



USER **MANUAL**

LX700W
FCC ID: 2A2O3-LX700W
IC: 27547-LX700W



TECHNOLOGY	FREQUENCY	MAXIMUM RADIO FREQUENCY POWER
GNSS	1575MHz	NA
Bluetooth	2.4GHz- 2.48GHz	+8dBm
Satellite	1610MHz- 1620MHz	+27dBm

USA – FCC



FCC ID: 2A2O3-LX700W

Part 15.19

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.

Federal Communications Commission (FCC) Statement

Part 15.105(b)

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.



Part 15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.
FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

CANADA - IC

IC



IC: 27547-LX700W

PMN (Product Marketing Name): Ceres Tag
Canadian Notice

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, and
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, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Attention: exposition au rayonnement radiofréquence

1. Pour se conformer aux exigences de conformité RF canadienne l'exposition, cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.
2. Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.



APPLICATION INSTRUCTIONS



HOW TO APPLY TAGS

PRECAUTIONS

- Do not use existing ear tag holes. Application of the Tag in these existing holes could lead to damaging the ear.
- Tag pins are sharp. Please exercise caution when handling.
- The Smart Applicator is designed only for the use of application of the tag.
- The Tags are Smart Tags and requires the Smart Applicator.
- For Ceres Trace and Ceres Wild Products only

If you have any further queries, please visit our FAQ page cerestag.com/faq

HOW TO APPLY TAGS



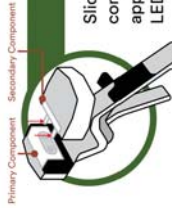
BEFORE APPLICATION

- Before Activating ensure the Tag is fully charged.
- Fully charge tags for 3 full days in direct sunlight. (or up to a week in cold climates)
- Use the Practice (Red) Tag to ensure the rubber grips are seated correctly for alignment.



STEP 1

- Dip or spray the secondary component with sterilising solution.
- Use antiseptic solution and recommended dilution.
- Failure to do so may cause irritation.



STEP 2

- Slide the primary component: into the applicator so that the red LED light flashes.
- Slide secondary component: into the applicator, ensuring the pins face towards the two (2) hole side of the primary component.
- The flashing LED light indicates activation.





STEP 3

Apply Tag to an ear with no other tags for optimal application.

If another tag is present, ensure the tag has sufficient space for the application not to be impeded.

The correct position is with the primary component on the outside of the ear and the secondary component is visible on the inside of the ear.



STEP 4

On the right or left ear (depending on the regulatory requirements) locate the correct position to insert the Tag, in the middle area of the ear where the thickness is most uniform and between the two visible cartilage (tendons).

Squeeze the trigger until there is an audible click. Tip: check that both pins have engaged.



STEP 5

To release the Tag from the Applicator, release the applicator trigger, pull down and away.



DONE

Congratulations! Your Tag is now applied and active.

To view your data log into your software provider.



APPLICATION INSTRUCTIONS VIDEO

APPLICATION TRAINING VIDEO



SCAN TO WATCH



cerestag.com/application-instructions

The steps involved in discovering, connecting to, and upgrading a Ceres Tag device over the air (OTA).

Important

Steps outside discovering, connecting to, and upgrading a Ceres Tag device OTA are not included in this procedure.

Install & Configure Application on phone

NOTE: It is preferable to do this on an **Android** phone, as the UUID that is advertised by the devices is obfuscated by an iPhone before being displayed, whereas using an Android, the UUID displayed will match the BTMac address of the device so you can correlate it to the TagDetails.

Download and install the nRF Connect Application from Google Play or Apple Store.

nRF Connect for Mobile:

<https://www.nordicsemi.com/Products/Development-tools/nRF-Connect-for-mobile>

Discover and connect to device

Once installed, you can use the application to discover any Ceres Tag devices within Bluetooth range. On an Android device will be able to identify them by their BTMac address.

If you are using an iOS device, you will not be able to cross check this, but you will still be able to see and connect to devices in range.

Upgrade device

Once you have been able to see and connect to a device, you can now upgrade it.

1. You should have been provided with a .bin file, copy this to your phone.
2. Scan for devices using nRF connect
3. Create a GATT connection to the device you want to upgrade by clicking "Connect"
4. Go to the DFU tab
5. Select the .bin file as the upload image
6. Click "start" and wait for the progress to complete

The upload process will take about 2 minutes, the closer your phone is to the device the faster this will be and the less likely it is to be interrupted.

Access to the latest Tag Binary file:

<https://cerestag.atlassian.net/wiki/spaces/CS/pages/2298675213/4.+Latest+Tag+Binary+file>