Precautions & Warnings

• To reduce the risk of fire, electric shock, and interference, do not attempt to repair this unit yourself. Refer all service to a qualified technician.
• Some MP3/WMA files may not be playable.
• Keep the volume at a reasonable level to avoid distracted driving. High volume levels may make it difficult to concentrate on traffic and road conditions while driving.
• If the car has been in direct sunlight for an extended period, you may need to reduce the temperature inside the car before turning on and using the unit.
• If the battery is disconnected, discharged, or changed, the preset memory of the unit will be lost and require reprogramming.
• The unit is designed to be installed in a level, horizontal position. For optimal performance, avoid installing the unit at an angle.
• Never use excessive force when removing or attaching the faceplate. Do not tightly grip the display and buttons to avoid damage.

Lithium Battery Cell Warnings

• Cell leakage may cause damage to the remote control.
• Do not throw cells into as this may cause an explosion.
• Keep battery cells out of reach of children.

Drives and connections

Never place any foreign objects into the openings of the car radio (USB jack, card slot, AUX IN connection). Otherwise you might damage the slots and connections.

Others Warnings

Do not switch on the car radio for long periods of time when the motor is switched off. This could cause the car battery to discharge and the vehicle can no longer be started.
Installation Opening
This unit can be installed in any dashboard having an opening as shown in the right figure.

If installation angle exceeds 30 horizontal, the unit may not perform properly.

To Install the Car Radio

1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery’s negative (-) terminal. You never want electricity running while you install this double-DIN car receiver.
2. Attach the “L” brackets (2pcs) on the both sides of the car receiver with screws (M5 x 8BM) as shown in the below figure. The others fixing screws that fix the other terminal of the “L” metal bracket, please buy from your dealer according to the drilling of holes size.
3. Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
4. Install the car receiver in the dashboard.
5. Connect the wire harness & the antenna to the car receiver (see “Electrical Connections”) being careful not to pinch any wires or cables.
6. Install the detachable faceplate & plastic outer trim ring onto the car receiver.
7. Reconnect the battery and run through all of the options on this car receiver to ensure that everything is working correctly.
8. Particulars will vary widely depending upon the kind of your car and the car you intend to install it in. Please choose the correct installation method according to the actual situation of your car. Always contact the car dealer or manufacturer if you have any questions.
Electrical Connections

- Only use speakers with 4 ohm impedance.
- The maximum current of the Amp Remote trigger is 200mA.

WIRING DIAGRAM

1. Radio antenna socket
2. Front left PRE-AMP output (White)
3. Front right PRE-AMP output (Red)
4. Rear right PRE-AMP output (Red)
5. Rear left PRE-AMP output (White)
6. ISO Socket:
   8PIN connector
7. ISO Socket:
   4PIN connector
1. (power)/Volume knob and SEL (select/menu) button
2. SRC (source) button
3. BAND (band) button, 🔄 (answer call) button
4. AMS (automatic store / preset station scan, automatic music search) button
5. ⏯️ (pause/play), Preset station 1 button
6. INT (intro), Preset station 2 button
7. RPT (repeat), Preset station 3 button
8. RDM (random), Preset station 4 button
9. -10 (previous 10 tracks), FLR- (previous folder), Preset station 5 button
10. +10 (next 10 tracks), FLR+ (next folder), Preset station 6 button
11. CLOCK (clock setting) button, ⏯️ (end call) button
12. ⬅️ (tune down, seek down, previous, fast reverse) button
13. ⬆️ (tune up, seek up, next track, fast forward) button
14. MUTE button
15. LOUD (loudness) button
16. EQ (Equalizer)
17. IR remote sensor
18. LCD Display
19. USB Port & Micro SD card slot
20. AUX IN (auxiliary input) jack
21. Hands-free Microphone
22. Reset button
GENERAL OPERATION

Turn Unit On/Off
• Press any button on the front panel or on the remote control to turn on the unit.
• Press and hold the power (VOL knob) button on the front panel or briefly press the power (Φ) button on the remote control to turn the unit on or off.

Adjust Volume (VOL)
Rotate the VOL knob on the front panel or press the VOL+ ▲ / VOL- ▼ button on the remote control to increase or decrease the volume level.

Adjust Menu Options (SEL)
• Press the SEL button on the front panel or on the remote control repeatedly to cycle through the following adjustable audio functions: BASS, TREBLE, BALANCE, FADER, EQ OFF/CLASS/ROCK/POP/FLAT, LOUD ON/OFF, DX/LOC, STEREO/MONO, CLOCK 12/24, AREA US/EU, AUTO/BLUE/RED/CYAN/GREEN/PURPLE/YELLOW/WHITE.

• Rotate the VOL knob on the front panel or press the VOL+ ▲ / VOL- ▼ button on the remote control to adjust the selected item.
  - BASS/TREBLE: -7, -6, ~, 1, 0, +1, ~, +6, +7
  - BALANCE: L7, L6, ~, L1, 0, R1, ~, R6, R7
  - FADER: R7, R6, ~, R1, 0, F1, ~, F6, F7
  - EQ(Equalizer) Setting: OFF, CLASS, ROCK, POP, FLAT
  - Loudness: LOUD ON/OFF
  - DX/LOCAL: Enables or disables the local broadcast mode (LOCAL).
  - Stereo/Mono: Switches between MONO and STEREO reception mode for radio frequencies.
  - CLOCK 12/24: Select between 12 hours and 24 hours display.
    Note: If 12 hour display is selected, AM= Morning; PM= Afternoon
  - AREA US/EU: This car radio is equipped the USA / Europe frequency.
    Rotate the volume knob to switch between USA and Europe frequency.
    The system will change the frequency setting in about 3 seconds.
  - 7 color-changing illumination in buttons:
    This car radio device is equipped 7 color-changing illumination in buttons.
    The illumination color can be preset Auto(color automatically change one by one), Blue, Red, Cyan, Green, Purple, Yellow, White.

Set the Clock (CLK)
1. To display clock time, press the CLK button.
2. To set clock time, press and hold the CLK button and the hour will flash.
3. Press the ◀ or ▶ button on the front panel or on the remote control to adjust the hour.
4. Press the CLK button and the minutes will flash.
5. Press the ◀ or ▶ button on the front panel or on the remote control to adjust the minute.
GENERAL OPERATION (CONT.)

Change the Source (SRC)
Press the SRC button to switch between RADIO, BT(Bluetooth), USB(with USB device inserted), SD(with SD card inserted) and AUX-IN(auxiliary input) modes.

Mute on/off
In power on mode, briefly press the MUTE button to toggle mute on or off. The muted state will be also released when the volume knob is used.

Loudness on/off
Press the LOUD button to turn on the loudness to reinforce the output of bass frequencies, press again to turn it off.

Preset EQ (Equalizer)
Press the EQ button to toggle between EQ OFF, CLASS, ROCK, POP, FLAT.

USB port
The USB port of this car radio is designed for media playback from flash memory devices and charging for iPhone / andriod mobile phone. The charging current consumption is 1 ampere.

Micro-SD card slot
This Micro-SD card slot is designed for media playback from Micro-SD card.

Hands-free Microphone
To receive your voice when you calling by using this bluetooth handsfree system.

Aux input connector
The 3.5mm auxiliary input stereo connection is designed for deiveces with 3.5mm line-out or headphone output.

Reset System (Reset)
The RESET button is used to reset all parameters to factory default settings. This function may be used when the LCD does not display normally or sound is distorted, or when any of controls are disabled. To reset your system, use a thin object with a pointed end to depress the RESET button.
RADIO OPERATION

Switch Between USA area and Europe area Frequency
In radio mode, press the VOL button to enter the switch state of the US(USA) and EU(europe) frequency, then rotate it to switch between US(USA) and EU(europe) frequency. The system will change the frequency setting in about 3 seconds.

Change Bands (BAND)
Press the BAND button to switch between the FM1, FM2, FM3, AM1 and AM2 bands. Each band stores up to six preset stations.

Manual Tuning ( ‹‹ / ›› )
Press and hold the ‹‹ or ›› button on the front panel or on the remote control to enter manual tuning mode. In manual tuning mode, press the ‹‹ or ›› button to move the radio frequency number up or down one step.

Auto Seek Tuning ( ‹‹ / ›› )
In standby mode or while not in manual tuning mode, quickly press the ‹‹ or ›› button to move to the next/previous available station automatically.

To Store / Recall Preset Stations
The radio can be stored 6 preset stations for each band (FM1, FM2, FM3, AM1 and AM2) for a total of 30 preset stations.

To memorize a station:
- Turn the radio on and select the desired band and station.
- Select a station by ‹‹ or ›› button.
- Press and hold the desired preset button (numbered 1-6 on the face of the radio) for more than 2 seconds to save the station to that preset number.

To recall a preset station:
- Select the desired band.
- Briefly press a preset button (numbered 1-6) to recall the corresponding preset station.

Automatic Store station/ Preset station scan (AMS)
Press and hold the AMS button for more than 2 seconds to select six strong stations and store them in the current band. The radio will automatically scan the current frequency and enter the six strongest stations into the preset memory positions for that band. Briefly press the AMS button on the front panel or on the remote control to recall each preset station that saved in the memories in each band.

LOCAL/DX
In urban areas, most stations are strong enough and “LOCAL ON” mode should be selected. Switch to LOCAL OFF mode to search for stations with weaker signals. Press the LOC button on the remote control to choose local or distant reception mode.

STEREO/MONO
FM station is received in stereo mode. However, if the signal is weak or reception is not as good as you would like, switching to MONO mode usually improves the overall sound quality. Press the ST button on the remote control to choose FM STEREO or MONO audio effect.
**USB / SD CARD OPERATION**

**To insert USB / SD CARD**
- To play files in a USB device, open the USB port & micro SD card slot cover, then insert a USB storage device into the USB port. Playback will begin automatically.

- To play files in an micro SD card, open the USB port & micro SD card slot cover, then insert an micro SD card into the micro SD slot. Playback will begin automatically.

**Eject USB/SD**
- To eject a USB device, press the button to stop playback, then remove the USB device.
- To eject an micro SD card, press the button to stop playback, and open the USB & micro SD card slot cover, then remove the micro SD card.

**Play/Pause**
Press the (play/pause) button to pause or resume playback.

**Next/Previous Track**
- To play the next track, press the button.
- To play the previous track, press the button.

**Fast Forward/Backward**
- To fast forward, press and hold the button.
- To fast backward, press and hold the button.

**Introduction Scan**
Press the INT button to play the first 10 seconds of each track, press again to stop the introduction scan, and play the current track.

**Repeating the track**
Press the RPT button to toggle between RPT ALL (Play all track), RPT FLR (Continuously repeats all tracks in current folder) and RPT ONE (Continuously repeats current track).

**Playing all tracks in random**
Press the RDM button to play all tracks in random order, press again to cancel this function.

**Track/Folder Navigation**
- During USB or SD card mode, press the 5/-10 button to go backward 10 tracks.
- Press the 6/+10 button to jump forward 10 tracks.
- During USB or SD card mode, press and hold the 5/-10/FRL- button to go back the previous folder. Press and hold the 6/+10/FLR+ button to go to the next folder.
- You can repeat this function depending on the number and level of folders.
- These buttons have no this function if the USB device or SD card has no folders.

**Select the track or file for playback in MP3 format**

a) Press the AMS button to enter track search mode. The “TRK0000” will appear on the display.

b) Turn the volume control to select the “first number”. Then press the button to move the “first number” to the left and enter the next number.

c) When the desired track number appears, confirm your selection by pressing SEL button.
This car radio is equipped an external auxiliary input jack (3.5mm) on the front panel, it is compatible with audio output from an MP3 music player.

If you have plugged such a player into the AUX IN jack with a audio cable. Press the SRC button to switch to the AUX input mode, then you can listen to music from external devices.
BLUETOOTH OPERATION

Pair and Connect
Prior to using the Bluetooth device as a handsfree system for a Bluetooth-enabled mobile phone for the first time, you must pair and connect the two devices as follows:
1. In any mode, prior to pairing and connecting, the BT logo in the LCD indicating that no device is connected. To begin pairing, enable BT mode on your mobile phone.
2. When the phone finds the car audio system, the “PLANET PB455RGB” will be displayed.
3. Choose the “PLANET PB455RGB” from the device list to pair and connect with the car audio system. Upon confirming, the BT logo will stop flashing.
4. When pairing is complete, the mobile phone audio will automatically transfer to the car audio system whenever a call is made or received, or when the mobile phone plays music.

Make a Call
- To make a call, dial the call directly from the paired mobile phone.
- To make a call with this bluetooth handsfree system:
  a) When linking up the Bluetooth-enabled mobile phone to this bluetooth handsfree system, press the \( \text{button} \) to access the dial telephone number mode, then press the “0~9”, *, and # button on remote control to input the telephone number, and the entered number will be shown on the LCD display.
  b) If a number has been incorrectly inputted, press the DEL button or \( \text{button} \) to delete it.
  c) Press the \( \text{button} \) to make outgoing call.

Redial Last Dialed Number
Press and hold the \( \text{button} \) on the control panel to redial the last dialed phone number.

Answer a Call
- When the mobile phone is called, the incoming telephone number displays on the LCD.
- To receive the call, press the \( \text{button} \) on the control panel.

Reject a Call
To reject the call, press the \( \text{button} \) on the control panel.

End a Call
To end an active call, press the \( \text{button} \).

Switch Audio Between Car Audio and mobile Phone
During a call, press the VOL knob/button to switch the audio source from the car audio system back to your mobile phone.

Adjust Call Volume
- During a call, use VOL knob or VOL+ \( \text{button} \) to adjust the call volume level.
- Use the MUTE button to mute sound.

Audio Streaming (A2DP)
The unit supports A2DP (advanced audio distribution profile) wireless streaming audio from your Bluetooth mobile device directly to your head unit. You can also control your music from the front panel of the head unit using AVRCP (audio video remote control profile).

1. After pairing, connecting and enabling streaming audio from a compatible mobile device, press the SRC button to enter BT mode and display pause in the LCD display.
2. When a mobile device is paired, music played through that device will automatically be heard through the car audio system and display A2DP in the LCD display.
3. Press the \( \text{or} \) button to play the next or previous on the mobile phone.
4. Press the \( \text{button} \) to pause or resume music playback.
REMOVE CONTROL

Remove Insulating Sheet
The remote control comes with an insulating sheet attached to the underside of the remote control, as illustrated on the right. The remote control will not work until the insulating sheet is removed.

Replace Lithium Battery Cell
1. When the lithium cell battery becomes weak, replace it as illustrated on the right.
2. Press and hold the movable block in the direction indicated by arrow 1. At the same time, pull the cell holder out of the remote control in the direction indicated by arrow 2.
3. Replace the old cell with a new one, making sure the (+) polarity is facing upward.
4. Re-insert the cell holder into the remote control.

- Cell leakage may cause damage to the remote control.
- Do not throw cells into an this may cause an explosion.
- Keep battery cells out of reach of children.

Remote Control Operation
Position the emitting window of the remote control toward the sensor window of the unit.
- The operation angle for front panel remote control reception is about 30 degrees.
- The distance between the emitting window of the remote control and the sensor window of the unit should remain less 5 meters.

Button Names and Locations
1. Power on/off button
2. VOL+/VOL-(volume increase/decrease) button
3. Band button, (anser call) button
4. PREV: tune down, seek down; Track down, fast reverse
5. SEL (selection) button
6. NEXT: tune up, seek up; Track up, fast forward
7. Mute button, DELETE button
8. CLK (clock setting) button, (end call) button
9. button, preset station 1 button, keypad 1
10. INT (intro) button, preset station 2 button, keypad 2
11. RPT (repeat) button, preset station 3 button, keypad 3
12. RDM (random), preset station 4 button, keypad 4
13. -10 (previous 10 tracks), preset station 5 button, keypad 5
14. +10 (next 10 tracks), preset station 6 button, keypad 6
15. ST (stereo) button, keypad 7
16. LOUD (loudness) button, keypad 8
17. AMS (automatic music search) button, keypad 9
18. SRC (Source) button, keypad *
19. EQ (Equalizer) button, keypad 0
20. LOC (local)/DX button, keypad #

Note: When using the remote control for the first time, you must pull out the protective plastic tab from the battery compartment found on the back of the remote control.
### General
- **Chassis Dimensions**: 178(W) x 125(D) x 100(H) mm
- **Power Supply Requirement**: DC 12V
- **Current Consumption**: 15A (max.)
- **Maximum Power Output**: 60W x 4CH

### Radio
- **FM**
  - **USA/ Europe Frequency Range**: 87.5 - 107.9 MHz (200KHz/Step)
  - **Usable Sensitivity**: 30 dBu
  - **I.F. Frequency**: 10.7 MHz
- **AM**
  - **USA/ Europe Frequency Range**: 530 - 1710KHz (10KHz/Step)
  - **Usable Sensitivity**: 20 dBu
  - **I.F. Frequency**: 450 KHz
- **USB/Card**
  - **Usable Audio Formats**: MP3/WMA
  - **USB Port Type**: 2.0
  - **USB Charging**: 5V/1A
  - **Card Type**: MicroSD™
  - **Pre-amp Output**: Front and Rear
  - **Frequency Response**: 20 Hz - 20 KHz
  - **S/N Ratio**: 60dB
- **BT**
  - **BT Profile supports**: A2DP, AVRCP, HFP
  - **Range of frequency**: 2.4GHz spectrum
TROUBLESHOOTING

If you suspect something is wrong, immediately switch power off. Do not use the unit in abnormal condition, for example without sound, or with smoke or foul smell, can cause fire or electric shock. Immediately stop using it and call the store where you purchased it. Never try to repair the unit by yourself because it is dangerous to do so.

■ General

1) Car's engine switch is not on.
   Turn your car's key to ACC or ON.

2) Cable is not correctly connected.
   Check the connection.

3) Fuse is burnt.
   Replace fuse.

4) Volume is in mute or minimum.
   Check volume or mute on/off, adjust volume to a desired level.

5) Sound skips.
   The installation angle is more than 30°. Adjust the installation angle less than 30°.

6) The operation keys do not work.
   The built-in micro-computer is not operating properly due to noise. Press the RESET button to restore the program to zero.

■ Radio

1) Much noise in broadcasts.
   Station or signal is too weak. Select other stations of stronger signal level.

2) The antenna cable is not connected.
   Insert the antenna cable firmly into the antenna socket of this car radio.

3) Preset station is reset.
   Battery cable is not correctly connected. Connect the battery cable to the terminal that is always live.

■ USB/SD

USB or SD card is connecting but no sound
a) USB or SD card connection is not good. Take it out and insert again.
b) USB or SD card is damaged or no music file inside. Change to another USB or SD card, or record music inside it.