



Ciholas PT321

Users Manual

FCC ID: 2ALIR-PT321
IC:26788-PT321

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Introduction

The PT321 is a portable tag (PT) that is intended for use with Ciholas UWB (CUWB) Real Time Location Systems (RTLS). The PT321 relies on ultra-wideband (UWB) pulses and time-stamp information to determine real-time location tracking data. The PT321 transmits UWB beacons and co-exists with other devices on a UWB network. The PT321 devices are placed on any object of interest within the operational area in order to locate and track that object. The PT321 is a medium sized and versatile, and can be attached to a variety of surfaces. This makes the PT321 device an ideal solution for fast and accurate real-time-location tracking. The PT321 receives power from an internal battery that can be replaced by the user.

Regulatory Information

United States (FCC) Regulatory Information

FCC ID: 2ALIR-PT321

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 undesired operation.

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 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.

Changes or modifications not expressly approved by Ciholas, Inc. can void your authority to operate this equipment under Federal Communications Commission rules.

Operation on board an aircraft, ship, or a satellite is prohibited. Devices operating under this section may not be employed for the operation of toys.

The use of a fixed outdoor infrastructure is prohibited. A fixed infrastructure includes antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole.

UWB devices operating under the provisions of 15.519 may operate indoors or outdoors.

Radiation Exposure Statement:

The device has been found to be exempt from SAR under KDB 447498 D01 v06 Section 4.3.1.
This device may be used in an uncontrolled environment.

Canada (ISED) Regulatory Information

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CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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.

Applicable rules: RSS-220

Déclaration relative à l'exposition aux rayonnements:

L'appareil est exempté du DAS en vertu de la norme KDB 447498 D01 v06, section 4.3.1, et de la norme RSS-102 d'Industrie Canada. Cet appareil peut être utilisé dans un environnement non contrôlé.

Radiation Exposure Statement:

The device has been found to be exempt from SAR under KDB 447498 D01 v06, section 4.3.1, and Industry Canada RSS-102 Section 6. This device may be used in an uncontrolled environment.

Usage Instructions

Overview

The battery powered PT321 transmits UWB beacons allowing for real-time location calculation. Tag beacon rates can be programmed depending on the number of other active tags in a tracking area. The PT321 devices are placed on any object of interest within the operational area in order to locate and track that object.

Placement

The PT321 devices are versatile and can be attached to a variety of surfaces and objects. PT321s can be worn on the human body with additional accessories. PT321s can also be attached to an object of interest.

Battery Replacement

The PT321 receives power from an internal battery that can be replaced by a user. The PT321 supports either a primary CR123/CR123A battery or a 16340 rechargeable battery.

The PT321 does not support battery charging. If using a rechargeable battery, the battery will need to be removed to be charged separately, following specific charging guidance from the battery manufacturer.

Using a primary CR123/CR123A battery may lessen available runtime time.

Batteries & Shipping

Batteries are not installed prior to shipping. If shipping a device, remove the battery and follow applicable shipment regulations for the battery.

Additional Guidance for Use:

1. Upon receiving the PT321, insert the battery into the battery compartment.
2. Configure the device into the RTLS system via the CUWB RTLS software
3. Attach device to tracking object and enter the tracking area
4. Replace the battery for the device as necessary

Please contact Ciholas for additional guidance based on application and for the CUWB RTLS software. Additional information on how to use the CUWB Real Time Location System available at CUWB.IO.

PT321s are only available for use with Ciholas RTLS. Not compatible with other UWB devices or RTLS from other manufacturers.