



## PLI Star Bracelet

30 Jan 2020

The Star bracelet has a robust slim housing that is permanently sealed and waterproof. It is located by polling the bracelet with a unique ID code.

Each Star bracelet has a unique Star ID. There can be 1000's of bracelets in the same area and only the one being searched for will respond and be located. There is an unlimited number of unique Star IDs available.

It works with standard PLI wrist straps.



The internal lithium coin cell provides 30 days of battery life, if left in the dark. The battery remains fully charged with 8 hours of daylight per month.

For clients that remain indoors, or have little exposure to sunlight, the Star bracelet needs to be recharged once per month, perhaps while changing the strap. A household LED light bulb works perfectly for charging. A daylight colour 500 lumen bulb, placed 2 inches above the solar panels on the top of the Star bracelet will charge the battery fully in 8 to 10 hours. Do not use an incandescent or halogen lamp, as the heat will harm the PLI Star bracelet.

The Star System does not use cellular or wifi networks. The Star System is independent of infrastructure.

Unless the Star bracelet is being actively searched for, it does not transmit any signals. The Star bracelets remain dormant and do not radiate any power. This is important for air travel. There are also no concerns with radiated energy close to the human body, as there are no transmitted signals.

It is impossible for anyone to eavesdrop or locate the Star bracelet, unless they have the Star System hardware and know the unique Star ID of the bracelet. This provides security and peace of mind.

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## Prior to First Use

The PLI bracelet has a unique ID code. Your local PLI agency will have a record of this number. The number is laser etched on the back of the housing, above the metal contacts. It is recommended to record this number and keep it in a safe place. The format is x.x.x.x. For example 10.3.0.122

The bracelet should be fully charged prior to use. This can be done by connecting the external charger or by leaving the solar cells exposed to direct sunlight for 8 hours.

## Cleaning and Maintenance

The PLI bracelet is permanently sealed and fully waterproof. You can clean the bracelet in warm soapy water if need be. The bracelet housing is polycarbonate (Lexan). It is not recommended to use any harsh chemicals, solvents, or abrasive materials to clean the bracelet.

Make sure to keep the solar cells on the bracelet clear of stickers. They need to be exposed to sunlight to charge in the internal battery.

The bracelet is maintenance free. There are no service requirements.

## Battery Charging

In most cases the internal battery will be kept charged by the solar cells. 15 to 20 minutes of direct sunlight per day will keep the batteries fully charged. This is 8 hours of sunlight per month.

In some cases the solar charging is not feasible. For example, if the client does not spend time outdoors, or if the client always has clothing covering the solar cells. In these cases the PLI bracelet can be removed once per month a left outdoors in full sun, or placed under an LED houselight for 8 hours. The recommended bulb is a PAR20 50W equivalent LED bulb. Do not use halogen or incandescent bulbs. Place the top of the PLI bracelet 2 to 3 inches from the bulb for optimum charging.

An alternative to the solar charging is to use the slip-on charger. This charges the internal battery in 60 to 90 minutes, from fully discharged. The charger also shows the battery level in the PLI bracelet when it is first slipped over the bracelet. It is possible to charge for 3 minutes each day, or 15 to 20 minutes per week and keep the bracelet's battery fully charged.

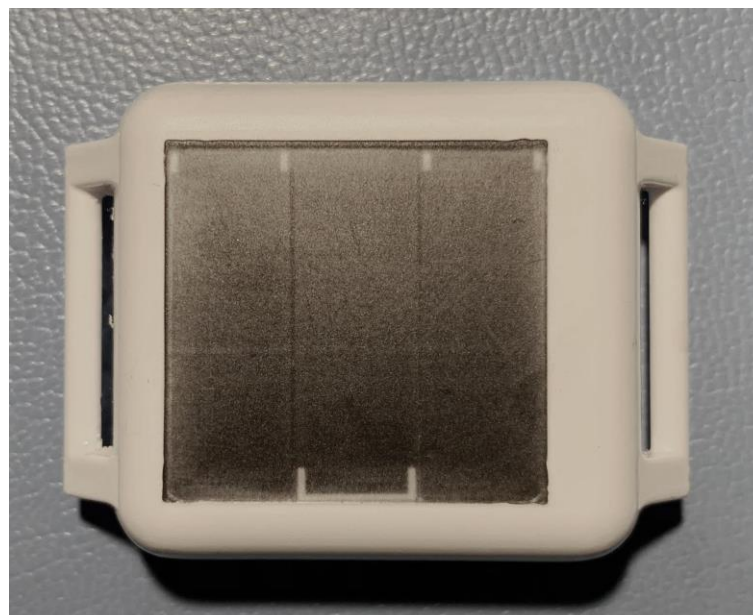
## Safety and Air Travel

The PLI bracelet does not transmit in normal use. Only when it is being actively searched for, will it generate a radio signal. It must be in range of the trained PLI searchers for it to respond during an active search.

Due to the listen-only nature of the PLI bracelet, it is perfectly safe for air travel.



Bottom View of PLI Bracelet, Showing Laser Etched FCC and IC Markings



Top View of PLI Bracelet, Showing Solar Cells for Battery Charging

## United States - FCC

FCC Part 15.19 Warning Statement- (Required for all Part 15 devices)

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 UNDESIRE OPERATION.

FCC Part 15.21 Warning Statement-

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC Part 15.105(b) Warning Statement- (ONLY Required for 15.109-JBP devices)

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 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.

**Canada - IC**

This device complies with Industry Canada license-exempt RSS standard(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.

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