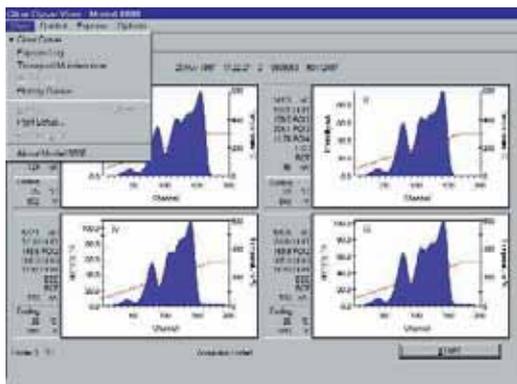


The high-capacity TLD Reader, Model 8800, offers immediate benefits and future upgrades to all TLD Radiation Protection Dosimetry Services.

Harshaw 8800

Dosimetry Reader

- Field-proven reliability
- Automatically reads a carousel containing up to 1400 four-element cards at 140 cards per hour
- A unique chain-of-custody tracks and maintains records



The Model 8800 is controlled through screen dialogues, using the mouse to make selections from the drop-down menus. It can also be networked with Model 4500 and Model 6600 in discrete or shared dosimetry applications.

A new operational environment supports NT Windows™, explicit on-screen text and menu-driven control. The card readout has been accelerated up to 140 cards per hour. EXT-RAD and DXT-RAD extremity dosimeters are also processed automatically on carrier cards.

Element Calibration Coefficients (ECCs), Reader Calibration Factors (RCFs) and card acceptance procedures are controlled by a new automatic QA program.

The precisely controlled heating profiles offer consistent, repeatable glow curves, suitable for further analysis.



Backward compatibility with TLD-REMS and NETREMS software protects your existing records and enhances user skills.

System Specifications

- Measures beta, gamma, X-ray and neutron doses, singly and mixed
- Dosimeters and algorithms meet international accreditation requirements including all DOELAP and NVLAP
- Precise, highly controlled, highly reliable linear heating by gas:
 - Produces uniform heating
 - Provides better reproducibility
 - Extends dosimeter life
- Host computer with VGA color monitor
- Menu-driven control of "expose", "transport cards", and "diagnostics"
- Explicit on-screen text -no cryptics
- Optional 90Sr internal irradiator
- Optional UPS prevents loss of data during power failures

PMT clean-out drawer

- The photomultiplier tube assembly is accessed for inspection or cleaning, as required, via a small clean-out drawer.
- Hot gas flow control
- The precise flow of hot gas to the four heater tubes for the TLD dosimeter elements is controlled by four precision flowmeters adjusted and balanced during factory setup.
- High Voltage Potentiometers (not pictured), are mounted within the Reader, allowing precise adjustment.

Back panel computer interface

The back panel controls include a keyboard enable/disable switch and the following connectors:

- Keyboard
- Mouse
- Screen
- Serial port
- Parallel printer port.

Hinged panels

The carousels and photomultiplier tubes are accessible through hinged panels in the cover.

The whole cover is entirely removable in one piece to access all internal parts without disconnection. The transport mechanism is mounted on slides for very easy access to the moving parts.

Software options

WINREMS

The WINDOWS™ Reader Evaluation and Management System, WINREMS, is a menu-driven software package for dosimetry with a Model 8800 and an external computer. With WINREMS you can:

- Set the Reader's acquisition parameters
- Implement quality assurance
- Generate and maintain Reader and Dosimeter calibrations
- Store and review TL data
- Report in ready-to-file formats.

WINREMS is suitable for whole body, environmental and extremity monitoring applications and interfaces with other Harshaw TLD software and other data processing equipment.

WINREMS is suitable for networking:

- Different Reader models can share data with a central file server host
- Any networked Reader can generate calibrations
- Common databases can be used by Readers
- ASCII data can be transferred in user-defined formats, and used with user-developed programs or products of the Harshaw TLD line.

WINREMS includes Employee ID software:

- Each dosimeter reading is specifically and uniquely related to the wearer's identity
- Wearer's identity is attached to dosimeter status regardless of work location
- Continuity of dosimetry data is maintained
- Data can be entered manually or by bar code scanner.

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