short manual

iRTT-AU

indurad RadioTransponderTag-AntennaUnit
Positioning and tracking system for industrial applications

email documentation@indurad.com version 3 date 12-Apr-22

Product description

The indurad RadioTransponderTag-AntennaUnit (iRTT-AU) is the key component of the indurad tracking system using the iRTT technology. The iRTT technology can be used for the positioning of heavy equipment, personnel, or mobile vehicles. Using of the position data enables collision avoidance between machinery and mobile equipment in 2D or 3D.
Other Application use cases include, but are not limited to, suspended load route planning for gantry cranes, yard machinery collision avoidance, passenger presence detection, and operational optimization through location data collection and analysis.

Intended Use of the Product

The iRTT-AU can be mounted to machinery and infrastructure in indoor and outdoor in the above-mentioned application cases. Its main use is to be a localization *Anchor*, of known location, relative to which other iRTT devices can be positioned. For mobile machinery it can be used as a *Tag* at the same time, allowing other iRTT installations to derive its position.

Installation and Operation Procedures

The iRTT-AU is part of a customer-specific system. A separate user manual for the whole system is provided according to the customer project's requirements. No configuration is available to the end-user and any use other than specified in the user manual is prohibited.
Installation, commissioning and maintenance must only be performed by specifically trained personnel appointed by indurad GmbH.
indurad GmbH ensures during commissioning that Wideband transmission is only enabled for devices that are mobile.

Regulatory Information

FCC ID: 2AJRSIRTTAU **IC: 21407-IRTTAU**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s) and 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 of the device.

Changes or modifications made to this equipment not expressly approved by indurad GmbH may void the FCC authorization to operate this equipment.

Radiofrequency radiation exposure Information:
The radiated output power of the device is far below the FCC and ISED radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized.

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.The iRTT-RU is part of a customer-specific system. A separate user manual is provided according to the customer project's requirements. Please refer to the project specific manual for instructions.

Les changements ou modifications apportés à cet équipement non expressément approuvés par indurad GmbH peuvent annuler l'autorisation FCC d'utiliser cet équipement.

La puissance de sortie rayonnée de l'appareil est bien inférieure aux limites d'exposition aux radiofréquences FCC et ISED. Néanmoins, l'appareil doit être utilisé de telle manière que le potentiel de contact humain pendant le fonctionnement normal soit minimisé.

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