Specifications

General

Power supply: DC10V~32V

Maximum power output: 20W*2 channels(4Ω) for 24V input

Dimensions（W*D*H）: 184mm*56mm*107mm

Weight: 0.6Kg

FM/RDS Stereo Radio

Frequency range: 87.5 ~108 MHz Signal/noise ratio: ≥48dB

Search sensitivity: 23±8dB

AM Radio

Frequency range: 522~1620KHz Signal/noise ratio: ≥43dB

Search sensitivity: 36±10 dB

Digital(DAB)Radio

Frequency range: BAND Ⅲ 174~240MHz Signal/noise ratio: ≥50dB

Usable sensitivity: -95dBm

Bluetooth

Bluetooth version: 5.0 Output power: 4dBm(Class2)

Frequency range: 2.4000GHz-2.4835GHz Range: 10meters(free space)

USB Charging

0.5A 5V (only for some models)

Note: specifications and the design are subject to change without notice due to improvements in technology.

Precautions:

- Keep the volume at a level at which you can hear outside warning sounds。
- When you wash the car, please be careful not to spray water on this product。
- When the product is at maximum power output for a long time, the temperature of its case will increase significantly. This is normal phenomenon, be careful not to touch the case
- Do not open the cover and do not repair by yourself. Otherwise, we will not provide warranty service.
- If you have any questions about this manual, Please contact our after sale service department.

Address：Bridge 16, Caoan Road, Shanghai, China
Post：201812 Tel:021-39117568 / 39117569 / 39117591
Fax：021-39117573-8031 E-mail：mail@orteksh.com Website：www.orteksh.com

上海王力电子电器有限公司 SHANGHAI ORTEK ELECTRONICS CO. , LTD TQ-200 PQ200X04A6

TQ-200 Car Radio User Manual



(FM/AM/RDS/DAB/Bluetooth/USB)The actual product may occasionally be updated without further notice.

Feature Overview

Panel controls

General Operation

Specifications

Precautions

Warning: To ensure safety and good user experience, please read this user manual thoroughly before starting to use the product.

上海王力电子电器有限公司

SHANG HAI ORTEK ELECTRONICS CO.,LTD

Feature Overview

TQ-200 is a car audio system that can enjoy FM / AM / RDS radio and digital radio (DAB)。Also includes Bluetooth, MP3(USB), sound adjustment, external audio input, loudness and other functions.

About Digital Audio Broadcasting (DAB)

It is the third generation of broadcasting after the traditional analog broadcasting of FM and AM, It has the advantages of anti-interference, anti-wave propagation fading, suitable for high-speed mobile reception. When listening to DAB radio, there is no need to remember the frequency, just tuning by the station name.

Ⅰ. Radio function：Support FM（87.5~108MHz）、AM（522~1620KHz）、RDS（87.5~108MHz）、DAB(174~240MHz).

Ⅱ. USB/AUX function ： This product allows playback of MP3、WMA files， support mobile phone, MP3 external audio input.

Ⅲ. Sound Adjustment ： Support bass/treble/balance/fader/ electronic（Flat/POP/ROCK/Classic/JAZZ）.

Ⅳ. Bluetooth ： The Bluetooth allows you to utilize your vehicle's built-in audio system for wireless mobile phone or music hands free communication.。

Panel



(1) : Power button，Mode selection (2) LOUD/ : Mute/Loudness

(3) APS/FM/AM：FM/AM selection，Auto-save band

(4) 1/ , 2/SCN, 3/RPT, 4/RDM, 5/DISP, 6/ : Preset station, MP3 playback function buttons, Call pick up

上海王力电子电器有限公司 TQ-200
SHANGHAI ORTEK ELECTRONICS CO. , LTD PQ200X04A6

(5) SEL/ / : Muti-function selection button for select Menu entry in user Menu and call hang up

(6) SEEK/ : Manual/automatic tune button, MP3 previous/next/fast-forward/rewind song

(7) VOL/ : Volume adjustment button, Sound adjustment button

Instructions

1. General Operation

NOTE:[Press: less than 2 sec, Hold: longer than 2 sec]

1．1 Mode Selection

To switch on the Radio press the Power button" ". Then press power button to switch between and elect available sources: RADIO->BLUE> AUX->DAB. Insert U disk to enter USB mode automatically。To switch off the Radio press and hold the Power button " " .

1．2 FM/AM Radio

◆After switching on, in RADIO mode, Press "APS" button to select the desired band from FM1, FM2, FM3, AM1, AM2。

◆For Automatic tuning press the button. For manual station selection press and hold the button. Press and hold the "APS" button, the Radio searches the effective stations and stores them. Press and hold any one of "1" ..... "6" buttons , the current station will be stored in the preset button. FM can store up to FM1, FM2, FM3, 3 * 6 = 18 stations; AM can store up to AM1, AM2, 2 * 6 = 12 stations.

◆To adjust the Volume press the VOL/ button. (The volume level is 0-39).

◆DX/LOCAL options shows search Level of AM/FM-Tuner. Press the "SEL" button to select DX. If you want to listen to local radio programmers or encountering strong electrical interference, press the button switch DX to LOCAL

◆STEREO/MONO options selection of Stereo or Mono output of FM/AM. Press the "SEL" button to select STEREO, the button can switch STEREO to MONO.

1.3 RDS

Many FM Stations transmit RDS data(Radio Data System) in addition to their audio program. Including station name, program type, traffic information, advertising information, etc.

◆When listening to FM radio, if you want to enable automatic Traffic announcement,Press the "SEL" button to select "TA OFF" in the Settings menu,then press the button to select "TA ON".

(The TA icon on the screen is shown).If the current station is not a traffic station, the"TA SEEK" is shown in the display every 30 seconds to find the traffic station. After finding it, the TP icon on the screen will be shown, and if not, "NO TA/TP" will be displayed.

◆When listening to FM radio, if you want to enable automatic selection of best audible frequency, press the "SEL" button to select "AF OFF" in the settings menu,then press the button to select "AF ON"(The AF icon on the screen is shown).If the radio can't find best reception quality station for 3 times,the"TA SEEK" is shown in the display to find different frequencies that play the same program.

◆When listening to FM radio,to search for a desired program type press the "SEL" button to select"NO PTY" in the settings menu,then press the button to choose the available program types(there are 31 types in the appendix)."PTY SEEK"is shown in the Display after the selected program type blink 5 sec, If no station with the selected Program Type can be found,"NO PTY"is shown in the Display.

1.4 DAB Radio

◆After switching on, in DAB mode, press and hold"APS" button for automatically tuning. "XX/XX" is shown on the display,the first two represent progress %, and the last two represent the number of stations in stock。A pause within 5 sec is normal when automatically tuning. In the case that no station will be stored, "No PROG" will be shown on the display.

◆The stored stations are denoted by "CHXX", to recall stored station press the button，or press any one of "1"... "6" buttons can be selected to CH01..... CH06 quickly.

◆The screen will display "LINK⋯" when the DAB signal quality drops significant ,It is suggested to press and hold"APS" button for automatically tuning again if still can't connected.

◆During DAB radio, the screen will scroll to display program information. For example, DLS/DIRE means real-time radio information; NAME/KOF stands for the name of the radio program; PTY NONE represents the type of radio show; 96K BIT indicates the radio bit rate; 188.928M represents the frequency point to which the station belongs; SIGNAL 2 stands for signal strength (5 MAX). Different stations display different messages.

◆Note: DAB radio must be available locally and within the receiving range.

2、MP3(USB)Mode

2.1 Insert a USB device into USB Port enter USB mode automatically after switching on.

上海王力电子电器有限公司 TQ-200
SHANGHAI ORTEK ELECTRONICS CO. , LTD PQ200X04A6

The icon on the screen is shown when USB device is inserted .Press the button to play previous/next song. Press and hold the button for rewind/ fast-forward song.

2.2 Function Descriptions under USB Mode

◆1/ : Press to pause or start to play

◆2/SCN: Press [2 SCN] button to activate "INTR ON" and "SCN" icon is shown, press it again to stop scan mode and the screen display "INTR OFF". In scan mode all titles are played for 10 sec.

◆3/RPT: Press the [3 RPT] button to activate repeat one(display"RPT ONE"and "RPT" icon is shown)/repeat folder(display"RPT FLOD"and "ALL" icon is shown)/repeat off(display"RPT OFF") .

◆4/RDM: To activate random play press the button [4 RDM].The screen display "RDM ON"and "RDM" icon is shown.Press it again to stop random mode and the screen display "RDM OFF".

◆5/DISP: Press [5 DISP] button to switch display between current track information and played time,Including FILE, TITLE, ALBUM, ARTIST, FOLDER. The above information can only be displayed in English.

3、AUX Mode

◆ Press " " to switch to "AUX "mode.

◆ Through 3.5mm AUX in cable, play external MP3 files in external device including MP3 device / Phone device.

4、Sound Adjustment

When listening to songs in any mode, sound effects can be adjust to achieve the ideal listening experience.

◆ Press the [SEL] button again and then select BAS 00(Bass),then press the to adjust bass according your needs (-7 to 7).

◆ Press the [SEL] button again and then select TRE 00(Treble),then press the to adjust treble according your needs (-7 to 7).

◆ Press the [SEL] button again and then select BAL 00(Balance),then press the to adjust balance of left/right channel according your needs (L7 to R7).

◆ Press the [SEL] button again and then select FAD 00(Fader),then press the to adjust fader of front/rear channel according your needs (F7 to R7).

◆ Press the [SEL] button again and then select LOUD OFF, then press the button switch OFF to

ON(The LOUD icon on the screen is shown).You can also press and hold [LOUD/] button to activate LOUD ON. The loudness function can increases the gain of bass and treble especially at low volume.

◆ Press the [SEL] button again and then select FLAT,then press the / button to select one of the following options USER->ROCK->CLASSIC->POP->JAZZ. The EQ icon on the screen will be shown if the predefined sound effects to be chosen. If the BAS/TRE/BAL/FAD has been setting, the default is USER effect.

5、Bluetooth Operation

The Bluetooth allows you for hands free call and listen to music.

◆Turn on Bluetooth function of your mobile phone. Search for new Bluetooth devices.Select this radio name"CAR BT"from the pairing list on the mobile phone.After pairing successfully, the " " icon will light up. Different phone may lead to different operation procedure. The above is for your reference only.

◆Mobile phone dialing, the screen displays OUT CALL and the phone number.You can speak to the radio directly,the volume can be adjusted with the" VOL" button. Press the " " button to hang up.You can answer an incoming call by pressing the " " button, the screen displays IN CALL and the phone number. The default call ringtone is "beep ... beep". HPF icons will light up during telephone call.

◆When you want to listen to the music on your phone via Bluetooth, you must Press " " to switch to "BLUE "mode. During music play, A2DP icons will light up. To pause and resume Playback press button [1/]. To select the next/previous track push the / button.

◆Note: Cannot guarantee the compatibility of all mobile phones together with unit.

6、Time Setting(Optional)

◆ The screen is shown the default time 00:00 when the machine is powered on.

◆when the machine is turned on,press and hold the [SEL]button to display the time information.Press and hold the [SEL]button again,hour-digit will flash,press the / button to adjust the hour-digit. When the hour-digit setting is done ,press the [SEL]button to flash the minute-digit,press the / button to adjust the minute-digit. The setting is completed if no operation within 5 secs.

◆Only 24 hours.

上海王力电子电器有限公司 TQ-200
SHANGHAI ORTEK ELECTRONICS CO. , LTD PQ200X04A6

Appendix：RDS program types

1	NEWS	9	VARIED	17	FINANCE	25	COUNTRY
2	AFFAIRS	10	POP M	18	CHILDREN	26	NATION M
3	INFO	11	ROCK M	19	SOCIAL	27	OLDIES
4	SPORT	12	EASY M	20	RELIGION	28	FOLK M
5	EDUCATE	13	LIGHT M	21	PHONE IN	29	DOCUMENT
6	DRAMA	14	CLASSICS	22	TRAVEL	30	TEST
7	CULTURE	15	OTHER M	23	LEISURE	31	ALARM
8	SCIENCE	16	WEATHER	24	JAZZ	32	

FCC Statement

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 interferencereceived, including interferencethat may cause undesired operation.

Changes or modifications 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 important announcement

上海王力电子电器有限公司 TQ-200
SHANGHAI ORTEK ELECTRONICS CO. , LTD PQ200X04A6

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.