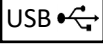
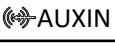


12/24V Bluetooth®/USB/MP3/WMA
AM/FM Stereo Radio

 Bluetooth®

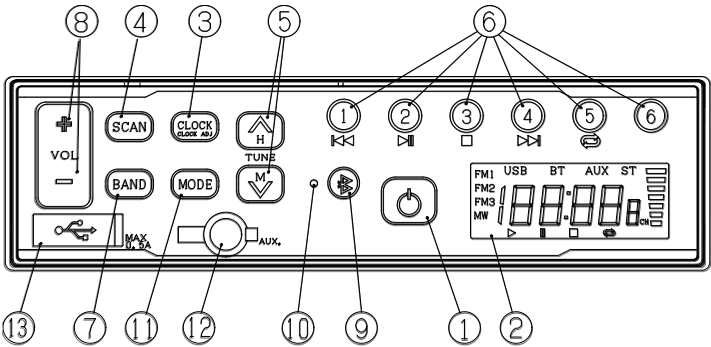
 USB

 AUXIN

24V/12V
MP3/WMA

Thank you for purchasing ESPERIA product.
Please read this owner's manual carefully before operating this unit.
Store it in safe place with this manual.

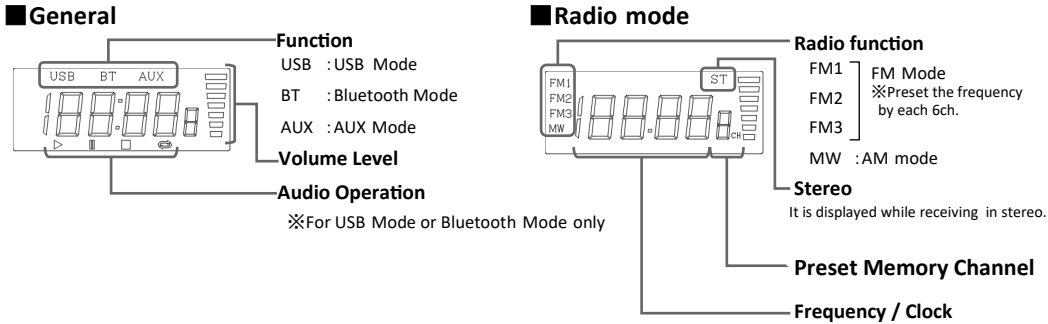
Operational Panel



- ① Power Button**

Press the Button to power ON. Press again to power OFF.
- ② LCD (Liquid Crystal Display)**

The receiving band and frequency or the current time will be indicated on the display.



- ③ Clock (CLOCK ADJ.) [CLOCK, CLOCK ADJ.] Button**

On the Radio Mode, pressing this button will indicate the current time and pressing it again will resume frequency display.
After 3 seconds, the time display will automatically change to the frequency display.
Press and hold to enter in Clock Adjustment Mode.
- ④ Scan [SCAN] Button**

By pressing and releasing the button the scan tuning will start automatically and the strong signal are memorized on memory.
- ⑤ Tuning Buttons [TUNE ^, V]**

By pressing [TUNE ^] or [TUNE V] button the receiving frequency will be up or down.
By pressing the button more than 2 second, the seek tuning will start.
When the strong signal station is received the seek will stop.
Please press the button again if you want to stop the seek tuning.
- ⑥ Preset Memory Button[①～⑥]**

On each band (FM1,FM2,FM3 and MW), One station is memorized on the memory from the channel 1 to the channel 6.
Refer to the section “Memorizing radio station to the memory”
- ⑦ Bands Select Button [BAND]**

By pressing the button, the receiving band will be selected as shown.
FM1→FM2→FM3→MW
The receiving band and frequency will be indicated on the display.
- ⑧ Volume Control Button [VOL +, -]**

By pressing the [VOL+] button, the sound volume will increase.
By pressing the [VOL-] button, the sound volume will decrease.
- ⑨ Bluetooth [B] button**

Press the button to connect to the last Bluetooth compatible device that has registered (Pairing).
If you press and hold for 2 seconds or more, connection (registration) is released and the pairing standby mode is set.
- ⑩ Bluetooth LED**

When this LED lights up, the Bluetooth device is connected. Flashes in pairing standby mode.
- ⑪ Mode Select Button [MODE]**

Pressing the button, a source will be selected as shown.
If USB memory is not connected, USB mode will skip after any seconds.
FM or MW → USB → Bluetooth → AUX
- ⑫ AUX-IN jack (Auxiliary Audio In Put)**

Open the rubber cap and connect the portable audio device by the cable the stereo mini plug(3.5mm)
Please cover the AUX-IN jack with the rubber cap dustproof or waterproof, when you do not need to connect the portable audio device.
- ⑬ USB Input Terminal**

Open the rubber cap and connect a USB storage device.
Please cover the USB input terminal with the rubber cap for dustproof or water proof, when you do not need to connect the USB storage device.

Setting the Clock

When you hold down the [CLOCK] (CLOCK ADJ.) Button for 2 seconds or more, the clock display flashes and the clock adjustment mode is entered.
In clock adjustment mode
Pressing the [TUNE H] button to adjust hour.
Pressing the [TUNE M] button to adjust minute.
The clock display will return by pressing the [CLOCK] (CLOCK ADJ.) Button again.

Specifications

General	Bluetooth
Power Source : DC12V～24V	Specification : Ver5.0
Power Consumption : Less than 2A	Bluetooth Class : Class2
Rated Output Power : 16W + 16W(4Ω)	(Maximum Distance
Normal Output Power : 14W + 14W (10%TDH, 4Ω)	10m) Frequency Range : 2.402GHz～2.48GHz -2.32dBm(for EU)
Dimension : 179(w) × 50(H) × 91(D)mm	Profile : HFP V1.5,A2DP V1.2,AVRCP V1.0
FM section	USB
Receiving Frequency Range: 87.5～108.0MHz(EU) 87.9～108.0MHz(USA)	Specifications : USB2.0/1.0
Usable Sensitivity : 3μV(S/N 30dB)	Support Format
S/N Ratio : 50dB	• MP3 : MPEG1,2,2.5
MW section	Audio Layer 2,3
Receiving Frequency Range: 531～1602kHz(EU) 530～1710kHz(USA)	• WMA : Windows Media ™ Audio
Usable Sensitivity : 20μV(S/N 20dB)	Support File System
AUX section	: FAT16/FAT32 File system
AUX IN : Stereo mini jack(φ3.5),	Maximum Output : DC5V / 0.5A
Rated Input Power :1V	
Normal Input Power :90mV	

Listening the radio

- Set the ignition key to ACC or ON and press the [POWER] button to turn on the radio.
- Select the desired band FM or MW by the [BAND] Button.
- Select the desired station by a [① to ⑥] button or a [TUNE] Button.
- To turn off the radio, press the [POWER] button.

Manual tuning

Press the [TUNE ^] or [TUNE V] Button, the received frequency shifts one step.

SEEK tuning

Pressing the [TUNE] Button for 2 second or longer, the seek tuning will be start and stop at the available frequency.

Memorizing radio station to the memory

- Press the [BAND] button to select FM1, FM2, FM3, and MW , and select the desired station.
- Then search the desired station by the seek or the manual tuning.
- Press any button (from ① to ⑥) for 3 seconds or longer.
 - The preset channel number will be indicated on the display.
 - ON each band (FM1, FM2, FM3, and MW), 1station can be put on the memory on each of the button from ① to ⑥.

Auto Store Memory (SCAN)

During the radio mode, by pressing and releasing [SCAN] Button will automatically store a strong signal station in memory from the channel 1 to the channel 6.
NOTE :
By this operation, the current data in the memory will be erased.
When the expected radio station is not be able to store in the memory by the SCAN function, Please store the radio station in the memory manually.

USB Operations

Connect a USB storage device to USB socket on the this unit.
Press the [MODE] Button and select the USB Playback Mode.
During the USB Playback Mode. “USB” will be indicated on the display.
During playback, follow the instruction below to control playback.

- ① Previous Track[⏮] Button

Skip to the previous track. Press and hold this button to rewind fast-rewind.
- ② Play/Pause[▶||] Button

Pause or resume playback.
- ③ Stop [□] Button

Stop playback.
Press the Play Button, playback starts at the top of current track
- ④ Next Track[▶⏭] Button

Skip to the next track. Press and hold this button to rewind fast-forward.
- ⑤ Repeat [↺] Button

Repeat the current track and Press the Repeat Button again, turn off the Repeat Mode.

NOTE :

- Please connect/uncomment the USB storage device in a other than USB mode.
- ESPERIA does not guarantee compatibility with all USB storage device
- Be sure to use the extension cable for the USB socket.
- Please do not connect other than USB memory device. Can not charge the smartphone.
- ESPERIA cannot be liable for any data loss or damage and improper access of USB storage device.

Using Bluetooth wireless technology

Mobile phones and audio devices that support Bluetooth can be connected to use with this unit.

You will be notified that there is an incoming call by connecting the mobile phone.

※This unit will not support calls for the reason of No microphone is installed.

In order to use Bluetooth devices must be able to match certain profiles. this unit is compatible with following profiles.

- Incoming mobile phones
 - HFP(Hands-Free Profile)
- Bluetooth audio
 - A2DP(Advanced Audio Distribution Profile)
 - AVRCP(Audio/Video Remote Control Profile)

Note: The Bluetooth word mark and logos are owned by the Bluetooth SIG, inc. and any use of such marks by ESPERIA Co.,Ltd Is under licensed. Other trademarks and trade names are those of their respective owners.

Pairing Bluetooth devices

When connecting a Bluetooth devices for the first time, mutual registration is required. Pairing enables this unit and other devices to recognize each other.

※Please first enable Bluetooth function of the Bluetooth device before pairing.

For details, please refer to the manual of Bluetooth device.

- Press the [MODE] Button to select the function Bluetooth mode.
- Enable Bluetooth on the Bluetooth device.
- Press and hold the Bluetooth Button until the sounds connected. (tow beep sounds)

※When "P" flashes on the display, it is in pairing standby mode.

- Select "CAR RADIO" with Bluetooth device.

※Only one pair of Bluetooth devices can be paired with this unit. If you want to pair other devices, repeat steps 1 to 4 again.

CAUTION: There is a function to reconnect to the last connected device by turning the power on.

Prevent incorrect connection when leaving this unit in (car etc.),

Press and hold Bluetooth button until it sounds"beep", then please release pairing.

Play audio of Bluetooth device

If you have already registered (pairing) in the Bluetooth device, make sure that the Bluetooth LED is turning on light. Press the [MODE] button to switch to the BT mode. In BT mode Bluetooth device can be operated with ❶ to ❺ buttons.

- ❶

Previous Track

[⏮⏮]

Button

Return to the beginning of the current track.

Press the button again to skip to the previous track.
- ❷

Play/Pause

[▶⏸]

Button

Pause or resume playback.
- ❸

Stop

[⏹]

Button

Music that is playing stops.
- ❹

Next Track

[▶▶]

Button

Skip to the next track.
- ❺

Repeat

[↺]

Button

invalid in Bluetooth mode.

CAUTION: In case no sound is detected from this unit, please see to it that the Bluetooth compatible device music output destination is in "CAR RADIO" Please check.

Bluetooth device incoming call

If the Bluetooth device has already been connected (Bluetooth LED is lit), this unit is in standby mode for incoming calls.

When receiving a call, "CALL" appears on the liquid crystal display, the volume of the car stereo automatically mutes, and the ringing tone of the phone is played from the speaker.

AUX Function

- This radio has an AUX input jack for portable device.
- Be sure to use the cable stereo mini plug(3.5mm)for the AUX-IN jack.
- Pressing the [MODE] Button and select the AUX mode.
- During the AUX mode, “AUX” will be indicated on the display.
- The volume controls of portable device should be adjusted approximately same as currently portable audio device should be adjusted approximately same as currently listening radio sound volume level.
- Volume control buttons are able to control the sound with this unit

Resetting the radio

Please reset this device in trouble such as when frequency display is different and when switching is impossible etc.

Hold down the Bluetooth button and press the power button.

Trouble shooting

General

Problem	Cause	Measure
Nothing happens when buttons are pressed. display is not accurate.	CPU malfunction due to noise etc.	Reset this unit according to "Resetting the radio". After resetting, preset memory etc. all disappear, please set again.

Radio

Problem	Cause	Measure
Sound is noisy	It is not on the frequency of the broadcasting station	Please adjust to the correct frequency.
	Antenna does not extend (when using pillar antenna)	When using a radio, please use with the pillar antenna extend.
	The antenna is not grounded or not installed properly	Please consult your dealer.
	Antenna power supply not connected	The booster built-in antenna needs to connect the power supply to the antenna. For details, please consult your dealer.
Display unusual frequencies	CPU malfunction due to noise etc.	Reset this unit according to "Resetting the radio". After resetting, preset memory etc. all disappear, please set again.

USB Playback

Problem	Cause	Measure
No sound heard	The USB storage device contains no MP3/WMA files.	Record MP3/WMA files properly to the USB storage device.
	The files are not proper MP3/WMA format.	Use only properly encoded MP3/WMA files.
Sound is Interrupted or has noise.	The MP3/WMA Files are improperly Encoded.	Use only properly encoded MP3/WMA files.
The device isn’t recognized	The device is Damaged.	Disconnect the USB storage device and reconnect. If the device is still not recognized, try replacing with a different device.
	Connectors are loose.	
	The USB memory is not formatted with FAT32 / FAT16	Format the USB storage device with the FAT32 / FAT16 file system and write the MP3 / WMA file. Be sure to back up the USB memory before formatting.

Bluetooth

Problem	Cause	Measure
Can not connect a Bluetooth device	Bluetooth connection is not established	Depending on your Bluetooth device, some items that takes time to connect may not be automatically reconnected. Please check that the Bluetooth LED, if it does not turn on the light on time, please pair again according to "Pairing Bluetooth devices".
	Another Bluetooth devices is connected.	If another Bluetooth device is connected, pair it again according to "Pairing Bluetooth device".
Cannot remotely control Bluetooth devices.	AVRCP profile is not connected	Please disconnect all connected Bluetooth devices and pair it again according to "Pairing Bluetooth device".
	The connection link between devices may be broken	Again according to "Pairing Bluetooth device".
	does not support AVRCP	Please check the support profile of Bluetooth device..
No sound heard	Bluetooth device volume is low	The volume of the Bluetooth device will be affected. Please set the volume of the Bluetooth device to an appropriate value.
	The output destination of the Bluetooth device is not set to "CAR RADIO"	Please confirm that the Bluetooth device music output destination is in "CAR RADIO"
Can not talk on the phone	This unit does not support Bluetooth calling. Depending on the model of the mobile phone, you may connect to this unit with the call profile.	Please change the microphone setting from this unit to the mobile phone microphone on the call screen according to the instruction manual of your mobile phone.
Bluetooth audio playback stops after incoming call	Audio may not resume after phone interrupt.	After the call ends, please again according to "Pairing Bluetooth device".

Manufacturer Hidaka Corporation
Factory Address:
203, East of Building 1, Paibang Jialian Industrial Area, Silian Community, Henggang Street, Longgang District, Shenzhen City, Guangdong Province, P.R.China

ESPERIA Co.,Ltd.

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English :
Declaration of conformity
We use this model KRH-M505

In accordance with the provisions of the 2014/53/EU and 2011/65 EU directive, we have established basic requirements and other relevant rules.

Seapáinis :
dearbhú comhréireachta
Tá muid an múnla KRH-M505
2014/53 / AE agus 2011/65 i gcomhréir le forálacha na treorach AE, lena sainmhínítear na ceanglais bhunúsacha agus rialacháin ábhartha eile.

Português :
declaração de conformidade
Nós somos este modelo KRH-M505
2014/53 / UE e 2011/65, em conformidade com as disposições da directiva da UE, definindo os requisitos básicos e outros regulamentos relevantes.

Français :
Déclaration de conformité
Nous sommes ce modèle KRH-M505
2014/53 / EU et 2011/65, conformément aux dispositions de la directive européenne, définissant les exigences de base et d'autres règlements pertinents.

Ελληνικά :
δήλωση συμμόρφωσης
Είμαστε αυτό το μοντέλο KKH-M505
2014/53 / EE και 2011/65 σύμφωνα με τις διατάξεις της οδηγίας της EE, που καθορίζει τις βασικές απαιτήσεις και άλλες σχετικές διατάξεις.

Română :
declarație de conformitate
Suntem acest model de KRH-M505
2014/53 / UE și 2011/65, în conformitate cu dispozițiile directivei UE, care definesc cerințele de bază și alte reglementări relevante.

Deutsch :
Konformitätserklärung
Wir sind dieses Modell KRH-M505
2014/53 / EU und 2011/65 mit den Bestimmungen der EU-Richtlinie in Einklang, die grundlegenden Anforderungen und den anderen relevanten Vorschriften zu definieren.

Hrvatska :
Izjava o sukladnosti
Mi smo ovaj model KRH-M505
2014/53 / EU i 2011/65, u skladu s odredbama direktive EU, definiraju osnovne zahtjeve i druge relevantne propise.

Slovenskú :
vyhlásenie o zhode
My sme tento model KRH-M505
2014/53 / EÚ a 2011/65 v súlade s ustanoveniami smernice EÚ, ktoré definujú základné požiadavky a iné relevantné predpisy.

Italiano :
Dichiarazione di conformità
Noi siamo questo modello KRH-M505
2014/53 / UE e 2011/65 in conformità con le disposizioni della direttiva europea, che definiscono i requisiti di base e di altri regolamenti pertinenti.

Latvijas :
atbilstības deklarācija
Mēs esam šis modelis KRH-M505
2014/53 / ES un 2011/65 saskaņā ar ES direktīvas noteikumiem, kuros noteiktas pamatprasības un citus būtiskus noteikumus.

Slovenski :
izjava o skladnosti
Mi smo ta model KRH-M505
2014/53 / EU in 2011/65 v skladu z določbami direktive EU, ki opredeljuje osnovne zahteve in druge ustrezne predpise.

Español :
Declaración de conformidad
Somos este modelo KRH-M505
2014/53 / UE y 2011/65 de conformidad con las disposiciones de la directiva de la UE, que definen los requisitos básicos y otras regulaciones relevantes.

Lietuvių :
atitikties deklaracija
Mes šis modelis KRH-M505
2014/53 / ES ir 2011/65 pagal ES direktyvos nuostaty, apibrėžiančių pagrindinius reikalavimus ir kitus susijusius teisės aktus.

suomi :
vaatimustenmukaisuusvakuutus
Olemme tätä mallia KRH-M505
2014/53 / EU ja 2011/65 mukaisesti määräysten EU-direktiivin, jossa määritellään perusvaatimukset ja muut asiantuuluvat määräykset.

Български :
Декларация за съответствие
Ние сме този модел KRH-M505
2014/53 / ЕС и 2011/65 в съответствие с разпоредбите на директивата на ЕС, които определят основните изисквания и другите приложими разпоредби.

Magyar :
Megfelelőségi nyilatkozat
Mi ez a modell KRH-M505
2014/53 / EU és a 2011/65 a rendelkezéseivel összhangban az uniós irányelv, amely meghatározza az alapvető követelményeinek és egyéb vonatkozó előírásoknak.

Svenska :
Försäkran om överensstämmelse
Vi är den här modellen KRH-M505
2014/53 / EU och 2011/65 i enlighet med bestämmelserna i EU-direktivet, som definierar de grundläggande kraven och andra relevanta bestämmelser.

Český :
prohlášení o shodě
My jsme tento model KRH-M505
2014/53 / EU a 2011/65 v souladu s ustanoveními směrnice EU, které definují základní požadavky a další relevantní předpisy.

Ġappuniż :
dikjarazzjoni ta 'konformità
Aħna dan il-mudell KRH-M505
2014/53 /UE u 2011/65 skond id-dispożizzjonijiet tad-Direttiva tal-UE, li jiddefinixxu r-rekwiżiti bażiċi u regolamenti rilevanti oħra.

Icelandic :
Samræmisýfirlýsing
Við erum þetta líkan KRH-M505
2014/53 / ESB og 2011/65 í samræmi við ákvæði tilskipunar ESB, sem skilgreina grunnkröfur og aðrar viðeigandi reglugerðir.

dansk :
overensstemmelseserklæring
Vi er denne model KRH-M505
2014/53 / EU og 2011/65 i overensstemmelse med bestemmelserne i EU-direktivet, som definerer de grundlæggende krav og andre relevante bestemmelser.

Nederlands :
verklaring van overeenstemming
We zijn dit model KRH-M505
2014/53 / EU en 2011/65 in overeenstemming met de bepalingen van de EU-richtlijn, het definiëren van de fundamentele eisen en andere relevante voorschriften.

Norsk :
samsvars~~~POS=TRUNC
Vi er denne modellen KRH-M505
2014/53 / EU og 2011/65 i samsvar med bestemmelsene i EU-direktiv, som definerer de grunnleggende kravene og andre relevante bestemmelser.

Eesti :
vastavusdeklaratsioon
Me oleme seda mudelit KRH-M505
2014/53 / EL ja 2011/65 vastavalt sätetele Euroopa Liidu direktiivi, millega määratletakse põhilised nõuete ja teiste asjakohaste määrustega.

Polska :
Deklaracja zgodności
Używamy tego modelu KRH-M202
Zgodnie z przepisami dyrektywy 2014/53/UE i 2011/65 UE ustanowiliśmy podstawowe wymogi i inne odpowiednie przepisy.

Türkçe :
uygunluk Beyanı
Bu modelin KRH-M505 vardır
2014/53 / AB ve 2011/65 temel gereksinimleri ve diğer ilgili düzenlemeleri tanımlayan AB direktif hükümlerine uygun olarak.



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CAUTION

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.

IC

(EN)

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

(FR)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes;

1) l'appareil ne doit pas produire de brouillage;

2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

SAR test

(EN)

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

(FR)

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles des radioélectriques (RF) de la FCC lignes directrices d'exposition et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée. Cependant, cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps (à l'exception des extrémités : mains, poignets, pieds et chevilles).

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