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VeriDose V
Patient Dose
Verification Monitor

The VeriDose V is a five-channel patient dose verification monitor designed to meet present and future demands of the radiation oncology department. The VeriDose V may be used with continuous beams (^{60}Co), pulsed beams (linear accelerators), x-rays and electrons.

The VeriDose V features an easy to learn and easy to operate Easy-Flow menu controlled with only five menu softkeys, two scroll keys and an enter key. All initialization, setup, and calibration information is maintained in non-volatile memory. A group database containing up to 25 diode groups, with up to 5 diodes per group, may be configured, labeled and calibrated by the operator for subsequent measurements. Calibration and treatment data can be transmitted to a printer or computer.

When interfaced with an IBM-compatible printer, a user can print: the date and time of the procedure, dose and dose rate, detector group with serial numbers, user entered institution name, as well as other important information. This data serves as documentation of patient progress, quality of treatment, and as a permanent file for reimbursement and insurance purposes.

A computer is not required to operate the VeriDose V. An RS-232 data link and MS Windows® Excel Add-in is available for storing measured data reports on an IBM-compatible computer.

The VeriDose V is compatible with EquiDose II, VeriDose, Isorad and QED diode detectors. It reads detectors with negative or positive output polarity equally well.

Features:

▶ Easy-Flow menu
▶ Input polarity insensitive
▶ Simultaneous dose and dose rate
▶ Excel Add-in option available
▶ Wide choice of printer drivers
▶ Can be used to measure symmetry and flatness with an optional phantom

Specifications

Dose range:	0.1 cGy to 1000 cGy
Rate range:	1 cGy/min. to 1000 cGy/min.
Modalities:	^{60}Co, pulsed beams and electron beams
Display:	240 x 64 dot LCD, 8 lines x 40 characters with CCF backlight, Easy-Flow menu
User controls:	ON-OFF switch, 5-column select softkeys for control function, scroll up, scroll down, ENTER for data entry
Calibration:	up to 25 diode configs. can be stored
Alarm:	user-settable for each channel
Clock:	real time clock, battery operated, USA or Euro
Memory:	non-volatile battery backed up RAM
Inputs:	five bipolar electrometer channels
Input sensitivity:	0.1 nC/cGy to 10 nC/cGy
Input connectors:	coaxial BNC
PC interface:	RS-232C serial port
Printer interface:	parallel port, selectable drivers for laser printer in ASCII
Power:	120 VAC 60 Hz or 220 VAC 50 Hz to 12 VDC at 1A, wall-mount transformer, UL, CSA, CE
Dimensions:	23 x 21.6 x 6.4 cm (9 x 8.5 x 2.5 in)
Weight:	1.2 kg (2.5 lbs)

EquiDose®II Diode Detectors

Modality	Model (neg)*	Optimal energies	Buildup (g/cm²)	Buildup Material	Color Code
Photons	40-1120	1 - 4 MV	1.09	aluminum	blue
	40-2120	6 - 12 MV	1.91	brass	yellow
	40-3120	15 - 25 MV	3.10	brass	red
Electrons	40-5120	4 - 25 MeV	0.36	acrylic	grey
Skin	40-6120	70 keV - ^{60}Co	0.11	none	black

* Positive polarity detectors available upon request.

Accessories
37-705-2100: Excel Add-in Software

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