



DIDO SERIES

DIDO2000K*

• **Range of Application**

- Digital & Conventional Radiography
- (Pulsed) Fluoroscopy
- Dental Intra-Oral
- Dental OPG
- Dental CEPH
- Dental 3D (DVT)
- Scanning Fan-Beam Systems
- Needle Beam X-Ray Systems



DIDO2100K*

• **Range of Application**

- Same as DIDO2000K
- Plus Mammography
- Plus Specimen Radiography
- Plus Local Dose Monitoring



* Units that carry the "K" in their name feature the kV functionality – units without it do not.

Why choose a DIDO meter?

• **Compact Design Concept**

The DIDO series diagnostic dosimeters are multifunctional Quality Assurance platforms. Strictly following our own Compact Design Concept, they feature optimised size and design plus a compact multi functional state-of-the-art detector.

Downsize-detector design facilitates measurements where only limited space for a proper detector positioning is available. Hence, measurements behind the scatter radiation grid of a radiography unit can be done with the DIDO without any limitations. And, no influence whatsoever is exerted on the automated exposure control (AEC) of x-ray units.

• **Genuine Features**

Despite their unpretentious appearance, the DIDO dosimeters are technically sophisticated and unmatched in performance in their class.

A great deal of unique features such as the verification of inherent tube potential, the display of both exposure and imaging time, or the dose-width product measurement, make them one of the most compact, multipurpose QA systems available.

• **All in One**

DIDO diagnostic dosimeters cover almost any field of x-ray application. No matter if conventional or digital modality, the meters can be used for measurements in Radiography, (Pulsed) Fluoroscopy, DSA, Dental, 3D (DVT), and Mammography.

Although the kV feature is part of the "standard" configuration of each DIDO,

the dosimeter can also be acquired without it. All other functions will be the same. The cost of a meter without kV feature will be lower – the price performance ratio, however, remains excellent.

• **Maximum Accuracy**

We consider maximum accuracy for our instruments as the company's main mission. After 25 years of developing and manufacturing dosimeters, we feel more than ever committed to provide meters which allow measurements within smallest tolerance and inaccuracy limits.

All our meters carry the German PTB type approval. They are calibrated to traceable national standards. A calibration certificate provided with a dosimeter is valid for two years after which the calibration in most cases has altered imperceptibly, if at all.

• **Fast and Reliable**

In today's service environment, tight schedules demand fast and reliable measurement results. The DIDO series diagnostic dosimeters provide exactly that. Our meters collect all data simultaneously in only one exposure. Except for a very short setup procedure, almost no further user interaction is required.

The DIDO dosimeters fully analyse each exposure and display all measured parameters after radiation ended. Measurement data can easily be queried via the 3-button panel on top. All data is automatically compensated and corrected before being displayed.

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AFRICA | ASIA | EUROPE | LATIN AMERICA | MIDDLE EAST | NORTH AMERICA



• **Made in Germany**

We are proud to say that all our instruments are MADE IN GERMANY. A maximum of quality in our production and quality control processes guarantee users of our

meters maximised precision and reliability for any application.

A lot of our early dosimeter models are still being used. They easily pass any calibration check and therefore

demonstrate their toughness and long term reliability as well.



The DIDO Specifications

• **Basics**

- Base Size 16.1 x 7.0 x 4.4 cm (L x W x H)
- Base Weight 235 g (incl. Battery)
- Display 4 digits plus Clear Text
- Detector Size 5.0 x 1.6 x 0.4 cm (L x W x H)
- Detector Weight negligible
- Detector Cable 2 m
- Power Supply 9 V Alkaline Battery
- Power Consumption below 7 mA
- Battery Life approx. 2 years
- Auto-Off after 10 min.

• **Measurement**

- Single Exposure Method
- Only 2 Setup Configurations needed
- Full Range Auto-Compensation for Dose
- Measurement Start Auto
- Measurement Stop Auto
- Intermediate Reset Auto
- Calculation Process 2 s

• **Data Communication**

- USB 1.1 Interface (2.0 compatible)
- Data Read-Out available as optional feature

• **Time**

- Range 0.5 ms – 40 s (or 20 s optional)
- Resolution 0.1 ms
- Trigger Level 0.1 nGy/s
- Uncertainty < 0.5 % (+/- 0.5 ms)
- Time Modes Exposure Time (Full Exposure)
Imaging Time (Radiation above
50 % Dose Rate Level [compliant
with IEC 60601-2-54])

• **Dose**

- Exposure Conditions Attenuated and Open Beam
(Pre-Configuration required)
- Range 5 nGy – 999 Gy
- Resolution 0.01 nGy
- Min. Exp. Cond.*
DIDO2000K 0.6 mA / 40 kV / 25 mm Al / 90 cm

Min. Exp. Cond.*

- DIDO2100K 0.3 mA / 22 kV / no filtration / 80 cm
- Uncertainty < 5 %

• **Dose Rate**

- Range 0.1 µGy/s – 1.0 Gy/s
- Resolution 0.1 nGy/s
- Trigger Level DIDO2000K 250 nGy/s
- Trigger Level DIDO2100K 100 nGy/s
- Uncertainty < 5 %
- Dose Rate Modes Real-Time Display Period Dose
Rate (half-exposure) Maximum
Dose Rate

• **kV**

- Exposure Conditions 2.5 mm Al for open beams
(Verification of inherent tube
filtration) 0.8 mm Cu Added
Filtration (DIDO kV filter) or
25 mm Al Added Filtration
(Pre-Configuration required)

- Range DIDO2000K 40 – 150 kV
- Range DIDO2100K 22 – 35 kV / 40 – 150 kV
- Resolution 0.1 kV

Min. Exp. Cond.

- DIDO2000K 0.6 mA / 40 kV / 25 mm Al / 90 cm

Min. Exp. Cond.

- DIDO2100K 0.6 mA / 40 kV / 25 mm Al / 90 cm
5.0 mA / 22 kV / no filtration / 80 cm
(Mammo)

- Uncertainty < 5 %

- kV Mode kVp / effective kV

• **Pulses**

- Range 1 – 65.000
- Resolution Single Pulse
- Trigger Level DIDO2000K 250 nGy/s
- Trigger Level DIDO2100K 100 nGy/s
- Uncertainty +/- 1 Pulse

* Minimum Exposure Conditions

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