

# 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:

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