USER MANUAL

RCN Hybrid STB

ROBERTS-3PATH

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1. SAFETY ADVICE

This product has been manufactured to match with international safety standards. Please read the following safety precautions carefully.

MAIN SUPPLY:

90-260V AC 50/60Hz by AC/DC Adaptor

Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power supplier company.

Disconnect the product from the main power source before you start any maintenance or installation procedure.

OVERLOADING: Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

LIQUID: The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

CLEANING: Disconnect the product from the wall outlet before cleaning. Use a light damp cloth (no solvents) to dust the product.

VENTILATION: The slots on top of the product must be left uncovered to allow proper airflow into the unit.

- Do not use the product in plugged in state on soft furnishings or carpets.
- Do not stack any electronic equipment on top of the product.

ATTACHMENTS: Do not use any unsupported attachments as these may be hazardous or cause damage to the product.

CONNECTION TO THE antenna: Disconnect the product from the mains before connecting to or disconnecting the cable from, the antenna. Failure to do so can damage the antenna.

CONNECTION TO THE TV: Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

LOCATION: Place the product indoors to avoid exposing it to lightning, rain or sun.

- Do not place it near a radiator or heat source. Make sure it has sufficient clearance from the device.
- Do not block the openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.

LIGHTNING, STORM or NOT IN USE: Unplug the product from the wall outlet and disconnect the antenna during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

EXTRANEOUS OBJECTS: Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

REPLACEMENT of PARTS: Replacement of parts may only be made by service technician specified by the manufacturer.

WARNING!

To avoid damage of the power cord or plug:

- Do not modify or process the power cord or plug arbitrarily.
- Do not bend or twist the power cord and USB Cable
- Keep heating appliances as far as possible from the power cord in order to prevent the vinyl cover from melting.

To avoid electrical shock:

- Do not open the main body.
- Do not insert metal or inflammable objects inside the product.
- Do not touch the power plug with wet hands.
- Disconnect the power cord in case of lightning.

To avoid damage of product:

- Do not use the product when it is out of order. If you continue to use the product when defective, severe damage can be caused to it.

2. QUICK SETUP

a. Please check the gift box for completeness of accessories. Included should be: Receiver, Remote Control, external Power Supply, User Manual, 2 Batteries, RCA Cable

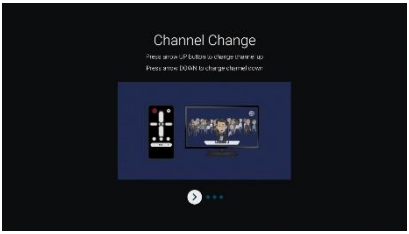
b. Connect your Receiver with your TV Set. Details can be found in the User Manual under chapter **4. How to connect your receiver**.

c. Connect your Receiver with your Satellite Antenna. Details can be found in the User Manual under chapter **4. How to connect your receiver.**

d. Switch on the AC-Power Switch on the rear side of the Receiver and then press the Standby button on the Receiver Front Panel (see User Manual for more details: Chapter **5.2 Front Panel** and **5.3 Rear Panel**)

e. Insert the 2 Batteries into the battery case on the underside of the Remote Control. Please make sure that the Battery + and - Poles are correctly aligned.

f. After the Receiver has booted it will display the On-Screen Menu on your TV Set. Should this not be the case, please check the connections as well as the settings of your TV Set.



You can learn the basics of operating the hybrid STB. To proceed to the next step, press the {OK} button.

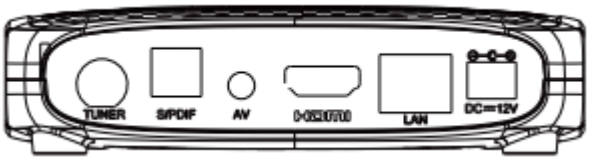
3. GENERAL FEATURES

- USB Port (direct connection of TV Dongle to the Android TV device)
- Subtitles
- EPG: Current and Next 7 days programme guide
- User selectable output resolution (Android TV device)
- Multi lingual on-screen display
- Fast Channel Change
- Create and Edit your Favorite Channels List
- Parental Lock
- Automatic and Manual Search
- Software Upgrade via USB or Online

4. HOW TO CONNECT YOUR RECEIVER

Please note: HD Signals are not transferred via RCA-Video – For HDTV Signals and also for the best quality on SDTV please use an HDMI cable where possible.

Connecting the Receiver to TV



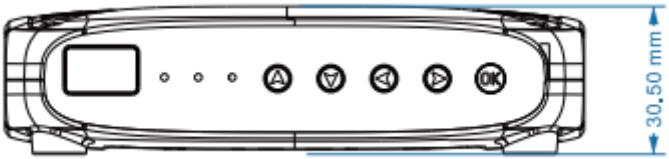
a. Connect the Antenna cable (Cable from your Satellite Dish) to the connector marked “DVB-S2” or Cable from your Terrestrial UHF Antenna to the connector marked “RF IN“ at the rear of the receiver

b. Connect an HDMI-Cable between the HDMI-ports of your TV Set and connect the CVBS cable to the according connections on your TV set.

5. HARDWARE / Remote Control

	POWER. By pressing this button, the receiver will go into standby mode. When the receiver is in standby mode, it can be awakened by pressing this button again.
	Universal RCU Please refer How to program on back side of RCU
	MOUSE: Pressing this button activates or deactivates MOUSE mode. In MOUSE mode, a cursor will appear, allowing the user to move it using the UP/DOWN/LEFT/RIGHT buttons and select items by pressing OK.
EPG	ELECTRONIC PROGRAM GUIDE. By pressing this button, the user can see current and forthcoming programming information for each channel.
Back	BACK: By pressing this button, the user go one step back
	cursor UP: By pressing this button, the user can jump to next channel on the channel list. In menu structure, user can move up one row.
	cursor LEFT: By pressing this button, the user can open channel list. In menu structure, user can change between selectable options.
	cursor RIGHT: By pressing this button, the user can event list. In menu structure, user can change between selectable options.
	cursor DOWN: By pressing this button, the user can jump to previous channel on the channel list. In menu structure, user can move down one row.
OK ENTER	OK: By pressing this button, the user can confirm a selection or save settings in a menu.
+ VOL	VOL +: Increases the Volume
VOL –	VOL +: Decreases the Volume
	HOME.
+ CH	CH +: Changes up one channel within the channel-list
CH –	CH +: Changes down one channel within the channel-list
0 ␣ ~ 9 WXYZ	0-9 NUMBER. By pressing one of the number buttons (0 - 9), the user can change channel or enter a number to menu.
	Settings: By pressing this button the user can jump between TV and radio lists of the receiver.
	BACKSPACE: the user can delete last character in the input text.

5.1 FRONT PANEL



a. UP Button, POWER Button(Long press)

b. DOWN Button

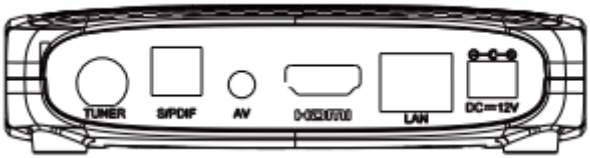
c. LEFT Button

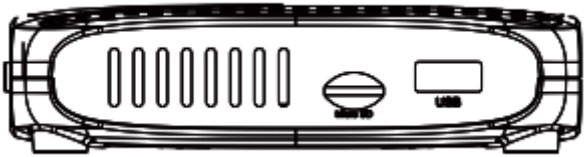
d. RIGHT Button

e. OK Button, BACK Button(Long press)

f. 3 LED indicators

5.2 Rear/Right Panel





No.	Name	FUNCTION
1	DVB-S2	Input for Satellite Antenna
2	SPDIF	Digital Audio Output SPDIF
3	AV OUT	Video and Audio Output
4	HDMI	High-Definition Digital Video/Audio Output
5	ETHERNET(LAN)	Network connection to Internet-Router
6	12V	Connection for external Power Supply
7	Micro SD Slot	External Memory Card Slot
8	USB	USB 2.0 Port

6. HOW TO SEARCH CHANNELS

User can scan channels on menu 'Service Searching'.

This menu contains following items:

- Automatic Search
- Manual Search

Users have two options for scanning the channels. If you already know the parameters of the channels which you wish to find, use the Manual Search and enter the required parameters accordingly. Otherwise use the Automatic Search in which all Frequencies are scanned.

We recommend scanning channels by Automatic Search.

6.1 Manual Satellite Search

To perform a Channel Search on one Satellite, choose the Satellite you wish to perform the search.

Users need to input frequency, symbol-rate, LNB (Frequency and Polarity) and 22Khz to match target Transponder which want to scan.

It will show result like picture if success to scan channels.

Press 'Finish' button to save searched channel and go to watch channels.

7. TV VIEWING

This chapter describes how to watch Live TV channels using the TV Dongle.

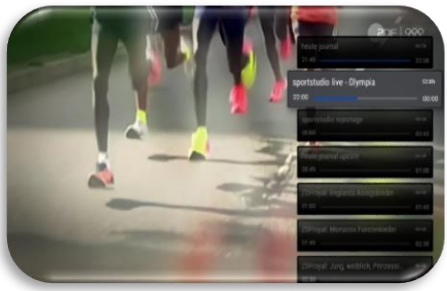
7.1 General watching

There are three different ways to choose and find a channel to watch.

1. On Main Menu, user can view the scanned channel list on 'Live TV'.
2. On 'Home' Menu, user can watch channel by selecting 'Dish TV Smart+' app.
3. User can find channels by voice control or text.

Press 'OK' on RCU of Android TV device to watch the channel.

Pressing LEFT key while watching channel, user can see short 'Channel List' on the left of the screen. User can navigate by UP and DOWN keys and exit by RIGHT key or find the channel that you want to search easily by 'magnifier icon'.

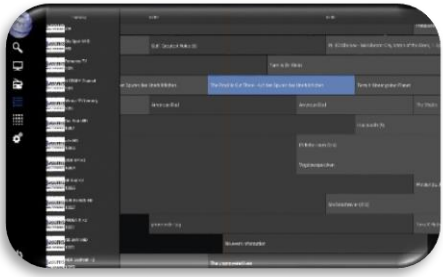


Pressing RIGHT key while watching channel, User can see short 'EPG' on the right of the screen. User can navigate by UP and DOWN keys and exit by LEFT key.

Press OK key once to see detailed TV guide information.

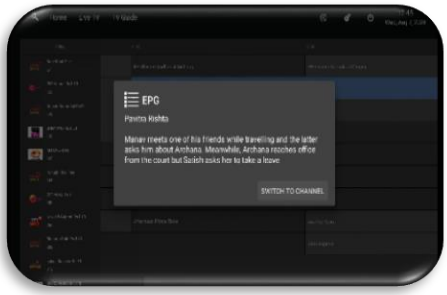
Press and hold OK key to see the channel menu. User can change available audio language or subtitle languages if more than one is available.

User can check information of current channel. (Service ID, Video/Audio PID and frequency, etc.)



The Channel can be selected by UP or DOWN key and confirmed by pressing OK key.

The Time-Line indicates which programs are live at the present time



Press OK key once to see detailed TV guide information

8. EDIT FAVOURITE CHANNELS

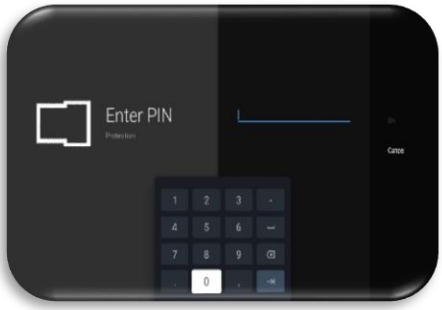
This menu is helps to add or delete channels in the Favorites group.

9. AUDIO AND SUBTITLES

Audio Language (1st / 2nd): Some TV programs send multiple audio tracks in two or more different languages. If there are no audio tracks available that match your settings, another language may be used instead.

Subtitle Language (1st / 2nd): Select the preferred language for the subtitling and Program information.

10. PARENTAL CONTROL



To use the Parental Control function, you will be asked to enter your access PIN code through Channels Management. All parental control features work on a locking concept with the PIN code as your entrance key.

The default PIN code is set to '0000'.

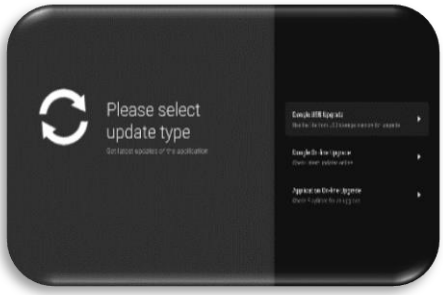
User can select some of channels to set locking.

User can setup Parental Rating by age level.

11. ABOUT

This gives information about your STB.

11.1 FIRMWARE UPDATE



The feature allows you to update the TV firmware on your TV Dongle and the application.

- Dongle On-line Upgrade: It will check if a new firmware is available online for the TV Dongle

- Application On-line Upgrade: It will check if any new application version is available online.

In case a new version is available, the upgrade process will start automatically after user confirms by pressing OK or Next button. Please wait until the app is rebooted.

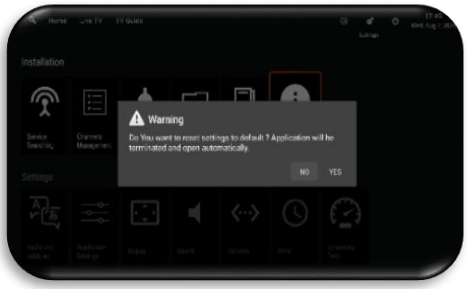
Please note: Updating the TV Dongle Firmware may take several minutes.

Warning!

Please do not turn off the power for the TV Dongle and/or the Android TV device while upgrade is in progress!

Do not remove the TV Dongle while upgrading, from your Android TV device.

11.2 FACTORY RESET



User can perform a factory reset to reset the configuration to the original state or Default Setting.

12. TROUBLE SHOOTING

Problem	Possible causes	Remedy
LED on front panel does not light	AC Power cord disconnected	Connect power cord properly into the power socket
No picture or sound	Wrong connection of the Video/audio output to TV input terminal Wrong connection of antenna cable No signal or weak signal Wrong setting of channels Information in MENU screen	Connect correctly with HDMI cable or RCA Connect the antenna cable correctly Check the cable connections and Antenna alignment Type the setting value correctly
Black-and-white screen or V-Hold	Your TV mode is different from broadcasting mode	Use the same mode on the TV Check the NTSC/PAL converter connection to the receiver and TV
The remote control is not working	Batteries exhausted Fluorescent light interfering with the remote control Remote control is incorrectly aimed	Change the batteries Switch off the fluorescent light Aim the remote control at the receiver
Distorted menu screen	Too high brightness and contrast level of TV set	Adjust brightness and contrast to a lower level
Not working	Process down	Switch off the receiver, remove the power cord. After a short moment, re-insert the power cord and switch on again

13. TECHNICAL ASSISTANCE

Dear Customer,

Should you require technical assistance and your dealer or installer was not able to help, please contact our technical support.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two 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.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Radiation Exposure Statement
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm from your body.