

# International Shipping Compliances

---

This guide will give you all the essential information needed for traveling and shipping Wildlife Computers lithium-ion tags.

## Table of Contents

IATA Regulations.....	3
Packaging Requirements.....	3
Battery Isolator Screw .....	5
Traveling on an Airline with Tags .....	5
Dangerous Goods.....	6
Glossary of Terms.....	6
Contacting Wildlife Computers.....	7



## IATA Regulations

According to IATA, small lithium metal batteries contained within equipment are eligible for transport on passenger aircrafts. Small lithium metal batteries are defined as:

- <1 g of lithium metal per cell
- <2 g of lithium metal per battery
- <5 kg net weight of batteries in the package

## Packaging Requirements

No special markings are required for air transit of “small” batteries contained in equipment in quantities of less than four cells or less than two batteries per package.

The following markings and forms are required for packages with more than four cells or more than two batteries per package:

1. Lithium battery caution label containing UN packaging classification number UN3091
  - a. ***If it isn't on the sticker, please write the following next to it: UN3091, PI 970, Section II***
2. Informational document stating the following—“ UN3091, PI 970, Section II. This package contains lithium metal cells or batteries. The package must be handled with care and a flammability hazard exists if the package is damaged. Special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary.”
3. The Wildlife Computers telephone number—+1 (425) 884 3048—in case there are any shipment issues or questions.
4. **If sending via UPS only ([UPS Lithium Battery Instruction Guide](#)), a [Lithium Battery Safety form](#) is required. See example below.**



Figure 1—Lithium battery caution label

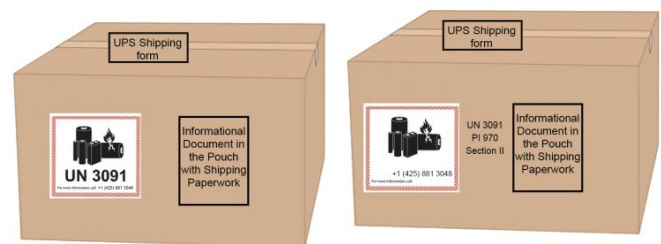


Figure 2—Markings required for shipping small lithium metal batteries contained in equipment. Label on the left with UN number, label on the right label without UN number

**UPS Customer Center—Lithium Battery Safety Document for Air and Ground Packages**

**WARNING:** LITHIUM BATTERIES THAT HAVE BEEN RECALLED BY THE MANUFACTURER FOR SAFETY REASONS **MUST NOT BE SHIPPED BY AIR.** MEDIUM LITHIUM BATTERIES **MUST NOT** BE SHIPPED BY AIR.

Terminology:

- Cell – *electrochemical unit, consisting of an anode and a cathode, capable of generating electrical current*
- Battery – *assembly of cells*
- Lithium ion cells/batteries – *generally rechargeable – includes lithium polymer cells/batteries*
- Lithium metal cells/batteries – *non-rechargeable*

This shipment contains lithium cells or batteries in the following configuration (check applicable description):

<i>Air and International Packages</i>	
<i>Small Lithium Ion – Maximum of 20 Watt-hours (Wh) per cell or 100 Watt-hours per battery</i>	<i>Small Lithium Metal – Maximum of 1 gram of lithium metal per cell or 2 grams of lithium metal per battery</i>
<input type="checkbox"/> <b>Contained in equipment:</b> More than 4 cells or 2 batteries installed in electronic equipment with no other batteries in the package. (Less than 4 cells or 2 batteries, no special documents or labels required) <input type="checkbox"/> <b>Net Weight of batteries is less than 5 kg (11 LB).</b>	<input checked="" type="checkbox"/> <b>Contained in equipment:</b> More than 4 cells or 2 batteries installed in electronic equipment with no other batteries in the package. (Less than 4 cells or 2 batteries, no special documents or labels required) <input checked="" type="checkbox"/> <b>Net Weight of batteries is less than 5 kg (11 LB).</b>
<input type="checkbox"/> <b>Packed with equipment:</b> No more than 8 cells or 2 batteries in a package with electronic equipment, but not installed in the electronic equipment. <input type="checkbox"/> <b>Net Weight of batteries is less than 5 kg (11 LB).</b>	<input type="checkbox"/> <b>Packed with equipment:</b> No more than 8 cells or 2 batteries in a package with electronic equipment, but not installed in the electronic equipment. <input type="checkbox"/> <b>Net Weight of batteries is less than 5 kg (11 LB).</b>
<input type="checkbox"/> <b>Cells or batteries only:</b> Cells or batteries in a package, without equipment. No more than 2 batteries or 8 cells allowed. However, only one package to a single consignee per day is allowed to be shipped under ICAO rules. Batteries must have less than a 30% state of charge when shipping international via air. Forbidden on passenger aircraft; requires “Cargo Aircraft Only” label. **OR** <input type="checkbox"/> <b>Cells or batteries of less than 2.7 Wh. Net Weight of batteries is less than 2.5 kg (5.5 LB).</b> Batteries must have less than a 30% state of charge when shipping international via air. Forbidden on passenger aircraft; requires “Cargo Aircraft Only” label.	<b>Warning:</b> Cells or batteries <b>only:</b> Lithium Metal cells or batteries in a package without electronic equipment are <b>not allowed</b> to be shipped by air through UPS Customer Centers.
<i>Ground Packages Only (Do not upgrade to air) (Excluding AK, HI, PR or any destination served by air)</i>	
<i>Small Lithium Ion – Maximum of 20 Watt-hours (Wh) per cell or 100 Watt-hours per battery</i>	<i>Small Lithium Metal – Maximum of 1 gram of lithium metal per cell or 2 grams of lithium metal per battery</i>
<input type="checkbox"/> <b>Contained in equipment:</b> Batteries or cells installed in electronic equipment with no other batteries in the package. (Less than 4 cells or 2 batteries, no special documents or labels required)	<input type="checkbox"/> <b>Contained in equipment:</b> Between 4 cells and 8 cells installed in electronic equipment with no other batteries in the package. (Less than 4 cells or 2 batteries, no special documents or labels required)
<input type="checkbox"/> <b>Packed with equipment:</b> Cells and batteries in a package with electronic equipment, but not installed in the electronic equipment.	<input type="checkbox"/> <b>Packed with equipment:</b> Cells and batteries in a package with electronic equipment, but not installed in the electronic equipment.
<input type="checkbox"/> <b>Cells or batteries only:</b> Cells or batteries in a package without equipment. <input type="checkbox"/> <b>Gross package weight no more than 30 kg (66 LB).</b>	<input type="checkbox"/> <b>Cells or batteries only:</b> Cells or batteries in a package without equipment. <input type="checkbox"/> <b>Gross package weight no more than 30 kg (66 LB).</b>
<i>Medium Lithium Ion – Maximum of 60 Watt-hours per battery 300 Watt-hours per battery</i>	<i>Medium Lithium Metal – Maximum of 5 g lithium metal per cell or 25 g lithium metal per battery</i>
<input type="checkbox"/> <b>Lithium ion batteries all configurations:</b> Cells >20 and ≤ 60 watt hours or Batteries > 100 and ≤ 300 Watt Hours <input type="checkbox"/> <b>Gross package weight no more than 30 kg (66 LB).</b>	<input type="checkbox"/> <b>Lithium metal batteries all configurations:</b> Cells >1 and ≤ 5 grams or Batteries > 2 and ≤ 25 grams Lithium Metal <input type="checkbox"/> <b>Gross package weight no more than 30 kg (66 LB).</b>

- Determine if you intend to ship via air and/or ground
- This package must be handled with care. A flammability hazard exists if the package is damaged.
- If this package is damaged in transportation, it must not be loaded until the condition of the contents can be verified. The batteries contained in this package must be inspected for damage and may only be repacked if they are intact and protected against short circuits.
- For more information about the batteries contained in this package, call the following telephone number:

**+1 (425) 881-3048**

List telephone number here, including area code and any applicable country code



## Battery Isolator Screw

Nearly\* all of Wildlife Computers tags fit into the small lithium metal battery shipping category. Even tags with ample battery power are compliant because of the battery isolator screw.

Tags with the isolator screw are shipped with the majority of power cells disconnected. Then, once they arrive at their destination, the screw is inserted which links the individual cells together creating one larger battery.

After connecting the batteries, the tags are classified as Dangerous Goods and must be shipped accordingly unless the screw is removed.

## Traveling on an Airline with Tags

IATA classifies a PED (Portable Electronic Device) as any piece of lightweight, electrically-powered equipment. These devices are typically consumer electronic devices capable of communications, data processing and/or utility. Up to 15 PEDs, or possibly more if approved by the airline, can be transported on passenger aircraft if they meet the Watt-hour and lithium metal content requirements below.

Nearly\* all of Wildlife Computers tags meet the requirement of <100Wh capacity and <2g of lithium provided the battery isolator screw is not inserted. For further information contact your Wildlife Computers representative.

**Note: If travelling with tags, it is advised that you check with the individual carrier on its criteria and rule. Please see the [Lithium Battery Passenger Pamphlet](#).**

\*Please check with your Wildlife Computers technical consultant for information on your specific tag.

Carriage of portable electronic devices (PED), portable medical electronic devices (PMED) and spare batteries by passengers is dependent on the Watt-hour (Wh) rating for lithium ion (rechargeable) batteries or the lithium metal content for non-rechargeable batteries.

Use the below table to determine if your PED, PMED or spare battery(ies) can be carried.

Wh rating or lithium metal content	Configuration	Carry-on baggage	Checked baggage	Operator approval
≤ 100 Wh / 2g	In equipment (PED or PMED)	Yes (max 15 PED/PMED <sup>1</sup> )	Yes	No <sup>1</sup>
	Spare battery(ies)	Yes (max 20 spare batteries <sup>2</sup> )	No	No <sup>2</sup>
>100 to ≤160Wh	In equipment (PED or PMED)	Yes	Yes	Yes
	Spare battery(ies)	Yes (max 2 spare batteries)	No	Yes
>160Wh	Must be prepared and carried as cargo in accordance with the IATA Dangerous Goods Regulations			
> 2g ≤ 8g	In equipment (PMED only)	Yes	Yes	Yes
	Spare batteries for PMED	Yes (max 2 spare batteries)	No	Yes

1. Each person is limited to a maximum of 15 PED. The operator may approve the carriage of more than 15 PED.  
2. Each person is limited to a maximum of 20 spare batteries of any type. The operator may approve the carriage of more than 20 batteries.



## Dangerous Goods

IATA classifies tags with more than two grams of lithium as Dangerous Goods. Shipping regulations apply in accordance with UN #3091, Class 9, Section I, Packing Instructions 970.

Certain countries and couriers may have additional regulations beyond the IATA requirements. It is the shipper's responsibility to ensure the shipment meets current [IATA](#), and the courier's current requirements.

## Glossary of Terms

- IATA—International Air Transport Association
- Cell—electrochemical unit, consisting of an anode and cathode capable of generating electrical current
- Battery—assembly of cells
- Lithium Ion—rechargeable (solar charging tags)
- Lithium Metal—non-rechargeable (most Wildlife Computers marine tags)

## Contacting Wildlife Computers

### U.S. and International

Members of the Wildlife Computers technical sales and support team are located in Redmond, WA, USA, and Havelock North, New Zealand, allowing us to cover promptly a wide range of time zones.

### Mailing and Shipping

Wildlife Computers  
8310 154th Avenue NE, Suite 150  
Redmond, WA 98052 USA

### E-Mail

Sales, Quotes, and Inquiries: [tags@wildlifecomputers.com](mailto:tags@wildlifecomputers.com)  
Technical Support: [support@wildlifecomputers.com](mailto:support@wildlifecomputers.com)

### Phone

+1 (425) 881 3048

### Website

[WildlifeComputers.com](http://WildlifeComputers.com)

### For Asian Clients

While we welcome your direct correspondence, we recommend that you contact our colleague, Yong Huang, for assistance. Mr. Huang understands the special purchase processes for your countries, and will provide you with the best service for the best price. He also is fluent in Japanese, Chinese, and English.

**Mailing address**—Please ship tags to our main office

Yong Huang  
Enfotran Corporation  
1247 106th Place NE  
Bellevue, WA 98004 USA

### E-mail

[yong.huang@enfo.us](mailto:yong.huang@enfo.us)

### Phone

+1 (425) 456 0101

