

The ED2 Personal Extremity Dosimeter is the latest in a line of Portable Personnel Radiation Monitoring Systems designed to monitor the radiation levels to a person's extremities in the Radiopharmaceutical, Research, and Industrial fields, and also to monitor a patient undergoing a Nuclear Medicine procedure.

Thermo Scientific ED2 Personal Extremity Dosimeter Monitoring System

Real-Time Extremity Dosimetry and Video Package



Key Features

- Multiple detectors
- Real-time dose, dose rate, and accumulated dose information
- Data logging capability and individual record storage using secure digital memory card
- Video synchronization for ALARA review
- Audible alarms
- Integrated video package
- Total user configuration
- Multi-functional integral display
- Wireless Bluetooth interface
- Complete package: silicon diode detector, interface software; audio and video interface

Applications

- Real-time finger/extremity monitoring of radiopharmaceutical techniques
- Real-time extremity monitor for researchers handling radioactive material in a hot lab environment
- Real-time ALARA extremity monitoring of industrial radiation
- Real-time monitoring and historic data collection for patients during a Nuclear Medicine procedure.



The Thermo Scientific ED2 Extremity Dosimetry System is a complete extremity dosimetry and video package comprised of one or two silicon diode detectors, interface software, and an audio and video interface. The system is designed for monitoring radiation levels to a radiation worker's extremities, providing real-time dose and dose-rate information, audible alarms, and an integrated video package. Additionally, the system can also be used to monitor and collect valuable data associated with Nuclear Medicine procedures.

The ED2 monitors the worker's radiation level (instantaneous dose rate and accumulated dose) and will sound an alarm if pre-set levels are exceeded. The ED2 utilizes a single/dual silicon diode probe configured to monitor beta/gamma radiation.

The ED2 stores the monitored data internally

on an SD memory card. The logged data can be later analyzed and transferred to a central software system.

The configuration and data analysis of the ED2 is achieved through the ED2 Interface software application. This application connects by inserting the ED2 data card into a PC card reader.

Perfect for ALARA review, the real-time extremity dose rate data is synchronized with audio/visual data, including wireless video feeds from up to two cameras. Remote dose rate information can be trended and analyzed to ensure safety compliance and optimal ALARA techniques. Using the data/video replay training module, management can help train and refine safe work practice techniques.

ED2 System

Radiological Specifications

Radiation Measured	Beta, gamma, and X-ray
Radiation Units	Sieverts (mRem) - Hp(10) Personal Dose Equivalent or H*(10) Ambient Dose Equivalent
Dose Rate	μSv/h or mSv/h or uSv/m or mSv/m mRem/h or Rem/h
Dose Range	0 uSv - 10,000 mSv 0 mRem - 1,000 Rem
Dose Rate Range	0 uSv/h - 30 mSv/h (300 mSv/h overload) 0 mRem/h - 3 R/h (30 R/h overload)

Physical Specifications

Dimensions	105mm H x 60mm W x 20mm D (4.1" H x 2.3" W x 0.8" D)
Operating Temperature	0°C - 30°C (32°F - 86°F)
Humidity	20% - 90% RH non-condensing
Protection Rating	IP55
Vibration	2g, 15 minutes, 10-33 Hz
Audible Alarm	85 dB(A) at 10 cms

SD Card Specifications

Card stores information:	User name
	User ID
	Instrument serial number
	Detector serial number
	Data storage
	Data field (detector, date, time, counts, sample period, status flag)

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