

new products

(and developments)

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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

A camera designed by Pye Ltd. for the United Kingdom Atomic Energy Authority is used to view the interior of an atomic reactor when the degree of nuclear radiation makes direct inspection impossible. A young mechanical engineer, W. L. Cruickshank, worked for 18 months on the mechanical engineering problems involved in the development of this Atomic Age camera.

The design is based on that of well-established equipment used for normal industrial applications, employing only valves and components of standard types which are currently available. The chain



comprises a camera head unit Type 2035 and a control unit Type 2324.

The camera head unit is fitted within a cylindrical stainless steel tube, having an

outside diameter of $3\frac{1}{2}$ in. and is approximately 40 in. in length, including end couplings. All metal parts are of stainless steel or elektron and all electrical parts are "potted" in order that the unit may be decontaminated after being exposed to radiation.

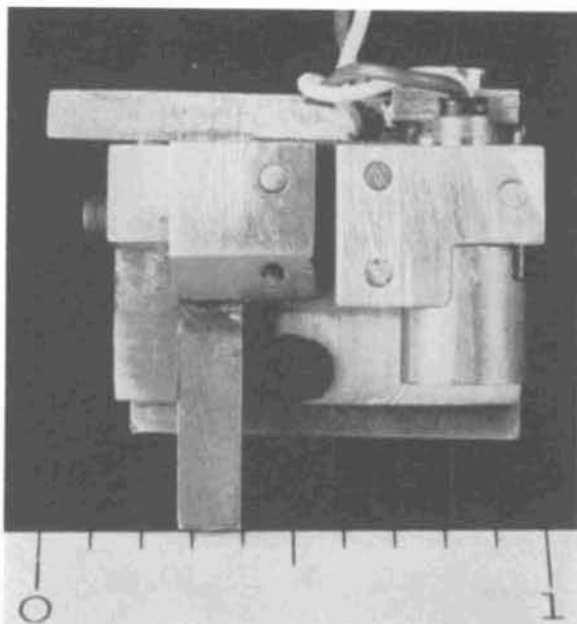
As the camera may be used in temperatures up to 200 C, provision is made for the application of a coolant such as carbon dioxide, to keep the temperature within the unit below 50 C. The coolant is applied with a flexible hose which forms a loose-fitting sheath over the interconnecting cable.

A single-lens optical system is employed, incorporating a viewing lens with a focal length of $1\frac{1}{2}$ in. and a viewing angle of 21° . A 72-w 4-lamp lighting system is used for scene illumination and an adjustable mirror provides for sideways viewing. The lens, lamps and mirror are mounted together in a turret assembly which also incorporates a solenoid for controlling the position of the mirror and a motor-driven mechanism by which the whole assembly can be rotated. A photoconductive pick-up tube, the Staticon Type 932, made by Cathodeon Ltd., is used to convert the optical image to an electrical signal. This signal is amplified by a single-stage preamplifier before being passed to the control unit via the interconnecting cable.

The control unit is housed within a rectangular metal case, 14 in. in height, $6\frac{1}{2}$ in. in length and is fitted with a carrying handle. The side panels are secured by quick-release fasteners and are easily detached to give access to the components and preset controls located within the case. Incorporating all the essential requirements for the control of the picture signal produced by the camera, the unit may be located with a picture monitor to form the control center of the installation and permit the camera to be unattended.

THIS IS...

an orbital magnetic mount and head (greatly enlarged—its actual size is only $1 \times \frac{3}{4} \times \frac{1}{2}$ in. and it will adapt to sound drums or sprockets with a diameter of 0.75 in.). Vernier azimuth, tangency and facing adjustments are provided.



Designed for camera and projector magnetic sound conversions with the essential standards established and with the pre-stripped film available. Immediate use of 16mm magnetic soundtrack is now attainable with the superior quality characteristic, independent of processing errors, of magnetic sound.

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Two lamps mounted on the top of the unit provide for visual monitoring of the operating temperature within the camera head unit. The lamps are colored green and red. The green lamp is "on" when the operating temperature is below the safe maximum level of 50 C, and the red lamp gives warning when the temperature rises above that level.



The Type W5 Variac autotransformer, manufactured by General Radio Co., 257 Massachusetts Ave. Cambridge 39, Mass., offers a number of new features including Underwriters Laboratories listing, military ruggedization and counterbalanced rotating parts. Two cased models, both totally enclosed, are included in the new line One

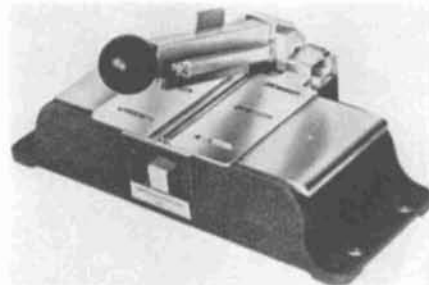
model, Type W5M, is intended for wall or panel mounting and is provided with conduit knockouts. Type W5MT is bench and portable model complete with input cord, switch and output plug. This model is also available with the new NEMA 3-wire output receptacle and plug (Type W5MT3). Two-gang and three-gang assemblies of both 115-v and 230-v Variacs are available in enclosed or open models.

The new W2 Variacs are similar in general construction to the W5 line except that current and kva ratings are 40% of the Type W5, and their dimensions and weight are considerably less. The basic W2 model has an increased rating of 20% above the Type V-2, which it supersedes.

The annual Magnasync Sound Safari left August 1 for a tour of the country to demonstrate latest developments in sound equipment to producers. Since 1953, the Magnasync Mfg. Co., 5546 Satsuma Ave., North Hollywood, has made a yearly practice of carrying sound equipment to producers throughout the United States so that tests may be made in the producers' own studios. In the larger cities meetings are arranged where techniques and equipment may be discussed.

Circle Film Laboratories, Inc., 33 W. 60 St., New York 23, has been purchased by Fred Todaro and the firm name has been changed to Criterion Film Laboratories. Todaro joined the company about a year ago as plant superintendent. He announced that plans for the newly named company

included additional technical personnel and a wider range of activities.



The Opto Multi-Splicer, a product of the Photographic Analysis Co., 100 Rock Hill Rd., Clifton, N.J., splices either 35mm or 70mm film and with a slight modification will splice any size film between 35mm and 70mm. The cutting blades and emulsion scraper are chrome plated over hardened tool steel. Guide pins are precision machined and located within 0.0005 in. The splicer is designed for the operator to choose the location of his splice between frames by a screwdriver adjustment. A positioning lever locates the film in the exact place for cementing after cutting.

The Opto Serial Marker, a product of the Photographic Analysis Co., 100 Rock Hill Rd., Clifton, N.J., is a new equipment for recording a 5-digit serial number on film or photographic paper before processing.

The serial number measures only $\frac{1}{8} \times \frac{1}{8}$ in. so that the picture area is not affected. There are three steps in the operation of

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A professional unit for making strong, low-visibility splices quickly and easily. Features a semiautomatic, pre-set scraper that removes emulsion to the precise depth every time. Precision made, easy to maintain. Models for negative or positive use, combination 8mm-16mm or 35mm. Perfect for use with the Harwald Inspect-O-Film.



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MODEL 654

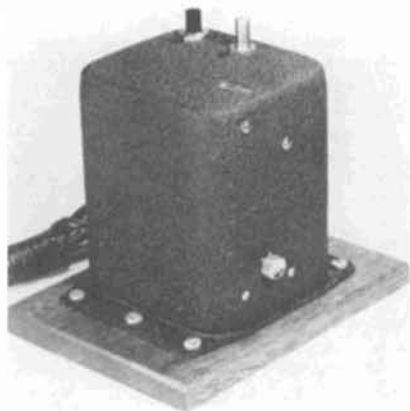
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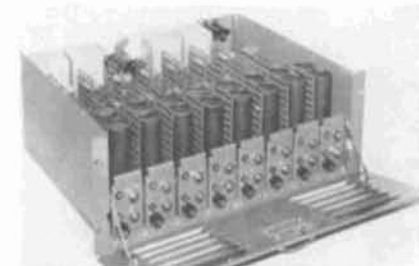
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the marker. First, the film is pressed against the window with the right thumb; second, the light control button at the upper left corner of the marker is held down for from one to five seconds with the lefthand; and third, the numbers are advanced singly by pressing the advance button at the right of the light button. The counter is reset by rotating the side knob. Light is supplied by a 3-w bulb. Current is 115-v, a-c or d-c.

A new Swivel Ball Joint attachment for tripods that allows the camera to be leveled to the right horizontal position, although the ground or tripod legs are not straight is a product of Cinekad Engineering Co., 500 W. 52 St., New York 19. The Swivel Ball can be easily placed between head and tripod body and has enough tightening strength to hold the biggest and heaviest motion-picture cameras. It is made of light weight aluminum and weighs 4 lb. It is priced at \$50.00, f.o.b. New York.

The Berkshire Labstrobe, Model 18A, is a small, light stroboscope unit, giving 60 brief flashes of light per second when connected to an ordinary 60-cycle power line. Pulses are all in the same direction, therefore only one of the D-shaped electrodes glows. Sixty short pulses of light per second are generated instead of the usual 120 relatively long pulses of the ordinary neon lamp. The Labstrobe is priced at \$9.95. Descriptive literature may be obtained from Berkshire Laboratories, Greenville, N.H., by requesting Catalog Sheet No. 18A-1.



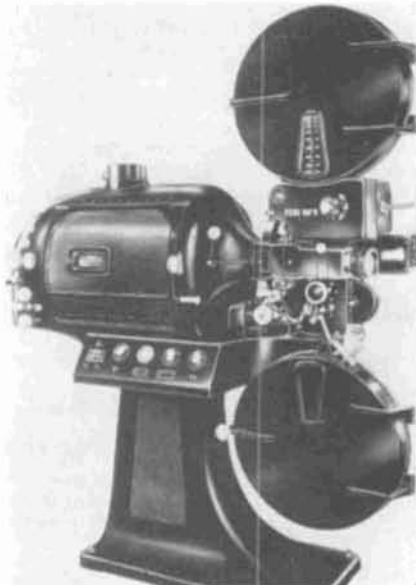
A new Pulse Distribution Amplifier, reported to provide greater output voltage, more rapid pulse rise and more complete pulse clipping, is available from the manufacturer, General Precision Laboratory Inc., Pleasantville, N.Y. It is designed to meet the sync distribution requirements of multiple camera chain installations in

broadcast television operations and can be used for both color and monochrome signals.

Known as Model PA-1004, the amplifier consists of a compact, plug-in chassis containing three stages of amplification. The basic unit plugs into its own frame (Model PA-1005) which mounts on a conventional width rack and holds a total of eight amplifier units. Each unit is designed for easy removal and replacement or maintenance.

GPL has also announced a new Video Distribution Amplifier, Model PA-1002.

The Victor Animatograph Corp. of Davenport, Iowa, has affiliated with the Kalart Co., Inc., of Plainville, Conn. Manufacturing of Victor 16mm sound projectors and all other Victor products will be transferred to the Kalart plant. Management headquarters and service and training facilities will continue at the Davenport address. The New York and Chicago branch offices will continue in their present location. There will be no change in name, personnel, or company policies.



Complete 35mm projector installations are manufactured in Italy by the firm of Fedi, 6 Via S. Gregorio, Milan. The Fedi XII S projector is equipped for optical and magnetic sound reproduction and can be used for CinemaScope, VistaVision or Perspecta Sound. With the addition of a special synchronizing mechanism, which is also available from Fedi, this model can be used in pairs for 3-D projection. The 130 WM 4-channel amplifier is designed for use with this projector. The Fedi XI projector is also equipped for optical and magnetic sound. The arclamp on the XII S has a 420-mm mirror; on the XI the arclamp mirror is 350mm. Both arclamp assemblies are obtainable separately from this company.

A flame-resistant, vinyl-coated fabric for draperies to darken window areas in schoolrooms and auditoriums, primarily for audio-visual work, has been developed by E. I. du Pont de Nemours & Co., Wilmington, Del., in its laboratory at Newburgh, N.Y. The drapery was designed to meet certain specifications such as permanent flame resistance and resistance to deterioration, discoloration, shrinking, stretching or tackiness.



A rack-mount tape recorder amplifier, the P-60-ACX, has been announced by Magnecord, Inc., Chicago. Designed for professional use to simplify editing and cuing operations, the recorder conforms to NARTB standards. It is powered by a 3-motor direct drive with two-speed hysteresis synchronous drive motor and operates from pushbutton controls. The recorder may be used in either vertical or horizontal operation. It features solenoid brake control to prevent tape spillage deep slot loading for easier head threading, high impedance playback head and low impedance recording head. A throwover switch is available to enable the operator to record continuously by setting up two machines, with a single amplifier.

The controls and motor of the unit's transport mechanism are on separate assemblies, access to each of which is through loosening four bolts. Brakes can be serviced from the front of the transport. It is priced at \$680.00, and with carrying case sells for \$765.00.

High-speed Anscochrome 16mm motion-picture film is now being sold without the cost of processing included in the price of the film. The change was made in response to requests from government agencies and industrial organizations engaged in confidential work. If a film is to remain top secret, it must be processed in government laboratories or private laboratories where maximum security measures are possible.

For non-confidential work, Ansco maintains its two processing laboratories at 2299 Vaux Hall Road, Union, N.J., and 247-259 East Ontario St., Chicago. Films for the two standard speeds, Exposure Index 32 or Exposure Index 125 can be processed at either laboratory.

The Hollywood Film Co., 956 Seward St., Hollywood 38, has issued a new catalogue of 16mm and 35mm precision editing equipment including reels, cans and shipping cases. The catalogue lists film editors' needs from A (acetone) to V (velvet and viewers). It will be sent without charge if the request is made on your letterhead.

Another item from the same firm reports the opening of a New York office at 630 9th Ave. in the Film Center Building. Showroom and warehouse facilities are available at this location, however, mail orders should continue to be sent to the main office in Hollywood. The new office is under the supervision of Sheldon Kaplan.

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