IVD
Patient Dose Verification Monitor

The basic IVD system includes a battery module, processor module (turtle), one 3-channel detector input module, the PC interface software and interconnecting cables. The system is designed to attach to a therapy couch. A location close to the patient allows for short, tangle-free detector cables and ease of detector placement.

The IVD may be used with EquiDose®II, QED, VeriDose, or Isorad solid-state detectors.

With the additional 3-channel input modules attached, the basic IVD system may be expanded up to 39 channels in increments of 3-channels per module.

Windows® software is at the heart of the IVD. As a PC-based system, the user is afforded greater control and flexibility. Daily treatments may be performed from the software with ease and efficiency, while all specified and measured data are being stored for future reference. Setup, calibration and system configuration functions are performed quickly and with full security.

A therapist screen contains only those functions necessary to perform monitoring of the patient. Complete patient monitoring is performed with two clicks of the mouse. Specified patient data and measured treatment results may be automatically stored or printed. Within the physicist screen all non-routine functions are performed. There are utility programs to establish communications, download program updates and manage data files. In the password-protected physics screen, all system setup, calibration and all non-routine functions are performed.

Optional Display Module

For those who do not wish to dedicate a computer to daily treatment use, an optional display and printer are available. The display is designed with the same appearance and configuration of the therapist screen within the PC software. The printer automatically generates a hard-copy of the results for inclusion in the patient file.

Specifications

BASIC SYSTEM MODEL 1135000-0

System components: ..... one detector pod, interface module (turtle), software, and interconnecting cables
Dose range: ..... 0.1 to 9999.9 cGy
Dose rate range: ..... 0.1 to 7200 cGy/min
Beam limits: ..... 7200 cGy average rate, 2.8 cGy per pulse, with 0.4 nC/cGy detectors
Detector inputs: ..... 3 coaxial BNC, expandable to 39 inputs with additional pods
Readout: ..... PC or optional control module
Cables: ..... 25 m flat, modular phone connector to PC, 2 m serial cable, DB9 connector to PC
Power: Turtle: ..... 100 to 240 VAC, 47 to 63 Hz
Pod: ..... +15 V from turtle, NiHM recharg. batt.
Dimensions: ..... Turtle: 7 x 12 x 3 cm, Pod: 7 x 12 x 3 cm
Weight: ..... Turtle: 340 g, Pod: 340 g

Accessories

1135000-2 ADDITIONAL DETECTOR POD

Inputs: ..... 3 coaxial BNC, negative or positive input

1133000-3 DISPLAY MODULE

Display: ..... alpha-numeric, 2 line, 16 char. LCD, 8 mm high
Controls: ..... 15 momentary keys, 15 red LED indicators
Data link: ..... 8-conductor modular phone type serial port
Printer port: ..... miniature phono-plug socket
Power: ..... 100 to 240 VAC, 47 to 63 Hz
Dimensions: ..... 14 x 16 x 3.5 cm
Weight: ..... 780 g

024000 PRINTER

Type: ..... Seiko Thermal DPU-414
Power: ..... 9 VAC, from 115 VAC wall mount transformer

220VAC POWER SUPPLY

Mains: ..... 115 or 220 VAC, switch selected, 50/60 Hz
Output: ..... 7.5 VDC for IVD, 9 VAC for printer

EquiDose®II Diode Detectors

Modality	Model (neg)*	Optimal energies	Buildup (g/cm^2)	Buildup Material	Color Code
Photons	40-1120	1 - 4 MV	1.0	aluminum	blue
	40-2120	6 - 12 MV	1.6	brass	black
	40-3120	15 - 25 MV	2.6	brass	red
Electrons	40-5120	4 - 25 MeV	1.6	acrylic	green
Skin	40-6120	70 keV - ^{60}Co	2.6	none	gray

* Positive polarity detectors available upon request.

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