

PRODUCT MANUAL



GEOAMP XT AMP

The Geoamp XT Geophone Amplifier is pocket sized, tuned for geophone pig tracking, and features excellent battery life. It contains the same technology as our RX-101 Receiver's built in geophone amplifier.

Controls:

Geophone Amp Output
1/8" (2.5mm) stereo

Geophone Amp Input
1/8" (2.5mm) mono



Power Switch and Geophone Gain Knob
Turn to Switch On/Off and Use to Adjust Geophone Volume

Low Battery Light
Flashes when Batteries Need Replacing

Operation:

Install batteries or replace if low.

- Pull on the black bezel on the bottom of the Geoamp XT to remove the battery compartment.
- Install 4 AAA Cell Alkaline batteries. Never mix old and new batteries, as this can cause batteries to leak and damage the amplifier.
- Re-insert the battery compartment and gently push it closed until it is inserted all the way. There should be no gap between the black bezel and the amplifier body.

Connect a geophone and output (headphones or other device).

- Plug the geophone into the Geo In jack. Any geophone (with or without extension cable) with a 2.5mm (1/8") mono jack will work.
- Connect headphones to the Ear Out jack, or use a 2.5 mm 1.8" cable to connect the output of the geophone amplifier to an audio input in a vehicle, an FM transmitter, or other device.

Turn on the amplifier and adjust volume.

- Rotate the volume knob clockwise. It will click, turning on the amplifier.
- The low battery light may flash briefly as the amplifier powers up. This is normal.



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- If the batteries are low, the Low Battery light will continue to flash. If the batteries are completely discharged, the amplifier may not turn on.

Adjust gain (volume) as needed.

- Use the knob to adjust the output of the geophone amplifier
- Adjusting the gain so that the background noise is just audible gives good results.

Tracking with the Geoamp XT:

Geophone Use

- The geophone can be used to hear the pig move through the pipeline at large distances.
- If the distance between welds is known, and the cups on the pig can be heard hitting the welds, pig speed can even be estimated.

For more helpful tracking information, please see our website.

Troubleshooting:

The amplifier will not turn on.

- Check that the batteries are seated well inside, and touching each other and the battery holder contacts.
- Are the batteries fresh? Install 4 new AAA Cell Alkaline batteries.

There is no signal when an geophone is plugged in.

- Check the position of the gain knob. Is it off or too low?
- Check the condition of the cables used. Are they are plugged in all the way?
- Is this a Comtel Systems Ltd. supplied geophone? Some geophones could be wired incorrectly. Contact us for support.

Headphones work when plugged in, but when the Sound Output is plugged into speakers or other devices it is silent.

- Check the audio cable. Is it a stereo cable? Some cables (mono) can short the output.

The Geoamp XT got wet.

- The amplifier is weather resistant. In very heavy rain, a clear plastic bag can be used to protect it.
- If it was not submerged, dry off the amplifier, and check operation.
- If submerged, immediately remove batteries. Make sure the amplifier is completely dry (internally as well) before using. Contact us for support, if needed.