



RADAR MODULE TYPE 1

Operator's manual



Introduction

The product is a radar module including a radar sensor which is designed to be installed in a robotic lawnmower, providing it with obstacle detection and avoidance capabilities.



Object avoidance for a robotic lawn

The object detection and avoidance system consist of a radar module which detects obstacles in front of the mower so speed and/or driving direction can be adjusted to avoid collisions or minimize their impact.

Image below shows the integration of the radar module

- A) Complete robotic lawn mower
- B) Robotic lawn mower with the top cover removed
- C) Nose assembly of the robotic lawn mower
- D) Location of the radar module in the nose module
- E) Radar module



Technical data

Dimensions (mm)	92 x 86 x 28
Weight (g)	125
Conducted Output power (dBm)	9
Antenna gain (dBi)	7
Frequency (GHz)	57- 61.56GHz
Modulation	FMCW

Supplier's Declaration of Conformity

Responsible party: Husqvarna Consumer Outdoor

Products N.A., Inc, 8825 Statesville Road, Charlotte, NC
28269, Tel: +1 704 597 5000, www.husqvarna.com/us/support/e-mail/.

Compliance requirements

FCC ID: ZASHQ-RAD-1 IC ID: 23307-HQRAD1

The radar module is located in the upper chassis. It must only be accessed by an authorized service technician.

WARNING: To comply with RF exposure requirements, please maintain a separation distance of at least 20 cm/7 inches from any part of the product.

Note: Changes or modifications made to this equipment not expressly approved by Husqvarna may void the FCC authorization to operate this 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.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Note: This device complies with Part 15 of the FCC Rules and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s).

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 undesired operation of the device.

(fr)

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



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Original instructions