

# Portable Contamination Analyser

Gamma Eye

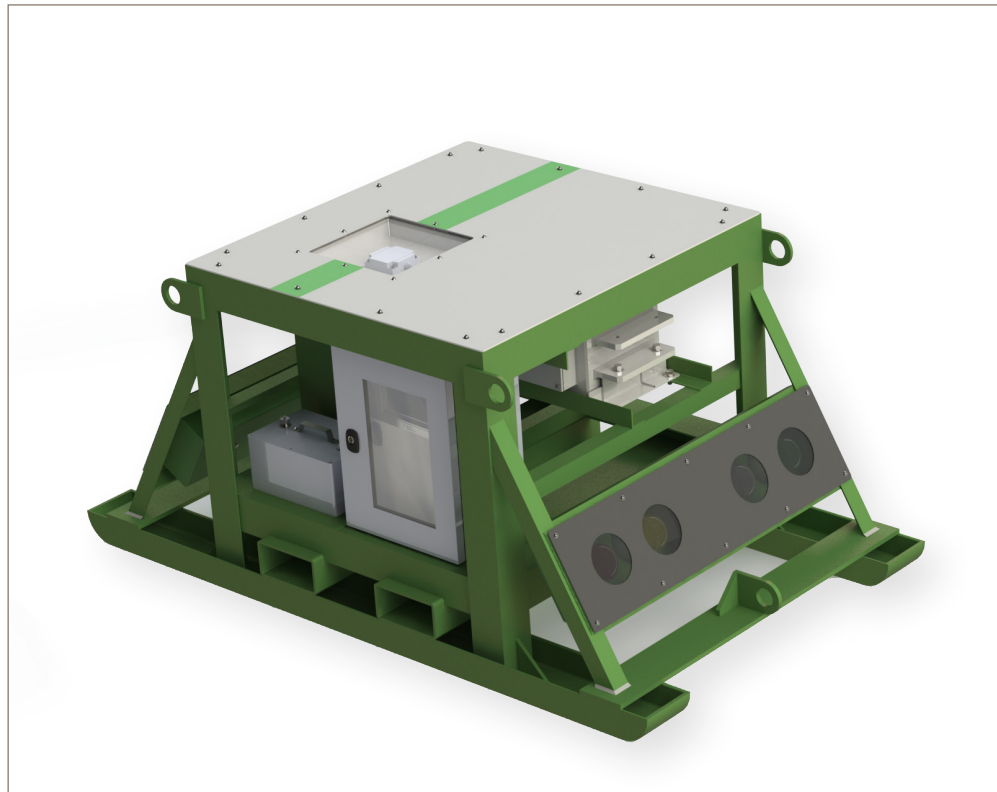


## Quick & easy assessment of gamma contaminated material.

The Parker Gamma Eye offers superior performance for sites where significant quantities of gamma contaminated material need to be assayed and segregated within a short time frame.

The bucket monitor provides a quick assessment of the bulk gamma contamination of excavated material within the bucket of a mechanical digger.

No specialist nucleonic knowledge is required by the operator. The driver simply rests the bucket on the frame and after a few seconds it provides him with a visual indication of the level of gamma contamination in the bucket.



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## Product Features/Benefits:

- Easily calibrated for a range of gamma contaminants
- User selectable alarm levels
- Simple traffic light system to indicate alarm level reached
- Easy to transport around site
- Log of measurements maintained
- Measurement log can be downloaded to a PC via USB
- Safe operation as no personnel need to be close to take meter readings
- No moving parts
- Reduced measurement time leading to reduced time on site



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# This is a Safer Environment

The Gamma Eye system consists of a platform on which the bucket of a mechanical digger can be placed (or hovered just above). There is a scintillation crystal situated under the platform that will detect the gamma radiation being emitted from the material within the bucket.

The sensor is pre-calibrated for the contamination isotope of interest and can be set to alarm for discrete activity bands.

The driver of the mechanical digger rests the bucket containing the excavated material on the frame and after a few seconds it provides him with a visual indication of the level of gamma contamination in the bucket. This indication is provided by a traffic light system - red, amber and green denoting the

band within which the gamma contamination occurs.

On the basis of this information the driver deposits the load in the appropriate place for subsequent disposal or processing. During operation no personnel are required to take meter readings which is a key safety feature. Once calibrated the bucket monitor is very simple and rapid to use.

No specialist nucleonic knowledge is required by the operator. The driver simply observes and acts upon the traffic light indications. He does not even need to activate the counting process as the instrument automatically senses when the bucket is correctly positioned.

## Specifications

Measuring Method	Natural Gamma Counts Per Second
Height	71 cm
Length	156 cm
Width	84 cm
Weight	250 kg
Min. Working Temperature	-20°C
Max. Working Temperature	+55°C
Housing Material	Mild Steel Skid
Actuation Device	Inductive Sensor
Battery	12Volt, 12 Ah sealed lead acid
Battery Charger	3 Stage Lead Acid Battery Charger
Output voltage & Charge Current	12v @ 2A
Input Voltage	100 - 240Vac, 50Hz-60HZ
Sensor Type	Induction
Detection Distance	50 mm Above Platform
Gamma Radiation Detection Sensor	76mm x 152mm Sodium Iodide Crystal
Alarm Notification	Traffic Light System Red/Amber/Green/White
IP Rating	IP67
Accessories	Trailer for Transporting

