

## Handheld Contamination Monitor HCM-100 Of X-Ray Flaw Detector



### Product Details:

Brand Name: **HUATEC**

Model Number: **HCM-100**

### Payment & Shipping Terms:

Minimum Order Quantity: **1 set**

Packaging Details: **Carton**

Delivery Time: **3-7 days**

Payment Terms: **TT**

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**Large Image :** [Handheld Contamination Monitor HCM-100 Of X-Ray Flaw Detector](#)

### Detailed Product Description

Handheld  $\alpha$   $\beta$   $\gamma$  contamination monitor HCM-100 can make measurement of radioactive surface contamination, provides high sensitivity for three, alpha, beta and gamma radiation. The instrument is therefore ideally suited for the measurement of photon emitting radio nuclides, widely used in nuclear medicine as well as in other laboratories environments. It can test gross count, counting rate, **nuclide activity**, **nuclide concentration** etc.

#### Function

- $\alpha$   $\beta$   $\gamma$  contamination
- cps, Bq, Bq/cm<sup>2</sup> optional
- Three kinds of testing mode, single, continuous and smoothness
- Continuous adjustment of alarm value, sound and light alarm
- Data memory, record of stored memory, real time clock
- Fault display
- **Lithium**recharble battery
- USB port
- **Lattice LCD**
- Backlight
- Can write scale factor, area, smoothness factor
- Continuous adjustment of time clock
- 8 keys, controlling of measurement, backlight, alarm, 4 multi-function keys.
- Low voltage display
- Alarm of outrange, alarm of GM tube block

#### Technical features

- Detector: **end window counter tube 3pcs**
- Sensitive area: 45cm<sup>2</sup> (15 cm<sup>2</sup>×3)

- Radiation type:  $\alpha$ ,  $\beta$ ,  $\gamma$
  - Measuring type: gross count, cps, **degree of activity** Bq, Bq/cm<sup>2</sup>
  - Measuring range: 0.1-10<sup>5</sup> cps, 0.1-10<sup>4</sup> Bq, 0.1-10<sup>3</sup> Bq/cm<sup>2</sup>
  - Lower limit of energy:  $\alpha$  2.5 MeV     $\beta$  30 keV     $\gamma$  5 keV
- Efficiency:**
- $\geq 40\%$ ( $2\pi$ ) according to <sup>90</sup>Sr
  - $\geq 40\%$ ( $2\pi$ ) according to <sup>14</sup>C, <sup>239</sup>Pu
  - $\geq 40\%$ ( $2\pi$ ) according to <sup>204</sup>Tl
  - $\geq 30\%$ ( $2\pi$ ) according to <sup>239</sup>Pu
- 9V rechargeable battery, working time >100 hours
  - Working temperature: 0 - 45°C
  - Humidity: 90%
  - Volume: 226 mm×140 mm×88 mm
  - Weight: 1.8 kg