

User Manual

Model: SPACE 4 BASE 1.1A

Model: SPACE 4 BASE 1.1R

Regulatory compliance Inputs
for User Manual

Ready Upgrade

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1 Revision History

Version	Date	Author	Description
V1.0	07/08/2024	O. Dürrler	Creation
V2.0	19/11/2024	S. Blaschek	Add some more countries
V3.0	22/11/2024	S. Blaschek	adaption

2 Disclaimer

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Basis for this technical description are the technical functional specifications (TFS) from the responsible domains (Hardware, Tuner, etc.). These documents are the master regarding correctness. This technical description does not have to be up to date.

3 Intended usage

The SPACE4 Head unit was designed for automotive usage. It can be used in different road vehicles, agricultural vehicles and motor bikes. Therefor it will be delivered directly to our customer for factory installation within the vehicles.

The unit will not be sold directly to any end customer.

The service of the factory installed unit will be handled by our customers service garages and professional service stations.

4 Operational Description

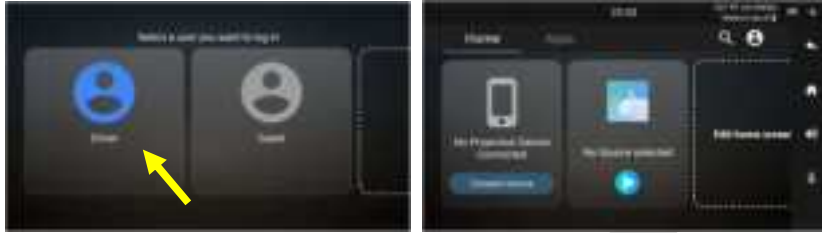
4.1 Start up SPACE 4 BASE headunit

Connect DUT to 12V power supply (power ports **VBATT(M1)/L3 12V**; **M2 GND**)

=> Headunit will start up and will show the following Display!

Power consumption of Space 4 Base HU only is about 850mA; together with RTM about 1,25A

Press on Driver



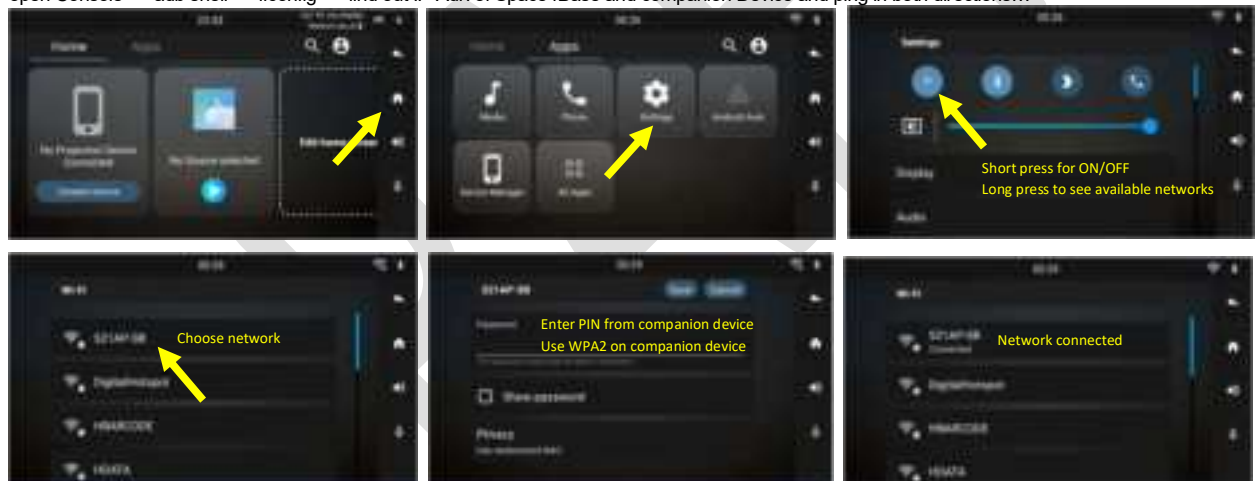
4.2 WLAN

Initiate connection => Mobile as AP & SPACE 4 BASE as Client (over the air/wired)

Settings >> WLAN => If WLAN is off make short press on WiFi to switch it on

long press on WiFi >> search for networks >> connect to network

open Console >> adb shell >> ifconfig => find out IP-Adr. of Space4Base and companion Device and ping in both directions...



4.3 BT

Press on the right menu bar on the 4 squares (compare yellow arrow below),

Settings >> BT >> Add new device => connect...



In the picture above the normal car modus was coded – you can see this because of the speaker symbol (compare blue arrow). In car mode you can only use the combined Chip for BT.

If you want to use the second/third BT-Chip you have to code the "bike-mode" – compare next chapter.

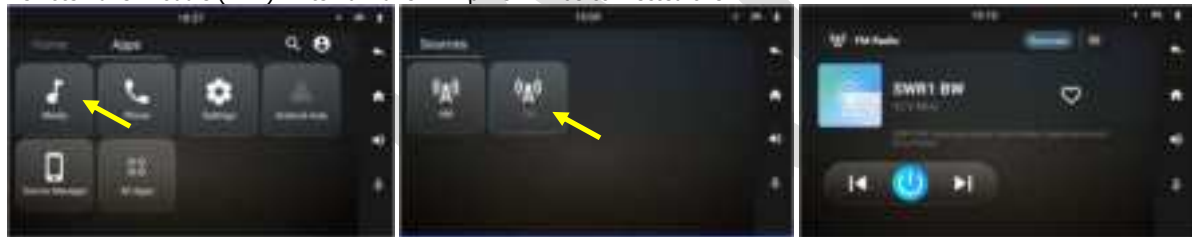
4.4 GNSS

The Space 4 Base headunit has a GNSS receiver included. Please connect GNSS antenna
=> Open Engineeringmenu app -> Navsens -> GPS



4.5 Connect external devices

Remote Tuner Module (RTM): External Tuner+Amplifier will be connected over A2B



USB:
Camera:

4.6 Enter Engineering Menue / adb shell

Engineering menue can be started as following...

within Engineering Menue you can activate adb shell

=> Open Engineeringmenu: All Apps -> systems -> Logging -> ADB Enable/Disable.



5 Certification related inputs for User Manual

5.1 Materials

Ready upgrade SPACE 4 BASE está em conformidade com os mais recentes lançamentos de directivas RoHS (2002/95/EC) e ELV (2000/53/EC), e também o regulamento REACH (CE) No. 1907/2006. Marcação de polímero partes acc. a VDA 260, respectivamente EN ISO 1043. Declaration of Conformity to RED regulation

5.2 Declaration of Conformity to RED regulation 2014/53/EU

Declaration of Conformity (DoC)



English:

Hereby, Harman Becker Automotive Systems GmbH declares that the radio equipment type **Ready Upgrade SPACE 4 BASE** is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet Address: (*1)

Bulgarian:

С настоящото Harman Becker Automotive Systems GmbH декларира, че този тип радиосъоръжение **Ready Upgrade SPACE 4 BASE** and е в съответствие с Директива 2014/53/ ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: (*1)

Spanish:

Por la presente, Harman Becker Automotive Systems GmbH declara que el tipo de equipo radioeléctrico **Ready Upgrade SPACE 4 BASE** es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: (*1)

Czech:

Tímto Harman Becker Automotive Systems GmbH prohlašuje, že typ rádiového zařízení **Ready Upgrade SPACE 4 BASE** je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: (*1)

Danish:

Hermed erklærer Harman Becker Automotive Systems GmbH, at radioudstyrstypen **Ready Upgrade SPACE 4 BASE** er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: (*1)

German:

Hiermit erklärt Harman Becker Automotive Systems GmbH, dass das Gerät mit Funkfunktion

Ready Upgrade SPACE 4 BASE der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: (*1)

Estonian:

Käesolevaga deklareerib Harman Becker Automotive Systems GmbH, et käesolev raadioseadme tüüp **Ready Upgrade SPACE 4 BASE** vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: (*1)

Greek:

Με την παρούσα ο/η Harman Becker Automotive Systems GmbH, δηλώνει ότι ο ραδιοεξοπλισμός **Ready Upgrade SPACE 4 BASE** πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: (*1)

French:

Le soussigné, Harman Becker Automotive Systems GmbH, déclare que l'équipement radioélectrique du type **Ready Upgrade SPACE 4 BASE** est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: (*1)

Croatian:

Harman Becker Automotive Systems GmbH ovime izjavljuje da je radijska oprema tipa **Ready Upgrade SPACE 4 BASE** u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: (*1)

Italian:

Il fabbricante, Harman Becker Automotive Systems GmbH, dichiara che il tipo di apparecchiatura radio **Ready Upgrade SPACE 4 BASE** è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: (*1)

Latvian:

Ar šo Harman Becker Automotive Systems GmbH deklarē, ka radioiekārta **Ready Upgrade SPACE 4 BASE** atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: (*1)

Lithuanian:

Aš, Harman Becker Automotive Systems GmbH, patvirtinu, kad radijo įrenginių tipas **Ready Upgrade SPACE 4 BASE PREMIUMPLUS** atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: (*1)

Hungarian:

Harman Becker Automotive Systems GmbH igazolja, hogy a **Ready Upgrade SPACE 4 BASE** típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: (*1)

Maltese:

B'dan, Harman Becker Automotive Systems GmbH, niddikjara li dan it-tip ta' tagħmir tar-radju **Ready Upgrade SPACE 4 BASE** huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad- dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: (*1)

Dutch:

Hierbij verklaar ik, Harman Becker Automotive Systems GmbH, dat het type radioapparatuur **Ready Upgrade SPACE 4 BASE** conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: (*1)

Polish:

Harman Becker Automotive Systems GmbH niniejszym oświadcza, że typ urządzenia radiowego **Ready Upgrade SPACE 4 BASE** jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: (*1)

Portuguese:

O(a) abaixo assinado(a) Harman Becker Automotive Systems GmbH declara que o presente tipo de equipamento de rádio **Ready Upgrade SPACE 4 BASE** and está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: (*1)

Romanian:

Prin prezenta, Harman Becker Automotive Systems GmbH declară că tipul de echipamente radio **Ready Upgrade SPACE 4 BASE** este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: (*1)

Slovak:

Harman Becker Automotive Systems GmbH týmto vyhlasuje, že rádiové zariadenie typu **Ready Upgrade SPACE 4 BASE** je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: (*1)

Slovenian:

Harman Becker Automotive Systems GmbH potrjuje, da je tip radijske opreme **Ready Upgrade SPACE 4 BASE** skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: (*1)

Finnish:

Harman Becker Automotive Systems GmbH vakuuttaa, että radiolaitetyyppi **Ready Upgrade SPACE 4 BASE** on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: (*1)

Swedish:

Härmed försäkras Harman Becker Automotive Systems GmbH att denna typ av radioutrustning **Ready Upgrade SPACE 4 BASE** överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: (*1)

(*1) <http://www.harman.com/compliance>

5.3 ECE Type Approval

The Device xyz has been reviewed in accordance with the UN/ECE R10 directive and registered with the "SNCH" authorities in Luxembourg and type approved. This is verified with the following type-approval number:

PICTURE WITH CERTIFICATION NUMBER NEEDS TO BE ADDED.

UN-ECE Regulation No. 10
Type Approval Authority: E24

5.4 Bluetooth® Qualification

Bluetooth® Qualification for SPACE 4 BASE

~~Project Name: Space 4 Base 1.1 CY89373 (PRIMARY CHIP)~~

~~Declaration ID: D068996~~

~~Project Name: Space 4 BASE 1.1 (SECONDARY CHIP)~~

~~Declaration ID: D068995~~

Project Name: SPACE 4 BASE 1.1

Declaration ID: D068994

5.5 Manufacturer

Harman Becker Automotive Systems GmbH
Becker-Goering-Strasse 16
76307 Karlsbad, Germany

5.6 Used Frequency spectrum

Bluetooth:	2400-2483.5 MHz	<10dBm
WLAN:	2,4 GHz (2400 MHz – 2483.5 MHz)	<20dBm
WLAN:	5 GHz (5150-5250 MHz, 5725 MHz – 5875 MHz)*	<20dBm <14dBm
GNSS:	1575,42 MHz +/- 2 MHz (Receiving only)	-----

5.7 FCC/ISED statements (North America)

FCC ID: T8GSPACE4B11 & IC: 6434A-SPACE4B11

Modification statement:

The party responsible for the compliance has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Le responsable de l'homologation de ce produit n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

Wireless notice:

This device complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device will be installed into different car models, agricultural vehicles and motor bikes - with different unit installation – depending on each vehicle. The Space 4 Base headunit has three antennas included. Two Antennas for BT only (used on motor bikes) and one that will be used as combined BT/WLAN antenna. The Antenna installation position is fixed inside the space 4 base headunit – for the Attached version it is located behind the TP display, for the remote version behind a plastic cover. Due to the fact, that the Antenna is behind the touch pannel display, this is resulting in a distance minor to 20 cm to passenger. (0cm with extremities and more than 2 cm with the body)

Le présent appareil est conforme à l'exposition aux radiations FCC / ISED définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) et RSS-102 de la fréquence radio (RF) ISED règles d'exposition. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

Cet appareil sera installé dans des carlines spécifiques, avec une configuration d'antenne qui, dans le pire des cas, sera à une distance 0cm avec les extrémités et plus de 2 cm avec le corps de l'utilisateur final.

CAN ICES-3 (B) / NMB-3 (B)

This Class B digital apparatus complies with Canadian ICES-003.

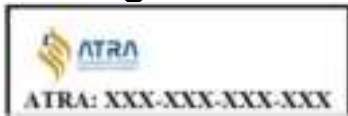
Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003.

FCC Class B digital device notice

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.

5.8 Afghanistan



CERTIFICATION NUMBER NEEDS TO BE ADDED / AFTER RECEPTION

5.9 Argentina

CERTIFICATION NUMBER NEEDS TO BE ADDED / AFTER RECEPTION



C-AAAAA

5.10 Belarus



only if not placed on the label – Exemption for small devices – Please check !!!

5.11 Brazil

CERTIFICATION NUMBER NEEDS TO BE ADDED / AFTER RECEPTION



Products subject to Resolution 680/2017:

“Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados”

(Translation: This equipment is not entitled to protection against harmful interference and may not cause interference in duly authorized systems)

Marcações do Ato 4084 (Act 4084 Marking) - Produtos para consumidor final - End user products:

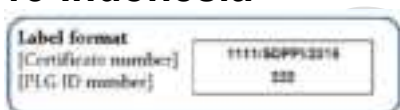
“Para maiores informações, consulte o site da ANATEL – www.anatel.gov.br”

(Translation: "For more information, see ANATEL's website - www.anatel.gov.br")

5.12 China (Mainland)

Part name	Toxic and hazardous substances and elements					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Bottom Chassis, Chassis Top, Rear Cover, Screws, Labels, Gapfiller, etc	O	O	O	O	O	O
Connectors	X	O	O	O	O	O
PCB ASY	X	O	O	O	O	O
Fan	X	O	O	O	O	O
This table was developed according to the provisions of SJ/T 11364. O: The content of such hazardous substance in all homogeneous materials of such component is below the limit required by GB/T 26572 X: the content of such hazardous substance in a certain homogeneous material of such component is beyond the limit required by GB/T 26572 (Enterprises may further explain the technical reasons for ticking "X" in the table above according to their actual situation herein.						

5.13 Indonesia



only if not placed on the label – Please check !!!

Labels for pre-installed automotive devices that are imported with the host product can be affixed to the user's manual.

5.14 Indonesia

Used Frequency spectrum in country INDONESIA

Bluetooth:	2400-2483.5 MHz	<10dBm
WLAN:	2,4 GHz (2400 MHz – 2483.5 MHz)	<20dBm
WLAN:	5 GHz (5150-5250 MHz, 5725 MHz – 5825 MHz)*	<20dBm
		<14dBm
GNSS:	1575,42 MHz +/- 2 MHz (Receiving only)	-----

Model / Product	Cert.-Label info	U/M info, QR code	U/M alert sign
SPACE 4 BASE production: Mexico			

5.15 Israel

Used Frequency spectrum and EIRP in country ISRAEL

	Frequency:	Modulation:	Max. EIRP:
Bluetooth:	2400-2483.5 MHz	FSK, 4QPSK, 8DPSK	100 mW
WLAN:	2400-2483.5 MHz	GFSK, pi/4-DPSK, 8-DPSK	100 mW
	5150-5250 MHz		40 mW
	5725-5825 MHz		25 mW
GNSS:	1575.42 MHz +/- 2 MHz (Receiving only)		

new ID of the certificate

מספר XX-XXXXX הוא התקשורת משרד של אלחוטית אישור מספר

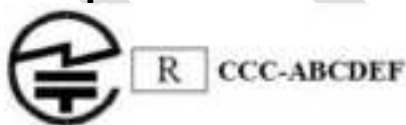
(Translation: "Wireless approval signed by the Ministry of Communication no. #ID Certificate")

CERTIFICATION NUMBER / SPACE 4 BASE 1.1A

אנטנה החלפת, תוכנה שינויי זה ובכלל, המכשיר של האלחוטיות תכונותיו את לשנות כדי בהן שיש במכשיר פעולות לבצע איסור חל "אלחוטיות להפרעות החשש בשל, התקשורת משרד אישור קבלת בלא, חיצונית לאנטנה לחיבור אפשרות הוספת או מקורית

(Translation: It is forbidden to perform operations on the device that may change the wireless features of the device, including software changes, replacement of the original antenna or adding the option of connecting to an external antenna, without obtaining the approval of the Ministry of Communications, due to the fear of wireless interference)

5.16 Japan



CERTIFICATION NUMBER NEEDS TO BE ADDED / AFTER RECEPTION

only if not placed on the label – Please check !!!

Only when it is difficult or unreasonable to set the certification label on the equipment, then it is possible to place it: In the user manual AND packaging of the device.

5.17 Japan

In order to prevent users from accidentally connecting appliances directly to telecommunications line facilities without any approval this note has to be granted:

This product cannot be connected directly to the telecommunications lines (or public wireless LANs) of any telecommunication carriers (e.g., mobile communications carriers, fixed communications carriers, or internet providers). In the case of connecting this product to the internet, be sure to connect it via a router.

5.18 Mexico declaration

Modelo: SPACE 4 BASE 1.1A

Marca: HARMAN

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada”

The warning sign must be included for devices that are not shortrange devices.

All products are not considered short range devices, because they support BT & WLAN.

In articles 16 and 17 it says that the warning and the QR must be placed in the packaging; but since the devices are integrated in the cars at the time of importing and they do not have boxes, the authority accepts to be placed in the UM.

5.19 Moldova



only if not placed on the label – Exemption for small devices – Please check !!!

It's accepted put the label into the user manual and on the packaging instead to label on the device for devices which are installed in vehicles. It is required a doc which describes where the SM mark is applied.

5.20 Morocco



only if not placed on the label – Exemption for small devices – Please check !!!

If the equipment is very small, the certification label can be placed in the user manual, but not in the packaging. For spare parts, the label in the user manual is sufficient..

5.21 Oman



only if not placed on the label – Exemption for small devices – Please check !!!

5.22 Pakistan



only if not placed on the label – Exemption for small devices – Please check !!!

It is allowed for those devices that have an integrated electronic display. It is also permitted for equipment without screen, but that can only operate in conjunction with a device that has an electronic display screen.

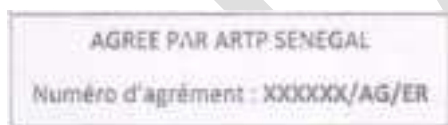
In addition, the Pakistan Telecommunication Authority has confirmed to Dekra that it is possible to provide electrical labeling on a website by providing the link in the user manual.

5.23 Samoa

The trademark will be highlighted on the packaging, warranty forms, instruction manual and leaflets, websites, and equipment or device. A height of at least 3mm is recommended.



5.24 Senegal



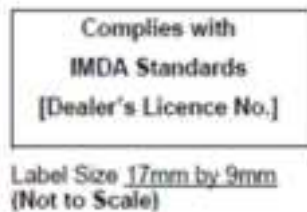
PICTURE WITH CERTIFICATION NUMBER NEEDS TO BE ADDED.

5.25 Sierra Leone



only if not placed on the label – Exemption for small devices – Please check !!!

5.26 Singapore



only if not placed on the label – Exemption for small devices – Please check !!!

The regulation does not have specific details on labelling on small equipment. However, according to the "Requirements for Telecommunications Equipment Labels and Advertisements", section 4.1 specifies the following: "In accordance with condition 8(a) of the Dealer's Class Licence and condition 12(a) of the Dealer's Individual Licence (as the case may be), a licensee shall affix the following compliance label to all registered equipment or to the instruction manual or packaging of the equipment before such equipment is displayed or offered for sale"

Furthermore, IMDA confirms that in the case of small equipment, the marking must be on the equipment or user's manual or packaging.

5.27 South Africa



only if not placed on the label – Exemption for small devices – Please check !!!

The E- label must be displayed in at least one of the following methods:

- a) During the equipment's power up sequence
- b) Under the equipment's system information page; or
- c) Under the help menu on the equipment

A written request for this alternative method must be made to the Authority prior to supply or use of the equipment in the country.

This alternative method, only could be used if it is approved by the Authority in writing after the approval of the device.

5.28 Taiwan

following information has to be included in the user's manual:

1. Product name
2. Model name
3. Trade mark or applicant name
4. For BSMI safety, rating (voltage and current) and operation temperature.
5. NCC caution statement. The following warning statement should be written in traditional Chinese.

1. 中文名稱：信息娛樂系統
2. Model 型號: SPACE \$ BASE 1.1A
3. Harman Becker Automotive Systems GmbH
4. 12V DC , 2A
5. “Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Management Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated device.”

“The operations near the radar system shall not be influenced.”

In Chinese language, the warning would be:

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」
應避免影響附近雷達系統之操作。

限用物質含有情況標示聲明書 / Declaration of the Presence Condition of the Restricted Substances
進口商/ Importer - 進口商地址 / Importer address

PICTURE WITH CERTIFICATION NUMBER NEEDS TO BE ADDED

5.29 Thailand

PICTURE WITH CERTIFICATION NUMBER NEEDS TO BE ADDED

5.30 UAE (United Arab Emirates)

The labels below have to be placed in the user manual or the packaging of the devices



PICTURE WITH CERTIFICATION NUMBER NEEDS TO BE ADDED