New Products

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.*

Victoreen Ion Chamber Radiation Survey Instrument

Victoreen, Inc. recently announced the introduction of its new Model 450 radiation survey meter for health physics and medical physics applications. Based on the accepted characteristics of the ion chamber radiation detector combined with the latest CMOS micro-processor technology, the Model 450 is ideal for use in x-ray, beta and gamma ray dose-rate measurements.

The display of the Model 450 is unique, offering both a 101 element analog bar graph that is fully labeled with scale digits and a 2½ digit display that also provides the proper units of measurement. The bar graph, which is provided with a faster response time than the digital display, makes the instrument ideal for dose-rate surveys.

The Model 450 is fully gasketed and features an overlay which covers the display and control switches, making the instrument both submersible and shock-resistant.—*Victoreen, Inc., 10101 Woodland Ave., Cleveland, OH 44104.*

Circle Reader Service No. 31

New 'How to Schedule' Catalog Features Over 1,000 Modular Scheduling Board Kits

Methods Research Corporation announces its new full color 64-page "How to Schedule" catalog for use in selecting effective methods to organize and improve your entire department, using magnetic scheduling boards. The catalog features over 1,000 kits and illustrates in detail various systems used in the areas of scheduling Personnel, Projects, Production, Computer Time, Equipment, Maintenance and Management Controls. Also included are thousands of accessories for use in customizing standard kits.—*Methods Research Corporation, Asbury Avenue, Farmingdale, NJ 07727.*

Circle Reader Service No. 32

Physicians' Current Procedural Terminology

The 1985 volume of the Physicians' Current Procedural Terminology (CPT) is available. Prepared by the CPT-4 Editorial Panel with the assistance of physicians representing all specialties of medicine, CPT is revised yearly to bring you the most current information available. A good portion of the entire edition has been revised, with some sections having undergone major revisions (e.g., Ophthalmology, Pathology, Radiology, and Urology).

Because new procedures are constantly being developed, and existing procedures are modified to reflect changes in medical practice, the field of medical nomenclature and procedural coding is rapidly changing. CPT-1985 assures accuracy in designating medical, surgical, and diagnostic services through the means of a reliable uniform language—a language that serves as an effective communication link among physicians, patients, and third parties.

The CPT coding system has been adopted for use in Medicare and Medicaid. It is anticipated that many private agencies will be requiring CPT coding in the near future. Having the current CPT book available to office staff will be helpful in filling out claim forms as accurately as possible.

For offices or institutions, the CPT coding system is available in tape format. The tapes, like the CPT publication, are annually revised to keep them current.—*Write: Department of Fulfillment, American Medical Association, 535 North Dearborn St., Chicago, IL 60610, or call (312)280-7168.*

($25.00 per copy plus $1.50 handling.)

Circle Reader Service No. 33

Matrix Introduces Laser Technology to Medical Image Recording

Matrix Instruments has announced a new digitally-driven laser film recorder, the Matrix® LR™, which creates a high resolution image directly on film, pixel by pixel. Instead of forming the image with an electron beam scanning a CRT, then recording that image on film, the LR laser beam scans directly on the film. It accommodates 14″×17″ film, uses a daylight loading system, and can provide a resolution of 4000 × 5000 pixels with a density range of 12 bits.

LR is described as a simple, yet versatile, high resolution digital recorder. Its two-dimensional scanning system eliminates the need to control film movement during scanning. It provides high geometric fidelity, high speed, broad dynamic range, and wide gray scale because each pixel provides 4069 intensity levels.

Because it is digitally driven, Matrix LR can accept multi-modality digital input from MR, CT, DSA, and Nuclear Computer systems. It can also multi-format, on a single sheet of film, images from different modalities, even when images are of different sizes. This allows comparative studies on one sheet of 14″×17″ film.

A companion product, the Matrix® LD™ laser digitizer, in essence, functions just the opposite from the laser recorder. It scans an existing image and transfers it into digital information, pixel by pixel. LD can scan conventional x-ray film of any size, including chest images. In digital format, x-ray image data then can be reviewed, transmitted to multi-modality work stations within a facility or in remote locations, and can be enhanced, examined at different bit layers, and viewed for comparison with images from other modalities.

Matrix points out that after image data from various modalities is in digital format, it can be stored, retrieved and transmitted with ease. This offers completely new possibilities for data management and storage. In addition, laser digitizing allows image enhancement, and achieves new levels of reliability and resolution.—*Matrix Instruments Inc., One Ramland Rd., Orangeburg, NY 10962.*

Circle Reader Service No. 34