

Model 4404-16-4 Compact Geo-Explorer System



Ludlum Measurements, Inc.

Features

- Large 7.6 x 7.6 cm (3 x 3 in.) NaI Scintillator Detector
- Multi-channel Analyzer
- Bluetooth Transceiver for Signal Output
- Data Logging Program
- Google Earth™ Compatible Files
- Compactly Sized for Easy Carrying



Introduction

Part Number: 48-3945

The Ludlum Model 4404-16-4 Geo-Exploration System provides radiation surface measurements to help discern zones of interest in the underlying geology of the targeted area. This instrument serves as an excellent oil exploration and ore prospecting tool. Compact size, moderate weight, and generous battery life enable the operator to cover territory in an efficient and convenient manner.

This system is comprised of a scintillation detector, multi-channel electronics, a waterproof carrying case, wireless technology transceiver, rechargeable battery, and Geo-Explorer PC software program. The weatherproof enclosure is sized to easily fit into a moderately-sized backpack (not provided). The instrument can run on battery power for up to 15 hours. The output is transmitted once each second via wireless technology so there are no interconnecting cables required. Alternately, an RS-232 cable can be attached to the RS-232 output on the case of the instrument. LED indicators located on the enclosure exterior identify the transmitter status.

The data logging software runs on a Windows™ PC and will display the radiation data just like a chart recorder, as well as log the radiation data. User-supplied GPS coordinates fed into the PC are captured and stored along with its corresponding radiological data into a comma delimited file. Ludlum also provides a KML (Keyhole Markup Language) software program that converts the data files into files suitable for viewing in Google Earth™ or any other 3D earth browser implementing the KML encoding.

The Geo-Explorer is available in different versions to best suit your requirements. Some choices include with and without a laptop computer, or with and without GPS. Contact Ludlum Measurements for more information.

The **Model 4404-16-4 Compact Geo-Explorer** (PN 48-3945) weighs approximately 5.7 kg (12.5 lb) and includes:

- NaI scintillation detector mounted in a weatherproof carrying case
- Panasonic Toughbook laptop computer (or comparable)
- Wall adapter for charging the battery
- Cigarette adapter for charging the battery from a vehicle
- Geo-Explorer PC Program
- KML Generator PC Program
- USB flash drive 1 GB mini
- Check source 0.25 μCi (^{137}Cs)
- Manual

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.