



## PowerTag Operation Manual





Note: 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.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

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.

FCC ID: 2AY2BGPT1

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# Theory of Operation

Your PowerTag is a digital radio transmitter that features a unique identifier. No two tags will ever have the same identifier, allowing multiple projects and species to be tracked simultaneously, worldwide, without overlap in transmitter codes.

Your PowerTag can also be received by a growing distributed network of autonomous sensors collecting data from all wildlife transmitters, around the world! Your PowerTag is designed to be received by a variety of methods:

CTT Internet of Wildlife devices:

- *CTT SensorStation* base station products
- *CTT Locator* portable receiver products
- The forthcoming (Q4 2021) *Terra*, a direct-to-consumer citizen science product.

And a global collaborative scientific platform:

- The *Motus Wildlife Tracking System* (hereafter Motus Network), operated by *Birds Canada*
- *Any other CTT SensorStation in operation*

When your PowerTag signal is received on a CTT Internet of Wildlife™ device, or via the Motus Network, the exact date, time, unique identifier, and signal strength will be recorded. To learn more about our products, and future products, visit: [www.CellTrackTech.com](http://www.CellTrackTech.com).

# Attachment

Because the attachment process is unique depending on animal species, it is advised to contact one of our Wildlife Application Specialists at Cellular Tracking Technologies at [support@celltracktech.com](mailto:support@celltracktech.com).

While attachment may vary, here are some key points to remember:

1. Never trim the antenna, as its length is both dependent on top performance as well as FCC certification of the device.
2. When possible, keep the body of the animal away from the antenna, as this will affect the range and efficiency of the antenna.
3. Range will vary depending on the height of the animal. For example, a bird in flight will have much further line-of-sight than an animal crawling on the ground.
4. Water dwelling animals will need to have the antenna above the surface of the water in order to operate most effectively.

# Contacting Us

If you have any questions, you can contact us in the following ways:



[sales@CellTrackTech.com](mailto:sales@CellTrackTech.com)



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## Notes

## My Tag IDs

FC

