

PT-1D DOG COLLAR



LOCATOR
PET TRACKING SYSTEM
OWNERS MANUAL

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HOW THE SYSTEM WORKS

A miniature transmitter is attached to a rugged dog collar which emits a pulsed radio frequency signal. This signal is picked up by a directional antenna attached to a very sensitive handheld receiver. As the antenna is pointed towards the transmitter on your pet's collar, the signal becomes louder in the receiver. This allows you to "home-in" or DF (direction find) the transmitted signal and find your dog. This is the same system used by biologists to track wild animals. This system can be used anywhere in the world as it does not rely upon satellite technology (GPS) which requires a direct view to the satellites or any cellular or PCS infrastructure which must be in place and requires monthly fees.

The range is 1-2 blocks in the city and over 1 mile in open country. The PR-30 receiver allows reception of 30 miniature transmitters all operating simultaneously in a single household or neighborhood without interference to each other. Each transmitter is programmed by the factory to one of the 30 channels.



PR-30 RECEIVER SHOWN WITH FA-1 ANTENNA

PT-1D TRANSMITTER WITH COLLAR

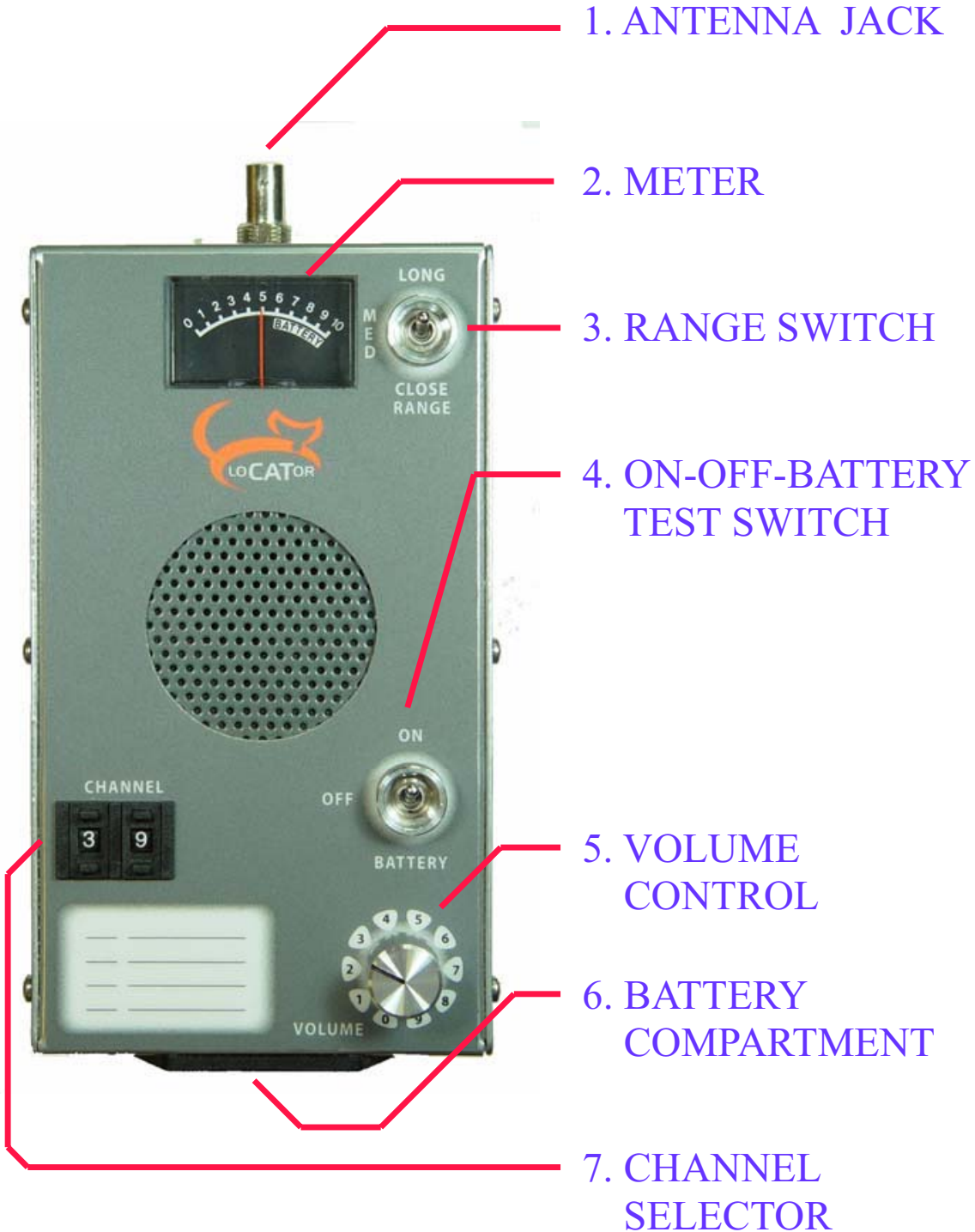
A channel number (10-39) is marked on the front label of each unit when shipped. Cut off excess collar material with scissors after sizing to your dog. The license ring is for attachment of your pets ID and license tag.



BATTERY

The battery must be installed in the transmitter before use. It is a CR123A Lithium photo battery available from us for \$3.00. It may also be found at any drug store or supermarket. The battery life is 9 months of continuous use. The shelf life of the battery is 10 years. To remove the old battery, unscrew the battery cap counterclockwise with a nickel or screw driver and shake it out. Dispose of it properly. Insert a new battery plus end down as shown above and replace cap. If the battery is inserted backwards, the transmitter will not work but will not be damaged. Simply reverse it to start the transmitter working. Replacing the battery every 8 months will guarantee continued operation.

PR-30 RECEIVER CONTROLS



1. ANTENNA JACK

The antenna jack accommodates either the supplied FA-1 directional antenna or FA-2 non-directional antenna. To install either antenna, grasp its plug in one hand and the receiver in the other, push the antenna plug into the receiver antenna jack while turning the knurled nut clockwise until it locks into place. Twist the knurled nut counterclockwise until it stops and gently pull the antenna straight out to remove it.

2. METER

The meter on the receiver has two uses. The first is to measure the relative strength of the incoming signal from your transmitter. Use the VOLUME CONTROL to set the meter around mid scale. Use the changes in upward meter movement in addition to listening to the transmitter's pulsed signal to determine when the signal is the strongest. The meter is also used to measure battery condition when the ON-OFF-BATTERY TEST SWITCH is in the BATTERY position. The battery indication box on the bottom part of the meter scale will indicate the battery voltage remaining. A six (6) on the meter is six (6) volts remaining (almost totally discharged battery). A nine (9) on the meter indicates nine (9) volts remaining (a good battery). Replace the battery when the needle falls into the bottom of the battery indication box.

3. RANGE SWITCH

The RANGE SWITCH is a three (3) position switch used to attenuate (lower) the signal going from the antenna to the receiver so it is not overloaded by a strong signal. In LONG, there is no attenuation, so the receiver is listening with full sensitivity. In the MED (or medium) position, approximately 30db of attenuation is inserted between the antenna and receiver. In CLOSE another 30db of attenuation is inserted for a total of 60db. To DF your pet, always start in the LONG position to make sure it can be heard. If you are able to hear its transmitter, change switch positions to MED and see if it can still be heard. If it can not, go back to LONG, adjust the VOLUME CONTROL so the meter indicates around mid scale and turn around in a full circle pointing the antenna away from you in order to find the strongest pulsed signal strength. The strongest signal strength will be in the direction your pet is located. Walk in that direction until you can move to the MED position and still hear the signal. Continue to walk in the direction of the strongest signal until you can move to the CLOSE position. When you can hear your pet's transmitter in the CLOSE position with the antenna pointing towards the strongest signal, your pet is very close to you.

4. ON-OFF-BATTERY TEST SWITCH

In the OFF position, no battery current is drawn. This is how the switch should be left when the receiver is not in use. When switched to the ON position, the receiver is active and drawing current from the battery. In the BATTERY position, the condition of the battery under load is tested and the results are available on the METER. Do not leave the switch in this position as the battery will be discharged in a few hours and battery replacement will be required before further use of the receiver.

5. VOLUME CONTROL

The VOLUME CONTROL is used to raise or lower the audio level to the speaker and meter circuit. Adjust it to suit your own preference. Note that it is easier to DF a signal that falls around mid scale on the METER than one banging against the upper meter stop.

6. BATTERY COMPARTMENT

The BATTERY COMPARTMENT on the bottom of the receiver houses the 9 volt alkaline battery in a pull-out drawer. To open the drawer, place one of your fingernails in the slot on the bottom edge of the drawer and lift up with your finger until the drawer snaps upward. Then pull the drawer out. **DO NOT REMOVE THE TWO SCREWS HOLDING IN THE BATTERY COMPARTMENT!** With the drawer in your hand, pop up the battery and replace it, if discharged, with a new alkaline battery. Be sure to note the proper battery polarity when placing the battery back in the drawer. If you force the battery in with reversed polarity, the receiver will not work but will not be damaged. Simply remove the battery drawer and flip the battery over.

Battery life at moderate volume levels is approximately ten (10) hours. To conserve battery life, turn the receiver off when not in use. Keeping a spare battery in your pocket or vehicle is a good idea.

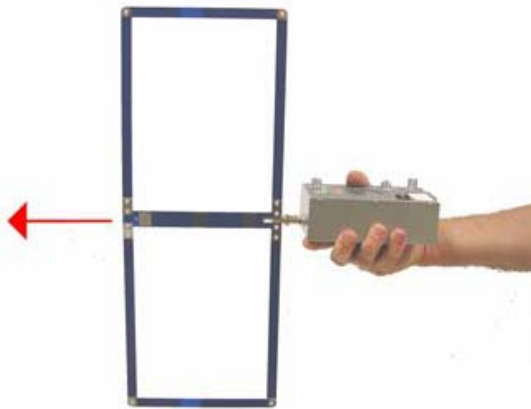
7. CHANNEL SELECTOR

The CHANNEL SELECTOR is a two (2) position push wheel switch. To advance to a higher channel, simply push the + button located under the switch window. To go to a lower channel, push the - button located over the switch window. The PR-30 is a 30 channel receiver which receives channels 10 to 39.

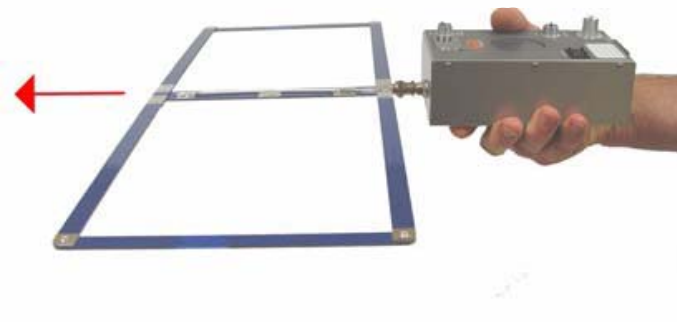
ANTENNAS

Each PR-30 receiver is supplied with two (2) antennas. The first is the Model FA-1 which is a high gain, directional, antenna that attaches directly to the ANTENNA JACK on the receiver. Once installed on the receiver as previously described, you may change its polarity by rotating it with your hand. The two photos shown to the right show both vertical and horizontal polarization. In order to find your pet's direction, hold the receiver as shown in the two photos and try both vertical and horizontal polarization while turning around in a circle. See which polarity produces the loudest pulses from your pet's transmitter. The arrows in the photos show the direction which produces the loudest signal.

Also supplied is the FA-2, omni directional, rubber duck antenna. It can be attached directly to the receiver ANTENNA JACK and is very useful for in-house use to see if your pet is close, or if searching under bushes or under leaves for a lost transmitter. This antenna has no gain and therefore short range. It also is not capable of providing any directional information.



FA-1
VERTICALLY
POLARIZED



FA-1
HORIZONTALLY
POLARIZED

USING THE LOCATOR SYSTEM TO FIND YOUR PET

As soon as you put a transmitter on your pet, make sure it is operating properly by listening to it with your receiver set to the proper channel. This will insure that the battery was properly installed and that the transmitter is functioning. When you want to find your pet, follow the directions below.

1. Momentarily put the ON-OFF-BATTERY TEST SWITCH on the receiver in the BATTERY TEST position to make sure the battery tests O.K. on the meter.
2. Plug the FA-1 directional antenna into the ANTENNA JACK. Turn the ON-OFF-BATTERY TEST SWITCH to ON and set the VOLUME CONTROL to a comfortable listening level.
3. Dial in the CHANNEL SELECTOR to the channel of your pet's transmitter. You should be able to hear the pulses from the transmitter with the RANGE SWITCH in the LONG position. If you can not, hold the receiver level in your hand, use vertical antenna polarity to start with and turn around in a full circle and see if you hear the transmitter. If you do not, try horizontal antenna polarity and try again. Make sure your cell phone and cordless phone are not on if you are carrying them.

4. If you still do not hear the transmitter, you will have to change location to get closer to your pet. Try walking outside, then up and down the block pointing the antenna in different directions as you go. If your pet is more than a block or two away, use your vehicle to get closer. Have the passenger, not the driver, hold the receiver while pointing the antenna out the window until your pet's pulsing transmitter is heard. Range will be shorter with the antenna inside the vehicle, so stop now and then, get outside, and turn around in a full circle to increase it. If you are in hilly terrain, get as high as possible, get outside the vehicle, and turn around in a full circle until the transmitter is heard. Some vehicles generate considerable interference even with the key off. Get outside the vehicle if this is a problem.

5. When you hear the transmitter, note its direction, and head towards it. As the pulsing signal gets stronger, change the RANGE SWITCH to the MED position. Raise or lower the VOLUME CONTROL to keep the meter indication around mid scale.

6. Recheck for proper direction and continue. When you get close to the transmitter, you can change the RANGE SWITCH to the CLOSE position and generally walk towards the strongest signal until you find it.

7. It is a VERY good idea to try a few dry runs having someone else hide the transmitter with you finding it using the above method.

ORDERING

1. Order a PR-30 receiver.
2. Order one PT-1D transmitter with collar for each pet.
Please specify color of collar desired.
3. Order using your VISA/MasterCard, check, or money order by toll-free phone, FAX, mail, web or E-mail.

FAST SAME DAY SHIPPING

RECEIVER

Model **PR-30** includes both FA-1 and FA-2 antennas \$199.95



PR-30

TRANSMITTER

Model **PT-1D** 1" wide 25" long dog collar including \$99.95
CR123A battery. Please specify color of collar desired.



PT-1D



PT-1D COLLAR COLORS

1. BLACK
2. PINK
3. CAMO
4. YELLOW
5. BLUE
6. GREEN
7. WHITE
8. TAN
9. RED
10. ORANGE

ACCESSORIES

B-1 spare CR123A Lithium battery with 9 month operating life and 10 year shelf \$3.00

FA-1 spare high gain, directional antenna \$39.95

FA-2 spare omni directional rubber duck antenna \$14.95



B-1



FA-1



FA-2

HAVE A CAT ?



You can purchase a cat transmitter with breakaway collar for \$49.95 which can also be used with the PR-30 receiver.

www.thecatlocator.com

FCC COMPLIANCE INFORMATION

The PR-30 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. Any changes or modifications to this device will void the user's authority to operate the equipment.

ABOUT US

Communications Specialists, Inc. has been building quality electronic products that the land mobile, wildlife telemetry, and pet industries have come to rely on for over 35 years. At our Orange California factory, we utilize the latest in surface mount assembly technology to assure consistent quality throughout our entire product line. All our products are made in the USA.

WARRANTY

The PR-30 and PT-1D are both warranted to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase. If you need to take advantage of our warranty, please follow these steps:

1. Securely repackage the receiver or PT-1D. Include the antennas if you suspect they are part of the problem. If possible use the original shipping box.
2. Include a note as to the nature of the problem.
3. Include your shipping address and a daytime phone number or E-Mail address.
4. Ship to the address below.



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