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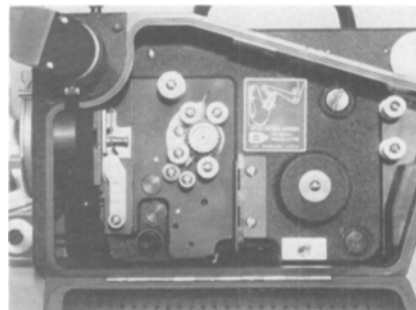
The **MV-201** miniature television camera, a third-generation charge-coupled device (CCD), offering improved resolution over earlier models, has been announced by Fairchild Camera and Instrument Corp., Imaging Systems Div., 300 Robbins Lane, Syosset, NY 11791. The MV-201 has 244-line resolution and a bandwidth of 1.86 MHz compared with resolution of 100 lines and a bandwidth of 1 MHz for the MV-101, its immediate predecessor. The MV-201 incorporates a CCD sensor developed by Fairchild Memory and Logic Group. The sensor contains more than 46,000 photoresistive elements. The new camera is reported to be sensitive to as little as 0.000125 fc of illumination at the CCD elements with sensitivity extending into the near infrared range. The camera weighs 12 oz and is 2 in high, 2.5 in wide and 3.75 in long. A 25mm *f*/1.4 C mount lens is standard. Designed especially for military and industrial low-light applications, the camera may be used in law enforcement, remote inspection, industrial monitoring, process control and medical instrumentation.

The MV-201 interfaces directly with conventional TV receivers. Power required is 4 W at 12 V and battery operation is possible. The MV-201 is priced at \$4000.

The **BCC-2**, a new handheld color broadcast camera designed for studio use as well as for on-location coverage of live news events and production video requirements, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The camera is 13 in long, 4 in wide and 8 in high. The camera head weighs 15 lb and comes with a shoulder support, 19-lb backpack, and harness. It has a weather-resistant head housing to provide easy and safe assembly, disassembly and transport of the camera for use on location. Designed for remote use, the BCC-2 is equipped with a battery pack that provides 1.5 h of operation and an ac-operated power supply. With a special cigarette lighter adapter it can also work from a standard 12-V automo-

bile battery. The camera has a 10X zoom lens and tiltable mount. The viewfinder has external controls for contrast and brightness and a high-frequency peaking switch. External controls on the BCC-2 are located on the camera head. They include automatic/manual iris, intercom level, power switch, VTR stop/record, master video gain, auto white balance and encoder-video/bars. The camera incorporates three 1-in Plumbicons including an extended red. The optical system allows a large reduction of 50%. The BCC-2 system is priced at under \$50,000.

Ampex Corp. also announced the BCC-3 color broadcast camera designed for educational, industrial and professional applications. An optional Interface Backpack (IB) is offered which allows the user to integrate the Ampex BCC-2 portable camera into the BCC-3 system. Designed to tie the BCC-2 to the separate camera control unit of the BCC-3, the IB transforms a portable backpack recording unit into an on-line camera for studio productions or remotes. The BCC-3 utilizes three 1-in Plumbicons including an extended red. A Schneider *f*/2.5 10:1 zoom lens is standard with 15:1 and 20:1 zoom lenses optional. The camera control unit has plug-in printed circuit cards for easy maintenance accessibility. Other features include a small diameter camera cable which can be run as far as 1000 ft with no timing adjustments necessary. The BCC-3 is priced at about \$55,000.



The **CP-16R/DS**, a new double system sound reflex 16-mm camera, has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The new camera is identical to the standard CP-16R reflex camera except that the flywheel and film-threading rollers needed for single-system sound recording have been removed making the new camera simpler and considerably faster to thread. Also it is about three quarters of a pound lighter than the 10-lb (body only) CP-16R. The new camera is designed especially for the cinematographer who shoots double-system sound only; however, if required, it can be easily converted to single/double-system sound capability.

The **Cooke Varo-Kinetal** 16mm zoom lens produced by Rank Optics in the United Kingdom and introduced in the United States by



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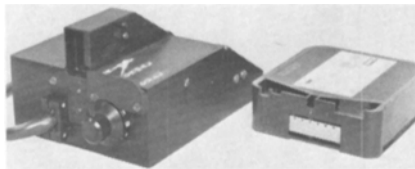


Rank Precision Industries, Inc., 411 East Jarvis Ave., Des Plaines, IL 60018, is said to provide high image quality at any focal length from 9mm to 50mm. It is reported to achieve 100 line pairs/mm on axis and in the corners of the picture and to hold this performance throughout the entire zoom range thus eliminating fuzzy imaging when the picture is projected.

Suitable for film work ranging from news to documentary and commercial films, the lens has a maximum angular view field of 60° and can shoot as close as 23 cm from the front of the lens and 45 cm from the film plane at a constant aperture of $f/2.2$ and $T/2.5$. It is designed on a new three-moving-elements optical system instead of the conventional two, thus offering more optical design variables while combining optical and mechanical compensation for image shift and simplifying the mechanical system. The resolution and contrast achievable with the Cooke Varo-Kinetal matches the modulation transfer function of certain new emulsions, such as the Eastman 7247 16mm film emulsion. The lens is a sealed unit without an externally moving front element, thus permitting a direct fitting of filters with the front of the lens. The lens weighs 2.3 lb and is 8.7 in long.

The Arriflex High-Power Battery Packs for all Arriflex cameras operating on a 12-V current have been announced by Arriflex Co. of America, 25-20 Brooklyn-Queens Expwy. West, Woodside, NY 11377. The batteries were designed by the Anton Bauer Co. to extend the operating range for Arriflex 35BL

and 16BL cameras. The new battery packs are reported to provide 20% more power than conventional 12-V batteries, resulting in higher torque for the camera motor, especially desirable in cold weather operation. Prices for the batteries begin at \$225. The battery holders are priced at \$85 and the matched charger prices are about \$75.



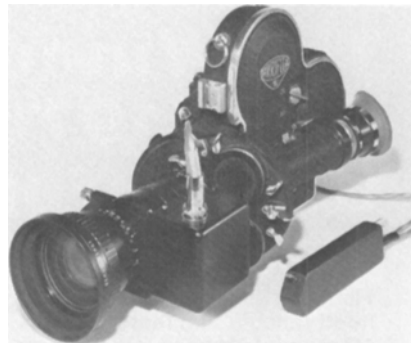
Three new products announced by Visual Instrumentation Corp., 903 N. Victory Blvd., Burbank, CA 91502, are:

The Model GN-8, a new concept in gun-sight/HUD camera recording systems. The camera is small, easy to operate and can be installed in any aircraft to provide full symbology recording, complete ejection envelope clearance and minimum pilot obscuration. It uses 50-ft super-8 film cartridges designed for one-time use. The price is about \$2000.

The Super Cinetar Wide Angle Lens was designed specifically to withstand the environmental extremes of airborne instrumentation and industrial and documentary applications. The lenses are available in three models — wide angle, 10mm, $f/1.8$; super-wide angle, 5.7mm, $f/1.8$; and extreme wide angle, 3.5mm, $f/1.8$. All three lenses are in ruggedized mounts. The price range is \$325 through \$695.

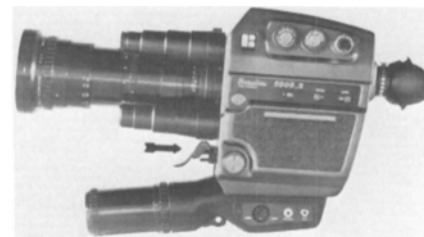
The Model 210 Fastax Servo Speed Conver-

sion provides a new modification to incorporate servo electronic speed control for Fastax® 16mm high-speed cameras. The new design offers controlled acceleration and regulated speeds from 200 to 10,000 frames/s. Price of the Model 210 conversion is \$1975.



A new zoom motor drive for 12-120 Angenieux lenses has been announced by Arriflex Co. of America, 25-20 Brooklyn-Queens Expwy. West, Woodside, NY 11377. Although designed specifically for 12-120 Angenieux lenses on Arriflex 16S and 16M cameras, the new zoom control can also be used with 12-120 Angenieux lenses on other professional 16mm cameras as well. The zoom motor drive may be operated with power supplies varying from 8 to 16 V dc. A 16S 8-V battery can drive the zoom movement through speeds ranging from about 5 to 40 s for the full zoom range. The speed range varies when the drive is operated from other dc voltages.

The new zoom motor drive is supplied with a handheld control through which the cameraman determines zoom direction and zoom speed. The control is transistorized and designed to produce constant torque and even, steady zoom movement throughout the range for which the device is rated. The new zoom motor drive is priced at \$325.



All Beaulieu 5008S super-8 sound movie cameras are now being supplied with easy-to-use trigger release buttons it was announced by Heric Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91423. According to the announcement the earlier Beaulieu 5008S cameras were fitted with a single flat-top release button which occasionally caused difficulties in operation. The new trigger release, however, provides greater ease of operation because it allows the "trigger finger" to perform more naturally during filming. The new-style trigger release switches are available to owners of Beaulieu 5008S cameras at no charge.

The Downstream Chroma Keyer, Model 7200, designed to allow the user to switch electronically from one video signal to another according to the color present in various parts of a keying signal, has been announced by Dynasciences Video Products, Township Line Rd., Blue Bell, PA 19422. Model 7200 produces a chroma-keyed output from two encoded video

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“We news/documentary cameramen have finally gotten the camera we’ve always wanted. The CP-16R reflex, of course.”

What Director of Photography Richard Norling has always wanted is a lightweight, ultra-silent, rugged, no-nonsense 16mm reflex sound camera that can really take punishment in the field. “If you’ve seen some of the mob action that developed whenever any Watergate principal appeared at the District Court in Washington, D.C., you know what a godsend the CP-16R was.”

Norling, who freelances for the major television networks, complements his CP-16R reflex with two of Angenieux’s most outstanding lenses, the 10-150mm zoom lens and the extreme wide-angle 5.9mm prime lens. “Truly an unbeatable combination,” says Norling.

“My first use of the 10-150mm lens was on an NBC special on marijuana, *Mary Jane Grows Up*. In one laboratory scene I was able to shoot a fairly wide shot of the room and then, with careful follow-focus, zoom into an extreme close-up of a rat’s brain (which is about the size of a small raisin). Normally I would have to move the camera in a lot closer after the wide shot . . . Also, the 10mm end came in handy for filming interviews in some extremely cramped and small offices.

“Filming an NBC *Weekend* show featuring the Dutch Army in training exercises in Holland and on NATO maneuvers in West Germany, I used both lenses to great advantage. The extra push on the other end of the

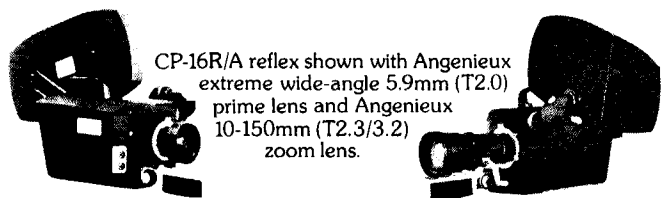
10-150mm enabled me to do some nice zooms from a helicopter into tanks maneuvering below, which cut into ground shots. I also made good use of my 5.9mm lens to capture dramatic up-angles while filming soldiers jumping and scaling fences on the obstacle course.

“Every time we worked in close proximity, my soundman Dudley Plummer kept murmuring to himself, ‘It’s amazingly silent.’ He never did get over the quietness of the CP-16R reflex.”

Can the CP-16R take it? — “You bet it can,” says Norling.

“Filming in a tank going through an obstacle course is very much like trying to film on a bucking bronco. I was half out of the top hatch, and holding on to the CP-16R by its sturdy handgrip, when the tank plunged into a simulated tank trap. The camera flew right over my head — the sudden jolt almost knocking it out of my hand. I came out all black and blue, but the CP-16R came out just great!”

Isn’t it time you switched to a CP-16R reflex?



CP-16R/A reflex shown with Angenieux extreme wide-angle 5.9mm (T2.0) prime lens and Angenieux 10-150mm (T2.3/3.2) zoom lens.

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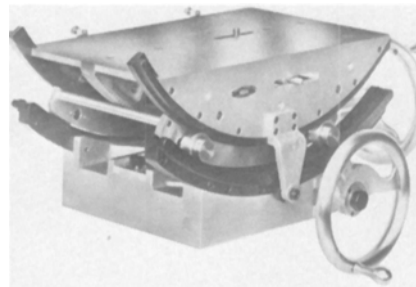


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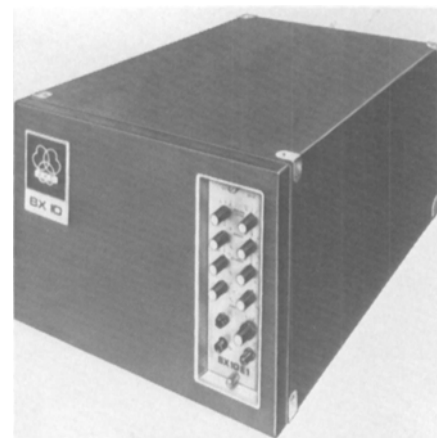
input signals. A separate insert keyer is not required. The unit is said to be capable of keying on any color in the NTSC spectrum. A comb filter is provided for minimum noise and chroma crawl in the keyed signal. Both A and B video inputs to the Model 7200 may be either composite or non-composite video. The capability of adding sync to non-composite outputs is provided. A vertical-interval switch for disabling the key is also provided. Model 7200 is priced at \$3300.



Newly manufactured spare parts for the Worrall head, the studio-type tripod gear head for heavy professional 35mm studio cameras, are available from Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025, according to a recent announcement. Cinema Products recently acquired all manufacturing rights and tooling for the Worrall gear head, an acquisition in line with the company's "total system" approach. Full service, including replacement parts, is now being provided by Cinema Products on a rapid turnaround basis both in the United States and abroad.



The Low Power Code Generator, Model SP-380, has been announced by Datametrics Inc., 340 Fordham Rd., Wilmington, MA 01887. Designed for portable, mobile and airborne applications, it features CMOS logic and includes an internal battery pack charger unit which provides more than 30 h of battery operation. An automatic charger charges the batteries in about eight hours and maintains charge when external power is present (115 V ac, 50-440 Hz). Model SP-380 is provided with a single serial time code output (IRIG B is standard). Options include synchronization to input code, parallel BCD outputs and other code formats. Prices for the SP-380 begin at \$3195.



The AKG BX-10, a portable two-channel reverberation unit, has been announced by Philips Audio Video Systems Corp., One Philips Parkway, Montvale, NJ 07645. The unit is based on the Torsion Transmission Line principle used in the larger AKG BX-20. Independent decay-time adjustment, high and low frequency equalization and reverberation/dry signal mixing are provided for each of the two electronically and acoustically separate channels. Decay-time is adjusted silently through motional feedback enabling adjustment during program material. Reverberation/dry signal mixing enables reverberation to be added to dry signal without the need for a reverb return mixing section in the mixing desk. The AKG BX-10 is priced at \$1795.

The CVI Model 270 Video Digitizer designed to convert standard television signals into digital data for computer processing has been announced by Colorado Video, Inc., Box 928, Boulder, CO 80302. It can work with any source of standard 2:1 interlaced composite video signals requiring no special cameras or monitors. Separate X and Y digital inputs allow computer control over the location of the picture elements that are to be encoded. The user may observe the scene being processed and follow the encoding process on a standard television monitor. Location of the point being encoded is indicated on the display by a cursor and the gray scale value is displayed at the side of the monitor screen allowing quick and accurate setting of video levels without the use of auxiliary equipment. A feature of Model 270 is a Z modulation output capability. In this mode the unit accepts an 8-bit binary word which modulates the intensity of a spot at any selected X-Y position. A photographic time exposure from a standard TV monitor can then be used to reproduce a hard copy image.

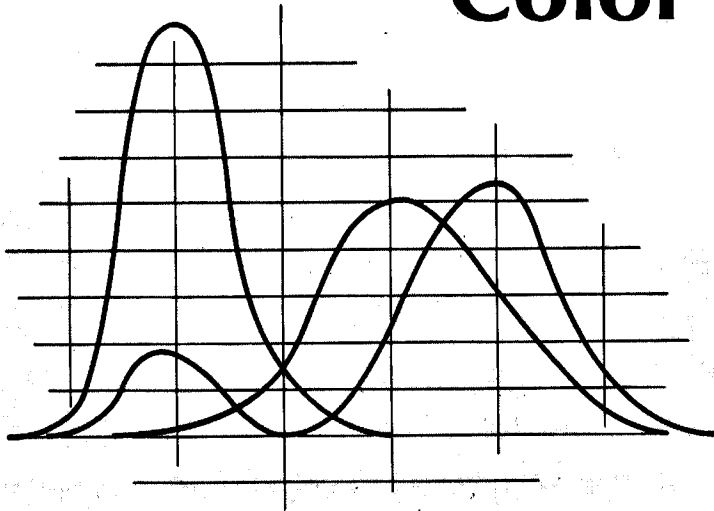
Model 270 can be interfaced with most computers or other digital processing equipment. All digital signals to or from the unit are buffered and are TTL/DTL compatible. Either Positive True or Ground True logic can be utilized. All output buffers are open-collector drivers with provision for on-board or remote mounting of pull-up resistors and inputs have provision for on-board mounting of pull-up resistors. Model 270 is priced at \$4000.

A low-voltage camera power system, designed to eliminate the need for electrical outlets thus lowering installation and maintenance costs, has been announced by Video Components, Inc., 601 South Main St., Spring Valley, NY 10977. The system was developed by

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Principles of Color Sensitometry

THIRD EDITION



Edited by

Dr. Roderick T. Ryan

*With revisions and contributions
by a panel of industry experts*

Color sensitometry is the quantitative measurement of all the responses of a photographic material to exposure and development. It provides a tool for the evaluation of the chemical and mechanical conditions that produced the visible photographic results. It measures the processed images, determining their character or content in terms most useful for the product's application or most significant in an operation's adjustment or stabilization. Finally, it provides a means for observers to relate their quality judgments to the physical characteristics of the photographic material.

The third edition of *Principles of Color Sensitometry* outlines the fundamental concepts of this discipline and describes some of the methods and instruments employed in order to give a comprehensive view of the present state of the science. The treatment is not complex, and in some places instead of mathematical discussion there is simple, verbal description for better understanding; but the coverage is comprehensive. The authors have presented and discussed, on a step-by-step basis, the routines common to nearly all of the diverse applications of color sensitometry.

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- 3 Sensitometric Exposures
- 4 The Processing of Sensitometric Tests
- 5 Quantitative Evaluation of Image Density
- 6 Densitometer Design Principles
- 7 Interpretation of Sensitometric Results
- 8 Statistical Aspects of Color Sensitometry

Appendix: Transformations Between Spectral and Analytical Densities

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LCI Systems, Inc., of Spring Valley, N.Y. The master power supply can drive up to eight remote camera slave units. The remote slave driver unit can interconnect with any 117-V or 24-V camera via a single bi-ax cable and the unit can be located at any distance up to 1000 ft. Line fluctuations are compensated at the slave end. Video drops can be compensated at the master. The master distributor unit is available in three models, the 4, 6, and 8 depending on the number of cameras in the system. Prices range from \$215 through \$229. The remote slave unit (RSU-1) provides operation of cameras at regular voltages. As many as eight and as few as four cameras can be phased, especially for time-lapse recording. The RSU-24 has the same capabilities as the RSU-1 with the additional feature of 24-V ac output for new cameras. Both the RSU-1 and the RSU-24 are priced at \$84.

A tri-amplified, monitor loudspeaker system designated Model 3000 has been announced by Spectra Sonics, 770 Wall Ave., Ogden, UT 84404. The system is designed for external crossover networks and for separate power amplifiers for each of the low, mid-range and high-frequency transducers. The enclosure is constructed of 1-in plywood and is covered in gunstock walnut formica. The grill cover is removable for easy access to the speakers and a centrally located termination panel at the rear permits simple installation. Model 3000 is priced at \$846.

A tie clasp microphone intended for professional use has been announced by Sescam,

Inc., P.O. Box 590. Designated Model MC-325, the electret condenser microphone is moisture- and temperature-resistant. Applications include television broadcasting and audiovisual presentations. The price of \$45 includes a tie clasp, battery, 13-ft attached cable and transformer and a Cannon 3-pin connector for use with a low- or medium-impedance amplifier.



A new circumaural headphone, the AKG K-240, weighing 298 g (10.5 oz) including the line cord has been announced by Philips Audio Video Systems Corp., 91 McKee Dr., Mahwah, NJ 07430. The new headphones combine a main driving transducer and six passive slave diaphragms in each ear piece 45° apart. Three slaves are situated forward of the midline of the transducer with three slaves to the rear all placed on the main coupling wall. The passive diaphragms are activated by sound pressure waves produced by

the main driver and are said to extend and smooth out the frequency response of the total system. The diaphragms operate at a theoretical crossover point of 200 Hz. The acoustical resistance presented by the slaves provides an effect of open listening at frequencies above 200 Hz. Earpieces of the K-240 are Cardan® coupled (universally movable) and equipped with circumaural ultrasoft pads. The headphone is equipped with a 3-m (9.8-ft) line cord. The price is \$69.50.



Astrolite Hi-Fi headphones constructed of all-nylon plastics have been announced by Television Equipment Associates, P.O. Box 1391, Bayville, NY 11709. The headphone has a frequency response of 50 to 15,000 Hz and impedance of 200Ω (or, optionally, 6000Ω). They weigh 8 oz and are available as a stereo double phone at a price of \$49 or single side at a price of \$39.

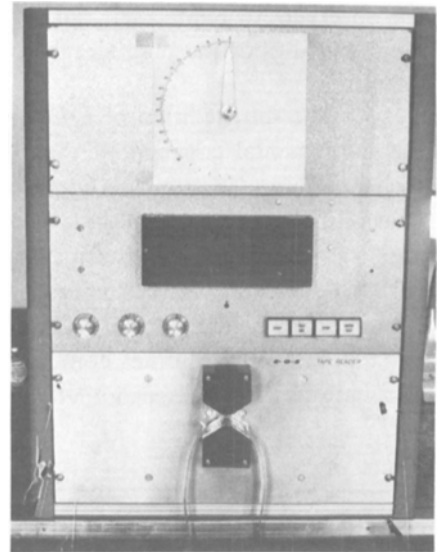
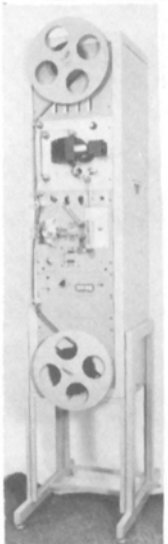
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The Cinecraft AVA (automatic verifying additive) system has been announced by Cinecraft International Inc., 11 Caesar Pl., Moonachie, NJ 07074. The system is an additive light source for Takita continuous and optical step printers. The light source logic circuitry is compatible with B & H programming. The system is built around a new simplified design with automatic electro-mechanical light valves (patent pending) placed in the light path of the primary colors of red, green and blue. Each valve controls the light intensity of its color beam in 50 steps of 0.025 log E plus an additional 24 steps of trim for emulsion and printer to printer correction. The trim

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SMPTE Headquarters Office

A Message from SMPTE's President about the Voluntary Capital Funds Program...

Dear SMPTE Member:

No doubt you share my pride in SMPTE membership. It has been a stimulating experience to work with the officers and members in our Society over many years. We are quite proud that the services offered by the SMPTE to its members have not diminished because of national economic difficulties. In fact, expanded services and improvements are taking place in the entire Society program. In the Conference area, in the Journal, in the Sections program, and in Engineering approaches, improvements have been and are being made to make membership in the SMPTE of greater value to each of us.

The financial position of the Society is excellent, thanks to prudent policies of the past officers and members. However, unpredictable changes in the Society's main sources of income — membership dues, test materials and conferences — resulting from conditions over which we have no control, could at any time seriously alter this present sound condition.

At their July, 1975 meeting, the Board of Governors voted to inaugurate a Voluntary Capital Funds Program, the purpose of which will be to retire the mortgage on the Society's Headquarters property at Scarsdale, N.Y. — the only existing Society indebtedness. By such action, the operating expenses of the Society would be reduced noticeably. Such action would further strengthen the Society's financial position so that the services of the SMPTE to its members would become even more effective.

It is hoped that every member of SMPTE may be willing to make a voluntary contribution of \$25 or more

(or three annual payments of \$9) and thus take a personal share in securing this important investment in the Society's future. Your voluntary contribution — which is, of course, tax deductible for U.S. citizens — will not only be appreciated but will be most helpful in continuing the effective work of the Society.

Kenneth M. Mason
SMPTE President

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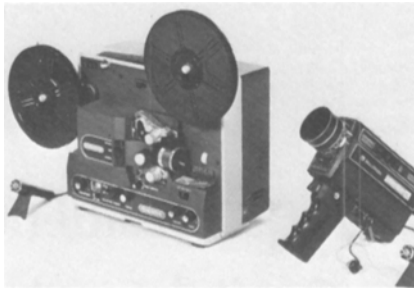
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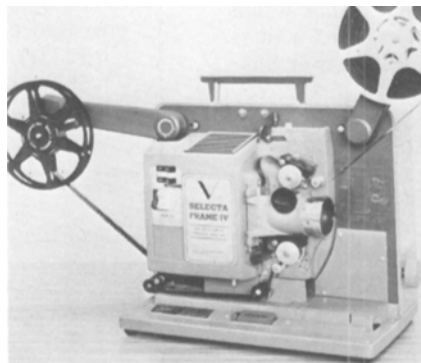
steps are manually positioned but electronically controlled. Each valve is modularly constructed with its own optical system for easy interchanging without disturbing or repositioning dichroics or optics. The light valves operate in a horizontal position and at the focal point, thus eliminating color fringing. The optical system collimates the light beams and assures uniform full field illumination.

The control cabinet houses a photoelectric tape reader and uses all-solid-state logic circuitry electronics for reliability and accuracy. Other features include a digital display read-out of information in memory including scene number, light values of red, green and blue, and the fade length, if any. Interchangeable logic boards are used throughout to minimize maintenance and to reduce down time. A number of optional accessories are available including tape punch, six-speed fade device and rectifier.

The system can also be retrofitted to most existing printers including B & H, Peterson, Depue, Arriflex, and others. The price of the basic AVA system is \$12,500 including the lamphouse complete with automatic light valves, tape reader and electronics.

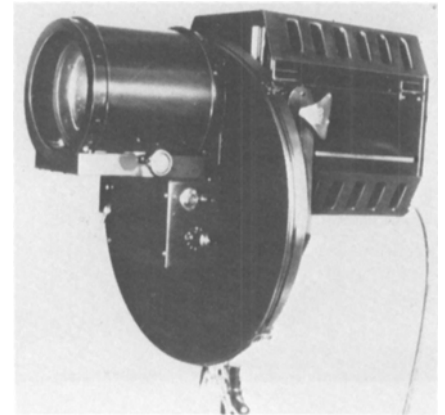


A super-8 magnetic-sound projector called the Filmosonic™ Model 1745Z has been announced by Bell & Howell/Mamiya Co. Features that distinguish the new Filmosonic projector from its three predecessors include a three-wire (grounded) power cord; standard 1/4-in 8-Ω external speaker and microphone jacks; and a more conveniently located film trimmer on the projector casting just below the lens. The projector has a 5-W amplifier. Reverse as well as forward and still projection capability provides flexibility in adding background music and other sound effects to camera-recorded soundtracks. Easy operation is assured by Bell and Howell's Autoload® automatic reel-to-reel film threading. The projector can be operated at either 18 or 24 frames/s in both sound and silent modes. An f/1.5 20-32mm zoom lens is provided. Price of the Model 1745Z is \$419.95.

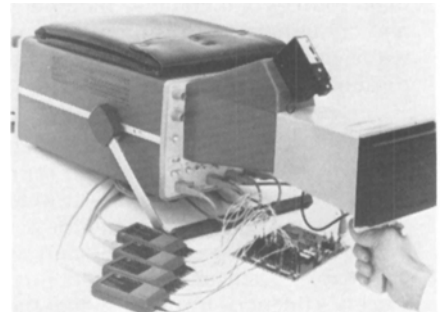


The Selecta-Frame IV 16mm Analysis Projector has been announced by Visual Instrumen-

tation Corp., 903 N. Victory Blvd., Burbank, CA 91502. Said to be completely flickerless, the machine provides single frame, stop action, slow motion and continuously variable speeds in either forward or reverse. A new quartz halogen lamp provides greater brightness and an extended lamp life. The Selecta-Frame IV offers cine speeds of 16 and 24 frames/s and a continuously variable pulse mode from zero to 12 frames/s. Features include fully enclosed gear-driven reel arms and a swing-out lens assembly to provide easy access for loading and cleaning. The system is portable. It is available in either silent or sound models. The price range is from \$1450 to \$1850.



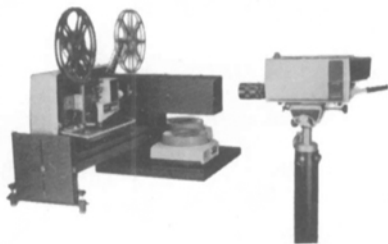
The Great American Scene Machine, a spotlight designed to produce unlimited special background effects, is the initial product announced by the newly formed firm, Great American Market, P.O. Box 178 Woodland Hills, CA 91364. The new firm, founded by Joseph Tawil, former President of Berkey Colortran, specializes in lighting products and accessories for the theater, motion-picture and television industries. Containing a 1-kW quartz halogen lamp, the machine's optical system uses an ellipsoidal reflector design in combination with a three-element heat filter for high gain and efficiency. Several lenses are available for various beam spreads. Accessories include disc machines (shown above), film machines, spiral machines and a slide carrier. Some 200 effect mats, discs and numerous film patterns are available for the Scene Machine. The disc machine accepts turret or disc plate for continuous rotation. Prices vary according to the accessories. A basic slide projection setup is priced at less than \$1200. Depending on accessories, lenses, etc., prices can range up to about \$3900.



A new oscilloscope camera designed for "most everyday needs" for trace photographs has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. Desig-

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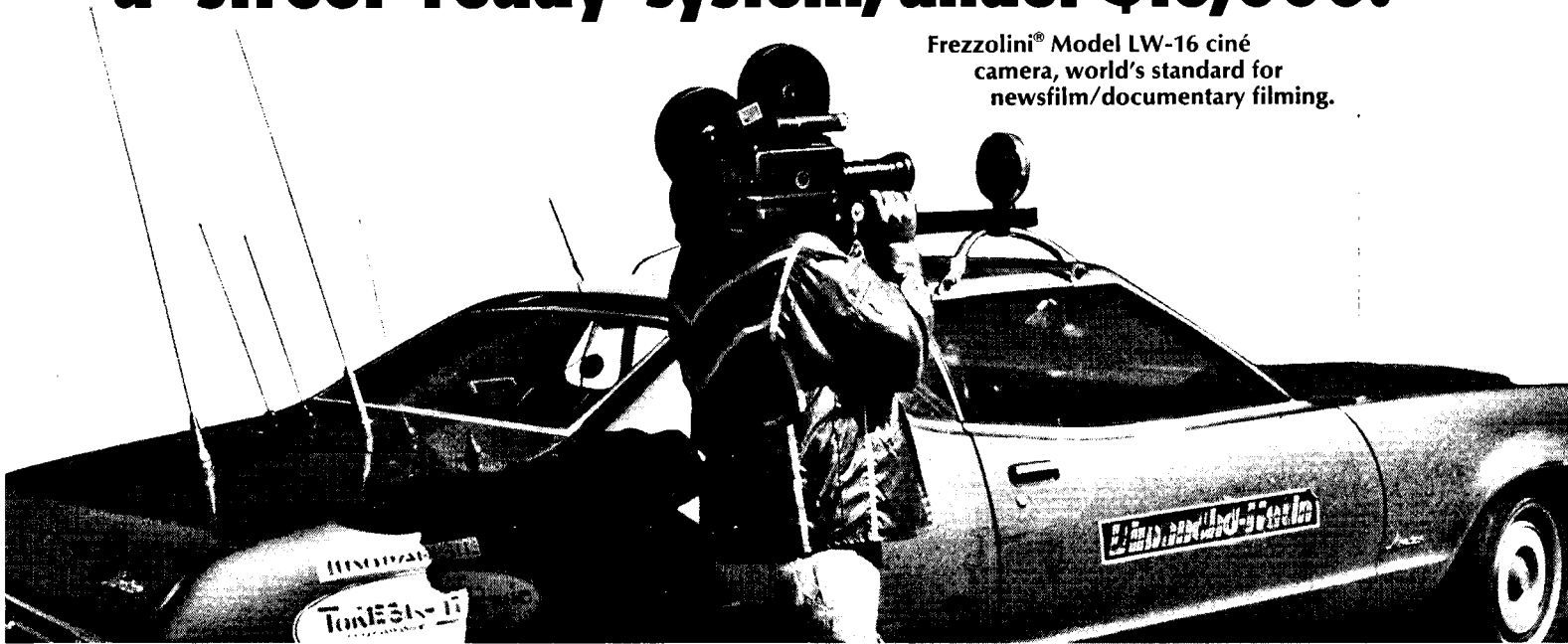
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