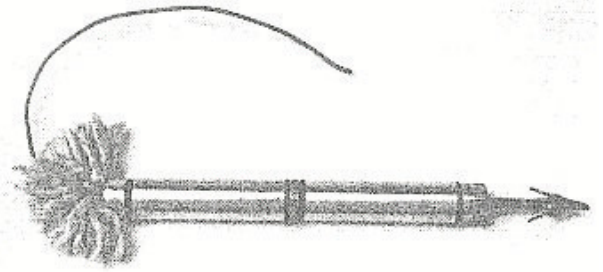


## Dart Transmitter

The dart transmitter helps researchers locate drugged animals for study. Using a Cap-Chur rifle, the biologist shoots the barbed dart transmitter into an animal's muscle. A drug is released immediately on contact, causing drowsiness. The barb helps the beeping transmitter to stay with the animal as it moves. In minutes, the animal can be tracked for marking or banding. The dart transmitter is particularly helpful for locating animals in dense vegetation.



A high-impact crystal at the heart of the transmitter allows the transmitter to withstand 20,000 Gs of force while continuing to send a signal. This feature will insure the transmitter's long life in rugged field conditions. High-impact crystals are available at 150-151MHz and at 216-219 MHz. Others can be ordered upon request.

The transmitter package includes a **transmitter** in 2 cc barrel, **two** pin plug lithium **batteries**, a regular Cap-Chur **tail section** with flexible 25 cm **antenna**, and **adapter** that attaches the transmitter to the front drug section.

The user must furnish the drug section of the dart, which includes a drug barrel, plunger, explosive charge and double-barbed needle. If requested, a 1 ½. double-barbed needle can be supplied at additional cost. The drug section may be purchased from Palmer Cap-Chur Equipment, Inc., P. O. Box 867 at Douglasville, GA 30133 (tel.770-942-4395) and from Wiley and Sons, at 7007 Co Rd 2120, Wills Point, TX 75169 (tel. 903-848-7912).

The flight of the dart is not significantly affected by the addition of a transmitter, except that it drops somewhat faster. Additionally, milder and slower-acting drugs, or smaller doses of potent drugs, now help to eliminate mortality in drug-transmitted animals.

The length of the tail section with transmitter/battery chamber and adapter is 10 centimeters. Weight is 14 grams. One battery is used at a time and has an operational life of about 72 hours or 3 full days. The need for additional batteries should be anticipated.

The dart transmitter's signal can be effectively picked up with any Wildlife Materials receiver and a handheld 3 element yagi directional antenna. A signal range of one mile is possible. However, the distance a signal transmits will be reduced by brush, rugged terrain, inclement weather, or the animal's falling on the transmitter and grounding its antenna.

This dart transmitter has been thoroughly tested and evaluated by Msrs. Lovett and Hill in *Journal of Wildlife Management*. Bluesky Telemetry guarantees the transmitter for 60 days against faulty parts and workmanship.

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