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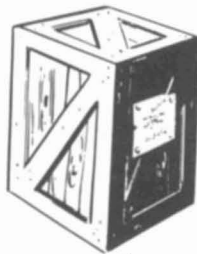
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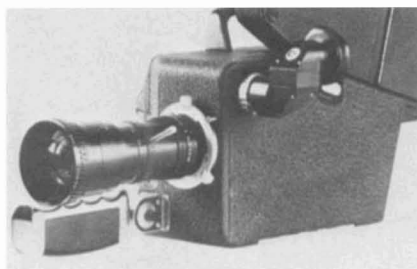
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new products

(and developments)



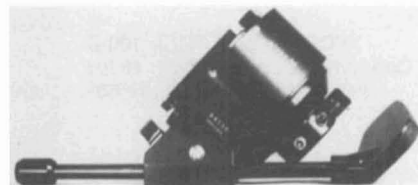
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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



A new 16mm Reflex TV newsfilm/documentary camera system has been announced by Cinema Products Corp., 2044 Cotner Ave., Los Angeles, CA 90025. Features include a mirror shutter set at a 45° angle and geared to rotate at half speed. It stops automatically in a viewing position. A dioptically adjustable reflex viewfinder, supplied as standard equipment, is fixed in orientation. It is located about 1 in back of the film plane. The viewfinder is removable and can be replaced with an "orientable" erect image viewfinder. If preferred, the Angenieux orientable viewfinder with the eyepiece located about 4 in back of the film plane can be used instead of the Cinema Products viewfinder with the eyepiece about 1 in back of the film plane. The new cameras have a miniaturized BNCR-type lens mount with a professional-type positive locking ring. A special lens adapter is available for Arriflex 16-mounted lenses. Indicators and controls visible in the viewfinder include an end-of-film warning indicator; battery condition indicator; out-of-sync warning indicator and a fully automatic and semi-automatic (matched needle) exposure control. The internal mechanism of the CP-16 reflex cameras is identical to that of the nonreflex cameras, including the pull-down claw. The cameras are supplied with two NC-4 nicad plug-in batteries and two NCC-5 battery chargers. The CP-16R camera weighs (body only) about 10 lb. It is 9¾ in long, 6 in high and 6 in wide. Prices for the 16mm reflex cameras start at about \$6,000.

A new type of 400-ft magazine for 16 mm cameras presently using the Mitchell-type magazines has been announced by Cinema Products Corp., 2044 Cotner Ave., Los Angeles, CA 90025. Designated PLC-4, the new magazine is made of high-impact

glass-filled Lexan, an extremely rugged material used in the manufacture of hard hats and football helmets, which eliminates the problem of film-spotting caused by particles of magnesium adhering to the film emulsion and then reacting in the developing bath. The PLC-4 is a compartment-type magazine permitting the use of either 200- or 400-ft darkroom cores or daylight load spools. It utilizes hinged doors which provide quick access for loading and unloading. The doors have a triple-step light trap to prevent light leaks. Price of the new magazine is \$160.



A variable-speed crystal motor for the Eclair NPR camera has been announced by Belden Communications Inc., P.O. Box 92, Radio City Sta., New York, NY 10019. Designated the Alcan 54, the motor weighs only 4 lb. Features include a large, triangular base to maintain the camera in a vertical position even with zoom and without magazine, a sliding shoulder grip to adjust the viewfinder's position in relation to the eye, and an easily interchangeable modular electronic circuit to facilitate repair work and maintenance. The speed is controlled by a 5-MHz high-stability crystal with $\pm 15 \cdot 10^{-6}$ precision over a temperature range of -10° F through $+125^\circ$ F. The Alcan 54 is priced at \$2,395.

A new lightweight tripod specifically designed for the Eclair ACL camera has been announced by Eclair Corp. of America, 62 W. 45 St., New York, NY 10036. Weighing 13 lb with the head, the ECA tripod is 41¾ in high overall with legs that extend from 36 to 60 in. Smooth pan and tilt are tension-adjustable due to a leak-proof fluid movement that can operate over a temperature range of -20 to $+120^\circ$ F. Features include a quick-level ball and cavity system mounted atop hardwood legs with rigid metal center extensions. The tripod can support cameras weighing up to 18 lb. The price is \$450.



The SEG 72 Color Special Effects Generator, intended especially for use in industrial, educational, medical and cable TV studios, has been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. The unit measures 19 by 7 by 8.5 in and weighs 16 lb. It uses solid-state devices and integrated circuits throughout. It accepts six NTSC color or monochrome inputs from composite, non-composite, synchronous and non-synchronous signals. A warning light flashes to caution against attempting wipes or effects if non-synchro-

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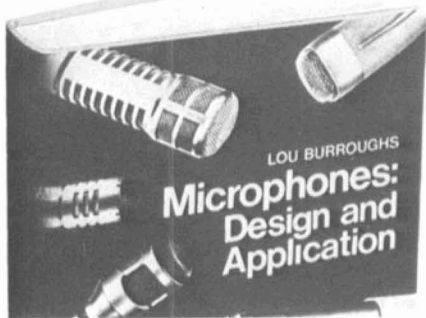
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Lou Burroughs is widely known for his pioneering work with Electro-Voice and is one of the universally recognized experts in the field. He helped design and develop many of the microphones which made modern broadcasting possible. Lou Burroughs knows microphones inside out. This book is based on his many years of research, field studies and lectures given throughout the world.

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nous signals are selected on the A/B buss. (Non-synchronous inputs must be composite.) To eliminate video interruption, standard program or preview switching is of the vertical interval type. In the automatic take function, synchronous switching is featured to transfer "set up" (preview) matte to "on air" (program). Gear-driven split-lever "T" bars are used for fades and horizontal and vertical wipes. The Special Effects Amplifier provides wipe functions using a 10-pattern generator including four corners, diagonal, square, diamond and circle/ellipse. With the internal/external keying feature, an image or title from "A" buss can be inserted into an image from "B" buss. When used with matte, the keying image or title can be filled with full-range color. A colonized background for matte-keying and color tinting of monochrome signal is provided. The external key permits a third input, such as titling, to be filled with "A" buss material and inserted into "B" buss image. Reversal of the content material is accomplished with the wipe/key reverse switch. Price of the SEG 672 is \$3,200.

An X-Y digitizer providing either manual or automatic digitization of the X-Y coordinates of information in a standard video signal has been announced by Colorado Video Inc., P.O. Box 928, Boulder CO 80302. Designated Model 622, the update rate is 60 times per second and internal calibration is incorporated. The digitizer allows computer input of data from standard TV signals. Video from either a TV camera or tape recorder may be connected to the instrument with the operator moving a superimposed white dot around a standard TV screen to generate digital X-Y coordinates. As well as the self-calibrating features, the instrument has an accurate TV grating pattern to allow assessment of the geometric quality of the video input signal. The digitizer also has automatic tracking capability to eliminate the need for manual positioning of the data reference point. Price of Model 622 is \$4,500.

A camera tube lag meter, produced by Link Electronics Ltd., Walworth Industrial Estate, Andover, Hants, England, is based on a principle developed by the British Broadcasting Corp. The lag meter presents a direct percentage digital read-out of the build-up or decay lag by sampling the amount of signal remaining or appearing on the target after a light source has been switched off or on. The measurement may be made after a pre-selected number of fields following the removal or application of light. The light source is a short decay time cathode-ray tube, the short decay time ensuring that the light source build-up and decay does not influence the camera lag measurements. The lag meter operates in two modes to measure build-up and decay lag. When measuring build-up lag, the light source may be switched on for one to 256 fields and off from 64 to 1,024 fields for decay lag. The meter measures the signal on the camera tube in between the light going on and off for build-up, and off and on for decay lag. The number of fields required are selected in 1-field increments over the operating range. The instrument is used in conjunc-

tion with a camera channel and a picture monitor. A feed from the lag meter to the picture monitor enables the light source to be aligned with the sampling area and also enables the part of the tube target under inspection to be seen. A correctly timed trigger pulse is provided to externally trigger an oscilloscope. The instrument uses sampling techniques and in the presence of camera channel noise is capable of measuring lag to an accuracy of about $\pm 0.1\%$. The lag meter is constructed as a rack mounting frame with plug-in modules. It takes 5.25 in of rack space. The light source is a small box connected to the meter by a flexible cable. Power is required at 200 to 260 V, 50/60 Hz together with mixed syncs and the video signal from the associated camera channel. The lag meter is available in the United States from Television Equipment Associates, Box 1391, Bayville, NY 11709, priced at \$2,650. The associated products, camera tube conditioner and camera tube test channel, are priced at \$2,500 and \$15,000, respectively.

The Vinton Pneumatic OB Dolly, Type 729, for outside TV broadcasting, manufactured in England by W. Vinten Ltd., Western Way, Bury St. Edmunds, Suffolk, is available in the United States from Vinten agents, Listec Television Equipment Corp., 35 Cain Dr., Plainview, NY 11803. The dolly has a folding skid of triangulated design comprising a central casting onto which are fitted three legs. The legs pivot on steel dowel pins. The inward-facing edge of each leg terminates in a clamping shoe positioned on the rim of the central casting. The shoe grips the flange at the base of the unit to hold it firmly in position. The aluminum casing of the center unit contains a pressure chamber and four pairs of roller guides supporting the central column. When loaded with head, camera and controls, the column may be semi-counterbalanced by the addition of compressed air to the pressure chamber. The dolly weighs 45 lb and can support weights up to 250 lb. The price is \$1,990. Also available is the Elevation Unit, Type 730, which can be clamped to the skid in the same way as the pneumatic unit. It comprises a solid aluminum column, a geared rack and pinion movement and a base casting. Height adjustment is by crank handle. It weighs 31 lb and can support up to 200 lb weight. The price is \$1,245.

A lightweight portable battery, Model B-10-S, for powering handheld TV electronic cameras used for on-the-spot live news coverage by TV stations and networks, has been announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. The battery weighs 9 lb (4.05 kg) and can supply up to 30-V dc at 10 aH capacity for about two hours. Model B-10-S includes a Dual Automatic Battery Charger with automatic cutoff and full-charge indicator which can recharge the battery in 10 to 12 hours. The batteries can be made in various sizes and shapes. Model B-10-S (battery pack and charger) is priced at \$1,865. The battery pack alone is priced at \$980 and the charger is priced at \$885.

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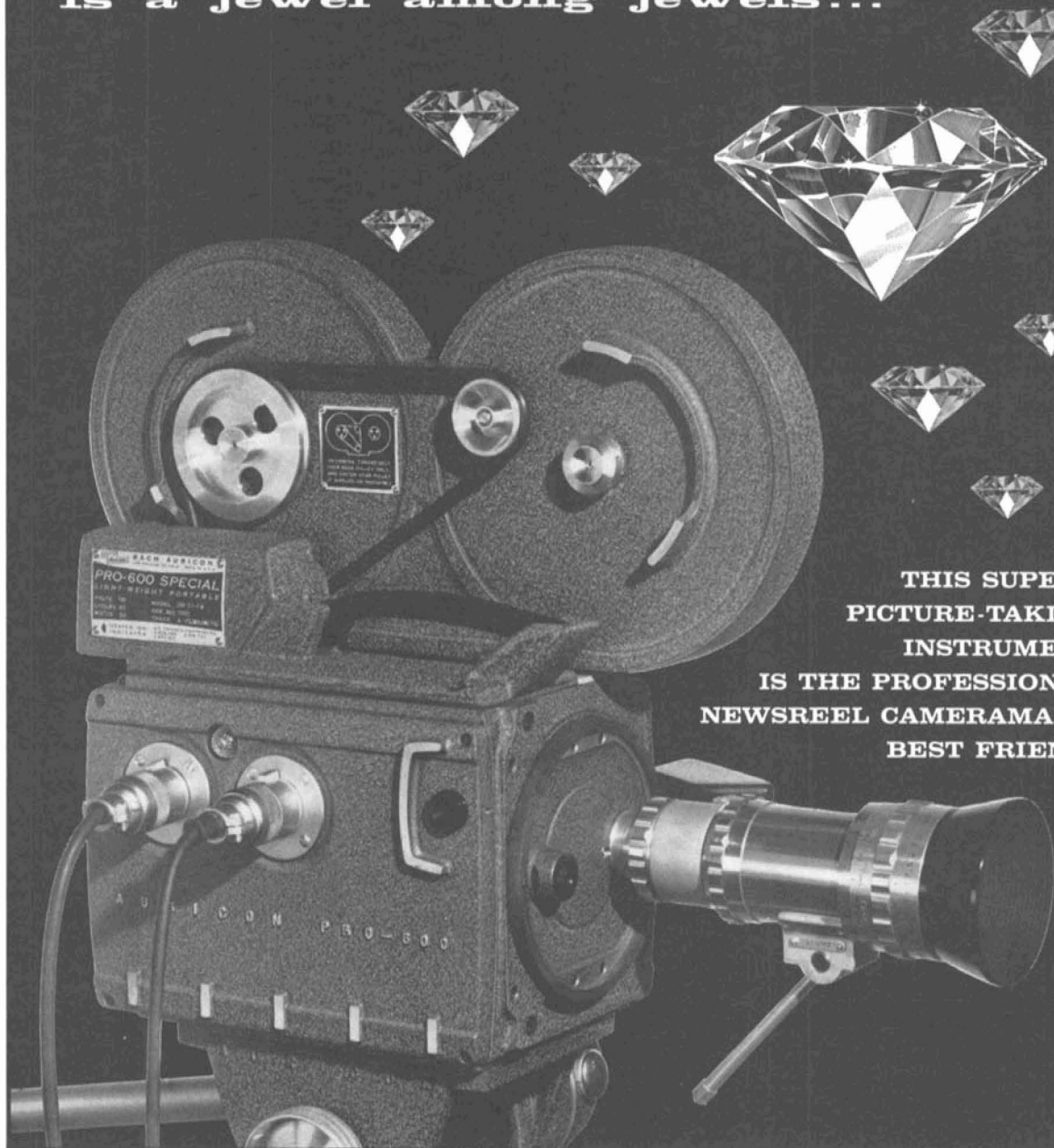
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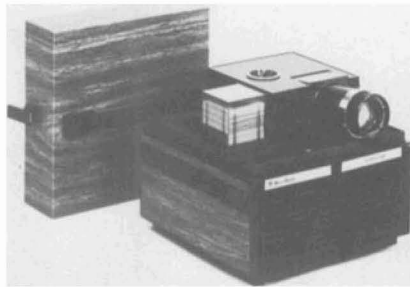
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Two new headsets, the Minilite and the Annunciator have been announced by Television Equipment Associates, Box 1391, Bayville NY 11709. The Minilite is an extremely light (1.85 oz (52.5 g)) crew communications headset which employs new acoustic techniques to feed the ear-phone signal to the ear with practically no physical contact and without uncomfortable earplug type coupling. Sound is conveyed to the microphone element by a special acoustic tube with sibilant filter and detachable noise attenuator. The Minilite MHS 11A (single-phone headset) is priced at \$99. Model MHS 11 AS with a microphone switch is priced at \$108.

The Annunciator is an air-quality headset for hands-free operation with a dynamic balanced boom microphone with omnidirectional pattern. The headset design positions the microphone at one side of the talker's mouth, providing an extremely constant level and minimizing sibilant sounds. The price is \$75.



Three new Slide Cube projectors, all with newly designed mechanisms to reduce operating noise to a minimum, have been announced by Bell & Howell's Consumer and Audio Visual Products Group, 2201 Howard St., Evanston, IL 60202. All models of the Slide Cube projection system, introduced in 1970 (*Journal*, p. 311, Mar. 1970), accept the 40-capacity Slide Cube cartridge which can be loaded onto the projector in an instant. The new Slide Cube projectors, Models 985, 986 and 987, have an axial Quartzline lamp (Code ELH) which emits less heat than conventional lamps, thus making possible the use of a low-noise blower system. All three of the new models have scan/search capability allowing the user to edit and sort slides with projecting them; a preview/edit station for viewing the slide to be shown next; 20° lens elevation for accurate framing without raising the projector itself; and an instant-access slide changing mechanism. Model 986, with a 4-in f/2.8 lens, is priced at \$139.95. Model 987, with a 4-in, f/3.5 projection lens is priced at \$129.95. Model 985, with a 4-in, f/3.5 lens is priced at \$99.95.

The Xenographic 512, a fade/dissolve slide projection system, has been announced by Optical Radiation Corp., 6352 N. Irwindale Ave., Azusa, CA 91702. The system uses a single, high-intensity xenon bulb, a specially designed mechanical optical fade/dissolve and cut mechanism and two modified Kodak Ektagraphic slide projectors. The system is capable of projecting up to 5500 lm light output with a color temperature of 5400 K. Capabilities include gradual overlapping and fading, or cutting from one projector to another

to show one slide image dissolving into the next while screen illumination remains constant. Because both projectors share a common light source, constant illumination is assured as well as a perfect color match between slides. The system can be operated forward or reverse in a fade or cut mode from its built-in control panel or remotely from a handheld remote control unit. The price of \$4,250 includes two Kodak AV434 projectors, a lamphouse with an integral fade/dissolve mechanism and an external 500-W power supply. The xenon bulb is priced at \$245.



A new bottle well attachment designed to fit all Maier-Hancock hot film splicers has been announced by Maier-Hancock Industries, 13212 Raymer Ave., North Hollywood, CA 91605. The attachment eliminates accidental spillage and can be positioned anywhere on any edge of the base most convenient for the operator. It hooks onto the splicer base and is held in place by two thumb set-screws. The adjustment plate, which is slid under the splicer base and hooked on the opposite edge of the base spans either the width or the length of the splicer. The price is \$15.95.



A new cable-splicing block designed to replace the "spider boxes" used throughout the motion-picture industry has been developed by Westinghouse, 18020 South Santa Fe Ave., Compton, CA 90221. The new design provides both portability and

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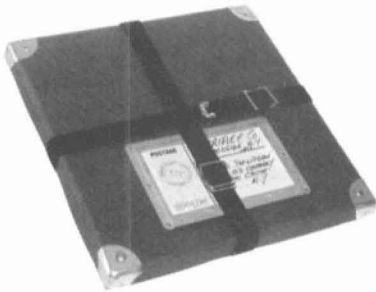
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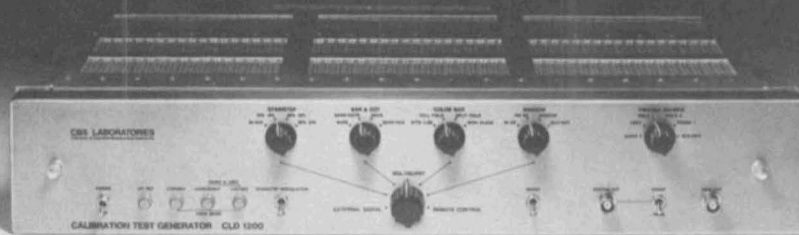
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safety for motion-picture lighting systems on location, on the backlot or in the studio. Approved by Underwriters Laboratories and meeting all recent safety standards, the new cable-splicing blocks are of modular construction and can be combined to suit a particular application. All current-carrying parts are shielded from accidental contact. The blocks are compatible with existing cable connections as well as with other industry equipment and work practices. No special hand tools are required to hook up the systems. The modules consist of an H-shaped copper bus bar enclosed within a plastic-molded housing. Each module can be color-coded to suit the system in use and can be combined to meet the requirements of the generator cable distribution system. Units are available for both ac and dc systems using one- to four-wire distribution. Current-handling capability ranges up to 3,200 A per unit. The price is dependent upon the configuration and ranges from about \$75 for a two-level block to \$125 for a seven-level block in quantities of 100 pieces.

Vac Kote, a lubricant developed for use in the Apollo space flights and the Skylab missions by Ball Brothers Research Corp., P.O. Box 1062, Boulder, CO 80302, has been made available commercially, according to a recent announcement. The lubricant is reported to prolong film life and to have reduced head wear. It is also reported to have improved signal characteristics when applied to magnetic cards and tapes. It can also be used as a lubricant for magnetic drums used in the computer industry and for electric motor brushes. Vac Kote is available as "wet" (organic fluids) or "dry" (solid films) materials that can be applied to the contact surfaces.

The fluid systems include a variety of base oils including long-term hydrocarbons, polyesters, polyethers, fluoroethers and other materials. Dry systems use hexagonal crystal compounds such as molybdenum disulfide, tungsten disulfide, niobium diselenide and similar materials. They can be applied without binders by a special process or in a polyimide resin binder system, depending on the specific application requirement. A thin coating of a wet lubricant can be used for reel-to-reel motion-picture films and all types of magnetic cards and tapes. A dry, slick tough coating can be used for slide transparencies.

Two new lines of Plio-Magic splicing tape—nonperforated for guillotine splicers and perforated for 16mm and 35mm film—have been announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, NJ 07072. The nonperforated tape is available in 3/8-in X 50-ft rolls and 1-in X 50-ft rolls in clear and opaque. Features of the perforated tape include a tough polyester base plus high tensile strength to resist stretching, cracking and aging; a low profile so that the tape can be used on both sides of the film to ensure maximum strength and a no-hinge effect; and adhesives that do not bleed or ooze around the film edges.