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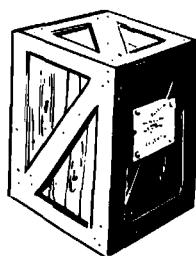
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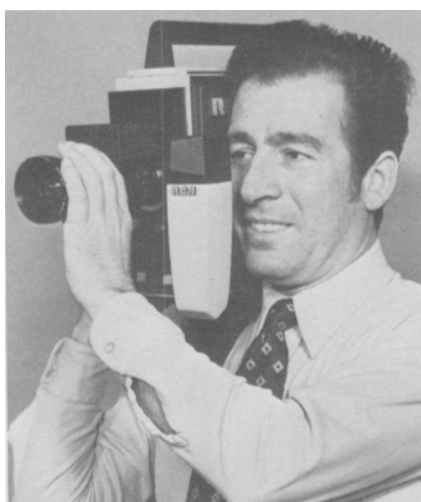
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new products

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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 **TK-76**, a portable color TV camera weighing less than 30 lb including the camera head, electronic viewfinder, 10:1 zoom lens and power pack, has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. Designed specifically for newsgathering and related applications, no electronic skills are required to operate the camera, making possible its use by nontechnical persons. The camera uses three 7/8-in pick-up tubes which, together with the prism and taking lens, are rigidly mounted as a unit. The assembly is shock-mounted to improve mechanical stability and reduce the main cause of registration drift.

The camera is completely self-contained, except for the power pack. An external camera control unit is not required. The encoder and sync generator are built in and full raster color bar signals are also provided to aid setup. Automatic color balance is achieved by viewing a white or near-white object in the scene and pressing a button. Automatic iris control is provided but can be bypassed if desired. Video level indication is provided in the viewfinder. The camera uses a 16mm cine lens with an Arriflex-type mount. The lens has a servo iris drive and macro capability. The power pack weighs 10 lb including the batteries. Either nickel cadmium batteries providing 45 min of operation or silver zinc batteries which can operate the system for two hours may be used. The camera may be operated from an external 12-V source, such as an automobile or motorcycle battery. The price

of the TK-76 is about \$30,000 including the tubes and the 10:1 zoom lens.



The **CEI-285**, a color TV camera featuring a convenient tiltable 7-in viewfinder has been announced by CEI, 880 Maude Ave., Mountain View, CA 94043. The viewfinder has a flat screen to provide a large viewing area and to eliminate distortion. It can be easily removed for plug-in benchtop maintenance. The camera has a high signal-to-noise ratio, 600 lines luminance resolution and accurate color rendition resulting from the use of three Plumbicons combined with a special beam-splitting system, the announcement stated. There is a wide selection of zoom lenses - 10:1, 15:1 or 30:1. The system includes a compact camera control unit and two operating control panel configurations enabling a variety of installations. The local panel is a 3 1/2-in-high unit for standard rack mounting. The remote configuration is a 7-in-high, half-rack unit which can be desk-top mounted in a production control room. Features include a "joy stick" iris/pedestal control for operator convenience. Prices begin at \$39,000.



The **TR-1000**, a portable recorder weighing less than 30 lb including the battery and the KCS-20 U-matic tape cartridge, has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. The recorder is packaged in a case measuring about 7 by 13 by 13 1/2 in. Power is supplied by an internal, rechargeable, replaceable battery or from other 12-V dc sources (auto, etc.) or from ac power through the ac color adapter. The ac color adapter also includes the color playback electronics. Start/Stop operation can be controlled by a switch on the camera. The recorder provides NTSC Type color signals and a stop motion is provided by engaging the pause control. Tape cartridges may be played back on any standard U-matic type machine. AGC is provided for both audio and video signals and two audio channels are standard. The TR-1000 is equipped with broadcast type input connectors, external capstan reference for playback, audio/video level indicators and an external subcarrier input. The price is \$3,500.

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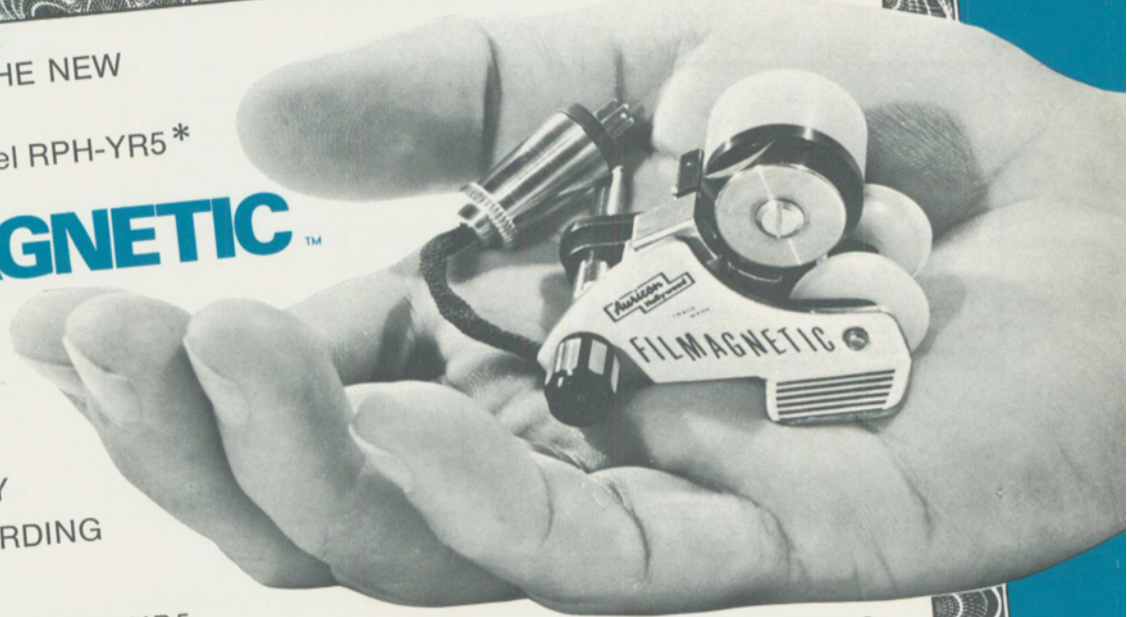
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The TRP-1000, a color videocassette recorder/reproducer with video and audio editing facilities, has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. Mode controls are of the touch-sensitive type and are located on the front operations panel. Editing and setup controls are located behind a cover panel on the front of the unit. The two audio channels and video may be edited independently or simultaneously in either the insert or add-on modes as desired. The unit is designed to accept the full range of U-matic cassettes of the KCA or KCS series. The price is \$6,500.

The TBC-1000 Time Base Corrector, reported to improve signal instabilities normally associated with helical-scan recorders, has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. It has a wide window that handles signals from low-cost VTRs including battery-operated units. The A-to-D converter design is said to provide excellent signal-to-noise and differential phase and gain performance. A bi-polar memory design eliminates the need for multiplexing. Front panel controls and automatic circuits provide for operating flexibility and ease of use. The TBC-1000 is priced at \$12,500.



An automated broadcast videotape system designed for both commercial spot announcements and full-length program recording has been announced by International Video Corp., 990 Almanor Ave., Sunnyvale, CA 94086. Designated the PBR (Programmed Broadcast Recorder) the system is available in 6 and 12 VTR configurations with each VTR providing one-hour of playing time. The VTRs are integrated with an easily operated automatic programmer so that spot announcements as brief as 3 s as well as 1 h programs can be randomly or sequentially selected. Up to 12 separate events can be programmed. Head life on the recorders in PBR is said to extend to a minimum of 1000 h with head wear distributed over 6 to 12 transports. The broadcast transports utilize IVC-825 and IVC-870 1-in videotape recorders combined with IVC's TBC-2000 digital signal processor. A 6-deck system contains two IVC-870 VTRs permitting assemble and insert editing. Tapes recorded on PBR systems can be played back on any IVC format recorder including IVC-960 broadcast recorders. Each system has record capability permitting network delay recording while playing back spots or full-length programming. The PBR/6 is priced at \$109,000 and the PBR/12 at \$145,650.

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Image Quality

A Comparison of Photographic and Television Systems

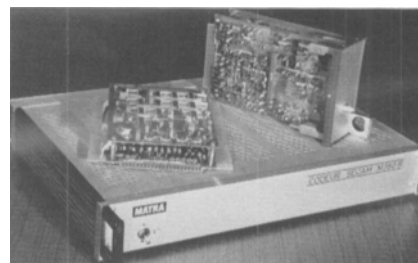
by
Otto H. Schade

This volume presents a technical overview of the relationships among the various parameters that determine the quality of photographic and television images. Included are 54 high-quality reproductions of images that enable the reader to see for himself the effects of such factors as noise, bandwidth limitations, line number, pickup characteristics, lens characteristics, grain, and film speed. (84 pages, 72 illus., 12 x 9 inches, hard covers)

The author, a pioneer in television imaging, has been active in the field for more than 35 years. Among his numerous awards and honors, one of the first was the Modern Pioneers Award of the National Association of Manufacturers (1940); the most recent was a special award by the Society for Information Display (1975).

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Second generation encoding equipment for SECAM color TV has been developed in France by Matra and is available in the United States from Intersecam, 800 Welch Rd., Suite 354, Palo Alto, CA 94304. Three configurations of the same basic SECAM generating circuit are available. The M38OR is a 19-in rack mount, self-contained SECAM encoder accepting standard RGB or Y, RGB camera signals, and a composite sync signal all at 75 Ω. The output is two separate 1 V composite SECAM signals in to 75 Ω. Model M380 consists of two plug-in circuit boards for installation in various color cameras such as the IVC, Philips or Fernseh. Model T06A is designed specifically for the ORTF and interfaces with their standard equipment. Prices for the encoders range from \$3,000 to \$4,000 depending upon the configuration.

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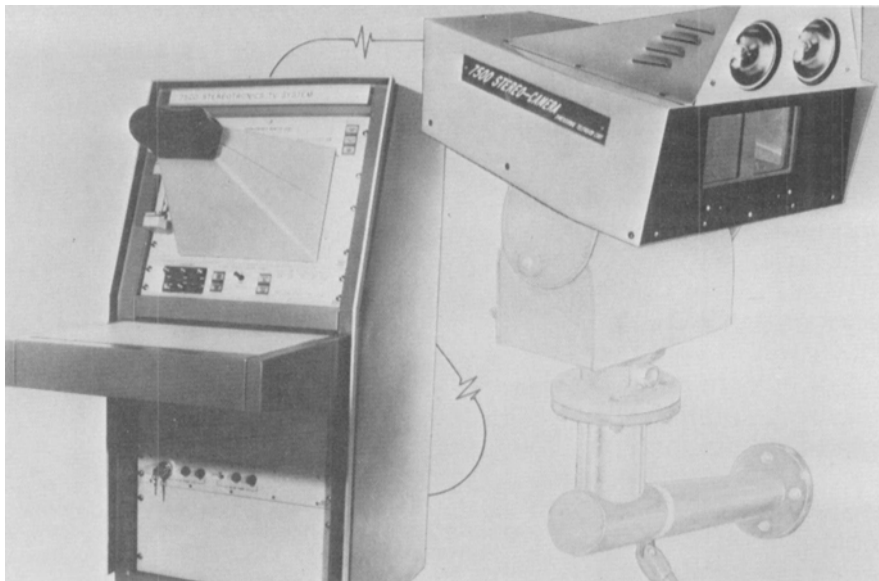
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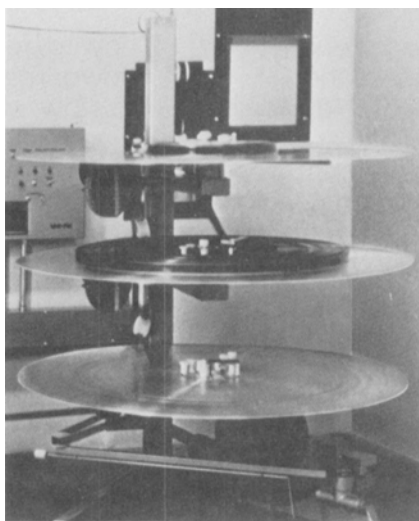
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Stereotronics System Model 7500C intended for use in remote manipulation of atomic materials, remote driving of vehicles and observation in 3D of inaccessible and dangerous locations, has been announced by Dimensional Television Corp., 13720 Riverside Dr., Sherman Oaks, CA 91423. The system consists of a stereo TV camera and a stereo TV display console. The camera is an integral package which includes a color TV camera with a Stereo-Captor, zoom lens, light source and a pan and tilt provision. The display console consists of a videotape recorder, microphone, controls and a color TV monitor with a Stereo-Hood for individual 3D viewing.

The stereo TV camera picks up a three-dimensional color picture of the scene and

transmits it to the console. (An optional 2D surveillance camera is available for wide-angle two-dimensional views of the scene.) At the console the monitor can be selected to display either a 3D or a 2D picture. The videotape recorder can record and play back either the 3D or 2D picture. The console controls operate the Stereo-Captor, zoom lens and pan and tilt movements. Additional stereo TV monitors are available for group viewing. Model 7500C is priced at \$18,625. Options available include black-and-white or high resolution and special stereo cameras for close-up or distant work, or for use in hostile environments such as underwater, in space, or in radioactive locations.

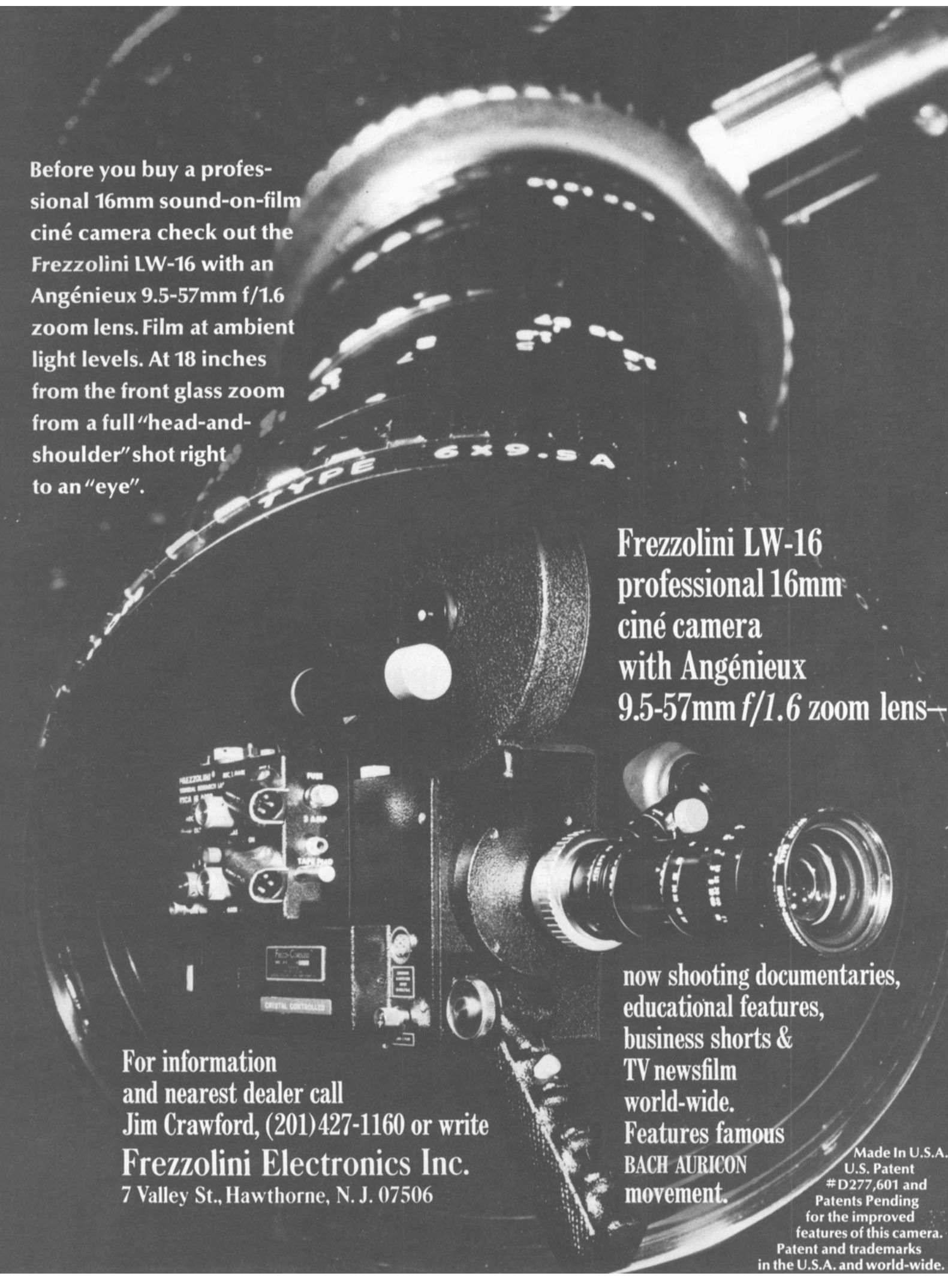


The Simplex Aero Matic (SAM), an air-powered platter 35mm film transport system holding up to five hours of film to feed a motion-picture theater projector, has been developed by National Theatre Supply, 411 Sette Dr., Paramus, NJ 07652. Because it is air-powered, the system uses no complex motors, sensing devices, gears or electronic components. Heart of the SAM is a small, powerful air-moving device called the Rotron Cyclonair® produced by Rotron Inc., Woodstock, NY 12498. It consists of a special blower/pump which is fitted at the base of the SAM unit.

Fitted at the base of the SAM unit, the Cyclonair generates air pressures up to 63 in of H₂O through the platter frame to drive special units that in turn power one, two or all three of the 53-in diameter aluminum platters used to hold or store up to five hours of non-stop film programming. The movement of the platters helps feed the film through a series of special nylon rollers to the projector. After projection the film is fed back onto a platter on the SAM unit where it is automatically re-wound. An on/off switch activates the one motor in the system, that is the motor that is integral with the Cyclonair blower pump.

The entire film transport system operates by air propulsion which eliminates the danger of film tension becoming too great. In operation the Cyclonair utilizes the principle of centrifugal force which, acting through a limited area at the outside of an enclosed ring (where the force is greatest), accelerates a unit amount of air outward toward the housing where it is reflected back along the sides of the housing toward the vane root from which it started. As the air re-enters the blade root area, centrifugal force again hurls or accelerates it outward where it is again reflected back along the sides of the housing toward the vane root with still greater pressure. The process keeps repeating itself as each "pocket" of air between two vanes is recycled and its pressure "regenerated" many times during one complete revolution of the impeller wheel. The effect can be compared to the pressure buildup in a multistage blower where each stage generates additional pressure.

Price of the SAM system is \$4,293.



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The Sync Module designed for camera testing and for special effects photography has been announced by National Camera, Inc., 2000 West Union Ave., Englewood, CO 80110. When connected to a camera and flash unit the device can be used to check and measure flash-synchronization interval, shutter speeds and curtain travel time. The modules are stackable and programmable. A number of the modules can be "chained" in sequence with the first triggered by the camera contacts, a switch or photoelectric system, which in turn triggers the second, the second triggers the third and so on. In this manner a sequence of flashes at equal or varying intervals up to 50 ms can be created to achieve unusual photographic effects. The unit uses a 9-V transistor radio battery. When connected between a camera and an electronic flash unit it introduces a delay between the closure of the camera's flash contacts and the firing of the flash unit. The delay is adjustable by a single control from 0 ms to 50 ms. The module is priced at \$48.50. Units with maximum delay times of 5 ms or 500 ms are also available.

A studio fader designed to provide extremely sensitive control for the mixing of sounds in recording studios has been announced by Penny & Giles Conductive Plastics Ltd., Newbridge Road Industrial Estate, Pontllanfraith, Blackwood, Gwent, South Wales NP2 2YD. The fader is designed to provide stepless voltage variation at the re-mix stage of music recording so that multiple sounds can be blended as smoothly as possible. A sliding

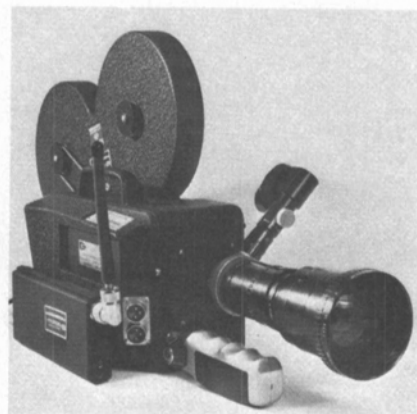
block, moved by a light finger pressure on a knob, carries wiping contacts for picking off the voltage from a conductive plastics track housed in a shallow casing. The voltage, the electrical equivalent of the sound signal, relates directly to the knob position as indicated on a calibrated scale.

Because of the smooth wiping provided by the conductive plastics track, the fader offers the recording engineer both a light "feel" that permits extremely sensitive use and the facility of infinite resolution so that the sound can be attenuated in a stepless manner. The fader has a flat frequency response and has a long life expectancy. No lubrication is required for the slider block, molded in acetal resin, which moves on two stainless-steel guide rods. Prices for the standard faders range from about \$58 to \$350 each in quantities of 500. (The Penny & Giles faders received a 1975 Design Council Award (Engineering Products and Components). These awards are presented annually in the United Kingdom.)

The UREI Model 964 Digital Metronome used for pre or post music scoring for motion pictures and television has been announced by UREI, 11922 Valerio St., North Hollywood, CA 91605. It combines LSI circuitry with crystal clock precision to produce accurate tempos of from one frame per beat to 40 frames per beat in $\frac{1}{8}$ frame steps. It is operated by either front panel buttons or an external sync start signal. A self-contained amplifier for headsets is included. The price is about \$500.



The Crystaslate modification package for CP-16R reflex cameras providing auto-slate edge marking, a bloop tone signal and a sync pulse output signal (60 or 50 Hz sine wave) has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The modification must be ordered at the same time the CP-16R is ordered. It is intended especially for use with Nagra 3 and 4 recorders and similar professional tape recorders. The Crystaslate package is priced at \$650.



The Swintek Hitchhiker, a cordless microphone system, the receiver of which may ride on the side of most professional single-system cameras, has been announced by Alan Gordon Enterprises Inc., 1430 Cahuenga Blvd., Hollywood, CA 90028. In common with the Swintek Mark III and Mark IV microphones the Hitchhiker incorporates a highband VHF crystal-controlled transmitter and a crystal front end receiver. Other receivers as close as 50 kc in frequency can be operated in the vicinity without co-channel interference. The Hitchhiker can be mounted on such cameras as the CP-16/A, General and Frezzolini; its receiver may also be attached to a Nagra recorder or MA-11 amplifier adding only $\frac{3}{4}$ in in width and $1\frac{1}{2}$ oz in weight. The Hitchhiker is available in three models, the Mark VI which has a Mark 16 transmitter and a single microphone input and is priced at \$990; the Mark VII-50 which has a Mark 50 transmitter with two microphone inputs - one for any dynamic microphone and one with ghost power for any condenser microphone that can operate with a power pack for the transmitter battery (providing the power required does not exceed 9 V) and is priced at \$1085; and the Mark VII-50XL which is identical with the Mark VII-50, except for the addition of a crystal front end receiver, and is priced at \$1,250.

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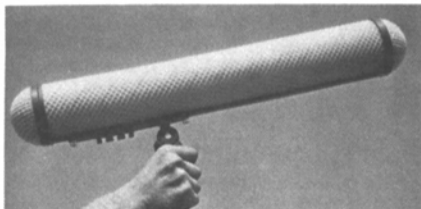
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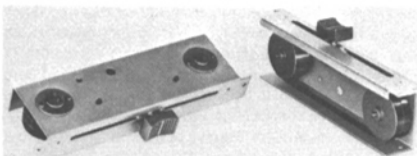
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The SM62 unidirectional dynamic microphone has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. The microphone, designed especially for broadcast applications where an inconspicuous microphone with professional quality performance is needed, has a flat, uncolored response, a uniform cardioid pickup pattern and minimized feedback. It is less than 5 in (124 mm) long. Other features include a "pop" filter to suppress wind noise and explosive breath sounds, and internal shock isolation to keep noise caused by unstable stands, stages and podiums from reaching the microphone. The SM62 is priced at \$84.

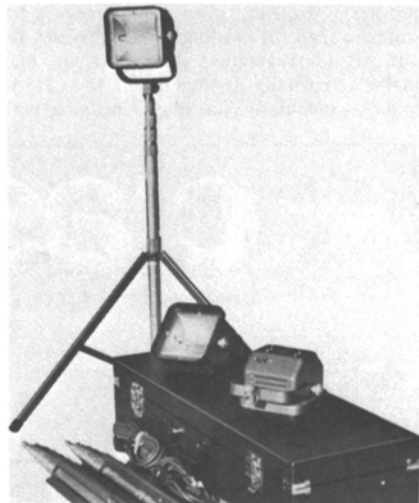


The new Zeppelin Wind Screen for Sennheiser 815, 415, 435 and other similar microphones is available exclusively from Alan Gordon Enterprises, 5362 North Cahuenga Blvd., North Hollywood, CA 91601, according to a recent announcement. The Zeppelin has an aerodynamic design that forces wind to flow around it while creating a dead-air space around the microphone. Because of its construction sound can penetrate the screen but air cannot. The wind screen has an outer lattice of polyethylene, a high-density plastic. The inner material is foam sandwiched between layers of laminated nylon. The outer framework is made of PVC (polyvinyl chloride) a semi-rigid, high-impact plastic. The 815 model (for Sennheiser 815 microphones) weighs about 8 oz, is about 30 in long and is priced at \$100. The Model 415 (for the 415, 435 and similar microphones) weighs about 6 oz, is about 15 in long and is priced at \$85.



The Rotary-Slider attenuator, Model RS1000, has been announced by Robins/Fairchild, 75 Austin Blvd., Commack, NY 11725. The device, containing two sealed rotary resistive elements driven by a common slide mechanism, is said to function equally well for either monaural or stereo applications. Capabilities include uniform attenuation and close track-

ing between stereo channels. The mechanical design of the working mechanism is simplified and rugged. The RS1000 is priced at \$30, with a cue switch the price is \$35. An optional Escutcheon panel is priced at \$12.



The Cat-Kit location lighting kit has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The kit weighs 17 lb 8 oz and contains three non-focusing fill lights (miniature broads); three 10-ft 3-wire cables with in-line switches and parallel blade U-ground plugs; three "POP" light stands made of aluminum; and a carrying case measuring 5 3/4 by 9 1/2 by 27 in. The Cat-Kit operates at 120 V ac/dc with 650-W double-ended quartz lamps. The price is \$275.



A new 5.7mm, f/1.8, super-wide-angle lens for Arriflex 16 has been announced by Century Precision Optics, 10661 Burbank Blvd., North Hollywood, CA 91601. Previously available only in "C" or Bolex Rex mount, it is now also available for Eclair and CP-16R bayonet mount cameras. The lens is 2 in in diameter and weighs 7 oz. The angle of view is 100° and the full 16mm format is covered with a reported distortion at the edges of less than 30%. The optical resolution is 200 lines/mm and the unit is color corrected. Optical surfaces are anti-reflection coated for maximum light transmission and color saturation. At f/4 objects from 2 ft to infinity are in focus. The lens can be used for filming sports, race cars and other situations requiring wide coverage. The price is \$575.

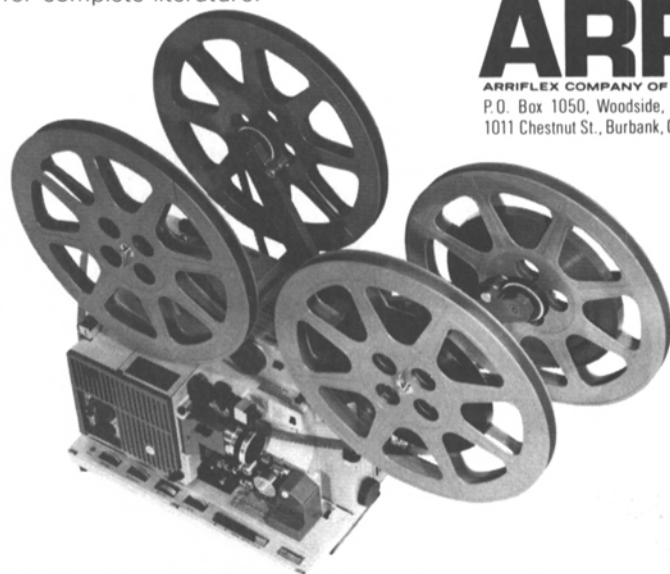
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If you are not now regularly receiving the SMPTE Journal, participating in the Society's local Section meetings, attending SMPTE's technical conferences and equipment exhibits, and not keeping up on the technology and developments of our industry, now is the time to join this world-renowned Society.



Write for information:
Society of Motion Picture and Television Engineers


862 Scarsdale Ave.,
Scarsdale, N.Y. 10583
914-472-6606

Head Cleaning Cassette and a self-thread videotape reel compatible with a Sony portable Rover recorder have been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. The new shipping/storage case has strengthened edges and hinging elements to provide a stronger, more protective case for shipping than the existing model. An easy-to-operate double-action positive slide lock makes it virtually impossible for the case to unlock accidentally. The case is available with

videocassettes at no additional cost. If purchased as a separate item the price is \$3.58.

The head cleaning cassette has a pre-recorded color-bar signal that indicates when the tape has finished its job. The cassettes, containing 5 min of pre-recorded cleaning tape are for 3/4-in U-matic machines. Price of the cassette is \$25.75.

The self-thread reel comes loaded with Scotch No. 361 Low Noise Videotape. The price is \$15.95.



classified

Rates: First 3 lines \$10.00; each additional line \$2.00

Employment Service

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 Available

Audio Visual Engineer/Technician. Degree not as important as experience with TV, audio and low voltage controls. We design, fabricate and install custom AV facilities and systems including front and rear projection, remote controls etc. for board rooms, training rooms, auditoriums etc. Send resume and salary requirements to A.V.C. 6875 E. Evans, Denver, CO. 80222.

Rental, Sales, Service, Development Departments. Image Devices, Inc. is expanding and needs several energetic teamworkers with background knowledge, organizational attitude and experience. Contact David Haylock at Image Devices, Inc., 811 N.W. 111 St., Miami, FL 33168 (305) 751-1818

Video Engineer/Technician. Highly skilled and motivated individual to become a key figure in the operation of a brand new and growing medical videotape production center. Must be thoroughly acquainted with maintenance, operation, and repair procedures for full range of video production items, from half-inch portable to broadcast 2-inch VTR's, color cameras, electronic editing systems, mobile van and studio systems, etc. Good pay, extensive fringe benefits, and the security of a Federal career position in a desirable work and living setting in California. Employment available as soon as applicant can complete necessary procedures. Send resume to Richard J. Metzner, M.D., Chief, Audiovisual Education System (530/152D) Veterans Administration Hospital Brentwood, Wilshire and Sawtelle Blvds., Los Angeles, CA 90073.

ENGINEERS

Degreed Engineers with experience in color TV design. Client is top company.

Mgr. Mech Eng. To \$35K
Mech Eng. Staff To \$30K
Sr. EE. Deft/PS Dec. To \$30K
Deft/Yoke Dec. To \$30K
Mgr. Ferrite Materials To \$35K
Staff Engr Ferrites To \$30K

Important—Send resume with sal info to H. A. Breisford, MBH Assoc., 1616 Walnut St., Phila., Pa. 19103

Film Production Teacher. Several years of pertinent professional experience required. TV studio experience desirable. Bachelor's degree necessary, advanced degree preferred. Position requires emphasis on visualization of ideas and editing. Faculty rank and compensation dependent upon professional and teaching experience. Telephone (716) 464-2720 or

write Professor William S. Shoemaker, Director, School of Photographic Arts and Sciences, Rochester Institute of Technology, One Lomb Memorial Dr., Rochester, NY 14623. Position available Sept. 1, 1975. July 1, 1975, employment date possible. Institute is an equal opportunity employer.

Television Circuit Designer. Thomson-CSF Laboratories, manufacturer of television broadcast equipment has an immediate opening for a senior level Electrical Engineer experienced in the design of color television cameras or related broadcast equipment. Strong capability in circuit design and B.E.E. degree are required. Entry level position also available. Send resume to Thomas Schwartz, Director of Personnel, Thomson-CSF Labs, 37 Brownhouse Rd., Stamford, CT. 06902, Phone No. (203) 327-7700.

Positions Wanted

Motion Picture Soundman, Freelance. Desires additional work. 16/35mm and videotape experience. Excellent references. George J. Kereji, 433 Berwyn, Dearborn Hts, MI 48127 (313) 274-1476.

Audio Systems and Networks. Young, energetic engineer seeks employment in broadcasting field. BSEE, first phone, and advanced ham. motion picture proj. license pending. Experience includes range of audio and video servicing and application. Please reply to: Bob Gilmartin, 686 Garth Ct., Yorktown, Hgts., NY 10598.

Film or TV Production Position. Sought by energetic, youthful (27) graduate of Northwestern University's Radio-TV-Film production program. Will take position as cameraman, sound recordist, etc. 5 years experience in sound recording. Currently employed. Please reply to PO Box 54, New York, NY 10014 or call (212) 837-7542.

Major Hollywood Studio Audio and Re-recording Engineer. 20 years of experience in all phases of motion-picture sound work including optical and magnetic recording. Working knowledge of both RCA and Magna-Tech ADR Systems. Extensive background as a re-recording mixer. Experienced in design and operation of multi theater re-recording facilities at a leadership level. Have constructed commercial AM broadcast stations to 10-Kw in power with 6-tower directional antennas. Member of the Academy of Motion Picture Arts and Sciences, and Group One, Y-1, member of Local 695, International Sound Technicians, I.A.T.S.E. Holder of first class radiotelephone license, as well as radiotelegraph license and extra class amateur. Seeking steady employment with a growing organization which offers an opportunity for advancement based on ability and merit. All offers both domestic and foreign will receive careful consideration. All replies to Post Office Box 26, Tarzana, CA 91356, will be acknowledged.