



User manual



Radar unit (IVS-179/Radarboard)

User manual Radar unit
version 1.0 (04.09.2024)

DOC-ID 2436 - 1

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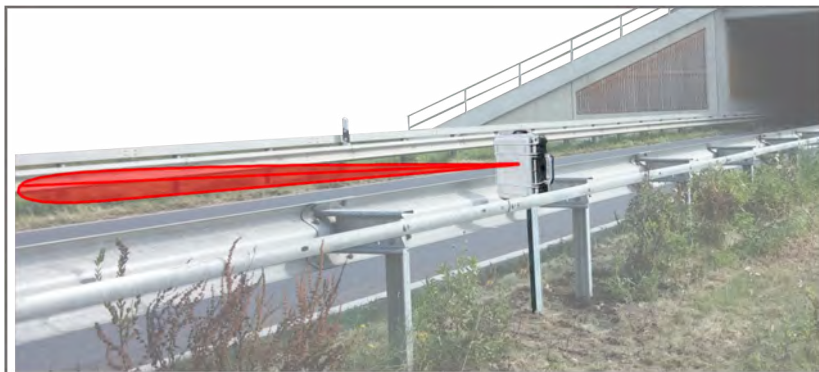
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1 User Manual

1.1 Features

- Radarbased sensor with FSK technology

The device classifies vehicles and measures their speed using Doppler radar and a microphone. Vehicles pass through the device's radar beam. It captures the vehicles and classifies them according to various criteria.



The device is equipped with FSK technology. The device also measures the intervals between incoming signals, which means it can hide reflections. As a result, the device can be installed opposite reflective surfaces, such as protective barriers and building facades.

The "Radar unit" can only be used in the TOP0.bigbox4G.



1.2 ID Label



1.3 Technical data

Technical data Radar unit	
PMN (Product Marketing Name)	Radar unit (IVS-179 / Radarboard)
Voltage	12 V DC
Power consumption (typical)	120 mA
Temperature range (ambient temperature)	-4 °F to +140 °F -20 C° to +60 C°
Frequency bands	24.075 – 24.175GHz

1.4 Regulatory and Certification Information

1.4.1 Federal Communications Commission (FCC) for US

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.
2. This device must accept any interference received, including interference that may cause undesired operation.



NOTICE

Changes or modifications made to this equipment not expressly approved by RTB GmbH & Co. KG may void the FCC authorization to operate this equipment.



CAUTION

- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.
- These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
- This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
- Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

1.4.2 Innovation, Science and Economic Development (ISED) for Canada

- English

License: IC:31624-RUIVS179

HVIN: RUIVS179

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.

- French

License: IC:31624-RUIVS179

HVIN: RUIVS179

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.
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

1.4.3 RF Exposure Information

- English

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

- French

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Ce transmetteur ne doit pas être placé au même endroit ou utilisé simultanément avec un autre transmetteur ou antenne.



<https://www.rtbsafetraffic.com/>

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