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Please read this User's Manual carefully before installing this receiver.

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GENERAL SAFETY

GENERAL SAFETY

WARNING

Please read the following recommended instructions carefully to avoid the risk of your physical injury before the product is operated.

Do not cover the receiver and keep clear space around the receiver for sufficient.

Check the receiver's operation voltage 90~250V, 50Hz~60Hz Max, 30W Keep liquid away from the receiver.

The receiver shall not be exposed to dripping or splashing and no objects that filled with liquid shall not be placed on the receiver.

Unplug the receiver from the wall outlet before cleaning.

Use a soft cloth and a mild solution of washing-up liquid to clean the casing.

Do not block the receiver's ventilation slots which are provided for ventilation and protection from overheating.

Please maintain the receiver in a free airflow.

Do not allow the receiver to be exposed to hot, cold or humid condition.

Do not use any cable and attachment that are not recommended as these may damage your equipment.

Please unplug the receiver from the wall outlet and disconnect the cable between the receiver and the antenna when you will not use it for long time.

Do not remove the cover to reduce the risk of electric shock.

Do not attempt to service the receiver yourself.

Refer all serving to qualified service personnel.

Manual may be updated as new features.

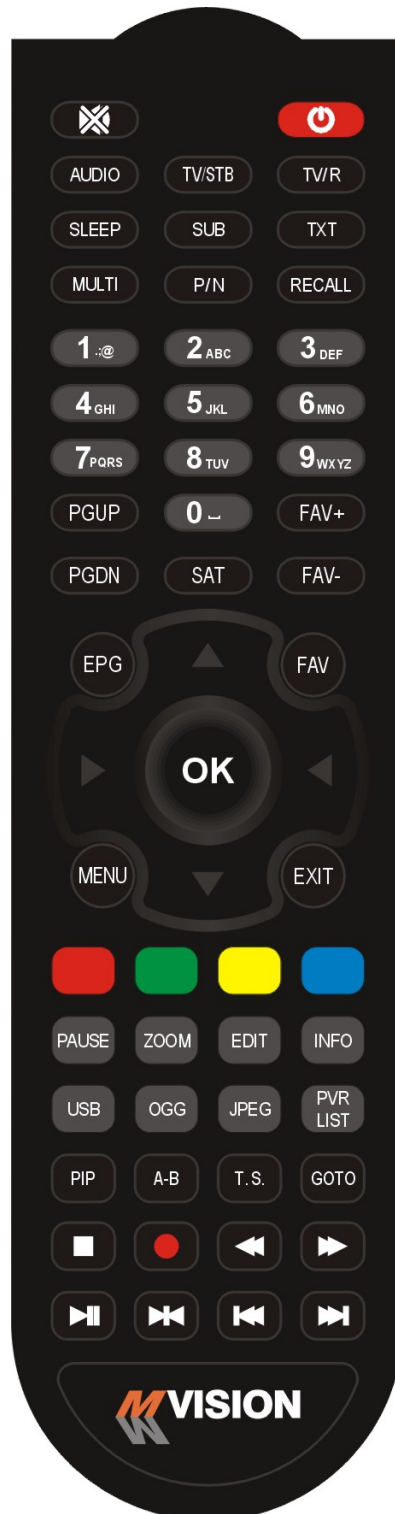
I. UNPACKING

Please ensure that the following items are included with the receiver in your packing.

- 1) Remote Control Unit (RCU)
- 2) Batteries (2EA)
- 3) User's Manual

REMOTE CONTROL UNIT (RCU)

II. REMOTE CONTROL UNIT (RCU)



REMOTE CONTROL UNIT (RCU)

- | | |
|-------------------------------|--|
| 1. POWER | Switches the receiver between operation and standby mode. |
| 2. MUTE | Enables or disables the audio. |
| 3. Audio | Changes the audio languages. |
| 4. TV/STB | Switches between TV or STB (Receiver) |
| 5. TV/R | Switches between TV and Radio |
| 6. SLEEP | Selects the time to turn on/off receiver |
| 7. SUB | Selects the subtitles |
| 8. TXT | Selects teletext |
| 9. MULTI | Multi picture in the viewing mode |
| 10. P/N | Display mode is used to switch the display mode |
| 11. RECALL | Selects the previous watching channel |
| 12. Numeric buttons | Selects the TV or Radio service channels and individual menu. |
| 13. PGUP | Move up a page in the channel list |
| 14. PGDN | Move down a page in the channel list |
| 15. SAT | Toggles the selected satellite |
| 16. FAV+/FAV- | Switches up/down in favorite list |
| 17. EPG | Displays the TV or Radio program guide (Electronic Program Guide) |
| 18. FAV | Toggles the selected favorite mode. |
| 19. MENU | Displays the main menu on screen. |
| 20. EXIT | Returns to the previous menu or normal viewing mode from a menu. |
| 21. ▲▼ | Changes channels or moves to the item in the menu. |
| 22. ◀▶ | Adjusts the volume or moves to left or move item in the menu. |
| 23. OK | Executes the selected item and displays channel lists when watching a channel |
| 24. Red/Green/
Yellow/Blue | Buttons used in teletext and/or determined functions in menu. |
| 25. PAUSE | Pauses the playing picture or go to normal mode. |
| 26. ZOOM | Zoom the picture or video you are watching |
| 27. EDIT | Change setting In selected channel. |
| 28. INFO | Displays the program information box on the screen and edit the name of favorite channel list. |
| 29. USB | Displays the USB port memory content |
| 30. OGG | Displays the USB port audio OGG memory content |
| 31. JPEG | Displays the USB port JPEG memory content |
| 32. PVR LIST | Displays the recorded memory content in USB port |
| 33. PIP | Watch two channels from same transponder at the same time |
| 34. A-B | Switch only between last two chosen channels without interruption |
| 35. T.S. | Time Shift request. |
| 36. GOTO | Jump to input time program. |
| 37 TECLAS PVR | Stop, record, skip Image forward or back, play, pause, fast forward, fast rewind. |

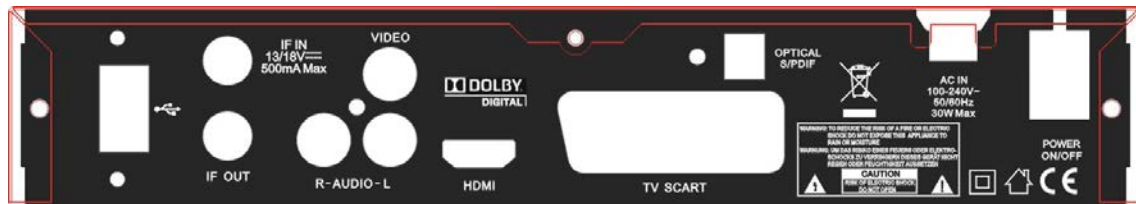
FRONT PANEL & REAR PANEL

III. FRONT PANEL



- | | |
|-------------------|--|
| 1. POWER | Switches the receiver power On and Standby. |
| 2. MENU | Enter main menu. |
| 3. OK | Executes selected option. |
| 4. CH Up/Down | Channel up / down or selects the item of Menu. |
| 5. VOL Up/Down | Volume up/down or selects the item of Menu. |
| 6. Smartcard Slot | Insert Smart Card. |

IV. REAR PANEL



- | | |
|-------------------|--|
| 1. USB PORT | Connects USB Device. |
| 2. IF IN | Connects Satellite Antenna Cable |
| 3. IF OUT | Connects to other STB |
| 4. VIDEO | Connects VIDEO to the TV or other equipment. |
| 5. AUDIO-R | Connects AUDIO RIGHT to TV or other equipment. |
| 6. AUDIO-L | Connects to AUDIO LEFT to TV or other equipment. |
| 7. HDMI | HDMI Output (High Definition) |
| 8. Optical S/PDIF | Output for digital amplifier |
| 9. TV SCART | Connect SCART cable to TV. |
| 10. POWER SUPPLY | 90~250V AC, 50/60Hz, 30W. |
| 11. POWER BUTTON | Turns on/off. |

FRONT PANEL & REAR PANEL

V. INSTALLING EQUIPMENT

This section explains several ways of connecting the receiver to your existing TV, VCR and Hi-Fi system.

You can choose one of the following setups that we recommend.

If you have any problem or need help, consult your dealer or service provider.

Please ensure that the following items are included with the receiver in your packing.

I. CONNECTING THE RECEIVER TO TV

I-1. Connecting the receiver to TV with the SCART cable

Connect one end of the SCART cable to the TV SCART socket on the rear panel of the receiver and the other end to a SCART socket on the TV.

II. CONNECTING THE RECEIVER TO TV WITH CINCH CABLE (RCA)

II-1. Connecting the receiver to TV with the CINCH cable

Connect one end of the CINCH cable to the Audio-R(Red), the Audio-L(White) and the Video (Yellow) socket on the rear panel of the receiver and other end to the Audio-R(Red), the Audio-L(White) and the VIDEO(Yellow) socket on the TV.

III. CONNECTING THE RECEIVER TO TV WITH HDMI CABLE

Connect one end of the HDMI cable to HDMI connector of receiver and the other end to the HDMI connector of the TV.

VI. CHANNEL LIST GUIDE

1. Normal Live Mode

- a) When you select one channel, information bar appears automatically on the screen for few seconds. This bar provides you the current channel information.
- b) Press INFO button to see the information during normal live mode.

2. Simple Channel List

- a) Press OK on the normal live mode to go to the channel list.
- b) When detail channel list is displayed on screen press RED button to go to simple channel list.

3. Detail Channel List

- a) Press OK on the normal live mode to go to the channel list.
- b) When simple channel list is displayed on screen press RED button to go to detail channel list.
- c) Press ◀ ▶ and ▲ ▼ to sort by Alphabet.
- d) Press SAT button to sort by Satellite and FAV button for Favorite 1~8.
- e) Press GREEN button to return to All Channel or EXIT to return to the current live channel.

FRONT PANEL & REAR PANEL

- f) Press the SAT key to show Satellite Pop-UP Window then select satellite. Channel list of selected satellite will be displayed.
- g) Press the FAV key to show Favorite Pop-UP Window then select FAV list. Channel list of selected FAV will be displayed.
- h) Press the Green key then all searched channel list will be displayed.
- i) Press MENU key then cursor will move to ALL, placed on the left.
- j) Sort Key (Yellow Key)~A~Z/Z~A/FAT/CAS.

k) Press Yellow key for sorting A~Z/Z~A/FAT/CAS. If you want to go back to unsort from the selected CAS go back to Pop-UP Window then select unsort.

4. EPG (Electronic Program Guide)

- a) Press EPG button on the live mode.
- b) EPG of the current channel appears on the screen.
- c) Select the channel that you want to watch program.
- d) To reserve program with recording function, press REC(●) button.(PVR model only)
- e) It will be appear like right side picture.
- f) If you reserve program, then it will be record automatically at reserved time.(PVR model only)
- g) Press Select button twice to return to current live channel.

5. ZOOM IN/OUT

- a) By selecting ZOOM key in a normal live mode you can use Zoom In/Out function.
- b) From the Pop-Up Window of Zoom function you can select(1-2-4-6-8-12) by ZOOM, for EXIT Zoom press EXIT button.
- c) When you move cursor of Zoom focus by key (◀ ▶ and ▲ ▼) then you can select Zoom In/Out on the focused point by pressing page up/down keys. Press Pause key then live mode will be paused on the mode of Zoom.

VII. MENU GUIDE

Press the MENU button on the RCU to open Main Page on the screen. Main Page will be displayed.

1. You can move into the main page using ◀ ▶ on the RCU.
2. Press OK to confirm your selection.
3. Press EXIT to return to the previous menu or press or MENU to go to the current live channel.

1. EDIT CHANNEL
2. INSTALATION
3. SYSTEM SETUP
4. TOOLS
5. GAME
6. REC
7. SMARTCARD

FRONT PANEL & REAR PANEL

1. EDIT CHANNEL

This section may help you to organize channels according to your preference.

1. Select Channel Manager in the Main Page with ◀ ▶ and press OK.
2. TV Channel Manager Page displays on the screen.
3. Select the mode that you want using ▲ ▼.
4. To see the channel that you choose, go to the channel and then press RED button.
5. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

1-1. Favorite

1-2. Rename

1-3. Move

1-4. Lock

1-5. Delete

1-1. Favorite

1. Using ▲ ▼ go to the Favorite mode then press YELLOW button to choose Favorite 1~8.
2. Press OK on the channel that you want to add or delete.
3. will be marked at the end of selected channel name bar. To delete press OK again.
4. Selected channels will be automatically saved.
5. If you want to check the saved Favorite Channel List go to other mode (Rename ~ Delete) except Favorite and then press FAV button to check Favorite 1~8.
6. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

1-2. Rename

1. Use blue button to go to the Edit Menu.
2. Display will appear EDIT (red), Change Name (green) and Delete (blue)
3. Select the channel that you want to edit using ▲ ▼ and then press a desired color.
4. Edit the name entering NUMBERS and / or WORDS in the Keypad Dialog.
5. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

1-3. Move

1. Use yellow button to go to the Move mode.
2. Select channels which you want to move by pressing OK key.
3. Move cursor that you want to place on than press OK button.
4. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

1-4. Lock

1. Use RED button to go to the Lock mode.

FRONT PANEL & REAR PANEL

2. Select the channel that you want to lock and then press OK. will be marked at the end of the selected channel name bar. To delete press OK again.
3. Press EXIT to go to Main Page or press MENU to go to the current live channel.

1-5. DELETE

1. Use green button to go to the Delete mode.
2. Select the channel that you want to Delete and then press OK. will be marked on the selected channel number.
To delete press OK button again.
3. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

2. INSTALLATION

This section may help you to set up antenna and scan satellite or transponder, etc. Select Installations in Main Page using °, ° and press OK.

Press EXIT to return to the previous menu or press MENU to go to the current live channel.

2-1. Antenna Connection

2-2. Satellite List

2-3. Antenna Setup

2-4. Single Satellite Search

2-5. Multi Satellite Search

2-6. TP List

2-1. Antenna Connection.

1. You can select between Fixed antenna and motorized Antenna.

2-2. Satellite List

1. You can select between pre-programmed satellites. You can also edit, add and delete satellite
2. You can mark the satellite with OK button.

2-3 Antenna Setup

1. You can select the antenna mode, between USALS and DiSEqC 1.2 after we select motorized antenna in antenna connection or select a Fixed dish and LNB type.

2-4 Single Satellite Search

1. you can mark satellite to search channels in that marked satellite.

2-5 Multi Satellite Search

1. We can mark satellites to search channels in the sequence of chosen satellites.

2-6 TP List

1. With the buttons ◀ ▶ we can select the satellites in which we want to see the pre-programmed TP list. We can edit, add, delete and even search for new transponders in this menu.

3. SYSTEM SETUP

This section may help you to set up OSD language, time, etc. pressing OK.

Press EXIT to return to the previous menu or press MENU to go to the current live channel.

3-1. OSD Settings

3-2. TV System

3.3 Local Time Setup

3.4 Parental Lock

3-1. OSD Settings

- You can select inside this menu the OSD language, first audio, second audio and teletext

3-2. TV System

Inside this menu you can modify different video formats like:

- Video Resolution - Choose between 480i, 576i, 576p, 720p, 720p-60, 1080i, 1080i_30. By source, By Native TV.
- Aspect mode - Choose between Auto, 16:9, 4:3PS, 4:3LB.
- Video EUROCONNECT - Output mode of Video-Audio by SCART-Output

Inside this menu you can also modify brightness, contrast and saturation.

3.3 Local Time Setup

Inside this menu you can modify:

- Use GMT in your time zone.
- Activate or deactivate Summer Time
- Time and Date in case of not using GMT.

3.4 Parental Lock

Inside this menu you can change and configure de passwords for:

- Block menus
- Block channels
- Change Passwords (default password is 0000)

4. TOOLS

This section helps you to:

- Information: See Software information of STB.
- Factory Setting: Reset STB to return to factory setting.
- Upgrade S/W: Software upgrade in any mode.
- USB: See USB memory content and select them depending on extension.
- Disconnect USB memory in a save way.

FRONT PANEL & REAR PANEL

5. GAME

In this section you can select games:

- Tetris
- Othello
- Sudoku

6. REC

In this section you can select the PVR options of STB.

- Record manager
- Timer Setting
Inside this menu you can configure up to 8 recording programs. Selecting Channel, date, starting time and recording duration.
- USB storage information.
- DVR configuration: Configure Time Shift options and the recording format like TS and PS.

7. SMARTCARD

In this section you can see the smartcard type information.

VIII. TROUBLESHOOTING

Problem

- Nothing appears on the Front Panel or No power supply

Solution

- Check that the power cable is plugged into the power socket.

Problem

- No Picture

Solution

- Check the dish and adjust it.
- Check the cable connection and correct it.
- The channel is off the air or scrambled.
- Check channel and video output.

Problem

- No Sound

Solution

- Check the volume level of the TV and receiver.
- Check the mute status of TV and receiver.
- Check the cable connection and correct.

Problem

- Remote Control Unit does not work

FRONT PANEL & REAR PANEL

Solution

- Replace batteries.
- Aim the remote control unit directly to the receiver.
- Checking that nothing blocks the front panel.

Problem

- “No Signal” on the screen

Solution

- Check the signal strength and the signal quality in the menu.
- Check the LNB and replace the LNB if necessary.
- Check the LNB cable.
- Check the Dish and adjust it.

Problem

- You have forgotten your secret PIN Code

Solution

- Contact your Service Provider.

QUICK INSTALLATION GUIDE

IX. SPECIFICATIONS

1. Conditional Access Module Interface

Item	Specification
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SMART CARD (Optional) compatibility	2 SLOT, ISO 7816, GSM11.11 and EMV (payment systems)
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2. Tuner & Channel

Input Connector	F-type (Output loop-through), IEC 169-24, Female
Signal Level	-25 to -65 dBm
LNB Power	Vertical : +13.5/18.5Vdc±5%
Polarization	Horizontal : +18.5Vd dc±
Current:	Max.500mA.Overload protected
22KHz Tone	Frequency : 22KHz±2KHz
DiSEqC Control	Amplitude : 0.8±0.2V
Version 1.2 USALS Compatible	
Demodulation	QPSK
Input Symbol Rate	2~45Ms/s Convolution Code Rate 1/2, 2/3, 3/4, 5/6, 7/8 with Constraint Length K=7

3. A/V & Data In/Out

TV Scart Output	CVBS, RGB, L, R Output with Volume Control
RCA Output	CVBS(Yellow), L, R Output(White, Red)with Volume Control
Digital Bitstream out (Coaxial)	Bit Rate 115,200baud
Data Interface Connector	9-Pin D-Sub Male type
USB	Type A Connector

4. MPEG Transport Stream & A/V Decoding

Transport Stream	MPEG-2 ISO/IEC 13818 / Transport stream Specification
Profile Level	MPEG-2 MP@ML, MP@ML, MPEG-4 H.264/AVC
Input Rate	Max 90 Mbit/
Video Resolution	576i, 576P, 720p, 720i, 1080i
Aspect Ratio	4:3, 16:9
Audio Decoding	MPEG/Musicam Layer I & II
Audio Mode	Single channel/Dual channel Joint Stereo/Stereo
Teletext	VBI & OSD(Optional)
Sampling Rate	32,44.1 and 48KHz

5. Power Supply

Input Voltage	AC 90 to 250V, 50~60Hz
Power Consumption	Max 30W
Protection	Separate Internal Fuse
Type	SMPS