KRH-M202 Owner's manual ESPERIA

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

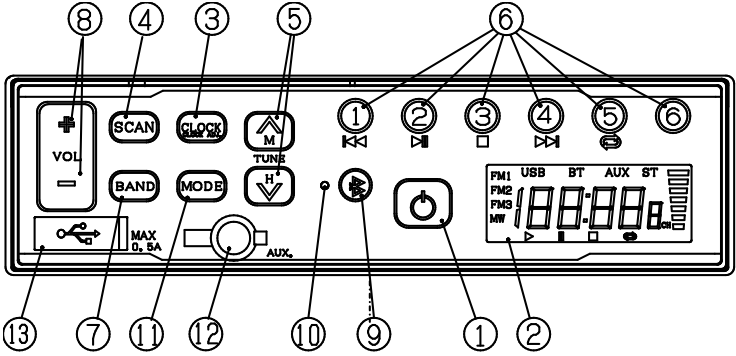Bluetooth® | USB ← | AUXIN | **24V/12V** MP3/WMA

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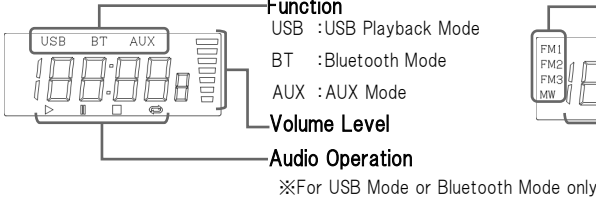Store it in safe place with this manual.
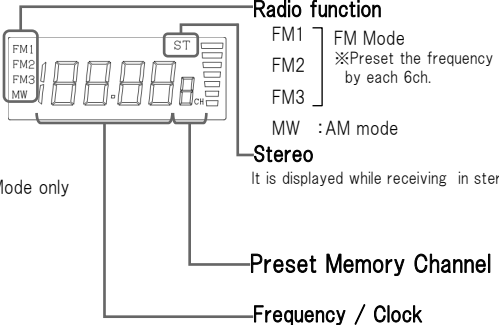
Operational Panel

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.

■General

Function
USB : USB Playback Mode
BT : Bluetooth Mode
AUX : AUX Mode
Volume Level
Audio Operation
※For USB Mode or Bluetooth Mode only

■Radio mode

Radio function
FM1 FM Mode
FM2 ※Preset the frequency by each 6ch.
FM3
MW : AM mode
Stereo
It is displayed while receiving in stereo.

Preset Memory Channel

Frequency / Clock

③ Clock (CLOCK) 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∧,∨)
By pressing TUNE∧ or TUNE∨ 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
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 Button (B)
By pressing the Bluetooth Button to connect to the paired Bluetooth device.
Press and Hold the button for 2 seconds or longer to disconnect the Bluetooth device, and enter to the "pairing mode".

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

Press and hold to enter in Clock Adjust Mode and the display flashes.
Pressing the TUNE button ∧ to adjust hour.
Pressing the TUNE button ∨ to adjust minute.

Specifications

General

Power Source	:DC12V〜24V
Power Consumption	:Less than 2A
Rated Output Power	:16W + 16W(4Ω)
Normal Output Power	:14W + 14W(10%TDH, 4Ω)
Dimension	:179(w)×50(H)×91(D)mm

FM section

Receiving Frequency Range:	87.5〜108.0MHz(EU)
	87.9〜108.0MHz(USA)
Usable Sensitivity	: 3μV(S/N 30dB)
S/N Ratio	: 50dB

MW section

Receiving Frequency Range:	531〜1602kHz(EU)
	530〜1710kHz(USA)
Usable Sensitivity	:20μV(S/N 20dB)

AUX section

AUX IN	:Stereo mini jack(φ3.5),
Rated Input Power	:1V
Normal Input Power	:90mV

Bluetooth

Specification	:Ver2.1+EDR
Bluetooth Class:	Class2
	(Maximum Distance 10m)
Frequency Range:	2.4GHz〜2.48GHz
Profile	:HFP V1.5,A2DP V1.2,AVRCP V1.0

USB

Specifications:	USB2.0/1.0

Support Format
・MP3：MPEG1,2,2.5
Audio Layer 2,3
・WMA：Windows Media ™ Audio

Support File System
:FAT16/FAT32 File system
Maximum Current Supply:0.5A

Listening the radio

1. Press MODE Button to Radio mode.
2. Select the desired band FM or MW by the BAND Button.
3. Select the desired station by a ① to ⑥ button or a TUNE Button.
4. Adjust the desired volume level by the VOL+ or VOL- Button.

Manual tuning

Press the TUNE∧ or TUNE∨ 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

1. Select the desired band FM1, FM2, FM3, or MW.
2. Then search the desired station by the seek or the manual tuning.
3. Press any button (from ① to ⑥) for 3 seconds or longer.
4. The preset channel number will be indicated on the display.
5. 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 Contorol 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.

1.Press the MODE Button to select the function Bluetooth mode.
2.Enable Bluetooth on the Bluetooth device.
3.Press and hold the Bluetooth Button until the sounds connected. (tow beep sounds)
4.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.

Play audio of Bluetooth device

If you are already paired with a Bluetooth device, press the BT button to connect the Bluetooth device and this unit, and the Bluetooth LED lights up.

Press the MODE Button and select the Bluetooth Mode,
During the Bluetooth Mode, "BT" will be indicated on the display.
A beep sounds once after the Bluetooth starts tone and the Bluetooth device is connected.
When connecting a Bluetooth device, you can operate with the ① - ⑤ buttons.

     ① Previous Track(|◁◁)Button
          Return to the beginning of the current track.
          Press the button again to skip to the previous track.

     ② Play/Pause(▷|||) Button
          Pause or resume playback.

     ③Stop (☐) Button
          Music that is playing stops.

     ④ Next Track(▷▷|)Button
          Skip to the next track.

     ⑤ Repeat (⇆) Button
          invalid in Bluetooth mode.

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

In case of the irregular frequency displayed or no function, it is possible to reset the this unit to the Follow "Operation" in the table to restore factory settings.

AREA	OPERATION	DISPRAY
North America	SCAN + MODE + ③	US
Japan	SCAN + MODE + ④	JP
Asia, Oceania	SCAN + MODE + ⑤	CH
Europa	SCAN + MODE + ⑥	EU

NOTE: The radio station data in memory is saved even if the connecting cable to the vehicle is removed.

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 re-connected. 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 a 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.
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".

ESPERIA Co.,ltd.

CE

English:
Declaration of conformity
We use this model KRH-M202
In accordance with the provisions of the 1999/5 / EC and 2011/65 EU directive, we have established basic requirements and other relevant rules.

Français:
Déclaration de conformité
Nous sommes ce modèle KRH-M202
1999/5 / CE et 2011/65, conformément aux dispositions de la directive européenne, définissant les exigences de base et d'autres règlements pertinents.

Deutsch:
Konformitätserklärung
Wir sind dieses Modell KRH-M202
1999/5 / EG und 2011/65 mit den Bestimmungen der EU-Richtlinie in Einklang, die grundlegenden Anforderungen und den anderen relevanten Vorschriften zu definieren.

Italiano:
Dichiarazione di conformità
Noi siamo questo modello KRH-M202
1999/5 / CE e 2011/65 in conformità con le disposizioni della direttiva europea, che definiscono i requisiti di base e di altri regolamenti pertinenti.

Español:
Declaración de conformidad
Somos este modelo KRH-M202
1999/5 / CE y 2011/65 de conformidad con las disposiciones de la directiva de la UE, que definen los requisitos básicos y otras regulaciones relevantes.

Български:
Декларация за съответствие
Ние сме този модел KRH-M202
1999/5 / ЕО и 2011/65 в съответствие с разпоредбите на директивата на ЕС, които определят основните изисквания и другите приложими разпоредби.

Český:
prohlášení o shodě
My jsme tento model KRH-M202
1999/5 / ES a 2011/65 v souladu s ustanoveními směrnice EU, které definují základní požadavky a další relevantní předpisy.

dansk:
overensstemmelseserklæring
Vi er denne model KRH-M202
1999/5 / EF og 2011/65 i overensstemmelse med bestemmelserne i EU-direktivet, som definerer de grundlæggende krav og andre relevante bestemmelser.

Eesti::
vastavusdeklaratsioon
Me oleme seda mudelit KRH-M202
1999/5 / EÜ ja 2011/65 vastavalt sätetele Euroopa Liidu direktiivi, millega määratletakse põhilised nõuete ja teiste asjakohaste määrustega.

Seapáinis:
dearbhú comhréireachta
Tá muid an múnla KRH-M202
1999/5 / CE agus 2011/65 i gcomhréir le forálacha na treorach AE, lena sainmhínítear na ceanglais bhunúsacha agus rialacháin ábhartha eile.

Ελληνικά:
δήλωση συμμόρφωσης
Είμαστε αυτό το μοντέλο KKH-M202
1999/5 / EK και 2011/65 σύμφωνα με τις διατάξεις της οδηγίας της ΕΕ, που καθορίζει τις βασικές απαιτήσεις και άλλες σχετικές διατάξεις.

Hrvatska:
Izjava o sukladnosti
Mi smo ovaj model KRH-M202
1999/5 / EZ i 2011/65, u skladu s odredbama direktive EU, definiraju osnovne zahtjeve i druge relevantne propise.

Latvijas:
atbilstības deklarācija
Mēs esam šis modelis KRH-M202
1999/5 / EK un 2011/65 saskaņā ar ES direktīvas noteikumiem, kuros noteiktas pamatprasības un citus būtiskus noteikumus.

Lietuvių :
atitikties deklaracija
Mes šis modelis KRH-M202
1999/5 / EB ir 2011/65 pagal ES direktyvos nuostatų, apibrėžiančių pagrindinius reikalavimus ir kitus susijusius teisės aktus.

Magyar:
Megfelelőségi nyilatkozat
Mi ez a modell KRH-M202
1999/5 / EK és a 2011/65 a rendelkezéseivel összhangban az uniós irányelv, amely meghatározza az alapvető követelményeinek és egyéb vonatkozó előírásoknak.

Ġappuniż:
dikjarazzjoni ta 'konformità
Aħna dan il-mudell KRH-M202
1999/5 / KE u 2011/65 skond id-dispożizzjonijiet tad-Direttiva tal-UE, li jiddefinixxu r-rekwiżiti bażiċi u regolamenti relevanti oħra.

Nederlands:
verklaring van overeenstemming
We zijn dit model KRH-M202
1999/5 / EG en 2011/65 in overeenstemming met de bepalingen van de EU-richtlijn, het definiëren van de fundamentele eisen en andere relevante voorschriften.

Polski:
Deklaracja zgodności
Jesteśmy ten model KRH-M202
Jeden tysięcy dziewięćset dziewięćdziesiąt dziewięć piątych / WE i 2011/65 zgodnie z przepisami dyrektywy UE, określająca podstawowe wymagania oraz inne istotne przepisy.

Português:
declaração de conformidade
Nós somos este modelo KRH-M202
1999/5 / CE e 2011/65, em conformidade com as disposições da directiva da UE, definindo os requisitos básicos e outros regulamentos relevantes.

Română:
declaraţie de conformitate
Suntem acest model de KRH-M202
1999/5 / CE şi 2011/65, în conformitate cu dispoziţiile directivei UE, care definesc cerinţele de bază şi alte reglementări relevante.

Slovenskú:
vyhlásenie o zhode
My sme tento model KRH-M202
1999/5 / ES a 2011/65 v súlade s ustanoveniami smernice EÚ, ktoré definujú základné požiadavky a iné relevantné predpisy.

Slovenski:
izjava o skladnosti
Mi smo ta model KRH-M202
1999/5 / ES in 2011/65 v skladu z določbami direktive EU, ki opredeljuje osnovne zahteve in druge ustrezne predpise.

suomi:
vaatimustenmukaisuusvakuutus
Olemme tätä mallia KRH-M202
1999/5 / EY ja 2011/65 mukaisesti määräysten EU-direktiivin, jossa määritellään perusvaatimukset ja muut asiaankuuluvat määräykset.

Svenska:
Försäkran om överensstämmelse
Vi är den här modellen KRH-M202
1999/5 / EG och 2011/65 i enlighet med bestämmelserna i EU-direktivet, som definierar de grundläggande kraven och andra relevanta bestämmelser.

Icelandic:
Samræmisyfirlýsing
Við erum þetta líkan KRH-M202
1999/5 / EB og 2011/65 í samræmi við ákvæði tilskipunar ESB, sem skilgreina grunnkröfur og aðrar viðeigandi reglugerðir.

Norsk:
samsvars~~POS=TRUNC
Vi er denne modellen KRH-M202
1999/5 / EC og 2011/65 i samsvar med bestemmelsene i EU-direktiv, som definerer de grunnleggende kravene og andre relevante bestemmelser.

Türkçe:
uygunluk Beyanı
Bu modelin KRH-M202 vardır
1999/5 / EC ve 2011/65 temel gereksinimleri ve diğer ilgili düzenlemeleri tanımlayan AB direktif hükümlerine uygun olarak.

ESPERIA Co.,ltd.

FCC 15B ClassB

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 les 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).