



SmartWave
Technologies



B01-010A
User Manual
Revision 1.4

July 30, 2025

NOTICE TO READERS

This document contains proprietary
information which is the property of

SMART WAVE TECHNOLOGIES CORP.

CONFIDENTIAL

Except for the right expressly granted in writing, this document may not,
in whole or in part, be duplicated or disclosed without the prior written
permission of Smart Wave Technologies Corp.

TABLE OF CONTENTS

TABLE OF CONTENTS	3
Product Description	4
Product installation	4
Product operation.....	4
Regulatory Information	5

PRODUCT DESCRIPTION

The B01-010A is a bait station snap trap detection device used to indicate whether the trap is in an open or closed state and to assign a timestamp for when the trap is detected as closed. The device uses a hall sensor to determine if the trap is closed utilizing a magnet in the trap housing. The device is equipped with LoRaWAN capabilities to provide direct device-to-cloud connection through a configurable heartbeat interval.

PRODUCT INSTALLATION

The B01-010A is installed in a plastic housing and sonically welded to provide complete protection from the various installation environments and rodents. A CR123 battery must be connected to the B10-010A before installation into plastic housing

PRODUCT OPERATION

Once powered, the device will stay in a deep sleep state and the snap trap will be in a closed (un-provisioned state). Opening the snap trap for 5s will wake the device up and it will attempt to join a LoRaWAN network (provisioned state).

Un-provisioning a device can happen in two ways. First, a downlink LoRa payload can configure the unit back to un-provisioned state and the unit will go back to deep sleep.

The second way is to open and close the trap 10 times within 20 seconds, this will cause the unit to change to the un-provisioned state and the unit will go back to deep sleep.

REGULATORY INFORMATION

CANADA

ISED Regulatory Statements

IC: 24934-B01010A

HVIN: B01-010A

Description: TRex iQ LoRa

PMN: Bell iQ LoRa

ISED non-interference disclaimer

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

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.

RF Exposure statement

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the radiator and any part of your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux radiations ISED CNR-102 établies pour un environnement non contrôlé. Une distance de séparation d'au moins 20 cm doivent être maintenue entre l'antenne de cet appareil et toutes les personnes. Lanceurs ou ne peuvent pas coexister cette antenne ou capteurs avec d'autres.

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

Regulatory information in the App can be accessed from the main screen (Dashboard) by performing the following steps:

- (1) Access the Site Menu (upper left corner of the App screen)
- (2) Select "About Us" from the Site Menu
- (3) Tap the button labeled "Regulatory"

USA

FCC Regulator Statements

FCC: 2ASYW-B01010A

Model number: B01-010A

Model name: Bell iQ LoRa

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Compliance Statement

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.

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. Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.

NOTICE:

End user must include the following on the label of the end product

FCC ID: 2ASYW-B01010A

IC: 24934-B01010A

This is the Last Page of this Document