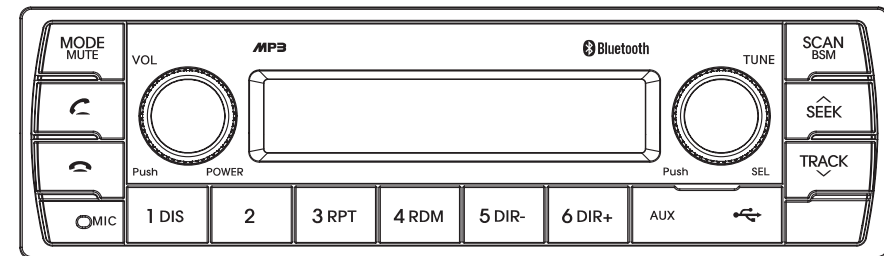


Owner's Manual for Users



USB/AUX/BLUETOOTH
WITH FM/AM RADIO



!!!!!! **ATTENTION** !!!!!

Any Abnormal Operation or interference of frequency, the radio may get caused malfunction. If so, RESET the radio by press and hold both MODE and 5DIR- buttons about 5seconds simultaneously.



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Before operating the unit, please read this manual thoroughly and retain it for future reference.



Bluetooth Summary

The BLUETOOTH features are subject to Bluetooth Ver. 5.0

The Bluetooth technology is a wireless connection with a short range. That is, the cellular phone must be in between 30cm to 1 meter close to the car audio system (in the vehicle).

The integrated Bluetooth module in your audio unit allows the hands-free use of a phone via a Bluetooth connection. The cellular phone can remain in the bag or the glove compartment, while you have both hands free for steering.

The Bluetooth feature allows for:

- Automatic phone connection
- Caller ID display
- Re-dialing for last call number
- Call transfer & pairing
- DSP Echo / Noise cancelling
- A2DP (Audio streaming)
- AVRCP (Music play control via phone)
- Battery level indicator (phone dependent)
- Network level indicator (phone dependent)
- Microphone included (Built in to the Audio Unit)

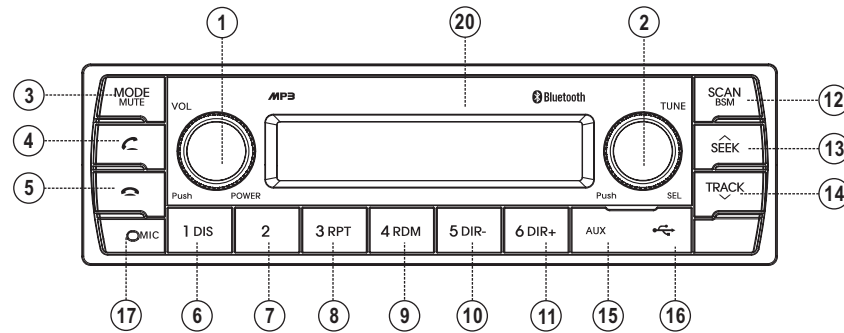
IMPORTANT NOTES:

Keeping well your phone connection with Bluetooth technology, followings are recommended.

- Talking better close to the Audio Unit.
- Off road driving or opening window, higher speed (over 30Km) should be heard loud noise whilst phone conversation.
- Talking the call through out the speaker phone with other hand free kits must be heard loud noise or unclear talks.
- Air conditioner or heater may cause interruption noise to be heard.
- Cell phone are not too close to the audio unit to avoid GSM noise caused. (No closer than 30CM to the radio unit).
- Extreme weather may cause not to work the Bluetooth function in the audio unit.



Identification of Controls and Functions



1. Power ON/OFF, Volume UP/DOWN button
2. Manual UP/DOWN Tuning, File Search, SEL button
3. MODE button, Audio Mute button
4. Call & Pair button
5. Call End button
6. Station Preset 1, Display button
7. Station Preset 2
8. Station Preset 3, Repeat Play button
9. Station Preset 4, Random Play button
10. Station Preset 5, Directory Down button
11. Station Preset 6, Directory Up button
12. BSM (Best Station Memory) button, Scan Play button
13. Auto Tune Up, Seek Up button
14. Auto Tune Down, Track Down button
15. USB Connector
16. AUX IN Jack
17. MIC Hole

Operating Instructions

1-1. Power On/Off button

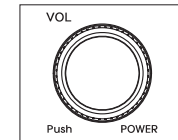
Press Power button (1) to turn the unit on or off.

1-2. Volume Up/Down Control knob

Turn VOL knob (1) right to increase the volume level;

Turn VOL knob (1) left to decrease the volume.

After 5 seconds the display will return to the previous display mode.



1-3. System Setting

Press and hold the VOL knob (1) for longer than 2 seconds to enter system settings.

Then each time you press the knob, LCD displays as below:

I-VOL --> CLOCK --> CONTRAST --> AREA --> DEL DEVICE

Note: If there is no operation within 5s, it will auto memory the last displayed setting.

1.3.1 Initial Volume Level Set Up

I-VOL is the volume level the unit will play at when next turned on. To adjust I-VOL level, press and hold VOL button (1) for longer than 2 seconds. The current I-VOL level will show on the display panel. Then turn button (1) right or left to adjust the I-VOL level.

1.3.2 CLOCK ON/OFF Control, CLOCK Adjustment

The CLOCK was default at off status. To turn CLOCK ON, short press VOL again while it displaying I-VOL, it will show CLOCK OFF on the display panel, then turn VOL knob to display CLOCK ON. With CLOCK ON selected, it will show the CLOCK on the display panel after unit powered off.

With CLOCK ON selected, press VOL knob again, it will display the clock with the Hour blinking, turn VOL knob right or left to adjust hour. Simply press VOL again and turn the knob to adjust minute.

Note: Clock can only be adjusted after CLOCK ON selected.

Due to time tolerance, the clock display on the Audio Unit might have little difference.

1.3.3 CONTRAST Adjustment

Turn VOL knob while CONTRAST displays to adjust the contrast of the LCD display.

1.3.4 AREA Selection (Wrong AREA Selection may cause Poor Radio reception)

To select a Area, repeat short press VOL until AREA display, then turn the knob right or left to select area among USA, EUROPE, ASIA, LATIN, JAPAN.

1.3.5 Delete Bluetooth Device

With more than one Bluetooth Device paired, you can delete the paired device on unit. The DEL DEVICE menu will only display when it has Bluetooth connection established. Long press VOL knob then repeat short press it until DEL DEVICE displays, turn the knob so select DEL DEVICE YES and push the knob. It will display the paired list by turning VOL knob, press the knob again at desired device name to delete it.

Operating Instructions

2. Menu Selection

This button can adjust the sound effect and other things. Each time you press the SEL button (2), LCD displays as follows:

→ BASS → TREB → BAL L=R → EQ OFF → LOUD OFF → BEEP 2ND

At each setting, the level can be adjusted by turning TUNE knob (2). When the last adjustment is made, it will auto return to previous display after 5 seconds.

2-1. Bass Control

To adjust the bass tone level, press SEL knob to display BASS, then turn the knob (2) right or left within 5 seconds to adjust the bass level as desired. The bass level will be shown on the display panel from a minimum of BASS -7 to a maximum of BASS+7.

2-2. Treble Control

To adjust the treble tone level, first select the treble mode by pressing SEL button (2) repeatedly, then turn the knob (2) right or left within 5 seconds to adjust the treble level as desired. The treble level will be shown on the display panel from a minimum of TREB -7 to a maximum of TREB +7.

2-3. Balance Control

To adjust the left-right speaker balance, first select the Balance mode by pressing SEL button (2) repeatedly. Then turn knob (2) right or left within 5 seconds to adjust the balance as desired. The balance position will be shown on the display panel from BAL 10R (full right) to BAL 10L (full left).

2-4. EQ Control

Press SEL button (2) until EQ is displayed, then turn the knob (2) right or left to select desired equalizer among CLASSIC, POP, ROCK, and JAZZ.

Note: When the EQ mode is activated, the BASS and TREBLE modes are not displayed.

2-5. Loud Control

When listening to music at low volume levels, this feature will boost the bass and treble response. To select the loudness feature, press SEL button (2) until LOUD is displayed, then turn knob (2) right or left to select LOUD ON or OFF.

2-6. Beep Control

To adjust the BEEP mode, first select the BEEP mode by pressing button (2) repeatedly until BEEP indication appears on the display panel. Then turn knob (2) left or right within 5 seconds to select BEEP 2ND, BEEP OFF or BEEP ON.

3. MUTE Control

Press and hold MUTE button (3) for over 2s to mute sound output and MUTE ON will display on the LCD. Press the button again to cancel MUTE function and resume to normal playing mode.

4. MODE Selection

Repeat press MODE button (3) to switch between FM1, FM2, AM, FRONT USB, REAR USB, AUX, BLUETOOTH.

Note: If there is no USB, AUX, Bluetooth Phone connected, it would not display corresponding mode when MODE button (3) pressed.

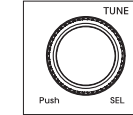
Radio Section Operation

1. MODE button

Repeat press MODE button to select FM1, FM2 or AM.

2. Manual Tuning button

To manually tune to a radio station, simply turn encoder volume (2) left or right to increase or decrease the radio frequency.



3. Auto Tuning button

To automatically select a radio station, simply press Seek Up or Track Down button.



4. Station Preset buttons

In radio mode, pressing buttons (6) to (11) will recall the radio stations that are memorized. To store desired stations into any of the 6 preset memories, in either the AM or FM bands, use the following procedure:

Preset Buttons	1 DIS	2	3 RPT	4 RDM	5 DIR-	6 DIR+
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a. Select the desired station.

b. Press and hold one of the preset buttons for more than 2 seconds to store the current station into preset memory. Six stations can be memorized on each of FM1, FM2, and AM.

5. Presets Scan (PS) and Best Station Memory (BSM) button

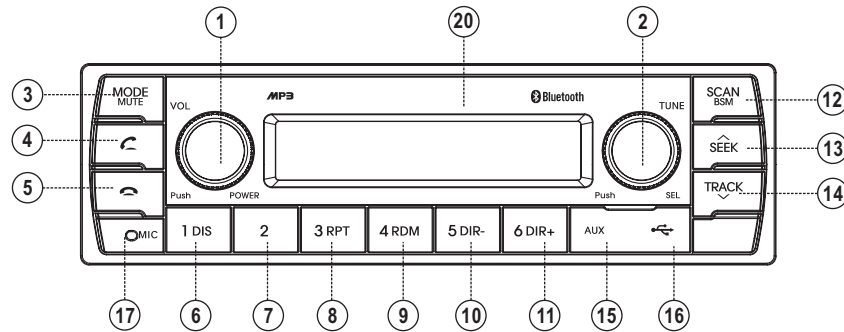
Press BSM button (12) momentarily to scan the 6 preset stations stored in the selected band. When you hear your desired station, press it again to listen to it.

Press BSM button (12) for longer than 2 seconds to activate the Best Station Memory feature which will automatically scan and enter each station into memory.

Note: If you have already set the preset memories to your favorite stations, activating the BSM tuning feature will erase those stations and enter into the new ones. This BSM feature is most useful when travelling in a new area where you are not familiar with the local stations.



USB Operation



1. USB Playback

The unit was equipped with a Front USB jack and also a Rear USB Jack. With a USB device plugged in the Front USB jack, it will be detected as FRONT USB mode. And with a USB device plugged in the Rear USB jack, it will be detected as REAR USB. To get to a USB mode, press MODE (3) button momentarily or insert the USB device in Front or Rear USB jack.

Note: - If no mp3 or wma files in USB device, it will convert to the previous mode after display NO FILE.
- Only the Front USB jack support UaRT connection. It's allowed to connect your Apple portable media player in Front AUX and USB jack, then you could operate the Track Up/Down, Track Repeat and Random play on the unit.

2. USB Information and Notice

1) Playback FILE SYSTEM and Condition allowance.

- FAT, FAT12, FAT16 and FAT32 in the file system.
- V1.1, V2.2 and V2.3 in the TAG (ID3) Version.

2) Display up to 32 characters in the LCD display.

3) No support any of MULTI-CAED Reader.

4) No High Speed playback but only playing with normal full speed.

Note: - DRM files in the USB may cause malfunction to playback in the radio unit.
- The temperature below -10 Celsius, the Audio Unit with USB hook up would be affected to play well.

3. Track Up & Down button

Press SEEK UP (13) or TRACK DOWN (14) to select the next or previous track. Press and hold the buttons to advance the track rapidly in the forward or backward direction.

4. MP3 Directory / File Searching

Button (2) is used to select a particular directory and file in the device. Turn button (2) right or left to display the available directories. Press button (2) momentarily when the desired directory is displayed, then turn button (2) right or left again to display the tracks in that directory. Press button (2) to begin playback when the desired file is displayed.

USB Operation

5. Directory Up & Down button

During MP3/WMA playback, simply press DIR- button (10) to select the previous directory (if available in the device); simply press DIR+ button (11) to select the next directory (if available in the device).

Note:

- If the USB device does not contain directories, it would play MP3/WMA tracks at 10- file when you press DIR- button (10), and play MP3/WMA tracks at 10+ file when you press DIR+ (11) button.

6. Track Scan Play (SCAN) button

- SCAN playback: simply press SCAN (12) button to play the first 10s of each track.
- SCAN Folder: press and hold SCAN button for longer than 2s to scan play the tracks in current folder.
- SCAN off: simply press it again to cancel SCAN feature.

7. Track Repeat Play (RPT) button

- REPEAT playback: simply press RPT (8) button to play current track repeatedly.
- REPEAT Folder: press and hold RPT for longer than 2s to repeat play the tracks in current folder.
- REPEAT off: simply press it again to cancel REPEAT feature.

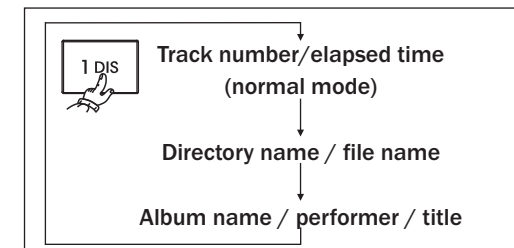
8. Track Random Play (RDM) button

- RANDOM playback: simply press RDM (9) button to play the tracks in the device in a random sequence.
- RANDOM Folder: press and hold RDM button for longer than 2s to random play the tracks in current folder.
- RANDOM off: simply press it again to cancel RANDOM feature.

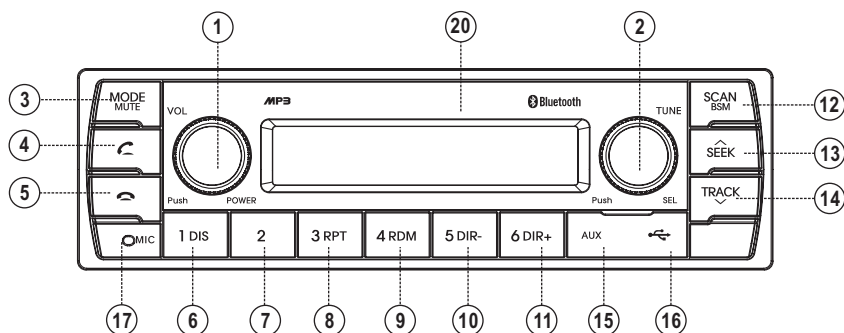
9. ID3 v2 (DISP)

While playing a MP3 file, press DISP button (6) to display ID3 information. Each time you push DISP button (6), the display changes to show the information as shown at right.

Note: If the MP3 disc does not have any ID3 information, the display will show NO ID3.



AUX Input



It is possible to connect your portable media player to the car audio system for playback of the audio tracks via the car speakers.

To get the best results when connecting the portable media to the car audio system, follow these steps:

- Use a 3.5mm stereo plug cable to connect the media player headphone socket at each end as follows.
- Adjust the portable media player to approximately $\frac{3}{4}$ volume and start playback.
- Press the MODE button (3) on the car audio unit to change into AUX mode.
- The volume and tone can now be adjusted on the Audio Unit to the desired level.

Note:

- The audio quality of your media player and the audio tracks on it may not be of the same sound quality as the car audio system is CD Player.
- If the sound of the media player is too low compared with the radio or CD, increase the volume of the player.
- If the sound of the media player is too loud and/or distorted, decrease the volume of the player.
- When in AUX mode, only the Volume, Bass, Treble, EQ and Mode functions of the car audio unit can be used.
- For technical information regarding the AUX input, refer to the specification section at the end of this operation manual.

Bluetooth Operation

1. Using a Bluetooth wireless connection

- 1) Your Audio Unit supports Bluetooth wireless technology. You can set up a wireless link with Bluetooth cellular phone.
- 2) Keep PAIRING the cellular phone with Audio Unit in a few minutes as the phone are being switched on well enough.

Note:

- Since this Audio Unit is on standby to connect with your cellular phone via Bluetooth wireless technology, using this Audio Unit without running the engine can result battery drainage.
- This Audio Units phone call reception is on standby when ignition switch is set to ACC OFF or ON.
- The line-of-sight distance between this Audio Unit and your cellular phone must be 10 meters or less for sending and receiving voice and data via Bluetooth wireless technology. However the transmission distance may become shorter than the estimated distance depending on the environment in use.
- Digital Noise & Echo suppression system provides the best sound clarity with little or no distortion (Echo & side tone will happen depending on Cellular Phone or service network).
- To ensure the quality of calling, you should select a proper Bluetooth VR Level. This Audio Unit have already set with the best Bluetooth VR Level.

2. Pairing Your Audio Unit and Bluetooth Phone

This Audio Unit supports Hand Free profile, Headset profile, A2DP (Audio Advanced Distribution profile) and AVRCP (Audio Video Remote Control profile).

3. Pairing in Hands Free modes

- 1) Press and Hold CALL button (4) for 2 seconds until you hear beep sound, then appears PAIRING on the display.
- 2) For the next procedure, go to 4. Cellular Phone Pairing Mode.
- 3) If it is in pairing status with Audio Unit and Cellular Phone, PAIRING will show on the display.
- 4) If you want to exit pairing mode, press CALL END button (5) briefly while pairing, then it will show PAIR NG on the display.
- 5) Bluetooth Icon and CONNECT appear on the display when pairing is successful.



Bluetooth Operation

4. Cellular Phone Pairing mode

- 1) Browse your Cellular Phone menu and find the connectivity or Bluetooth connection section.
- 2) Select search for a new Handsfree device function and allow the phone to find the mobile.
- 3) HYUNDAI should appear on your Cellular Phone screen.
- 4) Press connect menu among the Handsfree option on your cellular phone.
- 5) The Cellular Phone should prompt for a pin code. Insert the pin code 1234.
- 6) The Cellular Phone should confirm that it has established a new paired connection.
- 7) Close the menu. The Pairing is now completed. It appears Bluetooth Icon and CONNECT on the display.
- 8) If the pairing failed, it appears PAIR NG on the display for 3 seconds.

Note:

- Each cellular phone type has distinct phone menu so you may need to refer to your manufactures instruction for the correct procedure on how to connect a new Bluetooth device.
- Please retry to the pairing instruction if HYUNDAI does not appear on the cellular phone screen.
- Please select authorized, if there is authorized menu in the menu of Bluetooth connection in your cellular phone.
- Once the Bluetooth pairing is completed between your cellular pone and this Audio Unit, the both Units will be automatically recognized on its paring and when you turn on the key in your car even though this Audio Unit is turned off.
- This Audio Unit can store up to 6 phones pairings. If the memory is full, the first stored paired phone will be deleted.
- The connecting priority will be given to the last connected Cellular Phone.
- If you want to change the connecting priority, try to connect this Audio Unit from the Cellular Phone.

5. Bluetooth connection and disconnection

- 1) When established Bluetooth connection between this Audio Unit and the Cellular Phone, it shows Bluetooth icon on the display panel, and shows CONNECT HF/AV when handsfree & AV profile connected.
- 2) To disconnect Bluetooth Link
Press and hold CALL END button (4) for 2 seconds, it shows DIS CON and disappears Bluetooth Icon on the display.
- 3) To connect Bluetooth Link
Press CALL button (3) briefly, it blinks Bluetooth Icon on the display while Bluetooth is being connected. If the connection is completed, it appears Bluetooth Icon on the display.



Bluetooth Operation

Note:

- When your Cellular Phone battery is at low charge, the Bluetooth connection may occasionally be lost. To maintain good connectivity ensure that your Phone battery is adequately charged.
- In case of failure of Bluetooth pairing:
 - * Delete item in paired list on your phone.
 - * Reset both phone by power off/on and the Audio Unit by ACC off/on.
- Connecting priority of Handsfree profile is higher than headset profile.
- The Headset mode does not support Caller ID, Reject call and Call Transfer.

6. Using the Audio Unit as a Handsfree Device

- 1) When the Audio Unit is ringing, it shows CALL FROM and follows with the Phone number on the display.
- 2) To accept call
Press CALL button (4), it appears TALKING on the display.
- 3) To end call
To end call, press CALL END button (5), it appears CALL OFF on the display.
- 4) To reject call
To reject call, press button (5) when ringing, it appears CALL OFF on the display.

Note:

- If Reject call is activated in your phone, then your Cellular Phone does not support Reject Call function.

7. Audio Transfer Between the Audio Unit and Phone

The audio transfer function is for switching the call from the Audio Unit to the Cellular Phone for private conversation.

- 1) Press CALL button (4) briefly during conversation, it appears a Phone icon on the display. To switch back to the Audio Unit, press button (4) briefly during private conversation, then it disappears the Phone icon on the display.

Note:

- This function might cause Bluetooth link disconnection in some phones, but do not worry, just press button (4) during private conversation, then switch back to the Audio Unit automatically.
- The quality of calling between Cellular Phone and Audio Unit is better than calling between one Audio Unit and another one.





Bluetooth Operation

8. Last Call number dialing

Press CALL button (4) briefly, it appears REDIAL first, then display CALLING and follow with phone number.

Note:

- For some phones, you may need to press once more CALL button to make the last call. First press shows the phone contact list in your phone, then second press make the last call.

9. To Make a Call by Cellular Phone

- 1) When you make a call processing by Cellular Phone, it shows CALLING on the display and follows with phone number.
- 2) When you receive a call, it shows CALL FROM and follows with phone number on the display.

10. Using the Audio Unit as Bluetooth Music

The Audio Unit supports A2DP (Audio Advanced Distribution Profile) and AVRCP (Audio Video Remote Control Profile), and both profiles are available to listen music at the Audio Unit via cellular phone which is supporting the two profiles above.

- 1) It will auto begin to play the music once you select BLUETOOTH mode by pressing MODE button.

For some phones, to play BT Music, you may need to set on your Cellular Phone first before you can select Bluetooth mode.

i.e: Menu → File manager → Music → Option → Play via Bluetooth.

- 2) During BT MUSIC playing, you could select the previous or next track by pressing SEEK UP or SEEK DN button on Audio Unit or operate via your Cellular Phone.
- 3) During BT MUSIC playing, you could pause music playback by pressing CALL END button, and press it again to resume music playing.

Note:

- This function maybe different depends on cellular phone. Please follow the cellular phone menu. Some kinds of phone need to pair once more for Bluetooth MP3 connection.
- This function will be cause to disconnect A2DP, AVRCP depends on cellular phone.
- Information about songs (e.g: the elapsed playing time, song title, song index, etc.) cannot be displayed on this Audio Unit.



Reset and Precautions

1. Reset function

Interfere noise or abnormal compressed files in the MP3 disc or USB instrument may cause extraordinary operation (or unit frozen/locking up). It's strongly recommended to use appropriate USB Storage not cause any malfunction to the audio unit. In the unlikely event that the player fails to operate correctly, try out to Reset unit by any of following two methods.

- I. Press and hold  simultaneously for about 5 seconds.

- II. Take out the Fuse for the Audio System in the vehicle once and then plug again.

Note: It will be necessary to re-enter the radio preset memories as these will have been erased when the microprocessor was reset. After resetting the player, ensure all functions are operation correctly.

2. Precautions

When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.





Specifications

Operation Voltage	9~32 volts DC, negative
Input Current	10A
Output Power	40 watts maximum (20 watts x 2 channels)
Output Impedance	compatible with 4 ~8 ohm speakers
Tuning Range	AM: 531 ~ 1,602 KHz. (9KHz step) FM: 87.5 ~108 MHz. (100KHz step)
Sensitivity	AM: 33 dBu FM: 6 dBu
FM Stereo Separation	30 dB
USB Frequency Response	20 ~20,000 Hz
USB S/N Ratio	63 dB
USB Channel Separation	50 dB
AUX Input Sensitivity	2V (VOLUME STEP 20) 400 and 800mV@10K ohm
Bluetooth	Version 5.0
- Output Power	+4 dBm Max
- Profile	Advanced Audio Distribution Profile Audio/Video Remote Control Profile Hands-Free Profile Headset Profile

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 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 not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

RF warning for Mobile device

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 your body

