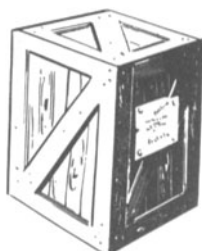


# new products

(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.

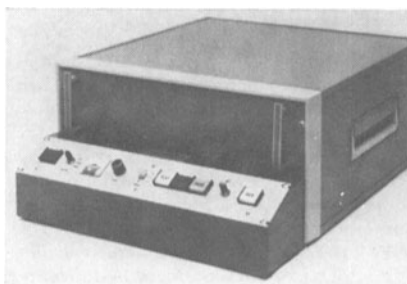
The Livingston Add-a-Vision System is designed for use during filming for television to permit the camera operator and other key personnel on the set to see the scene as it will appear on television. A product of Livingston Laboratories, Ltd., Livingston House, Greycaine Rd., North Watford, Herts, England, the equipment, designed for use with existing cameras, was originally built around the Mitchell BNC. The system employs an Angenieux 10:1 zoom lens with a built-in light-splitting prism which receives collimated light from the variable-focus lens assembly. A portion of the light is reflected at right angles by the prism and is brought to focus by a second lens system to form an image at the film gate. The remainder of the light is reflected at right angles by the prism and is brought to focus by a second lens system to form an image on the faceplate of a TV camera tube. When the system is in use a picture monitor plugs into the side of the camera to be used by the cameraman. Another monitor is used by the director and a monitor is placed so that the actors can see it during rehearsal. Other monitors can also be used to check lighting and focus. Add-a-Vision can be used for color television as well as for black-and-white.

A tubeless television camera described as "smaller than a man's hand" has been announced by Radio Corp. of America. The experimental camera, operated on battery power, takes pictures by means of networks of 132,000 thin-film devices deposited on four 1-in.-square glass slides. Among the thin-film elements are some that respond to the presence of light and others that perform various circuit functions so that the networks take the place of the conventional pickup tube and other picture-processing elements of a standard TV camera. A miniature transmitter, separate from the camera and employing conventional transistors, makes it possible to send the pictures directly from the camera to a television receiver.

The image sensing area of the camera consists primarily of 32,400 microscopic dots of photoconductive material deposited at the intersections of thin metal conductors that have been evaporated onto a glass slide in a grid pattern. Along two of the four edges of the image sensing slide are attached two other slides on each of which

have been deposited circuits containing 540 thin-film transistors. These are arranged in such a way that the output transistors of one slide connect with all of the horizontal lines in the image sensing grid and the output transistors of the other connect with the vertical lines of the grid. A fourth slide carries arrangements of thin-film elements that perform a variety of control functions. The camera is operated by focusing the televised scene onto the image sensing array and employing the transistor circuits to scan the array to produce a television signal. The photoconductive dots in the sensing array of the camera are similar to the organization and readout of data in a standard computer memory, thus making it possible to send pictures from the camera directly to a computer for processing or storage.

A new process for preparing integrated circuits by transferring them to glass has been announced by Radio Corp. of America. The technique produces arrays of tiny silicon circuit elements electrically isolated from each other on a half-dollar-size glass disc and interconnected by means of thin tungsten networks formed between them. The integrated circuits are produced in a wafer of silicon by using a simplified version of present-day diffusion techniques. The active elements are interconnected, according to the pattern desired, by forming tungsten paths between them. The wafer is then transferred onto glass, face down, like an array of decals. The back of the wafer is subsequently thinned down close to the active elements making up the integrated circuits. Following that, the back of the wafer is etched down to the tungsten interconnection pattern through a mask which precisely outlines the boundaries of each active element within the circuits as well as the boundaries of the circuits themselves. The result is a glass wafer with tiny islands of silicon protruding from the top surface with the active elements electrically isolated from each other except for the tungsten pattern that interconnects them. More than 200 micro-electronic "decals" circuits can be contained in the glass disc.



**MVR Videodisc Slow Motion VDR 250 Recorder**, an advanced model of the firm's original videodisc recorder (*Journal*, p. 1058, Oct. 1966) has been announced by MVR Corp., Palo Alto, Calif. The recorder, used for sports events, features "Slow Motion Instant Replay" which permits transmitting a close, or fast, individual play. The recorder also has the stop-action or "freeze" capability of the earlier model. The slow motion replay can be accomplished at three different speeds, slow, medium and fast. The machine,

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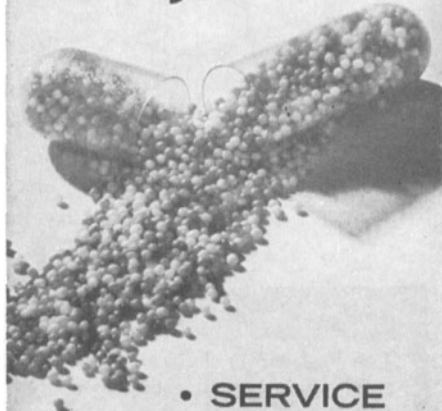
East Coast Distributor: Camera Mart, N. Y.  
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which weighs less than 75 lb, has the same capability of the earlier model to convert nonstandard TV signals to standard signals that can be viewed on a normal television set. The new machine can be recued for instant replay in less than  $\frac{1}{4}$  s, the announcement stated.

**An industrial synchronizing generator** constructed to provide a common source for 2:1 interlaced synchronization of television cameras in multiple-camera installations has been announced by Ampex Corp., 2201 Lunt Ave., Elk Grove Village, Ill. Designated Model AC 912, the generator can be used with any closed-circuit camera that has provision for external synchronization, including the Ampex CC-324 camera, the announcement stated. Designed for flexibility, the unit is completely transistorized, uses all silicon devices, operates from a 117-V ac power source and consumes less than 10 W of power when fully loaded. The generator is priced at \$399.95.

**A special effects generator** for four-channel split-screen operation for broadcast and closed-circuit television use has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. Designated Model EF-100, the generator is designed to provide special effects for television productions and a split-screen capability which permits video display of up to four pictures on a single television receiver. Special effects patterns and split-screen techniques can be recorded on any video-tape recorder or monitored directly from camera to receiver. A remote control unit is available. Prices start at \$1,375.

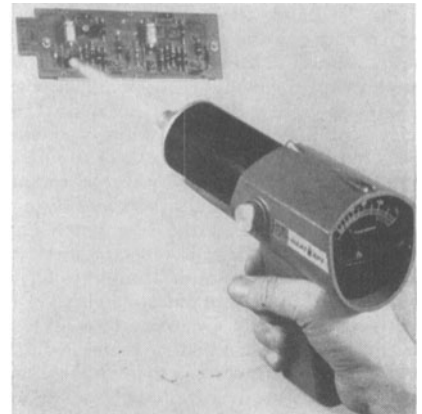
**An all-solid-state sync generator** for closed-circuit TV systems has been announced by Shibaden Corp. of America, 58-25 Brooklyn-Queens Expressway, Woodside, N.Y. 11377. Designated Model SG-103-2A, the generator produces standard sync, composite blanking, horizontal drive and vertical drive signals. A switch on the front panel is used to select the operational mode of either "line lock" or "internal crystal lock." The unit is 2 $\frac{1}{4}$  in. high, 7 in. wide and 8 $\frac{3}{8}$  in. deep and weighs 3.5 lb. It is priced at \$780.

**Interchangeable plug-in units** designed for use with a single meter to form a wide range of analogue measuring instruments are produced by Dymar Electronics Ltd., Rembrandt House, Whippendell Road, Watford, Hertfordshire, England. Announcement was made by British Information Services, 845 Third Ave., New York, N.Y. 10022. Basis of the system is a meter unit which provides a 5-in. scale movement calibrated to  $\pm 1\%$ , and power supplies. Twelve measuring instruments are now available, any one of which can be plugged into the meter unit. The measuring instruments include both ac and dc units. Also available are two AF signal generators, and an AF wave analyzer. A plug-in chassis and a plug-in housing are available.

**A new pH electrode** called Plastiprobe, designed especially for rough and hard use, has been announced by Photovolt Corp., 1115 Broadway, New York, N.Y. 10010.

The glass and reference electrodes are combined in one unit which is encased in a polymer shell that has a removable sample cup. With the cup removed, the shell extension protects the electrode when it is used in open beakers or tanks. The Plastiprobe is priced at \$27.50.

**A new set of color filters** for chromaticity references has been announced by Hoffman Engineering Corp., 183 Sound Beach Ave. R, Old Greenwich, Conn. 06870. The filters were developed originally by the U.S. Navy to provide chromaticity references for the manufacture and visual inspection of control console signal lights. The set consists of 20 2 by 2-in. stable acrylic filters that can be used for checking photometer response, setting up visual color limits, and other purposes, in five color categories: 3 reds, 2 yellows, 5 greens, 5 blues, 4 whites and 1 intermediate reference between red and yellow. Included is a 28-page book containing a spectrophotometric curve for each filter, plus chromaticity coordinates, luminous and radiant transmission, for 9 color temperatures from 1600 K to equal energy. Price of the filters and book is \$225.



**The Heat Spy Model HS-8**, an instrument designed for selective non-contact temperature measurement of small components, has been announced by William Wahl Corp., Temp-Plate Div., 1001 Colorado Ave., Santa Monica, Calif. 90404. The pistol-grip thermometer is operated simply by aiming at the surface to be measured, pulling the trigger and reading the temperature shown on the face of the meter. The instrument indicates the surface temperature of temperature-critical objects by responding to infrared energy emitted from a well-defined surface. The exact target area being measured is defined by a light beam which enables the operator to aim at objects 0.1 in. to 0.4 in. in diameter. The instrument is available in four models covering a total temperature range of 100 to 1000 F or the Centigrade equivalents. It is priced at \$750.

**The Omega Interchangeable Miniature Module** has been announced by Omega, an affiliate of Omega Engineering Co., 11817 Wicks St., Sun Valley, Calif. The modules are comprised of two gain stages terminating into a 12-in. plug. Input and output transformers are connected at the receptacle. Low impedance record and reproduce heads can be directly connected. Gain controls from 600-ohm ladder attenuators to

10,000-ohm pots can be used. The module plug is rhodium plated. The overall size is  $\frac{1}{2}$  by  $2\frac{1}{2}$  by  $3\frac{1}{2}$ -in. The housing is 0.032-in.-thick aluminum to provide shielding when modules are packaged directly adjacent to each other.

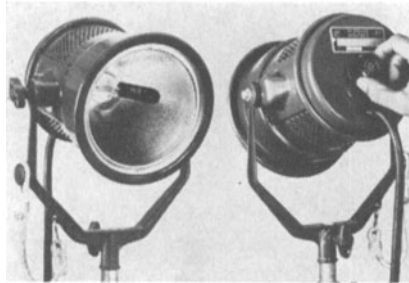
A new all-solid-state processing amplifier designated AC 911 has been announced by Ampex Corp., 2201 Lunt Ave., Elk Grove Village, Ill. Although designed especially for use with the Ampex VR-6000 and VR-7000 videotape recorders, it can be coupled with any television recorder to produce a video signal output, the announcement stated. When used in conjunction with single-head helical-scan video-tape recorders, the amplifier reshapes the horizontal sync pulses to eliminate dropout characteristics in the video output. A dropout position control allows proper positioning of a reinserted dropout. A dropout on/off switch permits use of the AC 911 with recorders that have no dropout. The new amplifier can be used with either color or monochrome recorders. It is priced at \$799.95.



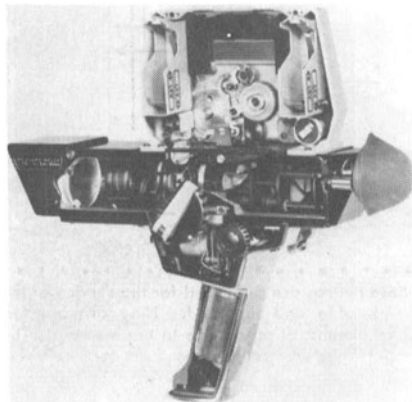
A new "super-cardioid" microphone called the RE15 has been announced by Electro-Voice, Inc., Buchanan, Mich. 49107. The microphone is designed so that directional frequency response is virtually independent of angular location of the sound source. The directional pattern of the microphone has greatest sound rejection up to 26 dB at 150° off-axis. At other points its pattern is that of a closely controlled classic cardioid. The lightweight microphone can be used for pass-around situations and interviews. A satin nickel finish is employed to eliminate reflections for on-camera use under bright lights. Frequency response is listed at 60 to 15,000 Hz and the output level is -55 dB. A "bass tilt" switch is incorporated to aid in overcoming boomy acoustical conditions. The RE15 is priced at \$153.

The Leo-Pod, a lightweight camera support with a safety-belt-type harness has been announced by Leopold Enterprises, Inc., 1 N. Merrick Ave., Merrick, L.I., N.Y. 11566. The shoulder pod is adjustable to a cameraman's height, physical needs and clothing, and is designed to provide total freedom of action even during long periods of waiting. Features include a telescoping camera support and provision for horizontal tilt by means of a simple hand device. The

pod tilts to a 30° angle upwards and downwards. It is engineered to handle the heaviest cameras now in common use. The price is \$177.50.



The Molequartz Mickey-Mole, a focusable 1000-W quartz light, has been announced by Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood, Calif. 90038. The flood-to-spot control knob is located at the back of the lamp. The globe is mounted in a stationary socket. The reflector, made of specular aluminum moves when focusing. The light can be used with 12 different quartz tungsten-halogen globes. The lamp is priced at \$66.50. A compact "baby size" pedestal is priced at \$29.50. A number of accessories is available.



The Bolex 150 Super 8 Camera has been announced by Paillard Inc., 1900 Lower Rd., Linden, N.J. 07036. Features include pistol grip which holds the electric motor. The  $f/1.9$  zoom lens has a focal length of 8.5 mm to 30 mm. The lens is made up of 17 coated lens elements. Features also include a diaphragm lock to provide a versatile exposure control. The film chamber on the camera is notched for a super 8 cartridge. Its wedge-shaped feeler for the speed notch automatically sets the film speed from 25 to 100 ASA daylight and 40 to 160 ASA tungsten. The camera is priced at \$250.

The firm also announced the Bolex SM8 sound film projector for projecting super 8 film. The projector has a film capacity of up to 800 ft. The film is threaded automatically on spools up to 400 ft. The projector also features a Paillard zoom 14-25  $f/1.3$  lens to project in a room of practically any size or shape. The mechanism on the projector is driven by an asynchronous motor that can be switched during operation to forward and backward motion at 18 and 24 frames/s by turning a knob with two positions. The projector is priced at \$360 with a fixed focal length lens and \$390 with a zoom lens.



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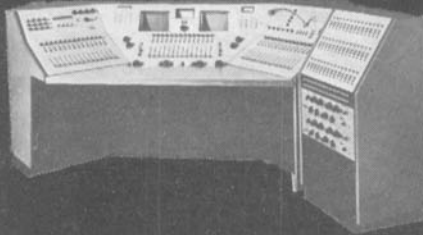
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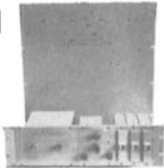


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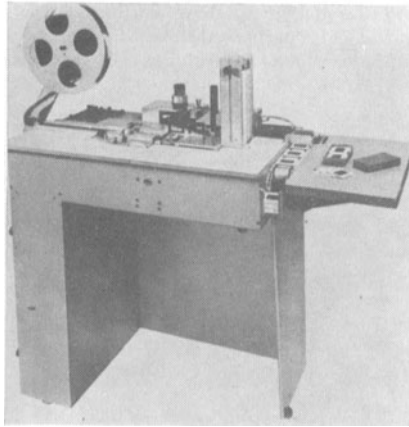
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The Model A-3 film cutter has been announced by Sickles Sales & Service Co., Rt. 1, Box 726, Scottsdale, Ariz. 85257, distributors of slide mounting equipment manufactured by Byers Photo Equipment Co. The cutter can be used for cutting 35 mm film for mounting in TV slides. It is said to cut the film accurately on a consistent 8-sprocket advance. The unit is constructed of aluminum and steel with Plexiglas track and guide area. It has self-lubricating bearings throughout. It is priced at \$445.

## employment service



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These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

### Positions Wanted

**Cameraman-Editor-Recordist.** Available in Great Lakes area, from now till March 1967. Own equipment 16 & 35mm, editing, lighting, sound. B. Penzien, 15240 Crescentwood, E. Detroit, Mich. 48021.

**Motion Picture Laboratory Technician.** Science graduate with 5 years practical experience — including 3 years heavy management responsibility in cine film processing laboratory work. Have intimate knowledge of 35mm B-&W positive, negative processing and printing, and sensitometric control work. Seeks post with industry or other organization where initiative is valued and ability is appreciated and where he can use his experience and understanding of films to further ends. Résumé upon request. Contact: Dhar. Muthulingam, Flat 5, Richmond Court, 72 Talbot Road, London W-2, England.

### Positions Available

**Motion-Picture Camera Service Manager.** Dynamic national organization seeks capable manager for growing service dept. Thorough knowl. of professional m-p cameras and equipment essential. Required to provide technical liaison with manufacturer in Germany, therefore fluent knowl. of German language necessary. In addition to supervising and training top-fite

A light for use on all Bell & Howell super 8 cameras has been announced by Bell & Howell, 7100 McCormick Rd., Chicago, Ill. 60645. The light features a special heat shield for cooler operation of the on-off switch, and a built-in filter pin which automatically places the camera's filter for properly exposed indoor movies. Also available is a light specially designed for use with the Canon super 8 cameras. Each of the lights has a 650-W bromine lamp with a rated life of about 25 hr. Other features include a choice of spot or flood beams for wide- or narrow-angle coverage; a head that can be rotated 45° for bounce light; and a wire shield to help prevent accidental contact with the hot surface of the lamp. The light for the Bell & Howell super 8 is priced at \$21.95. The Canon version is priced at \$19.95.

A pressure-sensitive film splicing tape designated P-921 has been announced by Permacel Div., Johnson & Johnson, New Brunswick, N.J. Designed for use with all presently available splicers, including Unicorn, Gryphon and DuPage, it is available in the 1-in. by 72-yd size on a 3-in. core.

technicians, must provide technical liaison with important customers including U.S. Government and military installations. Occasional travel. Submit résumé in confidence including salary req. to: Arriflex Corp. of America, Personnel Dept., P.O. Box 1050, Woodside, N.Y. 11377.

**Laboratory Generalist** with quality control and administrative experience, familiar with all black-and-white and color film processing. Largest complete laboratory in the Midwest, convenient transportation, division of Wilding, Inc. Send résumé to: Mid-America Color Labs, 1345 Argyle St., Chicago, Ill. 60640. Attn: Mr. Ray Schwarz.

**Experienced Laboratory Technicians** needed immediately. Timers and printers familiar with additive color printing system preferred but not essential. Largest complete laboratory in the Midwest, convenient transportation, division of Wilding, Inc. Send résumé to: Mid-America Color Labs, 1345 Argyle St., Chicago, Ill. 60640. Attn: Mr. Denis Howe.

**Precision Machinist** familiar with maintenance and repair of m-p printing and development equipment. Largest complete laboratory in the Midwest, convenient transportation, division of Wilding, Inc. Send résumé to: Mid-America Color Labs, 1345 Argyle St., Chicago, Ill. 60640. Attn: Mr. Denis Howe.

**Motion-Picture Lab Technician.** Opening for quality conscious man in small, growing lab. Excellent opportunity for advancement with increasing responsibility. Should be familiar with all phases of film handling and lab operation. Send résumé and salary requirements to: George F. Golden, c/o Filmlab Service, Inc., 2502 Payne Ave., Cleveland, Ohio 44114.

**Project Engineers.** All levels, for challenging assignments in the design of audio, video and control facilities for color TV studios. BSEE and minimum of 2 years experience, preferably in broadcasting, required. Location is CBS Headquarters Building in midtown New York. Send résumés and salary requirements to: Mr. William J. Reilly, Jr. Personnel Dept., Columbia Broadcasting System, Inc., 51 W. 52nd St., New York, N.Y. 10019.