



# Ion-Hound

Handheld Ion Chamber

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EXPERIENCE & EXPERTISE

# Ion-Hound

## Compact and portable

The Ion-Hound is a handheld ion-chamber that provides highly sensitive directional dose equivalent rate ( $\dot{H}^*(0.07)$ ) and ambient dose equivalent rate ( $\dot{H}^*(10)$ ) measurements from mixed radiation fields (beta, gamma, and X-ray radiation). The Ion-Hound utilises a 430 cm<sup>3</sup> open air chamber. It is lightweight, easy-to-use and manufactured in the UK.

It provides dose rate measurement in six manually-selectable ranges with an effective range of 0.5  $\mu$ Sv/h to 500 mSv/h with optional real-time data streaming via the USB-C port. A built-in, full-colour, backlit LCD screen displays measurements and the instruments status. Ergonomically designed, with a robust housing and a handle for single-handed operation, the Ion-Hound features a familiar, industry-standard design, while adding additional connectivity and ease-of-use features.

It is an excellent like-for-like replacement for existing ion-chamber instruments, and is suitable for a range of application areas, including:

- Nuclear
- Defence
- Medical and Health Physics
- Research

### User-replaceable foil windows

Aluminised foil windows are designed with easy field maintenance in mind.

### Downward-facing Beta Shield

The beta shield allows users to easily swap between ambient ( $\dot{H}^*(10)$ ) and directional ( $\dot{H}^*(0.07)$ ) dose equivalent rate radiation measurement qualities.

### User Interface

Intuitive user interface means the Ion-Hound requires minimal training for current users of ion-chamber instruments.

### Long Battery Life

Powered by 6 x 1.5 V C-cell batteries, the Ion-Hound offers up to 40 hours of use.

### Ionisation Chamber

With a large volume of 430 cm<sup>3</sup> providing highly sensitive measurement, maintained at atmospheric pressure.

### Made in the UK

Designed, manufactured, and serviced in the UK for quick customer support.





#### Specifications

Dimensions	200 (W) x 126 (D) x 216 (H) mm
Weight	1.4 kg (3 lbs) (without batteries)
Display	320 x 480 3.5" LCD display
Complies with	BS EN 60846-1:2014 EN IEC 61326-1:2021 CE Marked
Type	Open Air Ionisation Chamber
Volume	430 cm <sup>3</sup>
Effective Range	0.5 $\mu$ Sv/h - 500 mSv/h
Collecting Potential	30 V
Batteries	6 x 1.5 V C Cells (LR14)
Battery Life	Approx. 40 hrs
Operating	0 °C to 40 °C
Storage	-25 °C to 50 °C (without batteries)
Relative Humidity	Max. 85% (tested at 35 °C)

Specifications are subject to change without notice.  
For the most up-to-date specifications, please visit [www.southernscientific.co.uk](http://www.southernscientific.co.uk)

#### Re-calibration reminder when due

#### Wide Energy Range

Photons: 10 keV to 1.33 MeV  
Beta: 200 keV to 2.0 MeV

#### Real-time Data Monitoring

Data readout through the USB-C port enables easy calibration and remote system monitoring.

#### LCD Digital Display

3.5" screen with adjustable brightness.





## Service and Support

Southern Scientific has a team of fully qualified service engineers, who support customers spanning the length and breadth of the UK. We can provide factory or on-site service as required, based on single visits, planned maintenance or full support under contract. We maintain a high level of spare parts, ensuring lifetime support capability.

Our systems group can offer its service for the larger installed equipment, from initial planning to installation, completion and training. We can provide expert knowledge and experience, gained through involvement in a number of large-scale projects throughout the years.

## ISO Certified

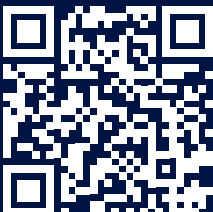
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