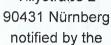
Notified Body TÜV Rheinland LGA Products GmbH

Tillystraße 2
90431 Nürnberd





Bundesnetzagentur für Elektrizität, Gas, Telekommunikation, Post und Eisenbahnen

under No. 0197

herewith issues an

EU-Type Examination Certificate

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED) for compliance with the essential requirements of this directive

Registration Number:

RT 60161836 0001

Evaluation Report Nr.:

CN20HIGO 003

Manufacturer:

F. Robotics Acquisitions Ltd.

Hatzabar St. Industrial Zone

4281500 Pardesiva

Israel

Product:

Radio Equipment

(Robotic Lawn Mower with Base Station)

Type

Identification:

Robotic Mower: RK1000 RK2000 RK1000 Pro RK2000 Pro

RK3000 Pro RK4000 Pro (Robomow)

XR5 1000 XR5 2000 XR5 3000 XR5 4000 (Cub Cadet)

Base Station: KBS-01 (Robomow, Cub Cadet)

Essential

requirements:

Article 3.2 Radio spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.

This certificate consists of this page and Annex I. Validity of the certificate is specified in the Annex I.

Date 25.02.2022

10/020 d 04.08 @ TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval

Notified Body

S. Peng

Annex 1 Certificate Registration No.: RT 60161836 0001

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Equipment

Product

: Robotic Lawn Mower with Base Station

Trademark

: Robomow, Cub Cadet

Identification

: Robotic Mower:

RK1000, RK2000, RK1000 Pro, RK2000 Pro, RK3000 Pro, RK4000 Pro (Robomow)

XR5 1000, XR5 2000, XR5 3000, XR5 4000 (Cub Cadet)

Base Station: KBS-01

Product description: It is robotic lawn mower with GPS, Bluetooth low energy and GSM function.

System description

Frequency band(s) of operation

E-GSM 900, DCS 1800, LTE 1, LTE 3, LTE 8, LTE 20, LTE 28, 2400-2483.5 MHz, 100 Hz - 148.5 kHz, GNSS band 1559 to 1610 MHz

Operating frequency

E-GSM 900: Uplink: 880-915MHz, Downlink: 925-960MHz DCS 1800: Uplink: 1710-1785MHz, Downlink: 1805-1880MHz

E-UTRA Band 1:

Transmitter 1920 1 ~ 1979.9 MHz / Receiver 2110.1 ~ 2169.9 MHz

E-UTRA Band 3:

Transmitter 1710.1 ~ 1784.9 MHz / Receiver 1805.1 ~ 1879.9 MHz

E-UTRA Band 8:

Transmitter 880.1 ~ 914.9 MHz / Receiver 925.1 ~ 959.9 MHz

E-UTRA Band 20:

Transmitter 832.1 ~ 861.9 MHz / Receiver 791.1 ~ 820.9 MHz

E-UTRA Band 28:

Transmitter 703.1 ~ 747.9 MHz / Receiver 758.1 ~ 802.9 MHz

GNSS (receiver):

1575.42 MHz, 1561.098 MHz, 1598.0625 ~ 1605.375 MHz

Bluetooth: 2402 MHz to 2480 MHz

RMI: 3 - 8 kHz

Channel spacing / bandwidth

200 kHz, 2 MHz, 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz

RF output power Robotic Mower:

E-GSM 900: 32.5 dBm ±1 dB (except for RK1000 and RK2000) DCS1800: 29.5 dBm ±1 dB (except for RK1000 and RK2000) eMTC: 23 dBm ±2dB (except for RK1000 and RK2000)

Bluetooth (LE): < 6 dBm (max. e.i.r.p.)

RMI: 73.2 dBuA/m @ 10m (Max. H-field)

Base Station:

Bluetooth (LE): < 6 dBm (max. e.i.r.p.) GMSK, 8PSK, GFSK, QPSK, 16QAM

Type of modulation Type of antenna Integral Antenna

Mode of operation (simplex / duplex)

GSM/LTE/Bluetooth: Duplex

RMI: Simplex Duty cycle (access protocol, if applicable)

Hardware version

Max. up to 100%

Mower:

625-09001B (RK1000, RK2000, XR5 1000 and XR5 2000 platform) 625-08953 (RK3000, RK4000, XR5 3000 and XR5 4000 platform)

GSM/LTE/GPS: 625-08904-04 Base Station: 625-07450A-01

Software version

Mower:

C2.56_M201.65 (RK1000, RK2000, XR5 1000 and XR5 2000 platform) C2.56_M201.66 (RK3000, RK4000, XR5 3000 and XR5 4000 platform)

BLE: 20 GSM/LTE/GPS:

37.00.213-P0C.210003

M0C 200002 P0C.210003 A0C.210000 Base Station: 20

Annex 1 Certificate Registration No.: RT 60161836 0001

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Documentation

User information and installation instructions	\boxtimes
Block diagram	
Circuit diagram	\boxtimes
Part list	\boxtimes
PCB layout	\boxtimes
Photo documentation	\boxtimes
Versions of firmware/software used	\boxtimes
Statement of compliance with art. 10.2 it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.	
Risk Analysis	\boxtimes

Conformity Assessment

Article	Standard	Test Report No.	Issued by
3.2 Radio:	EN 301 511 V12.5.1 EN 301 908-1 V13.1.1 EN 301 908-13 V13.1.1 EN 303 413 V1.1.1 EN 300 328 V2.2.2	DE2195AK 002 DE21HOU7 001 DE222R4Y 001 DE21Q3H4 001 DE22BN96 003 DE21Q5GU 002 DE227PZH 001 DE214IY8 001 DE21UZC8 001 DE22NY6B 001 DE21LMFH 001 60421195-001	TÜV Rheinland LGA Products GmbH

Applied non-harmonised standards					
Article		Standard	Test Report No.	Issued by	
3.2	Radio:	Draft EN 303 447 V1.2.0	DE21C09F 001 60416958-002	TÜV Rheinland LGA Products GmbH	

Rationale for applied non-harmonised standards or other solutions:

 EN 303 447 Short Range Devices (SRD); Inductive loop systems for robotic mowers; Harmonised Standard for access to radio spectrum

Remarks:

- This Type Examination Certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.
- This Type Examination Certificate only relates to the assessment of technical documentation to verify that the technical design of radio equipment meets the essential requirements of the RED 2014/53/EU and will not show compliance with essential requirements of other possible applicable EU Directives.
- The manufacturer has declared in compliance with art. 10.2 that the Radio Equipment can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- Validity of this Type Examination Certificate is limited to the versions of the applied standard. If versions of standards change or modifications are made to the product, this Certificate will be invalidated.