



DIABLO II GOLD DEMON



\$399
**WITH LIFETIME
WARRANTY**

GENERAL DESCRIPTION

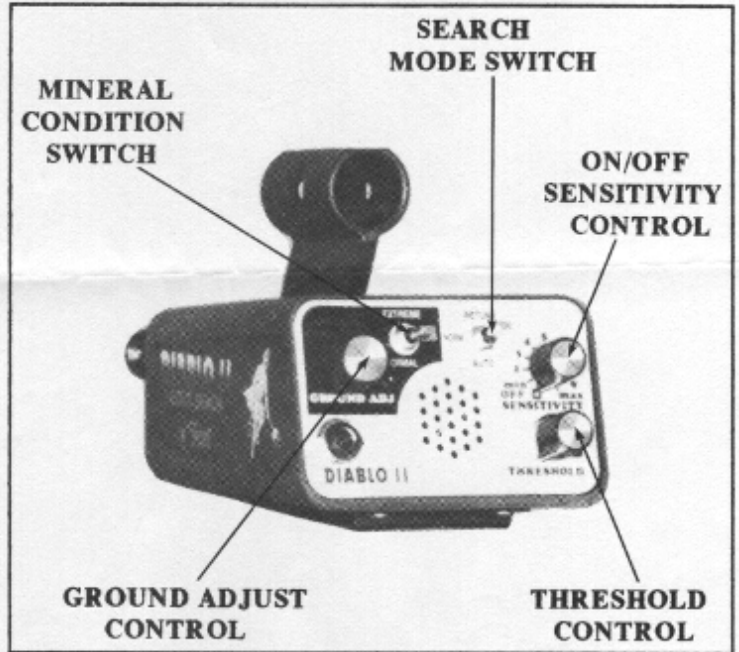
Since most gold nuggets are very small, it has been very difficult to find them using normal detectors which were basically designed for coin hunting use. Historically, any attempts to discriminate against trash has caused a complete loss of very small gold objects. The DIABLO II was designed to help you find pieces of gold in the very worst types of soil.

Mineralization is the single largest obstacle encountered by metal detector manufacturers. Many ways have been tried to overcome this problem, but extensive tests have revealed that to overcome ground chatter, a detector's signal must be controlled rather than its frequency.

The DIABLO II is the most powerful nugget hunting detector we have ever made. It is a VLF All Metal detector that offers a Ten Turn Ground Adjust plus the option of Normal or Automatic Tuning. A special Mineral Conditions Switch is used to control the detector's input circuitry, which matches the unit to the prevalent soil conditions selected. An independent Sensitivity control provides full range sensitivity to electronically protect against the loss of small targets.

Conventional detectors without this switch have so much gain that the input amplifier is allowed to saturate when subjected to extreme mineral conditions and rapidly changing ground matrix. Cutting the gain after the input amplifier saturates doesn't help, because the signal is then non-linear. Electronically, the DIABLO II's Mineral Condition switch prevents intense mineral signals from saturating the input amplifier. This keeps the signal in a linear operating mode, eliminating the overdrive signals.

The Elliptical Wide Scan search coil is especially designed to provide a much wider sweep area, while still being narrow enough to fit into crevices and between rocks. Optional Elliptical Concentric search coils are also available, and although they increase the detector's sensitivity to very small targets, they produce more ground chatter.



SPECIFICATIONS

Operating Frequency.....	Approx 20 KHz
Coil Size.....	10 Inch Elliptical
Coil Type.....	Wide Scan
Audio Frequency.....	Approx 625 Hz
Audio Output.....	1 1/2" Speaker & 1/4" Stereo Jack
Weight.....	3 Lbs
Battery Requirements.....	2 Ea 9V Alkaline
Battery Life.....	15-30 Hours
Optimum Temperature Range.....	30 F to 100 F
Operating Modes.....	All Metal VLF only
Tuning.....	Automatic or Normal.

NOTE: Due to the extreme amount of gain in the electronic circuitry, a very slight amount of autotuning is present in the Normal Mode. This keeps the detector from drifting up or down. It is disconnected when strong mineral signals are sensed.



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