

Owner’s manual KRH-M505 ESPERIA

12/24V DAB/DAB+/Bluetooth®/
USB/MP3/WMA/FM/MW Stereo Radio



USB



24V

12V

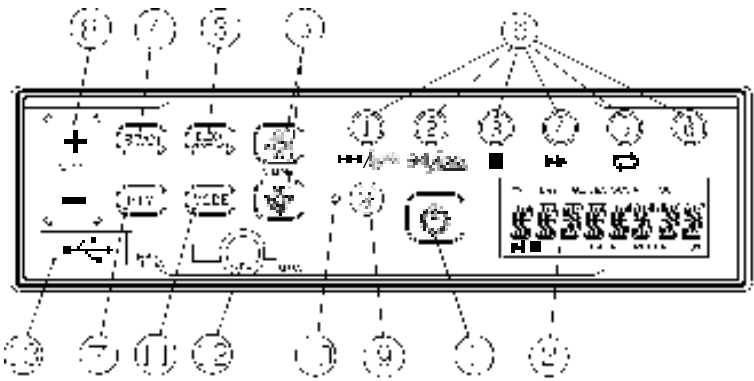
MP3/WMA

Thank you for purchasing this product.
Please read this instruction manual to the end before use so that you can fully utilize the functions of this machine and use it effectively.
After reading it, please keep it in a safe place. It is always useful if you have any questions or problems during use.
Also, if you operate the machine while driving, you may be careless in front of you and cause an accident. Therefore, be sure to stop the car in a safe place before operating the machine.

About the waterproof performance of this machine

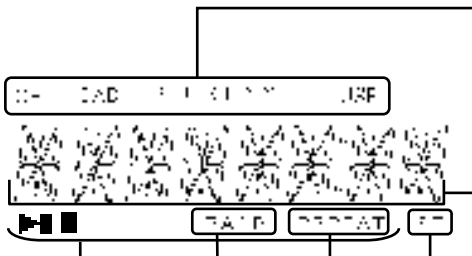
- (1)This machine is not waterproof. The front panel is drip-proof, but do not splash water directly on it. Surroundings and inside Water may get into the part and cause a fire, electric shock, or malfunction.
- (2)Make sure that the rubber cap is completely closed before use.
- (3)Do not give a shock to this machine. Damage may cause deterioration of waterproof performance.

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.
- 

Functions

CH : Radio Mode
DAB : DAB Mode
BLUETOOTH: Bluetooth Mode
USB : USB Mode

Radio Mode , Frequency,
Preset Memory/
Volume/Clock/Text

Audio Operations

※For Bluetooth Mode or USB Mode only

Bluetooth
Pairing display

For USB Mode only

FM Stereo

③ Clock [CLOCK CLOCK ADJ.] Button

While receiving radio, press the button to change the display to a clock, and press it again to display the frequency.
If you press and hold (2 seconds or more), “ADJ” will be displayed on the display, “Clock” will blink and the clock adjustment mode will be set.
In DAB mode, pressing this button will switch the LCD display.
PTY→ Frequency→ Clock→ LIST

④ Scan [SCAN] Button

In radio mode, press the button to start searching for stations and preset receivable stations. Buttons ① to ⑥ can be automatically memorized.

⑤ Tuning [ , ] Buttons

Press the [] button to increase the reception frequency by one step, and press the [] button to decrease the reception frequency by one step. (Manual channel selection)
Press the [] button for 2 seconds or longer, the frequency will automatically change to the higher side, and press the [] button for 2 seconds or longer, the frequency will automatically change to the lower side, searches for a broadcasting station, and stops when it can be received. If you want to stop in the middle press again. (Seek channel selection)

⑥ Preset Memory [①~⑥] Buttons (Bluetooth control, USB button combined)

One FM and one MW station can be preset memory for each button.
※For Bluetooth mode and USB mode operations, “Play audio of Bluetooth device” and “USB Operations” please see.

⑦ Program type [PTY] (DAB/DAB+) Button ※Broadcast target area

Select the type of station you are listening to Pop, classical, news and more.

⑧ Volume Control [VOL+ , −] Buttons

Press the [VOL+] button to increase the sound volume, press the [VOL-] button to decrease the sound volume. Press and hold to change the sound volume continuously.

⑨ Bluetooth [] Button

Press the button to connect to the last Bluetooth compatible device that has registered (Pairing). Press the button until you hear a beep, 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 [MODE] Button

Press the button to switch the operation modes as shown.

→ FM → MW → DAB → BT→ USB

In Bluetooth mode and USB mode, the display switches from frequency to clock.

⑫ Mic-IN jack(Mic In Put)

When using, open the rubber cap and connect a commercially available microphone (ϕ 3.5mm).
※Be sure to close the rubber cap when not in use.

⑬ USB Input Terminal () ※Type A

When using, open the rubber cap and connect it to the USB memory using a commercially available USB extension cable. If you cannot use the extension cable, use a short type USB memory.
※Be sure to close the rubber cap when not in use.
- Listening the DAB/DAB+
- ※Broadcast target area
- DAB is one of the digital radio broadcasting systems currently available.
It can provide digital quality sound without annoying interference or signal distortion. In addition, it can carry text and data.
(1) Turn the ignition key to ACC or ON, and press the [] button to turn on the Radio.
(2) With the [MODE] button, select DAB.
(3) Press the [SCAN] button to automatically scan and memorize the stations that can be displayed.
(4) Use the [① ~ ⑥] or [] or [] buttons to select the desired station.
(5) To turn off the radio, press the [] button.
- DAB/DAB+ Frequency Manual tuning
- ※Broadcast target area
- (1) Press the [CLOCK, clock ADJ] button to switch the LCD display.
PTY→ Frequency→ Clock→ List No,
 - (2) Select the desired broadcasting station by pressing the [] or [] button.
- DAB/DAB+ PTY Manual tuning
- ※Broadcast target area
- Select the desired program type (PTY) from the station types that can be selected by pressing the [PTY] button, and then pressing the [] or [] button to select from pop, classic, news, and so on.
- Listening the radio
- (1) Set the ignition key to ACC or ON and press the [] button to turn on the radio.
 - (2) Select the desired band FM or MW by the [MODE] button.
 - (3) Use the preset memory button or tuning button to select a channel and adjust the volume.
 - (4) To turn off the radio, press the [] button.
- Receiving FM stereo broadcasting
- When you receive an FM stereo broadcast, “ST” will appear on the display. When the reception condition deteriorates, it automatically switches to monaural with less noise and the “ST” display disappears.
- Radio Manual tuning
- Select the channel manually. Press the [] button to increase the reception frequency by one step, and press the [] button to decrease the reception frequency by one step.
- Radio SEEK tuning
- Press the [] button for 2 seconds or longer, the frequency will automatically change to the higher side, and press the [] button for 2 seconds or longer, the frequency will automatically change to the lower side, searches for a broadcasting station, and stops when it can be received. If you want to stop in the middle press again.
- Memorizing radio station to the memory
- (1) Press the [MODE] button to select FM or MW and select the desired station.
 - (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.
※If you press the button that has been preset memory for 3 seconds or longer, the preset frequency will be overwritten with the current frequency.
※You can preset memory for each FM and MW station for each button.
- Auto Store Memory
- 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.
- CAUTION: ·Auto store memory overwrites previously stored stations.
·If the desired button does not memorize, please preset it manually.
- USB Operations
- Connect a USB storage device to USB socket on the this unit.
Press the [MODE] button and select the USB mode.
(“USB” will be displayed on the display, it becomes a clock display.)
When playing back a USB memory, you can perform the following operations with the preset memory buttons ① to ⑤.
- 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
If you press the button during playback, playback will stop. When you press the play / pause [] button, the beginning of the song that was playing. Playback starts from.
 - 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. Press the repeat button again, turn off the repeat mode.
- CAUTION: ·We do not guarantee the connection with all USB memory.
·USB memory playback model is audio compression method MP3 (MPEG-1 Audio Layer3 (~192kbps)), WMA (Windows Media™Audio) , play the saved file.
·Insert and remove the USB memory in a mode other than USB mode.
·When connecting to a USB memory, use a commercially available USB extension cable. If the extension cable cannot be used Please use a short type USB memory.
·Do not connect any device other than USB memory. Smartphones cannot be charged.
·Even if the data on the USB memory is lost or damaged when used in combination with this unit, we are not responsible for the compensation. Please note that we cannot take responsibility.
- PDF
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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.

※If the microphone is not installed, this unit cannot handle calls.

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

HFP(Hands-Free Profile),A2DP(Advanced Audio Distribution Profile),AVRCP(Audio/Video Remote Control Profile)

※ 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.

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.

 ※See the instruction manual of the compatible device.

(3) Select “CAR RADIO2” with Bluetooth device.

(4) The Bluetooth LED or “PAIR” light up, and pairing is complete.

(5) If you can’t pair, press the [] button until you hear a beep. Please cancel the pairing once and pair again.

CAUTION:

- Only one pair of Bluetooth devices can be paired with this unit.
- When you turn on the power, there is a function to reconnect to the last connected device. When leaving this machine (car etc.) to prevent incorrect connection, press the [] button until you hear a beep, cancel the pairing.
- To pair again, repeat steps (1) to (5) above.
- Use Bluetooth compatible devices in a place with good visibility within about10m.

Play audio of Bluetooth device

If the Bluetooth device is already connected (the Bluetooth LED is lit or “PAIR” is displayed), press the [MODE] button to switch to the BT mode. In BT mode Bluetooth device can be operated with ①、②、④ 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.

④ Next Track [] Button

Skip to the next track.

CAUTION:

- Depending on the mobile phone model, you may not be able to go back, play, or forward.
- In case no sound is detected from this unit, please see to it that the Bluetooth compatible device music output destination is in “CAR RADIO2” please check.

Bluetooth device How to call

If the Bluetooth device is already connected (the Bluetooth LED is lit or “PAIR” is displayed), the unit is in standby mode for incoming calls.

When you receive a call, the LCD display will show “CALL IN”, the car stereo volume will be automatically muted, and the speaker will ring the phone.

- ① [] You can answer the incoming call by pressing the call start button.
- ② [] Press the button to end the call.

CAUTION:

- We do not guarantee connection with all mobile phone models.
- This unit does not have a built-in microphone for calling. A commercially available microphone (ϕ 3.5mm) is required.
- Depending on the mobile phone model, you may not be able to operate, make no sound, or make a call when receiving a call.
- After connecting to a mobile phone, if the mobile phone is set to “Bluetooth compatible device priority”, you cannot make a call.
- We recommend that you test the call you cannot make a call once before using it.

Specifications

General	Bluetooth section
Power Source : DC12~24V  negative ground	Specification : Ver.5.0
Power Consumption : 2.5A(at volume MAX, at 28.8V)	Output power : Class2
Rated Output Power : 16W + 16W(4Ω)	(Line of sight communication distance about 10m)
Normal Output Power: 14W + 14W(10%TDH, 4Ω)	Frequency Range: 2.402~2.48GHz 3.14dBm(for EU)
Dimension : 179(W)×50(H)×99(D)mm	Support Profile : HFP V1.7,A2DP V1.3,AVRCP V1.6
DAB section	USB section
Receiving Frequency Range: BANDⅢ(174.928~239.200MHz)	Specifications : USB1.0/2.0 (TypeA)
	Folder structure : 8 levels
	Support File : 65,545 Files
	Support Format :
	MP3:MPEG1 Audio Layer3
	WMA: Windows Media™ Audio
	Support File System : FAT32/FAT16 File system
	Maximum Output : DC5V / 0.5A
FM section	Mic-IN jack section
Receiving Frequency Range: 87.5~108.0MHz(EU)	Specification : ϕ 3.5mm
87.9~107.9MHz(USA)	Output voltage : DC5V
87.5~108.0MHz(ASIA)	
Usable Sensitivity : 12dBμ(S/N 30dB)	
S/N Ratio : 50dB	
MW section	
Receiving Frequency Range: 531~1602kHz(EU)	
530~1700kHz(USA)	
522~1629kHz(ASIA)	
Usable Sensitivity : 32dBμ(S/N 20dB)	
S/N Ratio : 40dB	

Trouble shooting

DAB/DAB+

Problem	Cause	Measure
DAB/DAB+ is not received.	The selected service might not be broadcasting.	Select a service currently broadcasting.

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.

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 is not recognized.	The device is damaged.	Try replacing with a different device.
	Connectors are loose.	Disconnect the USB storage device and reconnect.
	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 devices”.
Can not remotely control Bluetooth devices.	AVRCP profile is not connected.	Please disconnect all connected Bluetooth devices and pair it again according to “Pairing Bluetooth devices”.
	The connection link between devices may be broken.	Again according to “Pairing Bluetooth devices”.
	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 RADIO2”.	Please confirm that the Bluetooth device music output destination is in “CAR RADIO2”.
Bluetooth audio playback stops after incoming call.	Audio may not resume after phone interrupt.	After the call ends, please again according to “Pairing Bluetooth devices”.

Setting the Clock

- (1) Press the [CLOCK CLOCK ADJ.] button for 2 seconds or longer to enter the clock adjustment mode. (The clock display flashes.)
- (2) Press the [] button to adjust hour. Pressing the [] button to adjust minute.
- (3)The clock display will return by pressing the [CLOCK CLOCK ADJ.] button again.



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.

Slovenský :
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
2014/5 3/ 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-M505
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).

ESPERIA Co.,Ltd.

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