

# Wildlife Materials International, Inc.

## ULTRALITE Changeable-Battery TRANSMITTER COLLAR #2270 Used for small domestic animals

The Ultra Light Changeable-Battery Transmitter Collar is Wildlife Materials' newest design. This #2270 model weighs **less than 2 ounces** with battery for a small animal's wearing comfort. The transmitter uses **two** high-drain silver oxide batteries, which last for **10 continuous days** of tracking. The unit allows owners to give pets freedom of movement, yet locate them when necessary.

The two #393 silver oxide batteries can be easily changed indoors or outdoors. Users can purchase the battery at local camera stores as well as from Wildlife Materials International.

Tracking range is 1-5 miles, over a clear, open "line-of-sight" area. The signal will be cut in half if you are monitoring your animal in thick brush, in rugged terrain or during adverse weather such as rain, fog and sleet.

The transmitter's antenna has been placed between the nylon collar layers to avoid snagging on brush. The antenna magnifies the transmitter signal for better reception.

### INSTRUCTIONS for Usage:

1. To **start your transmitter collar**, unscrew cap and **insert two batteries in the holding cylinder**. Open the end cap by turning it right or clockwise. Place the two batteries in the same direction, with the Positive (+) end **facing the end cap**.
2. Screw the cap onto the battery holder by turning it left or clockwise. **Just before releasing your animal, check to make sure the battery cap is tightened.**
3. Turn on your receiver and tune in the transmitter collar's signal. Your handheld antenna will magnify the transmitter collar's signal. However, the antenna should not be plugged into your receiver for usage until you are positioned some distance away (at least 10 yards) from your transmitter collar.
4. Test your transmitter collar **before** putting it on an animal. Begin by placing the activated transmitter collar about 200 yards away so you can practice picking up the beeping signal. Then ask a friend to hide the transmitter at longer and longer distances from you so you can locate the signal. Users tell us experience is the best teacher.

The best way to track a transmitter signal is called the **NULL-to-NULL method**. With transmitter hidden and antenna plugged to receiver, hold your antenna above your head, its main boom parallel to the ground. Rotate your antenna in a full circle--360 degrees. A peak signal will be received over 15 to 20 degrees of a circle. Swing the antenna back and forth to see where the signal stops or a NULL (no sound) occurs. You will quickly find both nulls on either side of a peak signal. Divide the space between the nulls in half--this is the exact location of your animal. As you move toward the animal, take more readings to verify the correctness of your tracking. The animal might quickly veer to another direction.

For best tracking results, your **three** handheld antenna **elements** should be **match the positioning** of the tiny antenna inside your animal's collar. As the animal walks the collar antenna's position would be vertical. However, the collar antenna's position will change if the animal is injured, resting, trapped, etc. Since you cannot see the animal, play with the antenna by **rotating** your wrist. Note the position of your antenna elements when you are getting the best signal results.

If you receive a strong signal (with the gain control turned **down**) equally from all directions, you are very close to your animal -- within 200 yards. To stop this **swamping**, switch on the receiver's **attenuator**. The attenuator shortens or weakens the transmitter signal. You will then receive the signal strongly from one direction, where your animal is.

**Signal bounce** is normal in rugged terrain. The animal's transmitter signal may hit the rock outcropping, tree or mountain wall **behind** you before coming back to your receiver. This can be confusing since the animal is located in the **opposite** direction from which the signal comes. To combat signal bounce, go to a **high altitude** such as a ridge, where the best reception will occur. Then turn the receiver's gain control knob **LOW** to avoid distortion. Take **several** readings from **different** positions. Your animal is located at the place where two or more signals **cross**. This radio tracking method is called **triangulation**.

5. When you are not using the collar, **turn off the transmitter by removing the batteries**. Store the batteries in a refrigerator for freshness. Do not allow batteries to touch each other or metal; this will drain power.
6. Store the transmitter collar in a cool place (not cold).

The **electronics** in this transmitter are guaranteed for **one year**.

Refunds are available during **15-day trial period**. Equipment must not have been worn by an animal and must be returned in like-new condition.

**NOTE: This equipment is designed to help you locate animals. As you know, any electrical equipment, especially if battery-powered, may stop working. Theft, accidents, and Acts of God also occur. Wildlife Materials International cannot assume responsibility for animals that are lost or injured while being monitored.**

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**39 Years Manufacturing Experience**