



# **User Instruction Manual**

## **MGU22H**

### **Infotainment System**

**Model name: MGU22H**  
**Brand: BMW**

Version: v1.0  
Date: 2022-03-19

## 1 Technical Information

### 1.1 General Hint

It is highly recommended to provide the user's manual for the different target markets in the national official language/languages. To avoid any problems in customs or during market surveillance process, it is also recommended to have the same product identification in the product label, the packaging, the user's manual and the type approval certificate.

### 1.2 Materials

**MGU22H** infotainment system 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

### 1.3 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: (\*1)

**Hungarian:**

Harman Becker Automotive Systems GmbH igazolja, hogy a **MGU22H** típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: 2014.5.22. L 153/104 Az Európai Unió Hivatalos Lapja HU: (\*1)

**Maltese:**

B'dan, Harman Becker Automotive Systems GmbH, niddikjara li dan it-tip ta' tagħmir tar-radju **MGU22H** 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 radioapparaat **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** 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 **MGU22H** överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: (\*1)

**Turkish:**

Harman Becker Automotive Systems GmbH işbu, radyo işlevli **MGU22H** cihazı 2014/53 / AB-Direktifi ile uyumlu olduğunu beyan eder. AB-uygunluk beyanının tam metnisi aşağıdaki İnternet adresinde mevcuttur: (\*1)

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

## 1.4 Used Frequency spectrum & Maximum radio-frequency power transmitted

Bluetooth:	2400 – 2483.5 MHz	<10dBm
WLAN 2,4 GHz:	2400 – 2483.5 MHz	<20dBm
WLAN 5 GHz – 5.1:	5170 – 5250 MHz	<20dBm
WLAN 5 GHz – 5.8:	5735 – 5835 MHz	<20dBm
GNSS:	1559 – 1610 MHz (Receiving only)	-----

## 1.5 Manufacturer

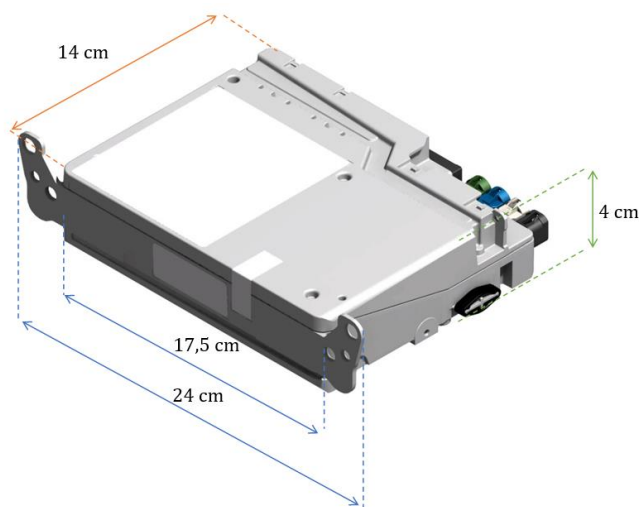
Harman Becker Automotive Systems GmbH  
 Becker-Goering-Strasse 16  
 76307 Karlsbad,  
 Germany

## 1.6 SAR

**Specific requirement for France:** From 1 July 2020, according to "Decree No. 2019-1186 relating to the display of the Specific Absorption Rate of radio equipment" (NOR: SSAP1834791D), the specific absorption rate value (SAR) for any radio equipment with an output greater than 20 mW and which is likely to be used in a reasonably foreseeable manner near the head or at a distance of less than or equal to 20 cm from the human body shall be provided in a legible, intelligible and visible manner in the user manual. This requirement is currently applicable only to mobile phone devices, according to "Decree No. 2010-1207 relating to the display of the Specific Absorption Rate of radio terminal equipment (NOR: SASP1011528D).

Note SAR exemption was assessed at 5.17 cm

## 1.7 Dimensions



## 1.8 Weight

730 gr.

## 1.9 FCC/ISED statements (North America)

**Model:** MGU22H  
**FCC ID:** T8GMGU22H  
**IC:** 6434A-MGU22H

### **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 specific carlines with an antenna configuration that as worst case will be at a minor distance of 8.68 cm from the end user.

*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.*

*Ce produit doit être installé de façon à garantir une distance minimale de séparation de 20 cm ou plus de tout corps humain*

### **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.

**Interference statement**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

*Cet appareil contient un ou plusieurs émetteurs/récepteurs exempts de licence qui sont conformes au(x) RSS exempts de licence d'Innovation, Science et Développement économique de Canada. Le fonctionnement est soumis aux deux conditions suivantes :*

- 1. l'appareil ne doit pas produire de brouillage, et*
- 2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

**1.10 Brasil****Brazil statement**

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

Para maiores informações, consulte o site da ANATEL – [www.anatel.gov.br](http://www.anatel.gov.br)

**1.11 Belarus****1.12 China****China Restriction of certain Hazardous Substances (China RoHS)**

Part name	Toxic and hazardous substances and elements					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Chassis	0	0	0	0	0	0
connectors	0	0	0	0	0	0
PCB ASY	0	0	0	0	0	0





**Pollution control label****1.13 Eurasian Economic Union (Kyrgystan, Armenia, Kazakhstan, Russian Federation)****1.14 Mexico declaration:**

Modelo: MGU22H  
Marca: BMW

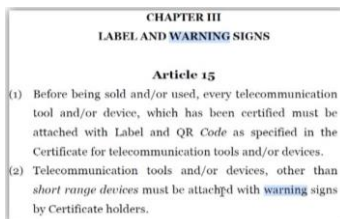
La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada”



## 1.15 Indonesia:

Model / Product	Cert.-Label info	U/M info, QR code	U/M alert sign
<b>MGU22H</b> production: Hungary	<b>XXXXX/SDPPI/YYYY</b>  <b>7163</b>		
<b>MGU22H</b> production: China	<b>WWWWW/SDPPI/ZZZZ</b>  <b>7163</b>		

The warning sign must be included for devices that are not short range devices. All MGU 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.



## 1.16 Japan MIC declaration

In order to prevent 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

### 1.17 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 Chinese:

'Any changes or modifications are not allowed. The product is subject to not cause harmful interference to radio communications and air flight safety. If this equipment does cause interference, which can be determined stop shipping till the product is improved.

This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.'

In Chinese language, the warning would be:

**警語**

低功率電波輻射性電機管理辦法

第十二條經型式認證合格之低功率射頻電機,非經許可,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。

第十四條低功率射頻電機之使用不得影響飛航影響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。

前項合法通信,指一電信法規定作業之無線電通信低功率射頻電機需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

**限用物質含有情況標示聲明書 / Declaration of the Presence Condition of the Restricted Substances**

設備名稱：n信息娛樂系統 . 型號 ( 型式 ) : MGU22H Equipment name Type designation (Type)						
單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr <sup>6+</sup> )	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers(PBDE)
金屬(上/下外殼·後面板·螺絲和標籤等等)	○	○	○	○	○	○
連接器	-	○	○	○	○	○
電路板	-	○	○	○	○	○
風扇 (Fan)	-	○	○	○	○	○

備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。  
Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.  
備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 3 : The “-” indicates that the restricted substance corresponds to the exemption.

備考3. “-”係指該項限用物質為排除項目。

**進口商 / Importer - 進口商地址 / Importer address**

Pan German Motors Ltd.  
No. 5, Apple Road, Yangmei Dist.,  
Taoyuan, 32612, Taiwan  
[leo.lu@bmw.com.tw](mailto:leo.lu@bmw.com.tw)  
Tel: +886 3 4827111 Ext. 267  
Fax: +886 3 4816979

If required in Taiwanese:  
First line is name, second the address.  
汎德股份有限公司  
台灣桃園市楊梅區蘋果路5號



# Inputs for User Manual

# MGU22H

## 1.18 Target market RoW – DEKRA summary

## 2 Labeling on Headunit

Manufactured by:  
**Harman Becker**  
 Automotive Systems GmbH  
 Becker-Göring-Strasse 16  
 76307 Karlsbad, Germany

**Model: MGU22H**  
 类型: 车载无线终端  
 Model / 型号: MGU22H  
 Power Supply / 输入: 12V ---12A  
 Manufacture / 制造商: Harman Becker Automotive Systems GmbH  
 Made in / 生产地: Hungary

**FCC ID: T8GMGU22H IC: 6434A-MGU22H**

THE PRODUCT COMPLIES WITH DHHS RULES 21 CFR  
 SUBCHAPTER J APPLICABLE TO THE DATE OF MANUFACTURE.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS  
 SUBJECT TO THE FOLLOWING TWO CONDITIONS:  
 (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND  
 (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,  
 INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

**25**  
 CMIIT ID: 20XX-YYYY  
 Homologué par l'ARPCE  
 xxxxxxxx

**BMW**  
**Bluetooth**  
**CE**

**ZICTA**  
 ZMB/ZICTA/TA/XXXX/Y/ZZ

**MCMC**  
 HIDFXXXXXXX

**BOCRA**  
 REGISTERED NO:  
 TA/20XX/XXXX

**NTC**  
 Type accepted  
 No.: ESD-XXXXXXX

**TRA**  
 REGISTERED No:  
 EA-201X-X-XXXX  
 DEALER No:  
 XXXXXX/XX

**575XX/SDPPI/2020**  
 XXXX

**ICASA** TA-XXXX/YYY  
 "APPROVED"

**RCPBMXXXX-YYYY**  
**NOM** NYCE

**R** XXX-YYYYYY  
**T** XXX-YYYYYY

**UKCA** delivery address  
 XXXXXXXXXXXXX  
 XXXXXXXXXXXXX

**TP BY**

**OMAN - TRA**  
 TRA/TA-X/YYYY/ZZ  
 DXXXXXX

**Complies with**  
 IMDA Standards  
 DXXXXXX

**ANATEL**  
 XXXXX-XX-XXXXX

**CONATEL**  
 20XX-XX-X-XXXXXX

**RoHS**

**R-CMM-**  
 XXX-YYY

**CCA** XXXXXXXXXXXXX

**Approved by PTA 2021**  
 Pakistan Telecom Authority

**Agréé par l'ANRT Maroc**  
 Numéro d'agrément: MR XXXXX ANRT XXXX  
 Date d'agrément: XX/YY/ZZZZ

**EAC**  
 XX-YYYYY (MGU22H-IL)  
 מספר אישור אלחוט של משרד התקשורת הוא  
 אסור להחליף את האנטנה המקורית של המכשיר ולא  
 לעשות בו כל שינוי טכני אחר