



## VeriDose V

### Patient Dose Monitor



For more than two decades, Nuclear Associates has been the leading developer and marketer of state-of-the-art patient dose monitoring systems. Our instruments are relied upon for their high-quality and excellent performance in facilities throughout the world. With a Nuclear Associates

patient dose monitor and diodes, you can be sure you are getting the very best products available in the marketplace, at prices that are as pleasing as their performance.

Today's medical professionals treating cancer patients with radiation must continually deal with increasingly stringent regulations and QC guidelines, as well as new treatment techniques that require greater precision in setup and dosimetry (variable dose protocols). These innovative, precision instruments reflect Nuclear Associates' ongoing commitment to deliver the accurate, reliable products medical professionals require to help prevent misadministration and promote optimal patient care.

The VeriDose 5 Patient Dose Monitor and VeriDose Diode Detectors from Nuclear Associates have been specially designed to meet the present and future demands of the radiation oncology department.

Nuclear Associates' VeriDose 5 Patient Dose Monitor is a five-channel unit that records patient dose verification data from actual radiation measurements made on the patient during treatment.

With Nuclear Associates' VeriDose 5 Patient Dose Monitor, you get:

**Accuracy:**

- Measurements and updates are provided in real time, accurate to within 1% or better.
- When used in conjunction with Nuclear Associates' VeriDose Diode Detectors, this patient dose monitor can measure rates as low as 1 cGy per minute.
- Automatically adjusts the proper offset voltage for each detector, resulting in up to ten times less drift than other products.

**Time-Savings:**

- VeriDose 5 stores up to 25 separate calibration sets. A calibration set can be created for up to five diodes at one time.  
This saves time, eliminates the trouble of individually calibrating each diode, and ensures consistent irradiation parameters for all the diodes in a given calibration set.
- The patient dose measurements menu is user-friendly for fast, easy setup and use.

**Documentation:**

- When interfaced with a standard printer, you can print:
  - Patient treatment dose reports.
  - Date and time of the procedure.
  - Diode detector group and serial number.
- This data acts as documentation of patient progress, quality of treatment, and a permanent file for reimbursement and insurance purposes.
- Use of the VeriDose 5 may qualify a facility for reimbursement under CPT-4 Section 77331 Special Dosimetry.

**Convenience and Ease of Use:**

- No computer is required in order to produce complete patient dose reports.
- The RS-232 interface can be used with the included Microsoft® Windows™ Excel add-in Software for long-term data storage.
- Data is communicated on a large, easy-to-read, back-lit liquid crystal display that prompts you with a variety of menus.
- In both Dose and Rate modes, measurements are displayed for all channels simultaneously.
- VeriDose 5 can generate printouts of all activities, from setup to measurement parameters, including calibration.
- Calibration can be averaged using multiple exposures.
- Facility name can be entered in setup mode.
- VeriDose 5 measures and displays real time dose rate or integrated dose on

up to five diodes simultaneously.

- VeriDose 5 can be used on continuous (Cobalt 60) x-ray beams, pulsed (linear-accelerator) x-ray beams, and electron beams.
- All activities are performed using just five “soft-keys.”
- European-style numbers, date and time are user selectable.
- Alarm level can be individually activated for each channel.
- All initialization, setup, and calibration information is maintained in on-volatile memory.

### **Included with every VeriDose 5, is Microsoft Windows™ Excel Add-in Software**

This software program is included with every VeriDose 5 Patient Dose Monitor, providing a versatile and full-featured software interface. The add-in allows full operator control of the VeriDose 5, for routine patient dose measurements via a PC.

Measurement data can be displayed, stored, printed and represented graphically within the Excel spread-sheet. The Excel format allows the user to easily customize patient treatment reports to suit their documentation needs. The VeriDose 5 Excel add-in software, used in conjunction with the VeriDose QC Phantom, provides trending over 31 days, for X-flatness, Y-flatness, X-symmetry, Y-symmetry and daily dose constancy. The Excel add-in also allows quick and efficient performance evaluation of therapy equipment, while simplifying the recordkeeping process. Once data is acquired and saved, it can be easily accessed over the network.

### **VeriDose 5 Patient Dose Monitor:37-705**

Includes:

One 3 1/2" Disc Containing MS Windows™ Excel Add-in Software,  
One AC Adapter and Two 30-meter  
Extension Cables

### **VeriDose 5 Patient Dose Monitor Kit:37-705-4321**

Includes:

- One VeriDose 5 Patient Dose Monitor
- One 3 1/2" Disc Containing MS Windows™ Excel Add-in Software
- One AC Adapter
- Two 30-meter Extension Cables
- One Seiko Label Printer Kit (model 37-705-1111); Includes: Printer, Printer Cable, Adapter, Patient Treatment Dose Report Worksheet, and more
- One Diode Holder, Wall-Mountable with Five Slots (model 30-492-1000)

## Specifications:

Input Circuitry: Five electrometer channels digital zeroing and gain control; bi-polar

Rate Range: 1.0 cGy/minute to 1000 cGy/minute

Dose Range: 0.1 cGy to 1000 cGy

Sensitivity Adjustment: 0.1 nC/cGy to 10 nC/cGy

Display: 240 x 64 dot Liquid Crystal Display (LCD);

8 lines x 40 characters, with CCF backlight

Clock: Real time clock, battery operated, USA or European format

Alarm: User-selectable level for each channel

User Controls: On-Off switch, 5-column select soft-keys for control functions, scroll-up,

scroll-down, and enter key for data entry

User Setup Parameters: Stored in non-volatile, battery-backup RAM

Computer Interface: RS-232C, 19.2 BAUD, 8, N, 1;

data format: standard decimal points or Euro-commas

Printer Interface: Parallel, selectable drivers for:

LaserJet, Label printer; ASCII Format only

Storage Temperature: 0° C to 70° C

Operating Temperature: 10° C to 30° C

Relative Humidity: 5% to 95% non-condensing

Power: 120 VAC, 60 Hz or 230 VAC, 50 Hz to

12 VDC @ 1A; AC adapter, UL, CSA, CE

Dimensions: 9" Wide x 8.5" Deep x 2.5" High

(22.9 cm W x 21.6 cm D x 6.4 cm H). (EMI shielded.)

Weight: 2.5 lbs. (1.2 kg)

---

© Elimpex-Medizintechnik, Spechtgasse 32, A-2340 Moedling, Austria

phone +43-2236-410450

fax +43-2236-410459

---

