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## new products

(and developments)

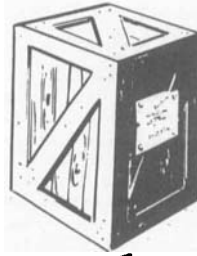
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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



The new Pathe Electronic Duolight camera, measuring 9 by 3½ by 6¼ in a diecast hydraulic body, weighing 6 lb, has been announced by Karl Heitz, 979 Third Ave., New York, NY 10022. The camera is available as a double super-8 or 16mm (DS8 and 16 Duolight). Both models have a rotating C-mount turret for a wide choice of zoom lenses plus hundreds of other interchangeable lenses and attachments ranging from 360° circular-image ultra-wide-angle up to 1000mm super-telephoto.

The behind-the-lens CdS cell lightmeter measures overall illumination from either film or shutter surface with the camera running or not; it provides electronically compensated readings for any lens at any distance with any lens accessory. A detachable micro servo motor couples to popular zoom or other C-mount lenses for automatic exposure control. The CdS cell and reflex system are protected against stray light by an integral cover when not in use or when filming without viewing.

The electronic meter system has no mechanical linkages; it is designed to provide instant and accurate readings up to 1/10 of an *f*/stop. Two light-emitting diodes give a large red signal on the upper left to indicate overexposure and a small red signal on the upper right to indicate underexposure. Both signals are visible even under very poor light conditions and, with automatic diaphragm control, indicate unsuitable filming conditions. With manual control, the diaphragm can be turned until both LED signals disappear when the exposure will be correct. A shockproof, transistorized solid-state electronic circuit board and goldplated contacts are incorporated to withstand the most rugged use and to



eliminate most meter repairs. The meter system is activated by a 12-V dc battery.

Film ratings can be selected from 10 to 400 ASA with intermediate settings and speeds ranging from 18 to 64 and, with a 15-V battery, 80 frames/s for ultra-slow motion. Continuously variable shutter openings with click stops from 0 to 1 (180° angle) are adjustable while filming. Computer dials enable the operator to combine any ASA ratings, speeds and shutter openings for electronically-controlled, automatic or manual exposure settings.

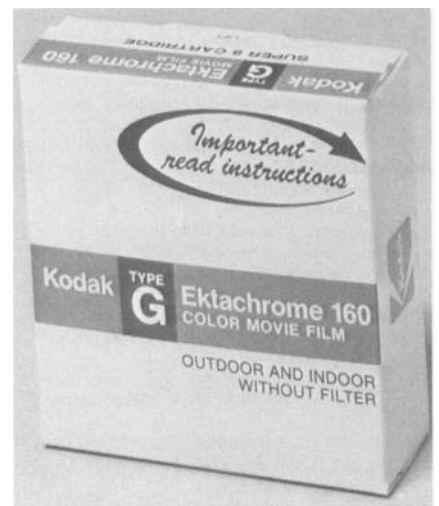
The optical system, with glass pellicle, offers a parallax-free reflex image without flicker while filming. An etched ground glass with crosshair reticle and TV title safe-action frame line is used to provide accurate composition, focusing and depth-of-field control. The picture is magnified 20 times for optimum brightness with open or closed shutter. A large light-shielding, soft-rubber cup rotates for left or right eye use. The ocular is adjustable from +2 to -2 diopters for individual eyesight.

A one-to-one shaft permits attachment of any accessory motor for time-lapse studies, animation, etc. An internal, brushless, 12-V dc electric motor with Hall-effect generator is electronically governed for speed accuracy. A power backwind for the entire film length of 100 or 400 ft permits double exposures, dissolves and other special effects.

A motorized 400-ft magazine with footage counter permits uninterrupted film runs of 11 min with 16mm, or 40 min with double super-8 film.

The camera has a detachable pistolgrip with thumb release, shoulder belt and optional shoulder support, holding a 0.5 Ah battery. The pistolgrip is angled for easy portability and right-hand or left-hand filming. The mounting surface of the camera is large and flat for optimum stability on a tripod.

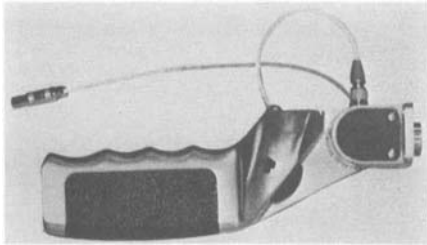
Price range of the Pathe Duolight, depending on lenses and other options, is from \$1,495 to \$2,995.



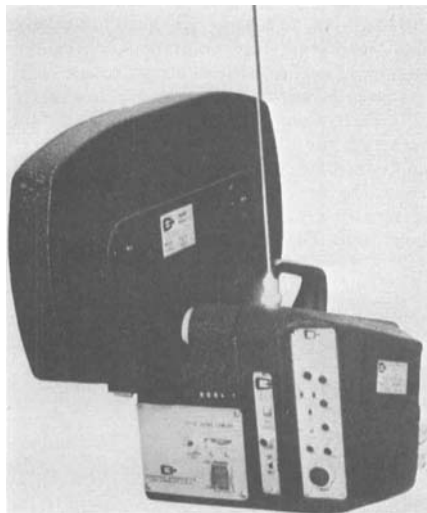
Kodak type G Ektachrome 160 movie film, a super-8 film designed for use in a wide variety of lighting situations without filtration, has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The film can be used in any camera having the capability of exposing ASA 160 film. Development of the film was prompted by studies showing that the most common error was that of forgetting to use the camera's built-in filter under

daylight conditions, resulting in movies with a bluish cast. With the new film, movies in any light can be made by switching the daylight filter out of the light path and setting the exposure control to ASA 160.

The new film is specially sensitized to reduce shifts in color balance caused by differences in the color quality of illuminants allowing movies to be made without a filter in any type of illumination including daylight, fluorescent lamps, household light bulbs, stage and sports lighting, color TV and firelight. A 50-ft cartridge of Kodak type G Ektachrome 160 is priced at \$4.20.



The handgrip-packaged J-5 zoom control for CP-16 reflex and non-reflex cameras has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The entire J-5 servo-feedback system circuitry plus the thumb-activated direction/proportional speed control are packaged in the special CP-16 camera handgrip. J-5 zoom control lens brackets are available for all 16mm zoom lenses. The J-5 zoom control is priced at \$675. The price includes the motor. Price range for the J-5 zoom lens bracket, depending on the specific lens, begins at \$75.



The new Crystalink wireless receiver for use with CP-16 Reflex and non-reflex cameras has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The unit, designed by Cinema Products in cooperation with Vega Electronics, 3000 W. Warner, Santa Ana, CA 92704, features the use of helical resonators, a device which permits the frequency to which the receiver is tuned to pass freely while blocking any strong adjacent frequencies which might be present that would normally overload conventional front end amplifiers. Designated Model CL-1, the Crystalink wireless receiver is mounted between the CP-16 camera body and the Crystasound amplifier, adding about 1 in (25mm) to the width. The unit is powered by the same NC-4 battery pack which powers

# Our Thing ... Super Accurate Crystal Sync

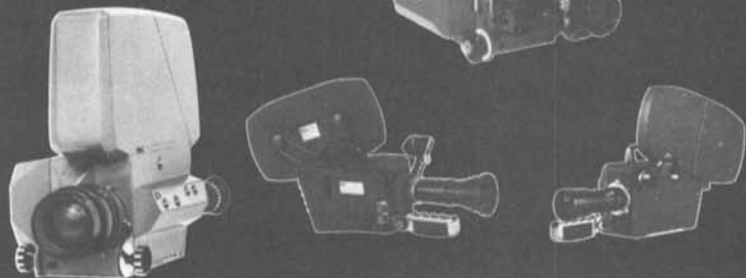
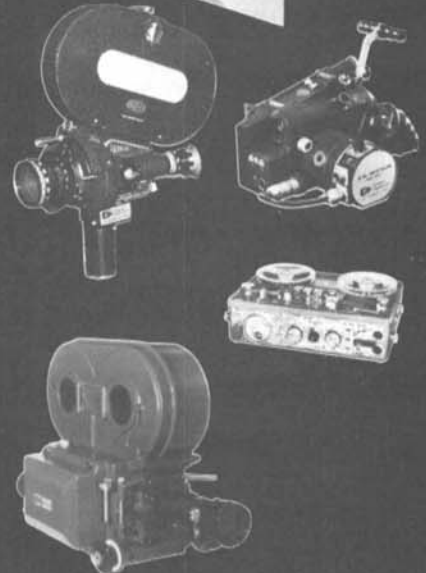
Because of TCXO. Which stands for  
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And because of our sophisticated control circuitry.

At Cinema Products we use only high frequency TCXO-type quartz crystal mini-oscillators which vibrate at approximately 3,500,000 cycles-per-second. Our crystal-controlled cordless sync products are accurate to  $\pm 15$  parts-per-million within a temperature range from 0° through 140° Fahrenheit. These parameters of accuracy in our crystal-controlled sync products meet all professional sync operation requirements under all stated conditions. That's what we mean by super accuracy.

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- Crystal-controlled motors for Mitchell BNC, NC and Mark II/S35R cameras.
- Crystal-controlled motor for Cinema Products XR35 studio camera.
- And crystal-controlled motors for Cinema Products CP-16 reflex and non-reflex TV-news/documentary 16mm cameras.



For further information, please write to:

**cinema E products**  
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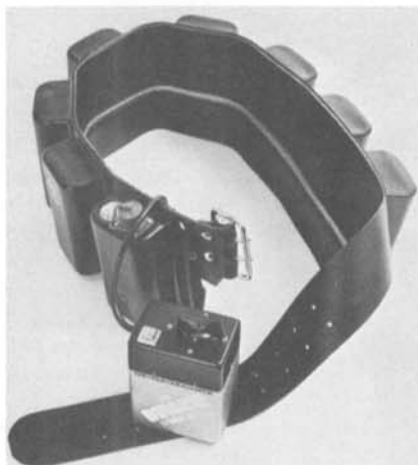
Technology In The Service Of Creativity  
2037 Granville Avenue, Los Angeles, California 90025  
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the entire CP-16 camera system. The back panel of the unit consists of an on-off switch, a volume control and a field signal strength meter to indicate if there is sufficient RF signal strength to insure good reception. The receiver can be used in conjunction with the Vega cordless transmitter, Model 55, the microphone/transmitter, Model 54 and similar units. Receiver/transmitter frequency combinations can be specified for a number of radio/microphone frequencies. The Crystalink antenna can be easily removed and replaced in case of damage while on assignment. Price of the Crystalink wireless receiver fully installed with Vega transmitter Model 55 is \$1390 and with the Vega microphone/transmitter Model 54 the price is \$1450.



A **Printing Machine Power Supply**, Model CE-DCPS-1200, has been announced by Carter Equipment Co., 1050 West Florence Ave., Inglewood, CA 90301. It provides up to 1200 W of dc power from either a 115 or 220-V single-phase, 50/60 Hz line. The unit measures 11 by 6 by 9 in and weighs 14 lb. Fea-

tures include a combination triac pre-regulator and pass transistor power section providing ac line regulation of  $\pm 1/4\%$  and dc output power regulation of  $\pm 1/4\%$  rms. The price, including voltmeter, is \$900.



A new line of **Quickie Battery Belts** has been announced by Cine 60 Inc., 630 Ninth Ave., New York, NY 10036. Similar in size and appearance to the firm's original Battery Belt, the new belts have a special fast-charging system permitting them to go from a fully discharged to a fully charged state in an hour. Charging is facilitated by additional heavy-duty circuitry within the belt, plus a detachable charging module designed to permit fast charging with complete safety. The combina-

tion of a timer mechanism and an electrical thermal cutoff which monitors battery temperature, prevents harmful overcharging and automatically switches the belt into the trickle-charge mode. A quick-charge light is automatically extinguished when the belt reaches full charge. The Quickie belts range from 8 to 30 V with up to 4 Ah capacity. The price range is from \$195 to \$375. The optional charging module which can be used with all the belts is priced at \$125.



A new **Duro-Pack Power Supply** switchable to either 8 or 12 V dc has been announced by Arriflex Co. of America, Box 1050, Woodside, NY 11377. It can power the Arriflex 16S, 16M, 16BL and 35BL cameras. The new power supply is designed to plug into 110-120-V, 60-Hz, ac outlets. The units are solidly built for heavy duty continuous operation. Each unit is provided with a replaceable fuse, a resettable overload relay and a solid-state self-protecting regulator to provide maximum protection for camera equipment and power supply including even accidental short circuits across the dc output terminals. The power supply measures 7 1/2 by 5 by 10 in and weighs about 10 lb. The price is \$325.

## This is all the recorder you need!

Here's a fine piece of equipment—made especially for the motion picture industry—that's right for just about any assignment. The Arrivox-Tandberg incorporates every essential capability without an ounce of fluff. And because its carefully selected features are right, it's priced right! Write for detailed literature before you buy any recorder at any price!

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ARRIFLEX COMPANY OF AMERICA  
P.O. Box 1050, Woodside, N.Y. 11377  
1011 Chestnut St., Burbank, Calif. 91502



**ARRIVOX-TANDBERG**  
PROFESSIONAL 1/4" TAPE RECORDER



**Genigraphics**, a computer-assisted electronic artwork system designed to create and process full-color graphic illustrations 10 to 50 times as conventional methods, has been announced by General Electric Co., 80 Wolf Rd., Suite 500, Albany, NY 12205. The basic Genigraphics system consists of a console and a computer enabling the operator to display a broad variety of computer-stored graphic elements and charting formats on a TV monitor. By manipulation of the controls the operator can edit, crop, magnify, rearrange, distort, change color or otherwise experiment with a graphic

composition. When the artist is satisfied with the result, the system's 4000-line resolution film recorder can yield hard copy, 35mm film or slides. The same output can also be switched to the NTSC 525-line TV broadcast signal and recorded onto any videotape format. The artist can create full-color designs with the Genigraphics system or he can store certain basic graphics in a computer and call them upon a screen.

The Genigraphics System has been installed at Consolidated Film Industries in Hollywood. The service is also available at the GE Genigraphics Center at 219 E. 42 St., New York, NY 10017.

The **Porta-Brace**, designed for comfortable carrying of portable videotape recording systems, has been announced by K and H Products, Ltd., Main St., North Bennington, VT 05257. The device has a cantilevered support arm which allows the camera to be placed directly in front of the eye. When not in use the camera may be swung aside but it can be instantly returned to the shooting position. The cantilevered support allows hands-free operation. The camera support arm pivots on a high-strength aluminum alloy which carries the VTR deck. The design of the frame allows the weight of the deck and the camera to be shared by the shoulders and hips. The deck may be quickly mounted and demounted from the frame. Price of the Porta-Brace is \$150.



A **simplified method** of making large aspherical lenses has been developed at Mullard Research Laboratories in Redhill, England. The lenses, used for TV projectors, aircraft and space cameras, etc., are made by a molding process in which a glass base is used to carry a thin, hard and durable plastic coating; the surface of the plastic is aspherically profiled. The new method is simpler and less expensive than the conventional method which requires technically difficult grinding and polishing operations; it is also reported to make possible a more consistently accurate profile providing an improved optical performance.

The Mullard Laboratories are part of the Philips (Eindhoven, Netherlands) Group of Companies. Announcement of the new lens-making method was made by Mullard Ltd., Mullard House, Torrington Pl., London, WC 1E 7HD, England.

An **audio flutter meter**, Model 8160, has been announced by 3M Company's Minicom Div., 3M Center, St. Paul, MN 55101. The instrument, intended for field service operations, complies with IEEE and DIN recommended standards for pulse response. Other applications include use in hi-fi and radio repair shops, audiotape and videotape transports production line tests and for servicing dictating equipment. The price is \$395.

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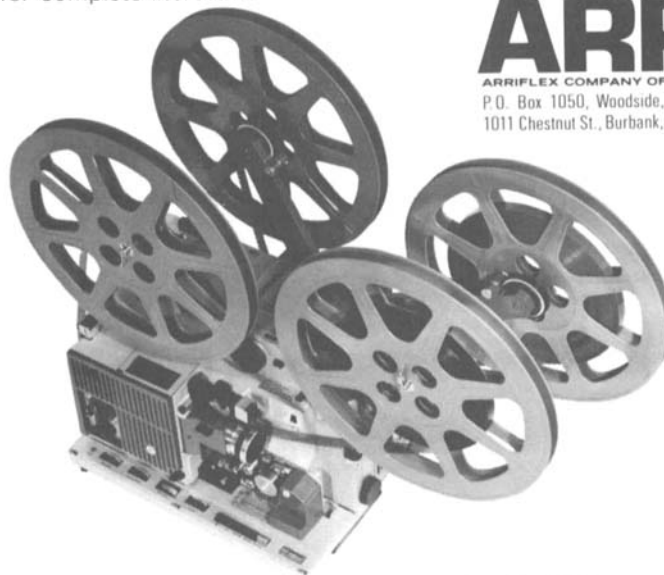
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Pursuant to Judicial Consent Order, Movielab, Inc. offers to sell the following machinery, equipment and furniture for use in establishing or expanding a professional film processing plant: (2) 35mm Bell & Howell Model C DH color printers; (3) 16mm Bell & Howell Model C DH color printers; (1) 35mm Peterson B&W printer; (1) S/8 Model C additive color printer; (1) S/8 HFC additive reduction color printer; (1) 35mm Precision dupe color printer; (1) 35 to 16mm Eastman Kodak reduction track printer; (1) 16mm contact track printer Model J; (1) Dupes B & W reduction printer; (1) 35 to 16mm reduction tracker; (1) Twistair compressor; (1) Supervisor table with ticket racks; (1) 35/16 Color negative developing machine 75 fpm; (1) 35mm color negative developing machine; (1) 35/16 CRI color developing machine; (1) 16mm color positive and negative developing machine; (1) 16mm color positive developing machine; (1) 16mm ECO 2-ME 4 color reversal developing machine; (1) B & W 35mm negative developing machine; (1) B & W 16mm negative developing machine; (1) B & W 35mm positive developing machine; (1) B & W 16mm positive developing machine; (1) North American Rockwell compressor; (2) vacuum pumps; (1) Hazeltine color analyzer; (1) scale; (1) work bench; (2) Macbeth Digital Densitometers; (1) microscope; (1) Sensitometer; (1) Simplex 35mm Norelco projector; (6) projection screens; (1) 35mm Xenon projector; RCA single channel sound system; (1) screen; (1) footable counter; (20) seats; (1) welding outfit, pipe threader, portable drill, saw, acetylene torch; (2) Strobatacs; (25) fire extinguishers; Miscellaneous punches, tape machines, etc.; (8) synchronizers; (1 each) 35mm and 16mm Moviola; (1) 35/16 Sonic cleaner; (1) Glass Wheel buffer; (2) 35mm Hollywood Hi-Speed projectors; (3) 16mm Hollywood Hi-Speed projectors; (1) 16mm B & H projector, regular speed w/stand; (2) synchronizers 16 X 3; (2) synchronizers 35 X 2; 1mm correcting tables, desks; (2) Arri silver recovery units; (2) SS scales, one lge, one sm; (1) Westrex Densitometer; (1) Eastman Kodak 31-A Densitometer; (1) Photovolt; (1) Scantester; (1) HFC Hi-Speed 35mm projector; (1) HFC Hi-Speed 16mm projector; (1) B & H 16mm sound projector; (2) 35mm Xenon arc projectors; (1) 16mm Xenon projector; (1) South Bend lathe; (1) drill press; (1) Bridgeport milling machine—or Van Norman; (1) contour saw; (1) surface grinder; (1) disc grinder; (1) sander; (1) B & H tape puncher; (1) duplicator and read out verifier; (8) 35mm table splicers; (8) 16mm table splicers; (2) sign-out tables; (2) sign-out machines; (6) storage racks for reels & cans; (1) 35mm sound reader opt/mag; (1) 16mm sound reader opt/mag; (1) foot splicer; (4) cabinets; (3) footage counters; (6) leader disposal-racks; (1) electric typewriter; (1) conference table; (1) adding machine; (2) sign-in machines; (4) 3 X 10 tables; (22) 3 X 5 worktables with re-winds; (16) chairs; (32) racks. Price and terms to be negotiated.

Any purchaser must be approved by the Department of Justice or the United States District Court for the Southern District of New York. All above machinery, equipment and furniture will be available for inspection by appointment during reasonable business hours at Movielab's premises at 619 West 54th Street, New York, New York, with the exception of items marked with an asterisk ("\*"), which items may be inspected at a location in Hollywood, California, and items marked with a double asterisk ("\*\*"), which items may be inspected at a location in New Jersey.

In connection with any sale of the above, Movielab will, at the option of the purchaser:

(a) Assist and cooperate in selection and design of a professional film processing lab, or expansion of lab in the New York Metro Area, and in hiring and training of personnel.

(b) Supply list of potential customers.

(c) Release from contract any officer or employee requesting such release to become associated with purchaser.

(d) Offer sublease of 3rd Floor premises at 323-333 East 44th Street, New York, New York, for the remaining period of Movielab's lease (expiration presently September 30, 1976).

(e) Assist purchaser in acquiring additional machinery, equipment and furniture for the account of purchaser, including: (2) 35-16 Dupes printers with Bell & Howell lamphouse and readers; (1) compressor; (1) S/8 Model C additive color printer; (1) 35/16 combination positive demand drive color developing machine, 240 fpm; (1) compressor; (15 each) recirculation pumps, replenishment pumps, Marsh heat exchangers (solutions), fluorators; temperature recorders, air regulators; (8) Unicorn tape splicers; (4) sinks; (4) rewind Wet-end tables; (4) rewind Dry-end tables with Dazor lamps; (8) Colortran safelights; (1) 35mm color negative 5247 developing machine; (1) 35/16 Color negative 7247, 5247 developing machine; (1) 35/32 and S/8 color positive developing machine; (1) 35mm Hi-Speed projector; (1) 35mm regular silent projector; (1) 16mm Hi-Speed projector; (1) 16mm Bell & Howell regular speed projector w/stand; (20) plastic storage tanks; (3) benches SS work top; (1) SS sink; (15) plastic mixing tanks, 15 X 200 gals., plumbing, elect controls, water filters, waterproof floors; (2) rewind tables; (2) tape machines; (40) racks; (4) tile cabinets.

With the approval of the Department of Justice a purchaser may purchase less than all machinery, equipment or furniture hereby offered for sale. All inquiries and/or offers should be directed to John J. Kowalak, c/o Movielab, Inc., 619 West 54th Street, New York, N.Y., Telephone Number 212-586-0360.

WANTED: Used OMAC 16/35mm colour processor. KEN DAVEY PRODUCTIONS LTD., 695 Sargent Ave., Winnipeg, Canada (204) 774-1829

A.V.E. "Transportable" Interlocker-Rusher—159 35mm Sound Projector with 4" lens. Has been completely checked by A.V.E. Optical and Magnetic playback, solid state amplifier—2 cases. Price \$1,950.00. Contact: Mr. Howard Swift, The Dow Chemical Co., 2030 Dow Center, Midland, MI 48640.

Selsyn distributor, footage counter. 220V/30. \$3,000. Fish poles, Ampex and Altec Studio monitors, amps. Console "Op Amp kits." Don Walton, P.O.B. 6665, Fort Myers, FL 33901. List of complete inventory available.



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## Positions Wanted

**Television & Audio/Visual Engineer/Manager** seeking a position with a growing communications facility. Five years of experience in planning, design, installation, operations and maintenance of video, audio, and audio/visual systems. Four years of experience in television production activities. Write or call Ken Wollny, 155 Kings Rd., Madison, NJ 07940 (201) 822-3065.

**Minicomputer Software Specialist.** With extensive experience in design and implementation of interactive terminal and graphics systems desires employment in NYC area. Especially interested in minicomputer applications in station automation, video handling, or computer graphics. Double degree in computer science and cinematography. 3 years industry experience. Working knowledge of film and video equipment. Can assume responsibility for system design and development. Resume available on request. Write or call: William Dolson, 409 W. Elm #12, Urbana, IL 61801, (217) 344-0725.

**TV Engineer.** All phases; experienced at major network and affiliate; close circuit TV; production house; video tape, TD, audio. Will go anywhere. Resume on request. R. D. Raymond, 91 Remsen St., Brooklyn, NY 11201.

## Positions Available

**Production Supervisor/Shop Foreman.** Growing manufacturer of motion-picture laboratory equipment seeks young, aggressive machinist for junior management position. Must have laboratory experience or equivalent. Salary and fringe benefits commensurate with background. Foreign applicants invited. Contact Clay Ogletree, Carter Equipment Co., Inc., 1050 W. Florence Ave., Inglewood, CA 90301; (213) 677-6117.

**Salesman.** Photographic and microfilm industrial equipment. Familiar with one or preferably both areas. Direct sales in North Eastern United States. Must have prior experience in equipment sales. Salary plus commission. Send resume and salary history in confidence to P. O. Box 64366, Los Angeles, CA 90064.

**ETV Technical Assistance Advisor.** El Salvador. Cinematographer, photographer with fluent Spanish and "hands on" experience to teach film processing; repair and maintenance of equipment and to develop manuals in this area for staff training. Creative filmmaker with knowledge of latest equipment and techniques preferred. Term of employment: 10 months beginning immediately. Call collect—Mr. Moseley or Mrs. Blake, Academy for Educational Development, 1424 16th St., N.W., Washington, D.C. 20036 (202) 265-5576.

The Peace Corps, a volunteer program sponsored by the federal agency ACTION, is seeking qualified persons with photography skills to become Peace Corps Volunteers in an agricultural communications program in Colombia. This is a unique opportunity for a qualified person to become a valuable asset to the Colombian people and to himself/herself.

**Electronic Technician.** Assist in the establishment of an electronic repair service for a communications center. The equipment to be handled would vary from 16mm to 35mm movie projectors to audio and videotape recorders, sound systems and color TV equipment. A minimum of four years experience in the repair of TV and other electronic equipment is required.

**Cinematographic Editor.** Assist in the production of 16mm film for both documentary and TV shorts. Volunteer will also be expected to train Colombian personnel in various aspects of film editing, including the use of the Moviola flat-bed, and assist in adding sound to the film, mixing transfer, sound editing, etc. A minimum of five years in cinematographic work and a minimum of two years of film editing is required.

**Animator.** Train Colombian personnel in the production of artwork for film and for animation which will extend to the use of the Oxberry animation stand. A minimum of four years experience in varied aspects of film production and a minimum of two years as a film animator is required.

**Film Cameraman Photographer.** Assist in all phases of the production of motion pictures and to supervise the production of slide tape presentations or filmstrips. Also expected to organize a library of 35mm slides with appropriate cataloging systems. A minimum of five years in film/photography and a minimum of two years as a camera operator is required.

**Audio-Visual Technician.** To work in the production of audio-visual aids. A knowledge of photography, motion-picture production and editing, film-strip production and layout work required.

Training begins in October, and the volunteers will be on their respective sites early next year. Inquiries should be directed to the party's toll-free number: 1 800 424-8580.

**Electronics Design Engineers.** RCA Records has immediate requirements for engineers for work associated with its "SelectaVision" program. Excellent career opportunities for degreed design engineers with 3 years color TV signal processing and video-systems experience. Color TV broadcast experience a plus. Positions associated with state-of-the-art development of consumer video systems. Excellent starting salary, comprehensive benefits, educational advancement assistance and relocation allowance offered. Resumes, including salary history, in confidence, to: R. J. LaEace, RCA Records, 6550 E. 30th St., Indianapolis, IN 46219. Equal opportunity employer M/F.

**Photographic Engineer.** Solid background in plastic molding and die casting plus sheet metal fabrication techniques for high volume consumer applications. Some direct experience in the design of enlargers and other darkroom products would be desirable but not an absolute requirement. We offer a fine group of benefits and opportunities for advancement. Salary is commensurate with your experience and ability. For an appointment please call Mr. G. Howitt at (201) 822-1000, Ext. 202, or send resume to Charles Beseler Co., 8 Fernwood Rd., Florham Park, NJ 07932.

**Audio-Visual Technical Administrator.** Experience: 5 years in administration of use and maintenance programs for multi-media equipment with demonstrated supervisory skill. Request B.A. or equivalent.

**Facilities Co-ordinator.** To administer technical co-ordination in an AV/TV media center. Experience: 7 years AV/TV media and electronics with extensive client/people relationship experience. Request B.A. or equivalent.

**Television Engineer.** Experience: 7 years in operation and maintenance of TV broadcast equipment, including quadruplex video recorders, complete color studios, all aspects. Request: FCC 1st class license, BA or equivalent. Equal Opportunity Employer. Apply: Don Marx, IRC, SUNY, Stony Brook, NY 11794.