				Montgomery Ward	031	046			
Canon	026					Motorola	026	031	046		
Capehart	034	027				MTC	000				
•	001					Multitech	000	019	021	029	
Carver CCE	015	021				NEC	002	003	004	019	025
	000		017	018	010		035	042			
Citizen	025	044	017	018	019	Nikko	017				
Colortyme	002	0-1-1				Noblex	000				
Craig	000	017	021	028		Olympus	026				
Curtis Mathes	000	002	019	022	025	Optimus	017	031	046		
Curus Maures	026	027	045	022	023	Optinica	010				
Cybernex	000		0.0			Panasonic	026	027			
Daewoo	015	010	020	034	044	Pentax	012	019	020	024	
Daytron	034	010	029	034	044	Pentex Research	025				
Dimensia	022	045				Philco	026	027			
Dynatech	029	045				Phillips	001	010	026		
Electrophonic	017					Pilot	017				
Emerson	005	007	016	017	018	Pioneer	003	024	042		
Lineison	023	026	029	041	0.0	Portland	019	034	044		
Fisher	004		014	028		Proscan	006	022	045		
Funai	029					Quasar	026	027			
Garrard	029					Radio Shack	010	017	046		
GE	000	006	022	026	027	Radio Shack/	000	004	010	013	014
	045					Realistic	016	017	026	027	028
Go Video	039	040					029	031			
Gradiente	029					Radix	017				
Harley Davidson	029					Randex	017				
Harman Kardon	001	002				RCA	000		007	012	020
Harwood	021						022	024	026	036	045
Hitachi	012	020	024	029	035	Realistic	000	004	010	013	014
J. C. Penney	000	002	003	004	005		016	017	018	026	027
,	012	017	020	021	024		028	029	031	046	
	026	027				Ricoh	043				
Jensen	020	024	035			Runco	011				
JVC	002	003	004	025	033	Samsung		009		040	047
	035	042				Sansui	003	035	042		
Kenwood	002	003	004	019	025	Sanyo	000	004	028	037	
	035	042				Scott	005	018	023		
KLH	021					Sears	004	012	013	014	017
Kodak	017	026					020	024	026	028	029
LG(GoldStar)	002	017	025			Sharp		016		044	046
Lloyd's	029					Shintom	800	020	021		
					I						

Shogun	000				
Signature	031	046			
Singer	021	026	043		
Sony	800				
STS	012	026			
Sylvania	001	023	026	027	029
Symphonic	029				
Tandy	004				
Tashiko	017				
Tatung	035				
Teac	029	035			
Technics	026				
Teknika	017	026	029		
TIVO	048	049	050	051	052
TMK	000				
Toshiba	013	018	023	024	041
Totevision	000	017			
Unitech	000				
Vector Research	002	003	018	019	
Video Concepts	002	003	018	019	041
Videosonic	000				
Wards	000	001	010	012	016
	017	018	020		024
	026	029	031	046	
XR-1000	021	026	029		
Yamaha	002	003	004	025	035
Zenith	800	011	029	030	043
Zonda	030				

Brand List for DVD

Aiwa	000	019			
Allegro	099	100			
Alpine	001				
4pex	004	006	800	009	
3 laupunkt	003	041			
Bose	093				
Broksonic	007	101			
Clarion	022				
Classic	023				
Daewoo	010				
Denon	005	011	036	037	
Emerson	038	039			
isher	040				
unai	039				
GE	002	041	048		
Go Video	094	100			
GPX	049				
Hitachi	018	042	043		051
JVC	014	029	032	095	
Kenwood	033				
Konka	017	024			
Magnavox	026	034			
Memorex	035				
Mintek	044				
Mitsubishi	015				
VAD	038				
Nakamichi	045				
Vorcent	046	047			
Onkyo	052				
Oritron	081				
Panasonic	025	053	054	055	059
	060	061			
Philips	026	031	056		
Pioneer	016	057	058	077	078
Proscan	002	079			
Qwestar	080	081			
RCA	002	003	067	092	096
Sampo	068				
Samsung	069	070	071	097	
Sansui	072				
Sanyo	020	073	098		
Sharp	074	075			
Sherwood	076				
Sony	012	021	027	062	063
-	064	065	066		
Sylvania	039				
Геас	084				
Technics	085				
Techwood	086				
Toshiba		028	087	088	089
	102				
Yamaha	082	090	091		
Zenith	030	083	099		

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