

# Car Digital TV Box

---

## Product Information

(DVB-T2)

# SAFETY INSTRUCTION

Please read the following instructions carefully.

1. The power input is DC 12V.
2. Do not expose the receiver to rain, moisture, direct sunlight or do not place it near a heater.
3. Do not use liquid or aerosol cleaners.  
Use a light damp cloth for cleaning.
4. The hole on the bottom of receiver must be uncovered to allow proper airflow to the unit.
5. Do not open or remove cover.

## PRODUCT INTRODUCTION

This car digital TV box is compatible with the international standard signal to transmit digital pictures, sound and television program, so you can get the digital signal easily in your driving. This product has new interface and menu with different languages, and full functional remote control, we believe this product will make your driving interesting.

## FEATURES

Fully comply with DVB-T/T2 and H.264, MPEG-4, MPEG-2 Standard

- AUTO: 16:9 Pillar Box, 16:9 Pan G Scan, 4:3 Letter Box, 4:3 Pan G Scan, 4:3 Full, 16:9 Wide Screen
- Support AV-IN and AV-OUT
- Video format: 480i/480p/576i/576p/720p/1080i/1080p
- Support teletext/subtitle/multi-language
- USB2.0 software upgrade
- Powerful and highly effective 7-day EPG function
- Program parameters memorization when power off
- Can store up to 400 TV/radio stations
- Support high-speed mobile signal receiving

# PRODUCT AND ACCESSORIES

## Product:

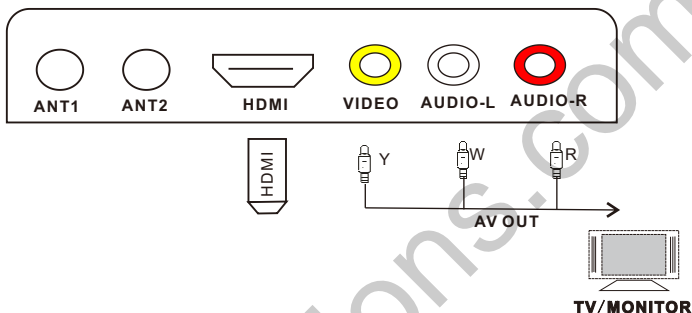


## Accessories:

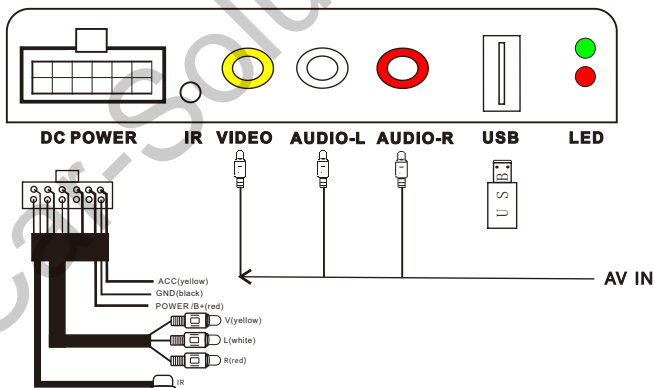


# FRONT AND REAR PANEL

## REAR(NB2122T2)



## FRONT(NB2122T2)



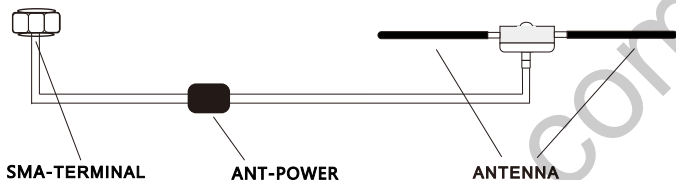
**SIZE: 160(L)×95(W)×25(T) mm**

[support@car-solutions.com](mailto:support@car-solutions.com)

[www.car-solutions.com](http://www.car-solutions.com)

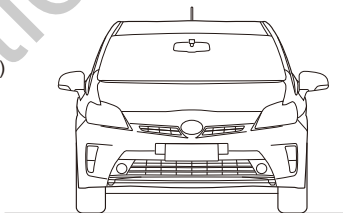
# ANT INSTALLATION

## 1.ANT Structure:

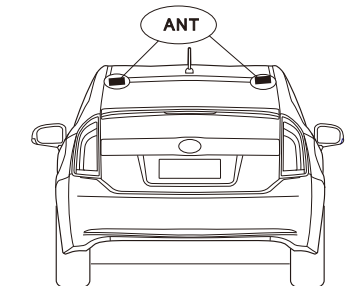


## 2.ANT Installation:

(1).Front windshield (sunshine shield film) will cause poor reception as/since it has a metallic coating. Please install the antenna on a clear window position.

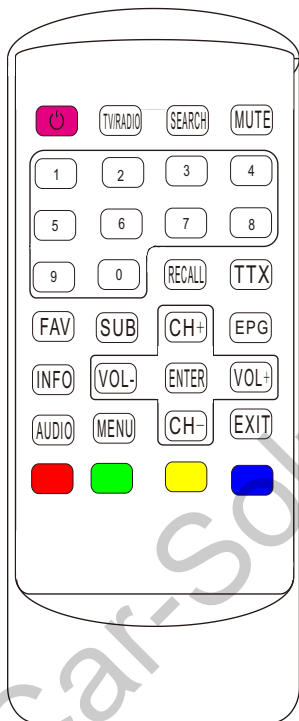


(2). Shift antenna to check the signal strength, then move it to a best position.



(3).The install locations are just for your reference.

# REMOTE CONTROL UNIT (RCU)



-POWER: Power on/off

Switch the receiver between stand-by & on mode

-TV/RADIO: Select TV and radio mode

-SEARCH: Searching all channels quickly

-MUTE: Mute the audio output

-Numeric Keys (0~9): For direct entry of channel number or input of alphanumeric characters

-RECALL: Go back to the previously viewed channel

-TXT: Display on the teletext contents of the viewed channel, if teletext is transmitted

-FAV: Select the favorite channels

-SUB: Switch the subtitle on if the subtitle is transmitted on this channel

-EPG(Electronic Program Guide):Call up the EPG function

-INFO: Display information on viewed channel

-CH(+/-): Change channels sequentially up or down in viewing mode and move to the next higher or lower item in the menu

-VOL(+/-): Alter the Audio output level up or down in viewing mode or move to the left or right item in the menu

-ENTER: Select an item or confirm a selection. A list will enter the channel in viewing mode

-AUDIO: Switch the audio language if transmitting more than one language and Select different audio modes

-MENU: Access the main menu

-EXIT: To return to previous status or exit

# Digital tv playback function operation

## Main Menu

Press **[MENU]** on the remote control, or touch it on the screen, enter the main menu.

- . Search Menu: enter search menu;
- . Config Menu: enter config menu;
- . System Menu: enter system menu.

Press **[CH+]** or **[CH-]** to choose the option that you want, press **[ENTER]** to confirm.



(picture-1)

## Search Menu

Select "Search Menu", enter the search menu.

- . Country: select country where the device is used.

- . Auto Search: begin full-band search;

- . Manual Search: enter the manual search menu
- Touch it on the screen or

Press **[CH+]** or **[CH-]**, choose the option that you want.

Press **[ENTER]** to confirm.

Press **[VOL-]** or **[VOL+]** to select country.



(picture-2)

## Auto Search

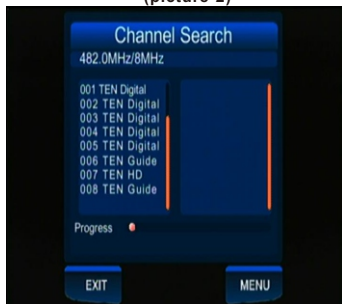
Select "Auto Search", it will begin searching all of the frequencies.

When searching, please wait for finish.

If you want to interrupt the search, press the **[EXIT]** button.

When it is searching, it will display the current frequency and the progress of the search.

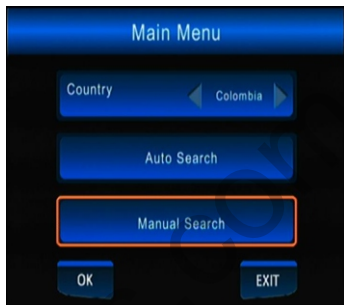
During the search, if the program is received, it will be displayed in the display field.



(picture-3)

## Search Menu

Select "Manual Search", Press **ENTER** on the remote control or touch it on the screen to enter the manual search menu.



(picture-4)

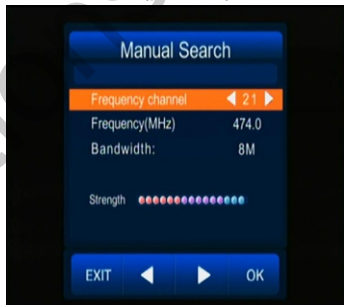
## Manual Search

Press **VOL-** or **VOL+**, choose the frequency that you want to search.

Press **ENTER**, confirm and begin to search.

Press **EXIT**, return to the previous menu. or touch the screen icon.

When you change the frequency, the "Strength" bar will display the signal level.



(picture-5)

## Channel Search

During the search, if the program is received, it will be displayed in the display field.

Press **EXIT** to break the search if you don't want it to continue.



(picture-6)

# Digital tv playback function operation

## Picture Settings

In the "Picture" menu, there are three options:

- (1) Aspect Ratio
- (2) Resolution
- (3) TV Format

Press **CH+** or **CH-**, choose the option that you want.

Press **VOL-** or **VOL+** so that change the parameters.

Aspect ratio contains multiple 16:9 and 4:3 screen ratio.

Resolution contains 480i, 480p, 720p, 1080i, 1080p.

TV Format contains NTSC and PAL



(picture-7)

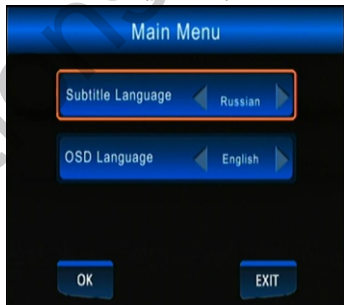
## Language Settings

The device includes multiple language of many country.

OSD Language is the language of menu.

Press **VOL+** and **VOL-** to choose the language.

Press **EXIT** to return and your setting will auto save.



(picture-8)

## Channel List

When the search is completed, if there is a program that will automatically play .

Press **LIST** to check the channel list.

Press **CH+** and **CH-** to browse the channel.

Press **ENTER** to choose and press **EXIT** to return.

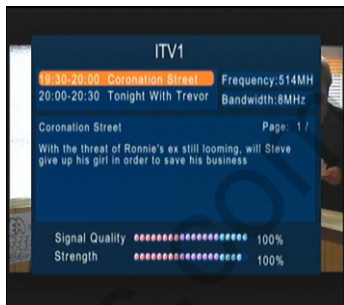


(picture-9)

# Digital tv playback function operation

## Program information

In the play menu, press **[INFO]**, enter the "INFO" key to show the information of current programs when it is in normal playing state. Press again to show more detail information.



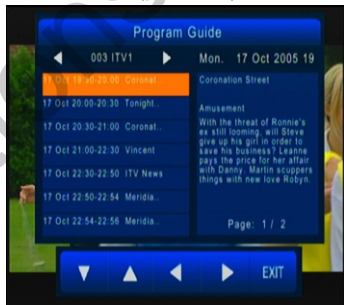
(picture-10)

## EPG(Electronic Programs Guide)

In the play menu, press **[EPG]**, enter the EPG menu.

In the EPG menu, it will display channel name, date of the program guide, the program schedule and the program introduction.

Press **[CH+]** or **[CH-]**, Up or down to switch options;  
Press **[VOL+]** or **[VOL-]**, Left or right to switch options;  
Press **[EXIT]**, exit the EPG menu.



(picture-11)

## USB Upgrade

You can update the software of the receiver with New software version can improve performance or solve the problem.

1. Copy the upgrade file into USB disk.
  2. Get into system item of software update function.
  3. Select up grade process, don't take of the power supply.
- Otherwise the system will fail and can not power on any more.



(picture-12)

# Digital tv playback function operation

## Multimedia

Two options in this Menu.

Multimedia: contains music, photo, movie, PVR.

PVR Configure: config the PVR parameters.



(picture-13)

## Multimedia Function

In Multimedia menu, four options here

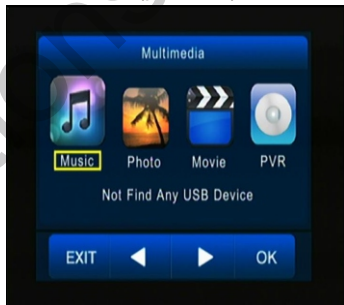
Music: play songs.

Photo: browse pictures

Movie: watch movies

PVR : record video

In order to achieve these functions, you need to access external USB memory.



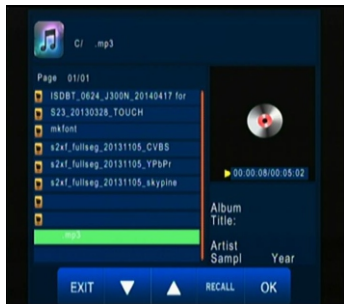
(picture-14)

## USB Music

Select USB Music option , press "OK" key to confirm.

Press "OK" key to enter next directory.

Follow the bottom key guide to operation.

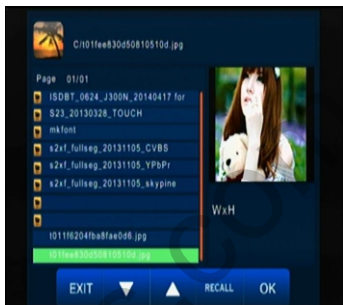


(picture-15)

# Digital tv playback function operation

## USB Photo

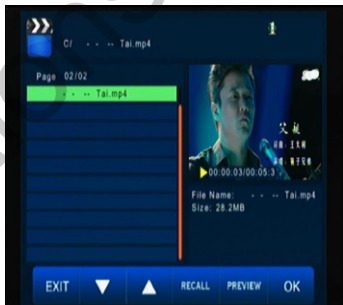
Select USB Photo option, press "OK" key to confirm .  
Press "OK" key to enter next directory.  
Follow the bottom key guide to operation.



(picture-16)

## USB Movie

Select USB Movie option, press "OK" key to confirm .  
Press "OK" key to enter next directory.  
Follow the bottom key guide to operation.



(picture-17)

## PVR Playback

if the pre-recorded file in the USB disk, then you can select the file and playback.

Only allowed in this machine.



(picture-18)

## Version information

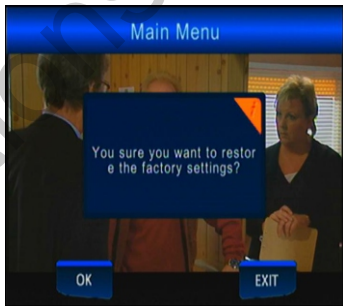
The information included H/W Version, S/W Version and Model. Press "EXIT" key to return previous menu.



(picture-19)

## Factory Default

Press "OK" to return original factory default setting.



(picture-20)

# SPECIFICATION

- RF input: 2 SMA-type terminal
- Input Impedance@Antenna: 75ohm
- Frequency range: 48MHz-866MHz
- ANT1 Signal level:-84dBm~0dBm
- ANT2 Signal level:-84dBm~0dBm
- Bandwidth: 6M/7M/8M
- Demodulation: QPSK, 16QAM, 64QAM, 256QAM
- Guard interval: 1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
- FEC : 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
- Cofdm carrier mode: 1k, 2k, 4k, 8k, 16k, 32k
- Video Decoder:
  - MPEG-4 part10/MPEG-2 ISO/IEC 13818
  - MPEG-4 Simple/Main/Advanced Profile@LEVEL3(10Mbps)
  - MPEG-2 Main Profile# Main Level(15Mbps)
  - H.264 MP#L3(10Mbps).H.264 HP L4.1(25Mbps)
- Audio Decoder:
  - MPEG-1, MPEG-2 (Layer I/II), MP3, AC-3 (Dolby Digital), AAC-LC, WMA E-AC-3 (Dolby Digital Plus) decoding
  - HE-AAC 5.1 multi-channel decoding
- Video System: PAL/NTSC
- Video input: CVBS
- Video output: CVBS / HDMI
- HDMI Resolution: 1920x1080p/1920x1080i
- Audio Output: Left / Right
- IR remote control
- USB 2.0 for upgrade
- Input Voltage Range: 9V~16V
- Power consumption: <4.5W
- Operation temperature: -20~75°C,  
Working limit: -25~80°C