

# High-Performance Dual-Channel Reference Class Electrometer DOSE<sup>2</sup>



DOSE<sup>2</sup> shown with optional chambers and diodes

## Independent Dual-Channel

- Two independent measurement channels
- Independent control of applied system factor, range and bias voltage
- Wide measurement range for advanced applications

## Accuracy and Stability

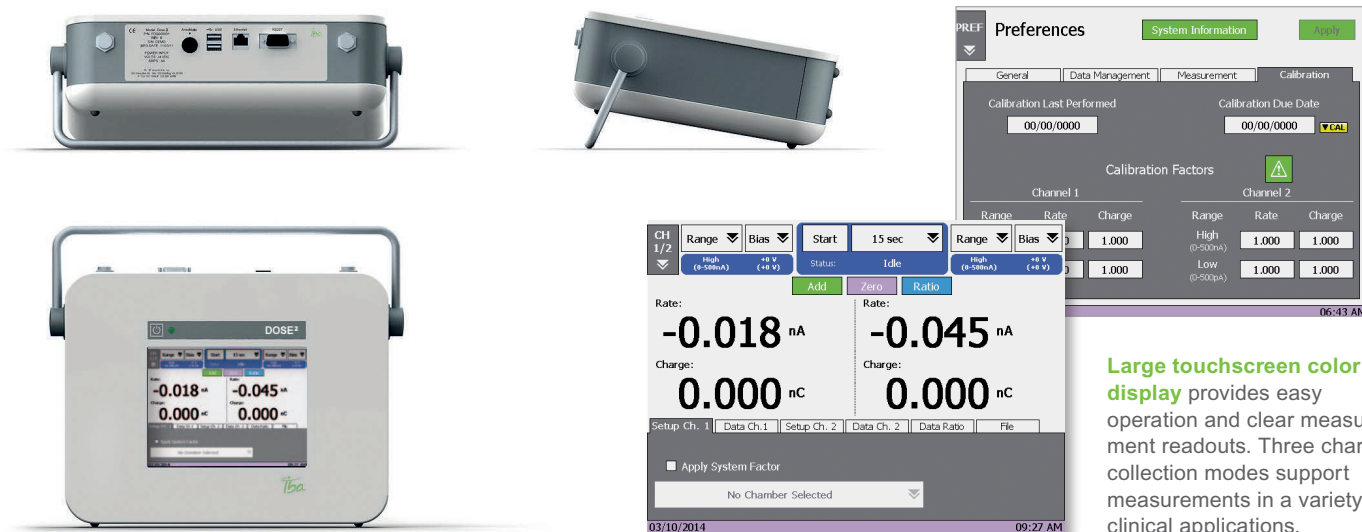
- Reference Class Electrometer
- Significantly exceeds IEC 60731 and AAPM ADCL recommendations

## Workflow Efficiency

- Threshold triggered measurement mode
- Intuitive touchscreen operated interface
- Simple data export via USB

# DOSE<sup>2</sup>

## High-Performance Dual-Channel Reference Class Electrometer for reference dose and dose rate measurements in radiation therapy



Large touchscreen color display provides easy operation and clear measurement readouts. Three charge collection modes support measurements in a variety of clinical applications.

### Additional features and benefits:

- Real-time display of dose & dose-rate
- Date & time stamp of all measurements for clear identification
- Set automatic repeat measurements
- Built in chamber library for simple setup
- Integrated check source utility to ensure current strength or project future strength
- Both channels feature extensive range (0.001 pA to 500.0 nA, 0.001 pC to 999.9 μC) for a wide application, including ratio measurements

| Performance Characteristics  | DOSE <sup>2</sup>  | Relevant ref. class limits as documented in IEC60731 standard |
|------------------------------|--|---|
| <b>Repeatability</b>         | ± 0.1 %  | ± 0.25 %  |
| <b>Long-term stability</b>   | ± 0.5 % (over 1 year)  | ± 0.5 % (over 1 year)   |
| <b>Zero drift</b>            | ± 0.25 %   | ± 0.5 %   |
| <b>Non-linearity</b>         | ± 0.25 %   | ± 0.5 %   |
| <b>Response time</b>         | < 2 sec (high range)<br>< 12 sec (low range)                   | < 3 sec   |
| <b>Stabilization time</b>    | ± 0.1 %  | ± 0.5 %<br>Min rated range = 15 min to 6 h                    |
| <b>Dose rate dependence</b>  | < 0.5 %  | ± 0.5 %   |
| <b>Dimensions mm (LxWxH)</b> | Housing: 286 x 210 x 76<br>Housing with handle: 304 x 270 x 76 |   |
| <b>Weight</b>                | 2.4 kg   |   |

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