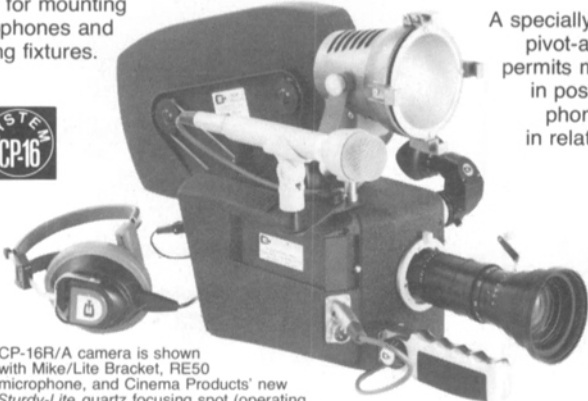


Mike/Lite Bracket for CP-16 Reflex and Non-Reflex cameras.

An ideal accessory for the "one-man-band" TV-newsfilm/documentary cameraman. The new Mike/Lite Bracket is easily mounted on all CP-16 camera models, and is supplied with interchangeable 1/2" and 5/8" studs for mounting microphones and lighting fixtures.



CP-16R/A camera is shown with Mike/Lite Bracket, RE50 microphone, and Cinema Products' new Sturdy-Lite quartz focusing spot (operating at 600 watt-120 volt AC/DC or 250 watt-30 volt DC).



CP-16/A camera

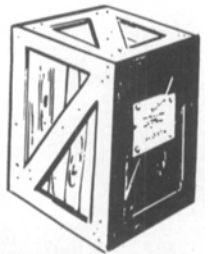
A specially designed locking pivot-arm on the bracket permits maximum flexibility in positioning the microphone and light fixture in relation to each other.



For further information, please write to:



Technology In The Service Of Creativity
2037 Granville Avenue, Los Angeles, California 90025
Telephone: (213) 478-0711 ■ Telex: 69-1339 ■ Cable: Cinedevco



new products

(and developments)

.....
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 line of film transports designed to offer more flexibility to users of film handling equipment by providing for 8mm, super-8, 16mm, 35mm and 70mm formats has been announced by PSC Technology Inc., 1200 Grand Central Ave., Glendale, CA 91201. The transports are interchangeable without tools on any PSC, Traid or Richardson film reader or projector. Features include frame-to-frame registration accuracy of ± 0.0005 in, relative to sprocket holes, pin registration or capstan drive models ruggedized for high-speed use. The transports are engineered for any application in which moving film is a requirement. Prices range from \$2,520 to \$6,930.

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You can keep your production costs low and your product quality high with a world of professional motion picture equipment and services available at Cinecraft. In fact Cinecraft can also solve all your filmmaking needs including rebuilt equipment and electronic or mechanical equipment repair or modification. The next time you're looking for equipment or services you can depend on, with a budget price tag, give Cinecraft a call. You'll be in professional company!



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The Minolta XL-250 super-8 camera featuring automatic through-the-aperture exposure control and $f/1.2$ power zoom lens for low-light filming has been announced by Minolta Corp., 101 Williams Dr., Ramsey, NJ 07446. Features include an $f/1.2$ Zoom Rokkor lens with a 2.5 power zoom range from 10.5 mm to 26 mm. The camera operates on two penlight-size (AA) 1.5-V batteries. The exposure system is compatible with black-and-white and Type A color super-8 films with daylight film-speed ratings of ASA 40 or 160. The lens aperture may also be set manually. The manual aperture control can stop the lens down as far as $f/32$ to allow fade-ins and fade-outs. The camera operates at a fixed filming speed of 18 frames/s. Price of the XL-250 is about \$220. The price includes a handgrip and a lens cap.

Shows in a better light with the Novalit lighting system



Novalit is a modern tv and theatre lighting programming system. The lighting programme is prepared on a punched tape, which reproduces precisely the same lighting night after night. This leaves the lighting technician time to check the live show and correct the fine details of lighting to bring the performance up to its artistic peak. Adjustments to a completed lighting programme are easy to make.

Novalit grows with ease

Novalit is made up of small, independently operating modules. Therefore, even the most complex new operations may be added to the original system easily and the user needs to purchase only those operation modules which he is ready to use.

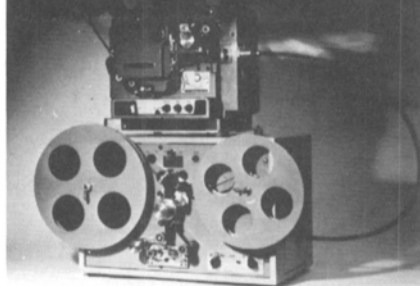
Novalit is easy to use

Although the Novalit system can be programmed with the most varied and demanding lighting, the control panel is straightforward and simple to use. Easy location and replacement of defective modules enables faults to be repaired quickly. And for all this, Novalit is not expensive. Even though it's as good as made-to-measure. Ask for our brochure!



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DUAL-LOCK R-107U

Features a simple mechanical interlock to either a 16 or 35mm projector (as depicted above), or an electrical interlock to existing systems. Uniquely designed film transport is exceptionally smooth. Quick change head assemblies are standard. Optional 5000 ft. capability available. In addition, a multiple of R-107 units may be mechanically coupled to form a compact economical mixing set-up.

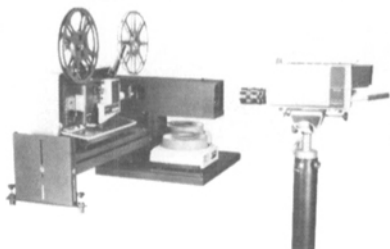
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MID-WEST: Victor Duncan, Inc., Detroit, Chicago, Dallas
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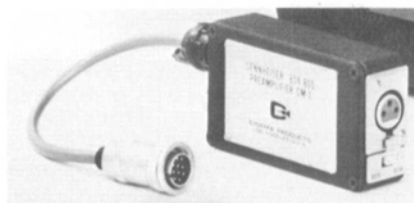


Magi-Sync, a device to enable a movie maker using his own silent super-8 camera and recorder to film and show lip-sync sound movies, has been announced by Magi-Sync Inc., 14 Atlantic Ave., Lynbrook, L.I., NY 11563. The device is a solid-state, palm-sized unit weighing 6 oz and powered by a 9-V battery. To use the system, the movie maker attaches one of the leads on the Magi-Sync to the camera by means of a suction cup. The other lead, terminating in a mini-plug, attaches to any reel-to-reel or cassette tape recorder with a remote control input. The lead attached to the camera "reads" the electromagnetic impulses of the motor and sends a signal to the recorder. When the camera is switched on the recorder starts and it stops when the camera is switched off. Price of the Magi-Sync is \$49.95.

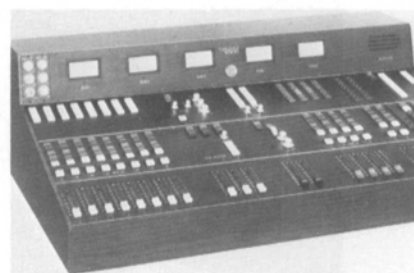


Two Macro Sets designed to facilitate filming close-up subjects with Eumig Mini cameras have been announced by Eumig (USA) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The Macro Set for Mini 3 can be used with the Eumig Mini, Mini 3 and Mini 3 Servofocus super-8 cameras. The kit consists of an optical macro attachment; a macro rail to pre-align the camera lens and the subject; a tripod screw; and a macro rail adapter for the Mini and Mini 3 cameras. The price is about \$19.95. The Macro Set for the Mini 5 can be used only with the Eumig Mini 5 super-8 camera. The kit contains an optical macro attachment, a macro rail, tripod screw, cable release, angle attachment for the cable release, a keyhole mask, a binocular mask, and wipe, clear wipe and slide holder. The price is about \$26.95.

The Model 110 Audio Amplifier, an improved version of the Model 101, has been announced by Spectra Sonics, 770 Wall Ave., Ogden, UT 84404. The new amplifier has increased output (+24 dBm) for use with bipolar (± 24 V dc) power. Applications include microphone pre-amplifier, booster amplifier, mixing amplifier and others. The price is \$72.



A new **Pre-Amplifier, Model CM-1**, an optional accessory for Sennheiser 804/805 series condenser microphones has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. It provides the CP-16 camera system with an additional condenser microphone capability without requiring the use of the Model 6C Crystasound Auxiliary Mixer. When the pre-amplifier unit is plugged in, the CP-16 Crystasound built-in amplifier will continue to accept two low impedance microphones and one line input as well as one Sennheiser 804/805 series condenser microphone with all systems controlling the Crystasound built-in amplifier remaining fully operational. Power is supplied by the same NC-4 nicad battery pack powering the entire CP-16 reflex and non-reflex camera system. The CM-1 can be easily mounted or removed from the CP-16 amplifier cover. The CM-1 is priced at \$175. A dovetail pre-amplifier camera support is available at a price of \$22.



A new **16-input Robins/Fairchild TV audio console** with three submaster mixing channels and two program mixing/output channels has been announced by Fairchild Sound Equipment Corp., subsidiary of Robins Industries Corp., 75 Austin Blvd., Commack, L.I., NY 11725. Although designed specifically as a television audio production or air console, the new unit, Model 1632, can be used in AM and FM monaural broadcasting. A future-expansion capability is integral to the design with add-on units available to provide as many as 24 or 32 input channels handling up to 128 sources. Model 1632 uses all solid-state IC-op amp electronics on plug-in PC boards for reliable continuous operation and easy servicing. It has an aluminum cabinet to maximize shielding and minimize the possibility of external interference. The base price is \$9,995.

Panamorphic scanning, a process developed to eliminate the cropping of titles and credits in the transfer of wide-screen motion-picture films and other programs to videotape for television viewing, has been announced by Goldmark Communications Corp., One Communications Plaza, Stamford, CT 06904. The new process incorporates a special variable anamorphic lens developed in conjunction with Panavision Inc., a division of Warner Communications Inc. The new lens is used in Goldmark Communications Transcan Div. The division was created to handle the electronic transfer of motion pictures and other

Discover Single System Sound Super-8 Movies with the New Beaulieu "5008S"

For the last 10 years, Super-8 film has been "silent". Without sound, your Super-8 movies were "incomplete".

Today, there is "Ektasound" film, a revolutionary film which provides the means to record sound (directly on the film) as you're filming. You, therefore, can shoot "complete" movies.

With the new Beaulieu movie camera, you will go even further in Super-8. The "5008S" benefits from the advanced technology provided by Beaulieu: an image with a professional touch, and now sound with a high quality level.

Professional Sound Quality

Pop in a new Super-8 sound ("Ektasound") film cartridge. Focus. Then, plug in the mike. That's all the preparation you need. With the Beaulieu "5008S", you're now ready to start filming professional quality Super-8 single system sound movies.

An amplifier is built into the camera which records the sound directly onto the magnetic stripe of your sound film. The camera records high fidelity sound, both in treble as well as bass (*frequency response*: 50-12,000 Hz \pm 1.5 dB; *distortion*: less than 0.75%; *signal-to-noise ratio*: 57 dB; *wow and flutter*, attenuated peak: less than 0.4%).

The "5008S" modulates the single system sound recording automatically. However, there is also a "manual" setting so that you can modulate the sound as you are filming (by using the VU meter).

"XL" (Existing Light) Filming Capability

The "5008S" has "XL" (Existing Light) filming capability which is provided by: a *super-fast* lens (f1.2, 6-80mm Angenieux zoom), a longer exposure time for the image (1/40 second), and a through-the-lens metering system that sends 100% of the available light to the film.

Since many of your sound movies will be filmed indoors, this feature will enable you to shoot films in the available light of your scene (whether that "light" is bright or not).

From the "Widest" Wide Angle Shot . . . To the "Closest" Close-Up

For the lens, Beaulieu turned to the professional and technical "know how" of Angenieux (which supplies NASA for all their space missions).

Angenieux succeeded in creating a new zoom lens that covers all the focal lengths from 6-80mm (a 13.3 to 1 zoom ratio).

Imagine such a lens in 35mm still photography. It would go from a 35mm wide angle to a 500mm tele.

In addition, the lens opens to f1.2 (an *unprecedented feature* on a zoom lens with such a wide focal length range).

New Dolly Shot Style

The power zoom of the Beaulieu "5008S" is continuously variable. You can travel the full focal length range in 4 seconds, or 12 seconds (*or any speed in between*).

Macrocinematography – Without Touching the Subject

To film macrocinematography with the "5008S", just zoom to 80mm and focus. At the minimum focusing distance of 2 feet, 8 inches, you get all the light available since the lens doesn't actually touch the subject. For example, at this distance, a postage stamp

(1½" x 1-1/5" in size) completely fills the viewfinder (and consequently, the screen—when projecting).

Forget the Exposure

With the "5008S", you can concentrate totally on framing and sound recording. The diaphragm operates automatically and stops instantly at the right aperture. (This feature has "Manual Override".)

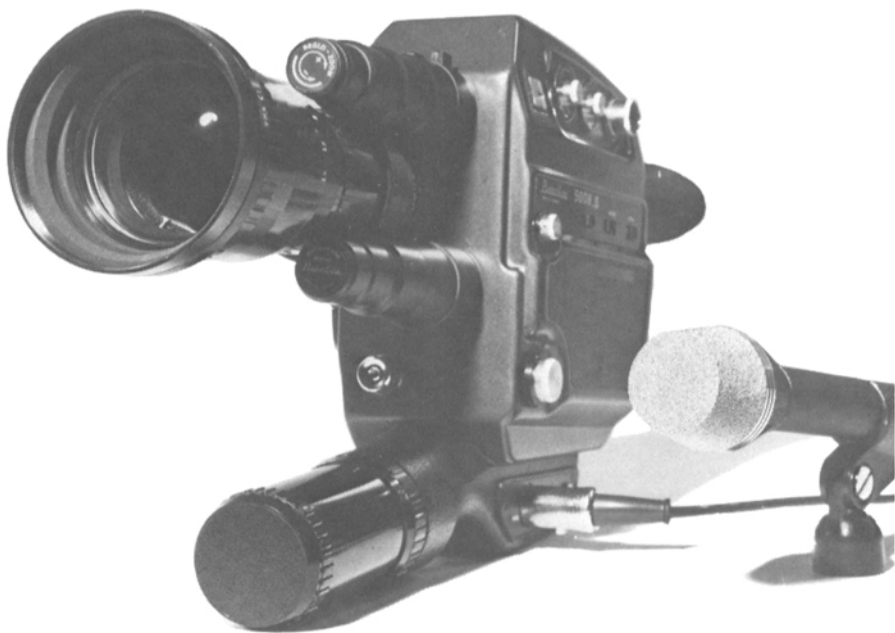
Lens Interchangeability

The "5008S" is the only single system sound camera with an interchangeable lens. It accepts 35mm still photography lenses (by means of an adapter), as well as all 16mm "C" mount lenses.

The choice is yours. You can interchange an unlimited amount of different lenses in order to create a certain "feeling" or effect in your films.

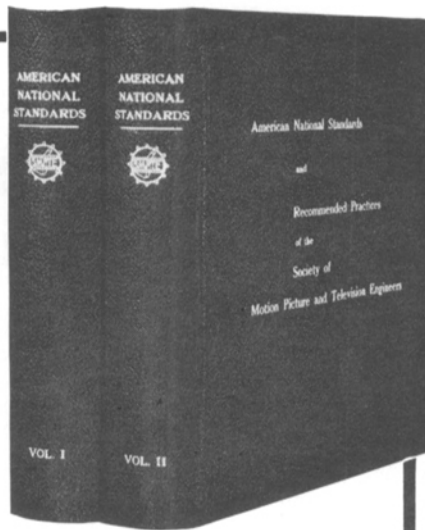
For full information on the new Beaulieu "5008S" Super-8 Single System Sound Camera, please write to:

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The Beaulieu "5008S" Sound Movie Camera

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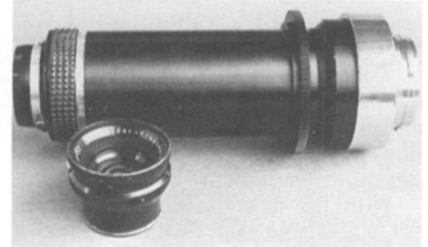
Order these high-quality, durable leatherette ring binders, from SMPTE Headquarters. Available in 1 and 1½-inch sizes. Price including mail charge: \$7.50 each, North American Continent; \$8.00 each, elsewhere.



**Society of Motion Picture
and Television Engineers**

862 Scarsdale Ave., Scarsdale, NY 10583

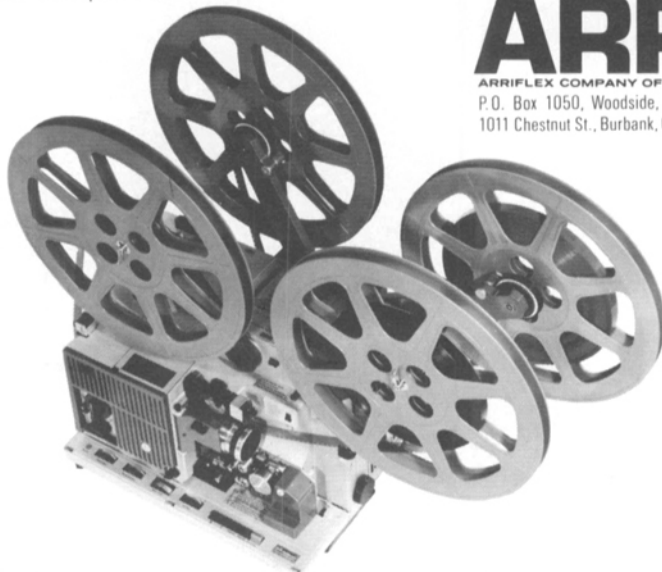
film programs to magnetic videotapes for television viewing (*Journal*, p. 328, Apr. 1974), involving a wide-screen scanning technique developed at Goldmark Communications. The new panamorphic scanning technique is designed to make it possible to accommodate instantaneous variable changes so that titles and credits can be transferred to videotape without any loss of letters.



A fixed lens adapter for Plumbicon cameras has been announced by Comquip Inc., 366 South Maple Ave., Glen Rock, NJ 07452. The adapter permits the use of a wide variety of 35mm motion-picture and single lens reflex lenses for extreme wide angle, macro and special effects shots not possible with zoom lenses. Seventeen different elements are used in the construction of the new adapter. Virtually any available 35mm cine or SLR lens can be used, reportedly with no loss of light or vignetting. The adapter can also use cine and SLR filters as well as prism and special effects lenses. The price of \$1850 includes an adapter for Arriflex mounted lenses. Adapters for a number of other lenses are available as options. Mounts are available for most handheld and studio TV cameras.

You need this special projector!

For single and double-system recording; re-recording; film-to-film transfers; tape-to-film transfers; double-system interlocked previews; quick access projection; scratch track production. And for dozens of other special purposes that only the Sonorex 16/16 Interlock Projector can do. Write for complete literature.



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SONOREX® 16/16
INTERLOCK SOUND PROJECTOR



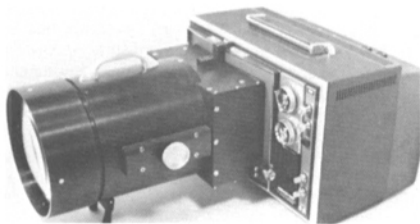
The Naked Disc Memory, Type D-1, a basic transport mechanism with one or two 12- or 14-in nickel-cobalt plated magnetic discs and appropriate fixed or stepped record/playback heads, has been announced by Davis-Smith Corp., 2785 Kurtz St., San Diego, CA 92110. When "clothed" with electronics and power the D-1 can solve complex mechanical and magnetic recording problems associated with high frequency/high density recording leaving the user free to configure the machine and optimize electronics for his application. Prices for the Naked Disc Memory range from about \$3,760 to \$4,610.

The AVA showcase, a combination projector-carrying case and desktop viewer, has been announced by AVACO, P.O. Box 45, Winnetka, IL 60093. The case is presently made to fit the LaBelle Tutor front-screen projector but it can be adapted to other front-screen projectors. Designed mainly for desktop viewing, the projector can be removed from the case to

project images on a wall screen. The inventor, Robert L. Shoemaker, has been granted U.S. Patent No. 3,807,848 covering the device. The AVAshowcase is priced at \$69.50 with discounts for larger quantities.

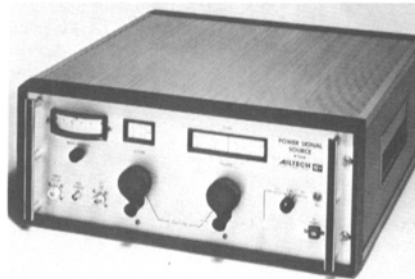


An optoelectronics television linkage, Type OTVL 414, designed to relay television programs including vision, sound and bi-directional speech over distances of up to 60 m using modulated infrared radiation of 900 nm wavelength, has been announced by Levers-Rich Equipment Ltd., 319 Trinity Rd., Wandsworth, London SW18, England. The linkage has been installed at HMS Mercury, the British Navy's training school at Hants. Training films can be transmitted from the closed-circuit control room to a classroom. The equipment was designed, primarily, to transmit data or television programs across obstacles such as roads or waterways when the installation of a cable would be expensive or impossible. Price of the OTVL 414 including the transmitter and receiver is about £ 1,500.



A lens system designed to enable a 12- or 13-in color TV set to project a color picture on a 4- by 6-ft screen has been announced by Shannon Communications, 486 Broadway, New York, NY 10013. The system consists of a converter that can be attached to a standard television set. Its main parts are an optical accessory that can be mounted over the front face of the set and an inverting switch to be connected to the vertical deflection circuit of the set. The optical accessory includes a housing that masks the face of the cathode-ray display tube. The housing contains a high-speed objective consisting of a field flattener lens located adjacent to the outwardly curved face of the cathode-ray tube and serving optically to flatten the curved field on the cathode-ray screen together with a movable lens for pro-

jecting the flattened image field onto a remote screen. The inverting switch, when activated causes the image to be inverted and to be reversed so that the projected image on the screen will be properly placed. The system can be detached from the TV set to permit normal viewing. The price of the Shannon system is about \$1,000.



The Ailtech 126A, a power oscillator covering all S- and C-bands (2000 to 8000 MHz) in a single range has been announced by Ailtech, 19535 E. Walnut Dr., City of Industry, CA 91748. At 3000 MHz the instrument is capable of delivering up to 10-W CW. The spectrally pure signals can be adjusted up to 60 dB below maximum output over most of the frequency range. Features include a direct reading frequency dial. A coupling control is provided to optimize power transfer to loads having VSWR of the order of 2-1. The instrument is priced at \$5750.

The Vivek solid-state voltage regulator designed to provide a regulated voltage to enlargers used for black-and-white and color

printing has been announced by Viva-Tech, Inc., 277 North Goodman St., Rochester, NY 14607. Designed to eliminate electrical power fluctuations, its 750-W capacity and ac output permits use with most printing light sources. The unit measures 5½ by 3 by 1¾ in and weighs 14 oz. The price is \$119.95.



Kodak Ektanar C still-projection lenses designed to provide maximum edge-to-edge sharpness with cardboard- and thin-plastic-mounted slides have been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The "C" identifies a new curved-field lens design. The lenses are designed so that the curvature of the lens field closely approximates the slight natural curvature of the mounted film making possible sharp focus on the entire picture area from center to corners. To produce the design optical engineers measured the amount of curvature on thousands of slides from various film manufacturers in many types of mounts. The lenses were then designed to match the average curvature. The lens barrel is made of high-impact Cyclocac, a material used to make professional football helmets, to make the lens assembly resistant to chipping, cracking or breaking. Three of the Ektanar C lenses are available; the 102mm f/2.8 (4 in) and the 127mm f/2.8 (5 in) priced at \$17.50 each and the zoom lens, 102mm to 152mm f/3.5 priced at \$47.50.

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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ARRIVOX-TANDBERG
PROFESSIONAL 1/4" TAPE RECORDER

How To Make Your Super 8 Equipment Run Properly.

If proper presentation of your Super 8 films is important to you, then your equipment must be in perfect condition. To learn how well your Super 8 system performs, you'll need an SMPTE Test Film.

There are two basic types of test film. The first, for projection performance — picture only, is the **SMPTE 8mm Registration Test Film** (50 or 100 ft). This film has no sound track. Its purpose is to measure and help you adjust the optical and mechanical performance of your projection equipment. The patterns are designed to measure and adjust aperture size and position, jump, weave, travel ghost, lens focus, and film buckling.

The second type is for Super 8 Magnetic Sound. There are four all together, each of which was recorded on full-coat magnetic stock with a Super 8mm, .1667-in pitch, and contains a 24-mil record in the edge track position.

The four films now available are:

1. **Azimuth Alignment Test Film** (50 ft) which is used to align the azimuth position of the recording and reproducing heads on magnetic sound equipment.
2. **Flutter Test Film** (50 ft) to measure flutter introduced by sound reproducers, contains an original recording with extremely low flutter content.
3. **Signal Level Test Film** (50 ft) helps measure and balance the power level output from motion picture sound reproducers. The recorded level does not in itself indicate a program level, but provides a reproducible reference from which a recommended program level can be determined.
4. **Multifrequency Test Film** (100 ft) is used for testing and adjusting motion picture sound reproducers and projectors. It is calibrated, and correction factors are supplied with each film.

For further information, please mail the coupon immediately.

SMPTE Test Films

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<input type="checkbox"/> Multifrequency	<input type="checkbox"/> Signal Level
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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/3φ. \$3,000. Fish poles, Ampex and Altec Studio monitors, amps. Console "Op Amp kits." Don Walton, P.O.B. 6685, Fort Myers, FL 33901. List of complete inventory available.



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Positions Wanted

Soundman/Technician. Experienced soundman with Nagra, Sennheiser, EV, etc. Seeks assignments on free-lance basis. Will travel. Call Dave Barnett, (314) 994-9023.

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.

Television Engineer. 26 years of broadcast and CCTV experience. Monochrome and color video systems design, including audio. Live, film, tape (1/2-in, 1-in, 2-in) maintenance. MATV, CATV systems design. First phone. Resume upon request. Call or write Warren G. Smith, 683 Lotus Ave., Oradell, NJ 07649. (201) 261-5291.

Photographic Chemist. RIT BS Photographic Science. 9 years, experience in photochemical systems. Seeking supervisory position. Will relocate. Current salary in mid teens. Reply to: 11 E. Lakeshore Dr., Apt #9, Cincinnati, OH 45237, or call (513) 821-2019 evenings.

Film and Tape Production. Proven creative, administrative, and technical skills. Reduced production costs for major advertisers as much as 30% retaining creativeness and quality. Prefer corporation or ad agency production department. Please write or call Whit Davis, 3617 Bellfield Way, Studio City, CA (213) 656-7862.

Audio Visual Specialist. 25 years experience in development and maintenance of all types of film handling, projection and recording equipment. Have done Kinescope, tape, and sound recording. Also sound stripping, and editing. Familiar with video systems, audio-visual equipment, and special applications. Call or write: William Moenter, 687 Pine Lake Dr., Westwood, NJ 07675 (201) 664-8806.

Positions Available

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. LaFace, 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 coordination 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 records, 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.

College Laboratory Technician "A". Maintenance and Operation of Television Equipment. Must be able to repair 1/2-in and 1-in videotape recorders, television cameras, video production equipment, audio systems and related audiovisual hardware. Requirements: High School, graduate of an electronic school, and two or more years of employment in the field. Salary: \$12,200 yearly, plus liberal benefits. Send resume to: Dr. Posner, C.E.E.D., City College of New York, 138th St. and Convent Ave., New York, NY 10031. (212) 612-7293

Equipment Salesman. Professional motion-picture equipment. Should be familiar with all types of motion-picture equipment. Excellent opportunity for young, aggressive man. Salary is commensurate with experience and ability. Please send complete resume to Birns & Sawyer, Inc., 1026 North Highland Ave., Los Angeles, CA 90038, Attn: Mr. Marvin Stern.

Technical Sales Representative. Motion-Picture Products. Solid technical background in motion-picture laboratory and sound recording field is required for this challenging position in our Chicago regional distribution center. The sales territory covers 11 Midwestern states. For further information about this stimulating position, send resume and salary history to Mr. Raymond A. Eynard, Manager, Midwest Region, Motion-Picture Products, Agfa-Gevaert, Inc., 275 North St., Teterboro, NJ 07608.