

NEW PRODUCTS

■ Computerized Dynamic Line Phantom

Nuclear Associates introduces the Computerized Dynamic Line Phantom, an instrument that will provide a true and accurate flood uniformity test for gamma cameras. The new phantom uses the principle of a thin line source transversing the camera. Using microprocessor technology, it can simulate a number of different phantoms. It can provide direct measurement of the modulation transfer function; evaluate collimator operation; and check the complete imaging system—camera, interface, processing, and display. The computerized dynamic line phantom consists of a long slender line source on a movable source holder. A microprocessor generates a sequence of pulses that drive a stepping motor and moves the source holder across the phantom. The line source can be filled with any isotope. Tests can also be accomplished by using gases such as krypton. The radiation intensity is inversely proportional to the velocity of the line source so different test patterns can be generated by different pulse sequences. The new phantom incorporates conventional phantoms such as flood, quadrant bar, PLES, orthogonal hole, flood sources, Hine-Duley, and BRH test patterns: it is preprogrammed to perform sixteen quality control tests. The phantom will significantly reduce the amount of time now being spent performing quality control tests and will provide fast, accurate, cost-effective results. The phantom will also dramatically reduce personnel exposure because the radioactive material is concentrated into a thin line, compared to the large surface of a conventional flood source or phantom. *Nuclear Associates, A Division of Victoreen, Inc., 100 Voice Road, Carle Place, NY 11514, Attn: Martin Ratner. (516) 741-2166.*

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■ Aluminum Oxide Thermoluminescence Dosimeter

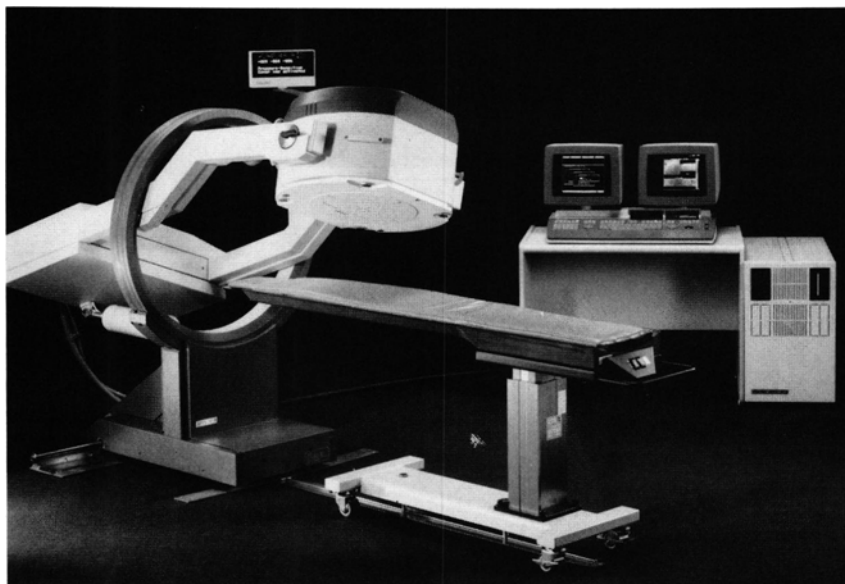
Victoreen has recently released Model 2600-80 aluminum oxide dosimeter. This model is effective in monitoring small amounts of environment and worker exposure in uncontrolled areas, due to its high sensitivity to gamma rays and a useful dose range of 0.5×10^{-3} to 10 Gy (0.05×10^{-3} to 10^3 R). In addition, the overresponse to lower energy gamma rays and X-rays

Each description of the products below was condensed from information supplied by the manufacturer. The reviews are published as a service to the professionals working in the field of nuclear medicine and their inclusion herein does not in any way imply an endorsement by the Editorial Board of the Journal of Nuclear Medicine Technology or by The Society of Nuclear Medicine.

make it exceedingly useful in conforming to new ICRP recommendations and the pending revision of 10CFR20. These documents require maintenance of personnel records showing dose equivalent weighted by specific organ. *Victoreen, Inc., 6000 Cochran Road, Cleveland, OH 44139, Attn: Margaret Meek. (216) 248-9300.*

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■ APEX SP-4/HR High Resolution Gamma Camera



Elscont announces the introduction of the newest camera in its APEX SP Series, the APEX SP-4/HR High Resolution Gamma Camera. The camera demonstrates excellent resolution of 3.3 mm over the entire field-of-view: This resolution is achieved through a newly designed detector head with 61 high quantum efficiency photo-multiplier tubes, which employ unique electron optics and advanced camera electronics. The APEX SP-4/HR is an all-purpose integrated camera with "beyond 32-bit" computer power. Key benefits of the new camera include high patient throughput, excellent cost/performance ratio, and easy integration with

■ Large Volume Pipettes

Medical Laboratory Automation, Inc. (MLA) introduces a range of large volume pipettes to facilitate the transfer of large volume liquids. The adjustable macro pipette is durable and reliable. Using the MLA macro tip, a graduated disposable tip, any volume between 1 ml and 5 ml can be dispensed easily and completely in 0.1 ml increments. An automatic overblow feature ensures complete liquid discharge with a single downstroke. MLA also offers five fixed volume pipettes, ranging in size from 1 ml to 5 ml and one selectable volume pipette that offers a selection of four volumes, 2 ml to 5 ml, in one pipette. *Medical Laboratory Automation, Inc., 270 Marble Avenue, Pleasantville, NY 10570, Attn: Edward Kozel. (914) 747-3020.*

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Elscont's currently installed APEX systems. The compatibility feature is crucial since clinical procedures and records are built up over many years. Elscont guarantees complete data, software, and operational compatibility with earlier APEX models. The APEX SP-4/HR High Resolution Gamma Camera offers enhanced imaging performance, continuous adjustment through real-time automatic optronic stabilization, optimal imaging throughout the detector area, and excellent camera stability over time. *Elscont, Inc., 930 Commonwealth Avenue, Boston, MA 02215, Attn: Tom Wilber. (617) 739-6000.*

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