

GT-25 Two Detector Directional Scintillometer



Terraplus is pleased to introduce the GT-25 Two Detector Directional Scintillometer. This instrument is the first of its kind and was developed at the request of clients.

The GT-25 is a two detector gamma-ray scintillometer used for determining uranium mineralization in very high local background conditions, typically in underground or open pit mines.

Major Benefits:

➤ **Locates Uranium Mineralization in High Backgrounds**

The GT-25 has the ability to identify specifically where the source of radiation is located through its forward looking detector which is equipped with a lead collimator. This result is obtained by removing the background radiation measured by the second detector which is located in the back of the instrument.

➤ **Reads Directly in eU3O8**

The GT-25 Scintillometer can be calibrated to display concentration results either in eU3O8 or in ppm.

➤ **Results from both Detectors are Stored**

The operator can store separately the results obtained from the forward looking detector and the rear detecting one.

Features:

- **Two Csi (TI) Scintillators**
- **PIN Diode Detector**
- **Two modes of Operation**
 - **Background subtraction mode**
 - **Single detector mode**
- **Results in ppm or eU3O8**
- **Large Data Memory**
 - **minimum 250 profiles stored with site and user identification**
- **USB Data transfer**
- **Backlit Graphic LCD**
- **Five button operation**

Benefits:

➤ **Large Memory**

The GT-25 can store 250 profiles each of them containing a number of readings including site and user identification

➤ **Easy to operate**

The GT-25 is easy to use. The system includes a front panel which includes 4 directional buttons and an interactive graphical display plus an additional trigger.

➤ **Power Supply**

The GT-25 standard configuration is available with 4 AA Rechargeable Batteries and Power Adaptor. It can also be used with Alkaline Batteries.

➤ **USB Communication**

A USB cable is standard with each system allowing for easy PC connectivity.

➤ **PC Software Interface**

Each GT-25 includes the GeoView software package for data transfer, visualization and configuration of instrument's operating parameters.

➤ **Small and Rugged**

The GT-25 small size and ergonomic design make it easy to use. It meets IP68 standards and is built to withstand dust and provides additional protection in rainy or high humidity conditions.

➤ **Self Diagnosis Capability**

The GT-25 firmware has a built-in self diagnosis capability which allows operators to set site specific test conditions and confirm whether the unit is functioning properly.



Specifications:

| | |
|---------------------------------|---|
| Detectors: | Csi (Ti) Cesium Iodide Crystals doped with Thallium 20mm diameter x 25mm depth utilizing a PIN diode |
| Collimator: | 40mm diameter x 50mm depth |
| Range: | 0.12 MeV – 3 MeV |
| Sensitivity | |
| Front to back direction: | Front detector: 12 cps/MBq/m Cs-137 Rear detector: 3 cps/MBq/m Cs-137 |
| Back to front direction: | Front detector: 4 cps/MBq/m Cs-137 Rear detector: 11 cps/MBq-m Cs-137 |
| Control: | Five Button Operation |
| Data memory: | 250 Profiles Minimum with internal data base including site and user identification |
| Communication interface: | USB Cable |
| Power supply: | 4 x AA rechargeable or non rechargeable |
| Battery Life: | Minimum 24 hours at 20°C |
| Environmental: | IP 68 |
| Operating Temperature: | -20°C to 50°C |
| Dimensions: | W x H x D: 8 x 25 x 16 cm |
| Weight: | 2 kg |



Standard Configuration:

- GT-25 Scintillometer
- 4 AA Rechargeable Batteries
- Power adaptor
- USB cable
- CD with GeoView Software
- Operations Manual
- Shipping Case

Specifications subject to change without notice # -03-10