



# DOSE-X

Next-Generation Reference Class Electrometer

Exceeding IEC 60731 standards

# DOSE-X

## Reference Class Electrometer

### Meaningful innovation for your absolute dose measurements

The DOSE-X is a portable reference class electrometer exceeding IEC 60731 standards. Featuring high-precision technology, easy-to-use functionality and an intuitive user interface, the DOSE-X provides accurate measurements for your absolute dosimetry needs. Convenient automation, optimized workflows, and enhanced flexibility support your time-saving and efficient measurement protocols.



### Stand-alone and remote access with full functionality

- Full remote access through a web-browser
- Flash compatible
- Supports your TG-51 QA protocols
- Connectivity via WiFi, Ethernet or USB 3.0 Host.

### Supports all correction factors

- $k_{user}$ ,  $k_Q$ ,  $k_{Tp}$ ,  $k_{pol}$ ,  $k_S$
- Device calibration factor enables cross calibration to a department reference electrometer
- Constant monitoring of measurement parameters

### Library functions

- Extended detector library
- Check source library
- Machine library

### Fully documented API

- Operate your DOSE-X remotely with API through your preferred software environment

### Intuitive 10-inch HD touch screen

- Easy and efficient overview on one screen
- Workflow-optimized next-generation user interface

#### Use

Ref Class IEC 60731

#### Channels

1

#### Display

10" HD Touch

#### Languages

de, en, es, fr, it, pt, ru, jp, cn, kr

#### Connectivity

Ethernet LAN 1 Gbit/s, Wi-Fi [802.11ac/b/g/n], USB 3.0 Host

#### Dimensions [mm × mm × mm]

249.7 × 201.9 × 123.4

#### Weight

4.6 kg

#### Power supply

100 - 240 V, 50/60 Hz

#### Range [current]

400 fA ... 24 μA

#### Range [charge]

From 24 pC to 65 nC per pulse at a repetition frequency of ≤ 400 Hz

#### Resolution [current]

0.1 fA

#### Resolution [charge]

0.1 fC

#### Measurement modes

Manual, Automatic [beam triggered], Timed

#### Repeatability

< ± 0.25 % [≤ ± 0.25 % IEC 60731]

#### Long-term stability

≤ ± 0.2 % [≤ ± 0.5 % over one year, IEC 60731]

#### Response-time

< 1.5 s

#### Non-linearity

≤ ± 0.25 % [≤ ± 0.5 %, IEC 60731]

#### Zero drift

≤ ± 0.25 % [≤ ± 0.5 %, IEC 60731]

#### Bias voltage

± 50 V ... ± 500 V, ± 2 %

#### Zeroing

60 s [default]

#### Configurations

TNC Triax, BNC Triax [Adapter]

#### IBA Dosimetry

Independent & Integrated Quality Assurance  
Europe, Middle East, Africa | +49-9128-607-38  
North America and Latin America | +1 786 288 0369  
Asia Pacific | +65 3129 2472  
sales-therapy@iba-group.com | iba-dosimetry.com

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