FLYAUDIO®

Car Audio/Video Entertainment Navigation System

FlyAudio Mainframe User's Manual

DVD VIDEO | VIDEO CD | disc COMPACT DIGITAL AUDIO | MP3 COMPACT DIGITAL AUDIO | AM/FM | GPS | GPS Audio System | USB | SD CARD READER | Made for iPod | TV | TPMS | Bluetooth | Backside Camera | security

※Build in for all the operational interface. ★Hardware modules need to be purchased.

| Table of Contents

▲ **MAIN MENU**

◘ **DVD :** Enter the DVD and USB function interface.
◘ **CDC :** Enter the DVD Disc Changer Function interface.
◘ **Radio :** Enter the Radio Function interface.
◘ **iPod :** Enter the iPod Function interface.
◘ **TV :** If FlyAudio digital TV set is connected, you can enter the Digital TV.
◘ **GPS :** Enter the GPS Function interface. Operate GPS through the touch screen.
◘ **B.LCD :** Enter the Back Headrest Display Image Changer interface.
◘ **BT :** If Bluetooth is connected, you can enter the Bluetooth Function interface.
◘ **SETUP :** Enter Other Function interface.
◘ **INFO :** If TPMS is connected, you can enter the TPMS Monitoring interface.
◘ **BLUE :** Select the color "blue" to have a blue operational interface on the next startup.
◘ **ORANGE :** Select the color "orange" to have an orange operational interface on the next startup.
◘ **DAY/NIGHT :** Can manually adjust the brightness of the monitor and the left right buttons.
◘ **DARK :** Dim screen light.
◘ **MIDDLE :** Middle screen light.
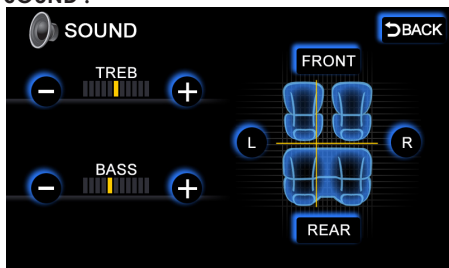◘ **BRIGHT :** Bright screen light.

Whatever
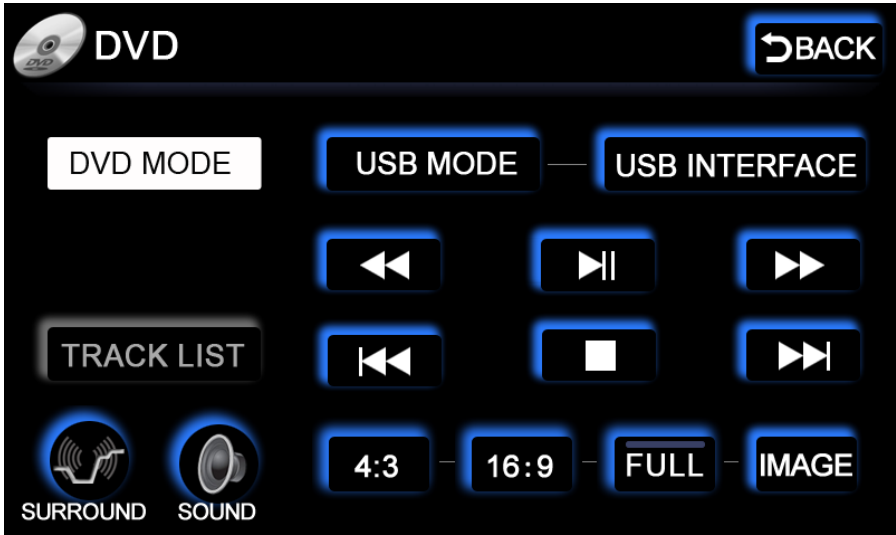
- ☐ **DVD MODE :** Turn on the DVD
- ☐ **USB MODE :** Turn on the USB Read/Retrieve Function.
- ☐ **USB INTERFACE :** Read/Retrieve the contents of the USB flash card.
- ☐ **TRACK LIST :** CD and MP3 songs.
- ☐ **SURROUND :**
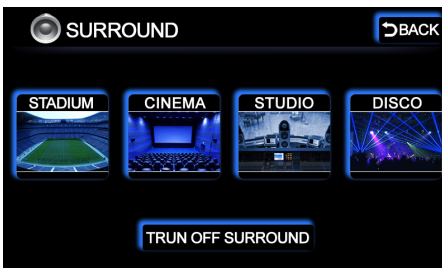
- ▶ Scene simulation selections such as "STADIUM, CINEMA, STUDIO, DISCO" etc.
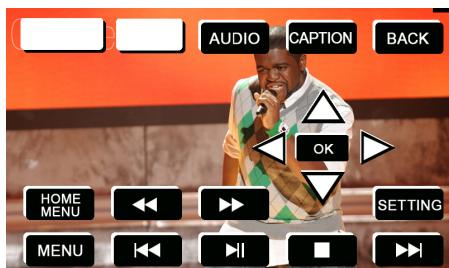- ▶ TURN OFF SURROUND : Switch off to return to the original sound mode.

◘ **SOUND :**

> ▶ Car horn adjustment. Allows front, back, left, right, high, and low sound adjustment.

◘ **4:3 :** Image shifting at 4:3

◘ **16:9 :** Image shifting at 16:9

◘ **FULL :** Whole screen image shifting

◘ **IMAGE :** Enter the Slot Loading Disc player content.

> ▶ AUDIO : Sound broadcast shifting
> ▶ CAPTION : Image subtitle shifting
> ▶ HOME MENU : DVD main menu
> ▶ MENU : DVD submenu
> ▶ ◀◀ : Fast Rewind
> ▶ ▶▶ : Fast Forward
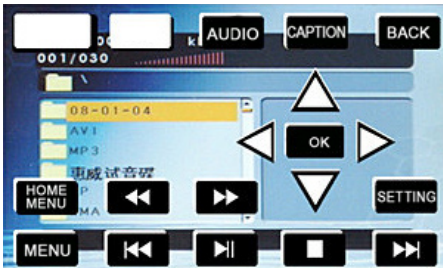> ▶ ◀◀ : Previous
> ▶ ▶▶ : Next
> ▶ ▶‖ : Play and Pause
> ▶ ■ : Stop

▶ SETTING :

▲ Enter Picture Quality Setup: "COLOR, HUE, CONTRAST, BRIGHTNESS".
- ▶ 【▲】: DVD menu key moving upward.
- ▶ 【▼】: DVD menu key moving downward.
- ▶ 【◀】: DVD menu key moving leftward.
- ▶ 【▶】: DVD menu key moving rightward.
- ▶ 【OK】: DVD OK key.

◻ **USB Interface :**

- ▶ AUDIO : No function
- ▶ CAPTION : No function
- ▶ HOME MENU : Flash card contents
- ▶ MENU : Flash card contents
- ▶ ⏮ : Previous
- ▶ ⏭ : Next
- ▶ ⏯ : Play and Pause
- ▶ ⏹ : Stop
- ▶ 【▲】: USB Flash card menu key moving upward.
- ▶ 【▼】: USB Flash card menu key moving downward.
- ▶ 【◀】: USB Flash card menu key moving leftward.
- ▶ 【▶】: USB Flash card menu key moving rightward.
- ▶ 【OK】: USB Flash card OK key

※Important Notice:
1. Currently, this product does not support dts, only AC3 and stereo.
2. There is no guarantee that all the DVD 9 disc formats could be read properly since

not all disc quality are according to standard.

3. The USB flash card player supports MP4 format, but compressed files may differ so there is no guarantee that all images and sound formats can be played properly especially movies downloaded from the Internet.

◘ **BACK :** Return to the main interface.
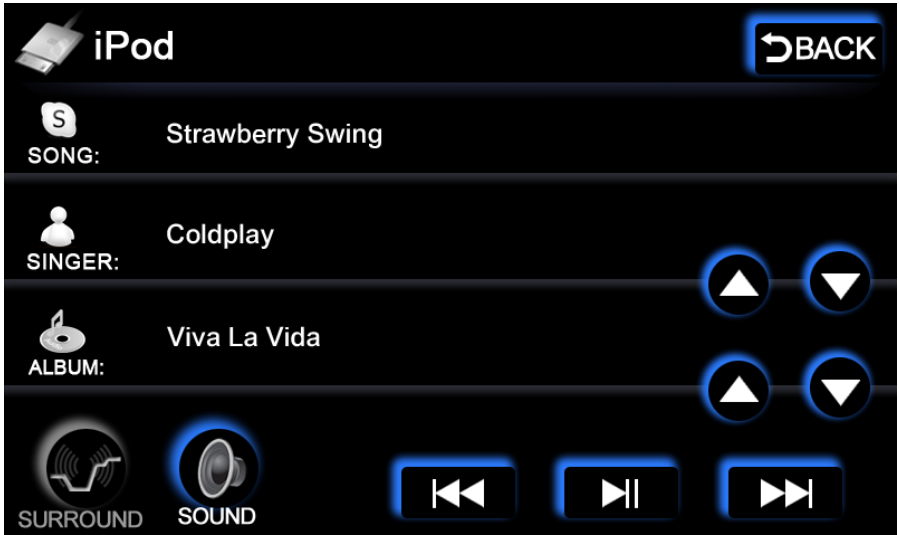
- ◘ **Display Chinese, English, Japanese, etc. languages. Due to font files, may not be able to cover all characters.**
- ◘ **SONG: Display song titles.**
- ◘ **SINGER : Display singer's name. Allow search categorize by singer's name.**
- ◘ **ALBUM : Display album name. Allow search categorize by album name.**
- ◘ ⏮ : Previous
- ◘ ⏭ : Next
- ◘ ⏯ : Play and Pause

※Important Notice:
1.Currently does not support visual image display function.

- **FM1, FM2, AM :** Store up to 6 radio stations
- 【▲】 **:** Up radio channel search
- 【▼】 **:** Down radio channel search
- **TURN OFF :** Turn off the radio.
- **SCAN :** Radio channel auto-search.
- **Saving Method :** After confirm channel search, save the radio station channel by pressing "SAVE" for 3 seconds.

- With GPS build in functions; the program is constructed on WINCE 5.0 operating system which matches with the standard modification for GPS worldwide. Easy and fast, it is a real convenience to local consumers.
- Memory card 64 M

Supports 6, 8, 10 discs DVD changer box. If the DVD changer is for 8 discs, the interface displays 8 disc options. If the DVD changer is for 6 discs, the interface displays 6 disc options. Play a disc by pressing the screen.

◘ ⏮ : Previous

◘ ⏭ : Next

◘ ⏯ : Play and Pause

◘ ⏹ : Stop

◘ **NORMAL :** Image shifting at 4:3

◘ **WIDE :** Image shifting at 16:9

◘ **IMAGE** : Enter into the disc image contents.

◘ The whole control is similar to the Slot Loading DVD control.

※Important Notice:

1.Currently, only supports Sanyo and Panasonic communication protocol.

◻ **DVD :** Shift the image contents of the Slot Loading DVD to the back headrest display for the passengers at the back.

◻ **CDC :** Shift the image contents of the external DVD Disc Changer to the back headrest display for the passengers at the back. The other keys on this interface are designed for future uses. Currently, they are not yet available for operation.

- ◻ **TURN-ON BT :** Turn on the Bluetooth Function.
- ◻ **Match :** Before using the Bluetooth Function, press this key to reveal the Bluetooth code (0000). Enter this code into the cell phone.
- ◻ **Bluetooth Usage Procedures:**
  - ▶ 1. Press "**TURN-ON BT**" key.
  - ▶ 2. Press "**Match**" key.
  - ▶ 3. Turn on the Bluetooth Function (Please see cell phone user's manual for details). Enter the Bluetooth code (0000). Wait for a moment, connections will be completed.
  - ▶ 4. Press the number keys to make a phone call.
- ◻ **Mobile :** resume the use of mobile for communication. At this time, the car speakers are muted.
- ◻ **Navigation :** use car internal microphone for communication. The sound output comes from the car speakers.
- ◻ **DELETE :** Delete incorrect pressed numbers.
- ◻ **RECORD :** Include "Incoming calls" and "outgoing calls" 20 records.
- ◻   : End call
- ◻   : Call
- ◻   : Minimize conversation volume
- ◻   : Maximize conversation volume

Important Notice:
1. Due to various cell phone brands, there is no guarantee that the Bluetooth Function can connect with all cell phones.
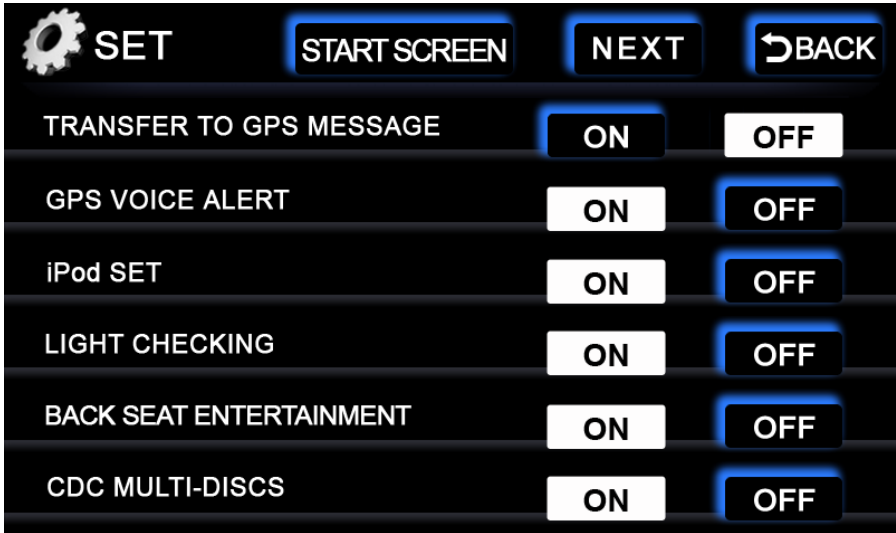
☐ **TRANSFER TO GPS MESSAGE :**
   ▶ **ON :** At any interface state, every 10 seconds, it will shift to the navigation screen.
   ▶ **OFF :** Turn off this function
☐ **GPS VOICE ALERT :**
   ▶ **ON :** Turn on GPS Voice mode.
   ▶ **OFF :** Turn off GPS Voice mode
☐ **iPod SET :**
   ▶ **ON :** Open iPod Input interface.
   ▶ **OFF :** Open AUX Input interface.
☐ **LIGHT CHECKING :**
   ▶ **ON :** While driving at night, the left and right buttons of the system will automatically turn on, and the monitor will turn dim once the car lights are turned on.
   ▶ **OFF :** "Day/Night " mode is displayed at the bottom of the main screen. Set the left right button lights and monitor brightness to Manual mode.
☐ **BACK SEAT ENTERTAINMENT :**
   ▶ **ON :** Open Back Headrest Display Function interface.
   ▶ **OFF :** Turn off this function.
☐ **CDC MULTI-DISCS :**
   ▶ **ON :** Open Disc Changer Function interface.
   ▶ **OFF :** Turn off this function.

SET   RESET   LAST   ⮐BACK

BRAKE INSPECTION		ON	OFF
REVERSE CAMERA		ON	OFF
SPECIAL-BUTTON ON THE WHEEL		ON	OFF
GPS COLD START		ON	OFF
PANEL'S KEY LIGHT	10	▲	▼
WHEEL KEY	No Wheel Key	▲	▼
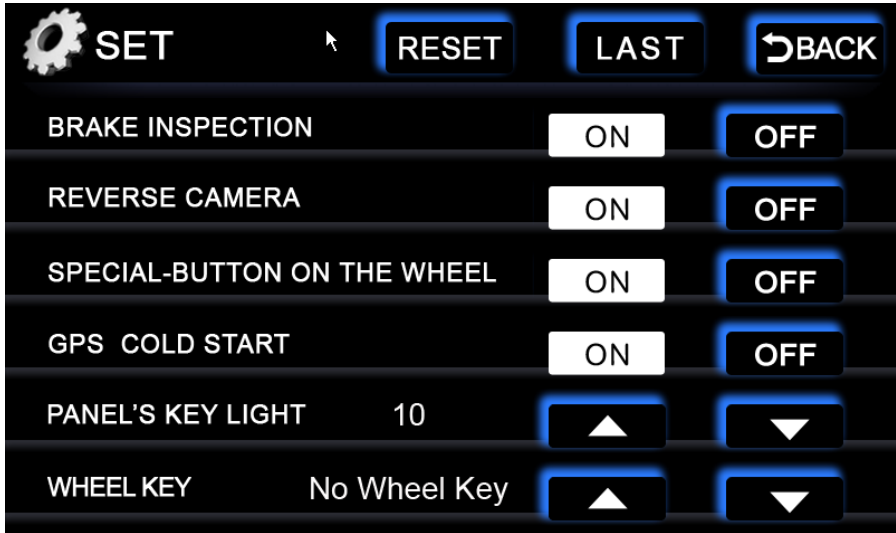
- ◘ **BRAKE INSPECTION :**
    - ▶ **ON :** If the brake test wire is connected, images on the screen will be displayed only when the hand brake is pulled.
    - ▶ **OFF :** Turn off this function.
- ◘ **REVERSE CAMERA :**
    - ▶ **ON :** If this is connected and the gear is shifted to "R", the backside image will not be displayed, but the original image sound will still remain.
    - ▶ **OFF :** Turn off this function.
- ◘ **SPECIAL-BUTTON ON THE WHEEL :**
    - ▶ **ON :** If there is a Quick Dial Function on the steering wheel, turn this on to use.
    - ▶ **OFF :** Turn off this function.
- ◘ **GPS COLD START :**
    - ▶ **ON :** Allow GPS in a cold state. However, if this function is turned on, setting the GPS positioning will take more than 3 minutes to complete. **Suggestion:** Turn off this function.
    - ▶ **OFF :** Turn off Cold Start.
- ◘ **PANEL'S KEY LIGHT :** Allow brightness adjustment on both left and right hotkeys. Range: 0~20.
- ◘ **Wheel Key :** special steering wheel hot keys for certain car models. This function is applicable depends on the mainframe model.
- ◘ **RESET :** Restart the mainframe.
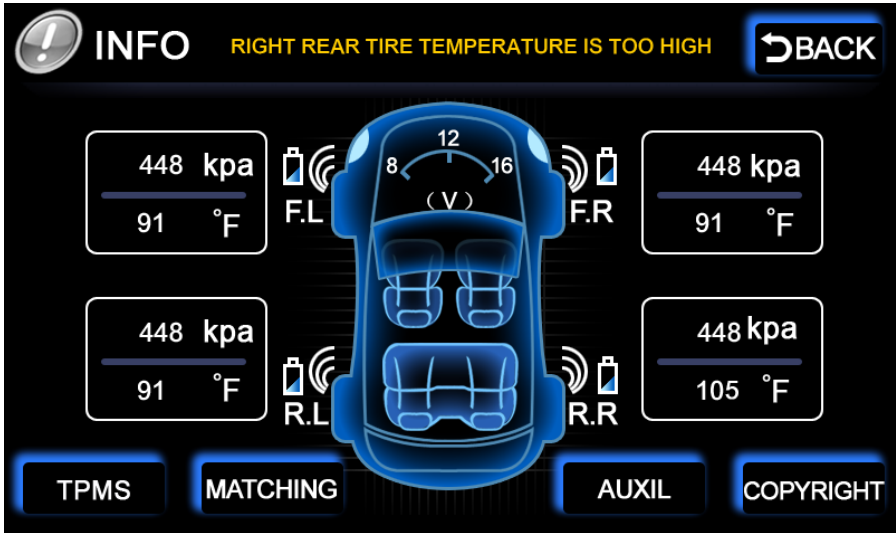
- ◘ The meter on the middle displays the car's current voltage value.
- ◘ Each wheel has its own pressure and temperature sensor value. The tire pressure value is shown on top, while the tire temperature is shown at the bottom.
- ◘ TPMS USAGE PROCEDURES:
  - ► 1. Install the TPMS physical parts to the mainframe and startup.
  - ► 2. Select "MATCHING".
  - ► 3. Install the TPMS sensor with battery to the tire. The tire sensor value will be displayed on the screen.
  - ► 4. Select "MATCHING" after installation for all four wheels. This ends the installation.
- ◘ **TPMS :**
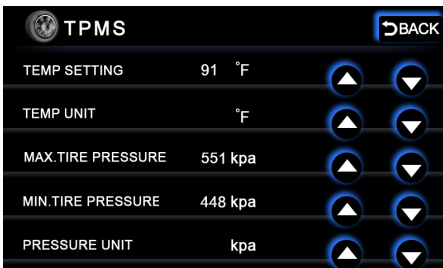
  - ► TEMP SETTING : Set the tire temperature warning value. When the temperature

reaches or exceeds the set value, a warning will be shown.
- ▶ TEMP UNIT : ℃、℉ interchangeable
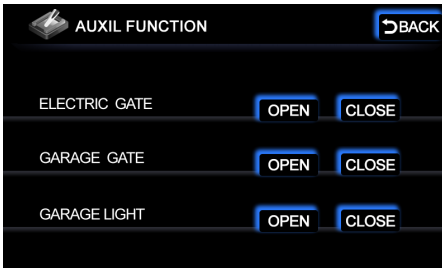- ▶ MAX. TIRE PRESSURE : Set the maximum pressure warning value. When the pressure reaches or exceeds the set value, a warning will be shown.
- ▶ MIN. TIRE PRESSURE : Set the minimum pressure warning value. When the pressure reaches or falls below the set value, a warning will be shown.
- ▶ PRESSURE UNIT : psi or kpa interchangeable

◘ **AUXIL :**

- ▶ **ELECTRIC GATE :**
  - ▸ **OPEN :** If a Roll-up Gate Control is installed, you can use the touch screen to open the Automatic Door.
  - ▸ **CLOSE :** If a Roll-up Gate Control is installed, you can use the touch screen to close the Automatic Door.
- ▶ **GARAGE GATE :**
  - ▸ **OPEN :** If a Roll-up Gate Control is installed, you can use the touch screen to open the Garage Door.
  - ▸ **CLOSE :** If a Roll-up Gate Control is installed, you can use the touch screen to close the Garage Door.
- ▶ **GARAGE LIGHT :**
  - ▸ **OPEN :** If a Roll-up Gate Control is installed, you can use the touch screen to turn on the Garage Light.
  - ▸ **CLOSE :** If a Roll-up Gate Control is installed, you can use the touch screen to turn off the Garage Light.

◘ **COPYRIGHT :**

- ▶ Mainframe software version and copyright policy

Monitor	Size	6.5inches
	Display Area	144×784 、152×91.44
	Resolution	800×480
	Display Color	384000pixels
	Method	TFT array source 、translucent method
	Corner Illumination	Cooling degree L-shape tube
	Color System	NTSC/PAL compatible
	Operation Temperature	-10℃ +50℃
	Storage Temperature	-20℃ +80℃
	Viewing Angle	20° 90°
	Touch Screen	Electric sensor （film + glass）
GPS	Method	L1 、C/A code GPS SPS standard marking
	Receiver	12 channels
	Frequency	1575.42MHz
	Sensitivity	-130dBm
	Update Rate	Approximately once per second
Video Audio	Peak Operating Current	10.0A
	Operating Voltage	DC12V（allow 11V~16V）
	Electric Connection	Cathode method
	External Video Input	1V p-p/75 ohm
	External Audio Input	1.5V/22 kohm
	Video Output	1V p-p/75 ohm （White100%Output / playing DVD）
Amplifier	Max. Power Output	45 W x 4
	Load resistance	4 ohm
	Max. Output Voltage / Electric Output Resistance	2.0 V/100 ohm
	Frequency Response	6dB 、（10kHz）
	S/N Ratio	100Hz -14~+6dB 、10kHz ±10dB

DVD Player	Disc Format	DVD-ROM、DVD-VIDEO、 DVD-R（video mode）/RW （video mode）、CD-ROM、 CD-DA 、CD-R/RW
	Area code	6
	Signal Format（Sample Frequency）	（DVD value）：48/96 KHz （CD value）：44.1 KHz
	Signal Format（bit）	（DVD value）：16/20/24bit （CD value）：16bit
	Frequency Property	（DVD value）：8Hz ~44kHz （ ± 1dB） （CD value）：20Hz~20kHz（ ± 0.1/-0.3dB） S/N(DVD value)：97dB（1kHz） （IHF-A network） （CD value）：96dB(1kHz) （IHF-A network）
	Trend Range	（DVD value）：95dB(1kHz) （IEC-A curve/20kHz LPF） （CD value）：94dB(1kHz) （IEC-A curve/20kHz LPF）
	THD+N	0.008%（1kHz）
	Audio path	2（Dimensional sound）
FM Control	Frequency Wave	（87.5MHz~108MHz）
	Sensitivity	9dBf（0.7μV/75 ohm single sound path S/N30dB）
	50dB Sensitivity	14dBf
	S/N	50dB up（IHF-A Internet）
	THD+N	0.3%（at 65dBf,1kHz,ster-eo） 0.1%（at 65dBf，1kHz，mono）
	Frequency Property	30Hz~15000Hz（ ±3dB）
	Dim Sound Difference	45dB up（65dBf Input、1kHz）
AM Control	Frequency Wave	531kHz ~1602kHz （9kHz） 530kHz ~1604kHz （10kHz）
	Sensitivity	18μV（S/N 20dB）
	Selection Level	65 dB（IHF-A network）
GPS Antenna	Antenna	Ripple Transmission with Flat Antenna
	Length	5.0m
External size	Mainframe size	178（W）x 100（H）x165 （D）mm
	GPS Antenna	39（W）x 15.5（H）x48.5 （D）mm
Weight	Weight	Approximation 2.5kg

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