




**Digital Cable
RP-5 STB
RCU-039**



**Installation Manual
&
User Manual**

SAFETY PRECAUTION

CAUTION:		
		
The lightening flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to "dangerous voltage" and to prevent from a risk of electric shock.	Warning: To reduce the risk of electric shock, don't open the cabinet. 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).

WARNING: 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.

WARNING: Do not place naked flame sources, such as lighted candles on the apparatus; otherwise, there is the danger of fire.

WARNING: The unit should be connected to a power supply only of the type descry bed in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example: 120 or 230V) to your home, consult your local dealer or local power company.

WARNING: Do not open the cabinet or touch any parts in the inner mechanism. Consult your local dealer for technical service if the opening is required.

WARNING: The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

WARNING: Take attention to the environmental aspects of battery disposal. The battery of remote control should not be exposed excessive heat such as sunshine, fire or the like.

WARNING: Maintenance man must use the appointed screw in the rear plate.

WARNING: Ensure a minimum distance of 5 cm around the apparatus for sufficient ventilation.

WARNING: Ensure that the ventilation is not impeded by covering the ventilation openings with items such as newspapers, table-cloths, curtains, etc.

WARNING: Use the apparatus only in moderate climates (not in tropical climates).

Note: Do not open the cabinet to avoid the unit direct exposure to 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 consent; as such additions 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 machine on a bed, sofa or other similar surface, nor should it be placed over a radiator or heat register.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on. Please take special attentions to cords 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 machine 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 machine.

Note: Moisture may be formed inside the unit in 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 the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

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

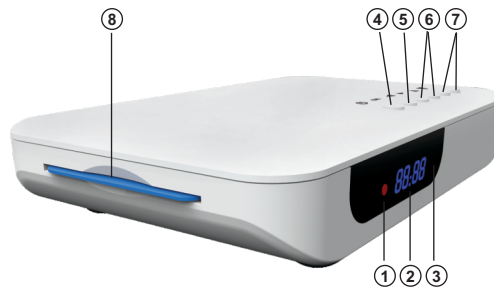
Safety Check: After all the maintenances and repairs are done, user is required to request the service technician to conduct the overall safety check to ensure the machine is in the proper condition.

Contents

1. Remote Control & Housing	2
1.1 Front Panel Description	2
1.2 Rear Panel Description	3
1.3 Remote Control Description	4
2. Basic Operations	6
2.1 Switch On Machine	6
2.2 STANDBY	6
2.3 MUTE	6
2.4 TTX	7
2.5 AUDIO	7
2.6 Channel Number (0-9)	7
2.7 LAST	7
2.8 TV/RADIO	7
2.9 INFO	7
2.10 CH+/-▲/▼	7
2.11 VOL+/-◀/▶	8
2.12 OK	8
2.13 MENU	8
2.14.EXIT	8
2.15 EPG	8
2.16 FAV	9
3. Main Menu	10
3.1 Digital TV	10
3.2 Radio	10
3.3 System Choice	10
3.3.1 Common Item	11
3.3.2 Password Change	11
3.3.3 Signal Check	12
3.3.4 Restore To default	12
3.3.5 SW Upgrade By OTA	12
3.4 Search	13
3.4.1 Auto Scan	13
3.4.2 Manual Search	13
3.4.3 Full Band Search	14
3.4.4 Center frequency mgmt	14
3.5 EPG	14
3.6 System Information	15
3.6.1 Set Top Box information	15
3.6.2 Channel information	15
3.7 CAS	15
4. Troubleshooting	16
5. Technical Specification	17

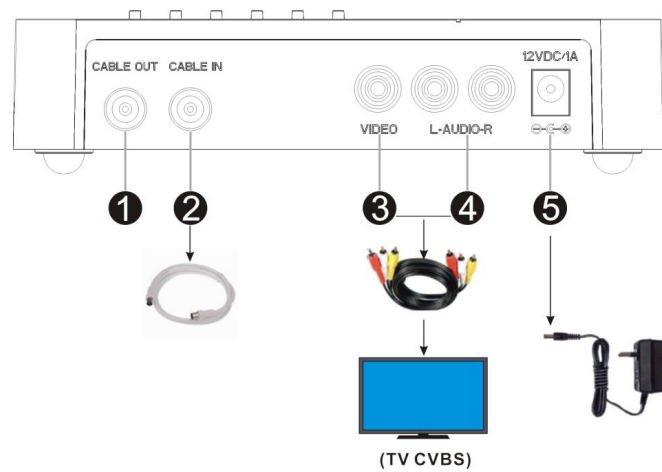
1. Remote Control & Housing

1.1 Front Panel Description



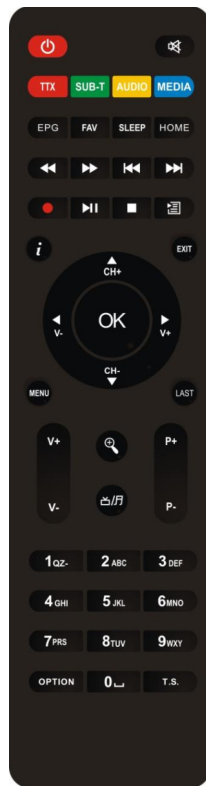
1. **POWER / SIGNAL LED:** Power / Signal indicator.
2. **DISPLAY:** When the STB is on, this will display the Channel Number you are watching. When the STB is in standby mode, this will display the current time.
3. **IR-SENSOR:** Detects the infrared signals from the remote control unit.
4. **POWER:** Is used to switch between the working mode and the standby mode.
5. **OK:** Selects the menu item or raises the Channel/File Navigator.
6. **CH+/-:** Changes the channel or moves the cursor down/up on the menu.
7. **VOL+/-:** Adjusts the volume or moves the cursor left/right on the menu.
8. **SMART CARD READER:** one slot is provided on the side.

1.2 Rear Panel Description







1. **CABLE OUT:** Cable output for cascading to others devices.
2. **CABLE IN:** Cable input of the digital tuner.
3. **VIDEO:** CVBS video output for TV AV in.
4. **AUDIO:** HiFi outputs for stereo set.
5. **DC IN:** Mains input cable from external power supply unit.

1.3 Remote Control Description



Remote Control & Panel Description

POWER:	Switch on and switch to standby mode.
MUTE:	Switch audio on and off.
TTX:	Used to display the teletext data.
SUB-T:	<i>Without function currently.</i>
AUDIO:	Open up the audio mode window.
MEDIA:	<i>Without function currently.</i>
EPG:	The EPG supplies information such as channel listings, program descriptions, and starting/ending times for all programs.
FAV:	Will display the favourite channel list.
SLEEP:	<i>Without function currently.</i>
HOME:	<i>Without function currently.</i>
◀◀/▶▶:	<i>Without function currently.</i>
 ◀◀/▶▶ :	<i>Without function currently.</i>
●:	<i>Without function currently.</i>
 :	Pause
■:	<i>Without function currently.</i>
 :	Show the scanned channels list.
 INFO:	Shows channel information with signal bar.
EXIT:	Use this key return to the viewing mode from any menu function.
CH+/-▲/▼:	Used to move the highlight bar or change channel up / down.
V+/-◀/▶:	Used to move the highlight bar or change volume up / down.
OK:	Confirms selections or opens channel list.
MENU:	Used to display the main menu and exit from submenu to main menu.
LAST:	Toggle between actual and last selected channel.
V+V-:	Adjusts volume or controls the cursor in menus.
 ZOOM	<i>Without function currently.</i>
 TV/RADIO:	Switch between TV and Radio channels.
P+/P-:	Page up/ Page down.
Numeric(0-9):	Enters a TV/radio channel number or menu option number.
OPTION:	<i>Without function currently.</i>
T.S.:	<i>Without function currently.</i>

2. Basic Operations

2.1 Switch On Machine

Switch the power button on.

When the machine is first used it will automatically start to search all channel and you can start to watch the TV programs after the search completed.

? Frequently Asked Question

Q: The power of my machine is on and it is running in TV mode but the TV screen shows nothing:

A: Make sure the TV set has been set to the correct video input (not the TV channels). For example, if you have connected the unit to the video1 input of the TV set then you need to select the corresponding input of the TV. Mostly it is done with the AV button of the TVs remote control unit.

Q: My machine is running in TV mode but the TV screen shows nothing except one ball and “No Signal”.

A: The signal of current TV channel is too weak. You can try to change to other channels with a stronger signal. If the problems still exist, please consult your local dealer or installer for technical service.

2.2 STANDBY

Press [Power] button to switch from TV/Radio mode to standby mode

In standby mode press [power] button again to switch on the STB. The last active channel will be seen. If you want to switch off mains, please unplug the external power supply.

2.3 MUTE

Press the [Mute] button to mute the sound. On the screen an icon will be displayed to indicate the same. Press the [Mute] button to unmute.

Basic Operations

2.4 TTX

Press [TTX] button in TV mode to open the teletext page. Teletext is subject to the channel. This service is depending on the support of the channel provider. If the channel provides TXT Data, the info banner will display "TXT", If the channel does not support teletext information, it will show "No Teletext Data" on the screen.

2.5 AUDIO

In TV mode, press the [Audio] button to open the Audio Mode window.

Select the item you want to adjust with [CH▲/▼] and change the value with [VOL◀/▶].



2.6 Channel Number (0-9)

In TV mode you can enter the channel number directly with your remote control unit

2.7 LAST

The [LAST] button allows you to toggle the back and forth between former and current channel.

2.8 TV/RADIO

In TV mode, press [TV/RADIO] to switch to Radio mode. In Radio mode press [TV/RADIO] again to switch back to TV mode.

2.9 INFO

In TV mode, press [Info] button once, will show channel number being received, the channel name, current and next program and the current date and time. Press the button twice you will see the extended description from the current program.

2.10 CH+/-▲/▼

In TV/Radio mode press [CH▲/CH▼] to change channel and you can use them to navigate in the main menu.

Basic Operations

2.11 VOL+/- ◀/▶

In TV/Radio mode, press [VOL◀/VOL▶] to adjust volume and you can use them to navigate in the main menu.

2.12 OK

In TV mode press [OK] button to open the Channel List.

Press [CH▲/▼] to switch channel and confirm [OK].



2.13 MENU

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

2.14.EXIT

Press [EXIT] button to exit the current menu.

2.15 EPG

The machine supports Electronic Program Guides (EPG) to give you information about the actual programs of certain channels like event name, subtitle, description, start and finish time. This feature is depending on the service of the channel provider.

Press [EPG] to open the EPG window.

You can move the highlighted channel with [▲/▼] and preview the highlighted program in the preview window with [◀/▶] and display the event's detailed description.

Press the [OK] button in the EPG menu to display the detailed information of the actual event in the selected channel.



Basic Operations

Press the green button in the EPG menu to program a timer with the actual events data.

o close the EPG menu press [EXIT / MENU].

2.16 FAV

In TV mode press the [FAV] button to display the Favourite Group window.

In the Favorite Group window you can select your favorite channel list. To navigate use [CH▲/CH▼] and confirm it with [OK]. Press [Exit] to close the Favourite Group window.

? Frequently Asked Question

Q: Why the screen displays “No Favorite Channel” after pressing the [Favorite] button?

A: No channels have been assigned to a Favorite Group yet. You can do this in the channel menu.

Menu Operations

3. Main Menu

Press [Menu] button, the main menu will Appear on the TV.

Main menu included: Digital TV, Radio, Search, EPG, System info, CAS

Press [▲/▼] or [◀/▶] to select the wanted menu item.

Press [OK] to enter the selected item.



3.1 Digital TV

When you enter the “Digital TV” menu a window like the one beside will open.

You can move the highlighted channel with [▲/▼] and press [OK] to preview the highlighted program in the preview window.

Press [◀/▶] to switch between the program groups.

Press [Menu] or [Exit] buttons to enter TV playing mode.

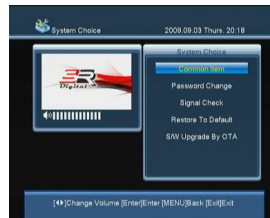


3.2 Radio

Basically the operation of “Radio” menu is same as “Digital TV”. except that in the small channel window the radio Logo will be displayed.

3.3 System Choice

In “System choice” menu, press [▲/▼] to select menu items among Common item, Password Change, Signal Check, Restore To Default and SW Upgrade By OTA



Menu Operations

3.3.1 Common Item

In "Common" menu, press [▲/▼] select edit item, you can edit the following item:

Time zone set: Press [◀/▶] to select the values, the time zone set values are between -12:00 and +12:00

Menu language: Press [◀/▶] to select language, the selection of languages include: English, Chinese.

Transparency: Press [◀/▶] to select transparency: On or Off

Brightness: Press [◀/▶] to select Brightness parameter between "10% and 40%" or "Off"

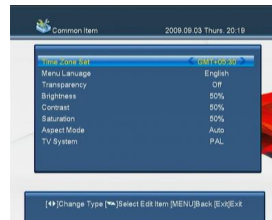
Contrast: Press [◀/▶] to select Contrast parameter between "10% and 100%".

Saturation: Press [◀/▶] to select Saturation parameter between "10% and 100%"

Aspect Mode: Press [◀/▶] to select aspect mode: 4:3LB, 4.3PS, 16:9.

TV System: Press [◀/▶] to select TV system: PAL; NTSC, Auto.

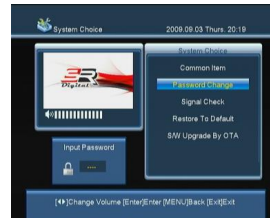
Video Output: Press [◀/▶] to select Video output between YCrCb and S-Video.



3.3.2 Password Change

You can set a password for anyone who wishes to operate the "Setup" menu. You can also set the password to lock channels. Below you find how to set and change the password.

Press [OK] to open a dialogue box and input the password. After you entered the correct password, the next menu is shown on the TV.



Menu Operations

3.3.3 Signal Check

This option shows list of signal check.



3.3.4 Restore To default

This option resets the STB and loads the factory default values.

Make sure you really want to do this.

Press [EXIT] in both steps will close the window without resetting the receiver.

The default password is 0000.



3.3.5 S/W Upgrade By OTA

This option allows S/W upgrade by OTA.



Menu Operations

3.4 Search

In "Search" menu, you can choose between the following menu items: Auto Scan, Manual search, Full band search, Center frequency mgmt.



3.4.1 Auto Scan

In "Auto Scan" menu, you can search channels into the STB automatically. If you don't have special request, STB will quick search default programs.



3.4.2 Manual Search

In "Manual search" menu, you can search channels into the STB by setting the following parameters manually:

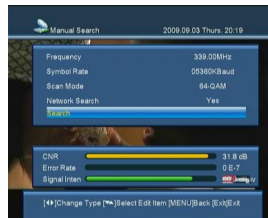
Frequency: You have to set the parameters of "Frequency", therefore use the number keys of the RCU.

Symbol Rate: You have to set the parameters of "Symbol Rate", therefore use the number keys of the RCU.

Constellation: Press [◀/▶] to switch this function "16QAM", "32QAM", "64QAM", "128QAM", "256QAM".

Network Search: Press [◀/▶] to choose "Yes" or "No".

Moving the highlight to "Search start" item and press [OK] key to start scanning.



Menu Operations

3.4.3 Full Band Search

In "Full band search" Menu, you can search channels into the STB by setting the following parameters manually:

Start Frequency: You have to set the parameters of "Frequency", therefore use the number keys of the RCU.

End Frequency: You have to set the parameters of "Frequency", therefore use the number keys of the RCU

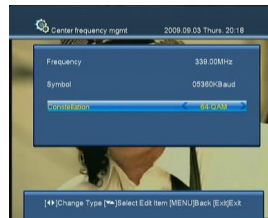
Symbol Rate: You have to set the parameters of "Symbol Rate", therefore use the number keys of the RCU.

Scan Mode: Press [◀/▶] to switch this function "16QAM", "32QAM", "64QAM", "128QAM", "256QAM". Moving the highlight to "Search" item and press [OK] key to start scanning.



3.4.4 Center frequency mgmt

This option allows setting the frequency, symbol and constellation.



3.5 EPG

The STB has an Electronic Program Guide (EPG) to help you navigate channels through all the possible viewing options via broadcasting signals, and is thus dependent on each channel's provider. The EPG supplies information such as channel listings and starting and ending times for all available channels.

Press [EPG] key to display EPG window.



Menu Operations

3.6 System Information

In "System Information" menu, press [▲/▼] to select menu items among Set Top Box Information, channel information.]



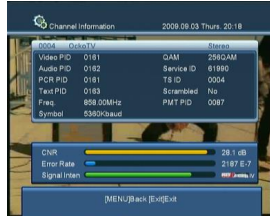
3.6.1 Set Top Box information

In the menu, you can get the STB information.



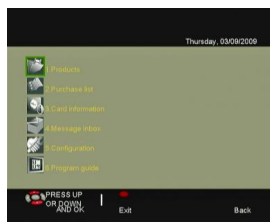
3.6.2 Channel information

In the menu, you can see the channel information.



3.7 CAS

In the menu, you will see CAS information



Troubleshooting

4. Troubleshooting

There may be various reasons behind receiver problems. Check the receiver according to the procedures described below. If you can't solve your problem even after following the troubleshooting procedures, please contact the dealer. Do not open the receiver cover, it may cause a dangerous situation.

1) The front panel doesn't display any message

The power cord is not plugged in.

Check that the power cable is plugged in to the wall outlet.

2) No picture or sound

--Wrong connection of the audio / video output of the receiver to TV

Connect the audio / video output of the receiver to TV correctly.

--Audio muting

Press the MUTE button

--TV power

Turn TV on

3) No picture

--Incorrect values of some tuner parameters

Set the values of tuner parameters correctly. Refer to the installation menu

4) The remote controller does not operate

--The batteries of the remote controller are not inserted or exhausted

Check whether the batteries are inserted correctly in your remote controller.

Check and replace the batteries of the remote controller.

Technical Specification

5. Technical Specification

VIDEO

Decoding	MPEG-2 ISO/IEC 13818 (MP@ML)
Output	PAL/NTSC
Aspect ratio	4:3LB, 4.3PS, 16:9
Active pixel	SD: 720x480 @ 30fps; 720x576 @ 25fps
Output connector	CVBS (RCA)

AUDIO

Decoding	MPEG-2/MPEG-1 layer I & II
Mode	Left, Right, Mono, Stereo
Sampling rate	32 / 44.1 / 48 KHz

INPUT

Standard	MPEG2 SD
Input connector	F-Connector
Frequency	VHF-UHF
Constellation QAM	QAM16, 32, 64, 128, 256
Frequency band	47-862 MHz
Input impedance	75 ohm
Channel bandwidth	7, 8 MHz

MISCELLANEOUS

External Supply voltage	12V/1.0A, 90~270VAC, 50/60Hz
Power consumption	10 watts
Operation Temperature	0° - 50°C
Dimension (W * D * H)	130 x 120 x 31mm
Weight (Net)	About 0.3 Kg