

Operating Instructions for Wireless Geophone



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COMTEL WIRELESS GEOPHONE – MODEL VHFVG

- The geophone operates on a line of sight at ranges up to 75 feet.
- The transmitter is housed in a water-tight case.
- The transmitter uses 4 C-cell batteries giving it greater than 150 hours of battery life.
- The matching receiver is placed on the vehicle dash (for line of sight) and either earphones can be plugged in or it can be plugged directly into the vehicle entertainment system auxiliary input.
- The receiver can be used with a wired geophone by simply plugging in the geophone cable.
- It can be used with a wired geophone and a wireless geophone at the same time.
- If another tracker has the same system, he can also use his receiver to tune into the frequency of the wireless geophone and receive the same signal. Both systems set to either F1 or F2.
- Two different sets can be used on the two different frequencies at same time and location. One transmitter/receiver is set to F1 and the second transmitter/receiver is set to F2. Ensure that they are not too close together, since they may want to swamp and nullify each other's signal.
- As an option, the receiver black antenna unit can be turned off and the unit

Operating instructions:

The frequencies are normally set to F1 which is switchable on both the receiver and transmitter. If F1 appears to have extra noise or interference, switch the sets over to F2.

Installing the wireless geophone transmitter.

- Place the geophone above the pipeline and within 75 feet (23 meters) of the vehicle.
- Using a screwdriver or pin, make a small hole in the ground and push the geophone spike into the ground. If the ground is very frozen or is solid ice, the spike can be unscrewed and unit is placed directly in contact with surface.
- Install four (4) C-cell batteries in the wireless geophone transmitter.
- Press and hold the power switch on the wireless geophone transmitter until the power light comes on (approximately 5 seconds).
- If using two wireless geophones together, place the heads at least 10 feet apart to prevent interference.
- A flashing "Power" indicating light on the wireless geophone transmitter

Turning on the receiver.

- Install 4 C-cell batteries in the wireless geophone receiver.
- A "Low Batt" light will indicate on the receiver if the batteries are low and need replacing. The unit can still operate for several hours after the "Low Batt" light first comes on.
- Turn on the main receiver "Power/Volume" switch.
- Turn on the receiver black antenna box and select the frequency by moving the "On/F1/F2" switch to F1.
- Check to ensure both the transmitter and receiver are set to the same frequency. (F1 or F2)
- Place the receiver on the dash and extend the antenna.
- The red light on the black receiver should turn to green indicating the signal is locked on to the transmitter.
- If the light flickers, move the receiver on the dash or move the antenna until the light is solid.
- If the geophone is greater than 75 feet away, move the geophone or relocate the vehicle to within 75 feet.
- Ensure the receiver is placed on the dash and not on the seat of the vehicle to improve signal reception.
- If you want to use the bar display on the RX-101 receiver to show acoustic levels, connect a cable from the audio output jack on the VHF receiver to the Geo input jack on the RX-101.
- Plug in the earphones or plug the cable into the auxiliary input of the vehicle entertainment system.
- In rare cases, there may be interference on the selected channel.
- If this occurs, switch both the transmitter and receiver to the other channel.
- Ensure both are set to the same channel (either F1 or F2).

AREAS OF HIGH NOISE:

In areas where there is high "noise" interference (such as in areas of electrical substations), the wireless geophone receiver can be turned off by selecting the "OFF/F1/F2" selector switch to "OFF" and a wired geophone can be plugged into the "GEO IN" jack on the receiver unit. This will allow the geophone to be used as a wired geophone and will eliminate the "noise" due