

# 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 MV-100, a television camera using charge-coupled device (CCD) sensors in place of conventional vidicon tubes, has been announced by Fairchild Camera and Instrument Corp., Space and Defense Systems Div., 300 Robbins Lane, Syosset, NY 11791. The camera is extremely small (3½ by 1½ by 2¼ in), weighs 6 oz, has low power consumption (about 1 W) and operates under a wide range of light levels. The camera uses an array of 10,000 photosensors assembled on a standard 24-pin dual-in-line package. CCD sensors are basically bulk silicon that release charge carriers in proportion to the amount of light reflected from the scene. The charge carriers are transferred by a clocking system and transmitted to a television receiver as standard television signals. The camera is the result of CCD technology developed at Fairchild and augmented by work performed for the U.S. Navy with the aim of developing low light level imaging devices.



Accessories include an optical viewfinder, tripod, monitor, pistol grip, a wide range of lenses and a remote package providing battery operation and wireless transmission up to 100 ft. Television receivers must

be slightly modified for use with the MV-100 but videotape recorders need not be changed. The camera can be used for security, surveillance, medical instrumentation and process control among other applications. It is expected to be commercially available by the end of 1973.

The Marconi Mark VIII B television camera, an improved version of the Mark VIII, has been announced by Marconi Communication Systems Ltd., Marconi House, Chelmsford CM1 1PL, England. The improved performance stems from advances made by the company in techniques used in the manufacture of the pickup tube yokes, resulting in improved assemblies which, computer matched for optimum performance, provide the new camera with a registration performance above that of the Mark VIII. Further development has improved the PAL encoder which, in the new camera, provides vertical interval color bars to enable its performance to be monitored at all times.



The BE460 Dual Cue Controller, designed for use with the BE450 Wide Range Synchronizer to provide individual or simultaneous automatic cuing of two videotape or audiotape recorders, has been announced by Electronic Engineering Co. of California (ECCO), 1441 E. Chestnut Ave., Santa Ana, CA 92701. The Wide Range Synchronizer is designed to synchronize automatically two magnetic tapes whether quad or slant-track video or sprocketed or unsprocketed audio. Teamed with the ECCO BE420 Edit Code Reader, it produced exact synchronization or exact front-panel controlled offset of two recorders from any starting point within a 30-s capture range. The new BE460 Dual Cue Controller now replaces the BE420 Edit Code Reader which required manual pre-roll parking of recorders prior to synchronization. The new Dual Cue Controller provides pre-set and automatic location of desired tape parking points. Price of the BE460 is \$4,850.

The AN-DI 802 RAD-C, a high-speed sampled Video Analog-to-Digital Converter developed especially for color TV and fast MTI filter radar applications, has been announced by Micro Consultants Ltd., Interface House, Croydon Rd., Caterham, Surrey CR36QD, England. Designed as a module, the unit incorporates a differential video amplifier, sampler and an 8-bit encoder. The sample-and-hold unit has an aperture uncertainty of 100 ps to allow the color subcarrier and fast pulses to be sampled with complete precision. The aperture time takes into account uncertainties in the sampling process owing to signals of varying amplitude, frequency and mean level as well as sampling jitter.

The input amplifier has been designed to meet color television requirements in respect to differential phase and gain. The differential inputs to the amplifier are both terminated in 50 or 75 Ω and scaled for ± 1 V full scale. A high common mode rejection enables system-generated digital noise to be effectively eliminated. The input amplifier has a sine wave response extending to 20 MHz, a rise time of 20 ns and a full-scale settling time of 50 ns.

In conjunction with a complementary digital-to-analog converter, the new analog-to-digital converter is reported to encode and decode color pictures to studio broadcast quality. The two units form the basis of a number of complete digital video systems suitable for TV broadcast applications. Price of the AN-DI 802 RAD C converter is about \$7500.

A regulated power supply designed to supply regulated voltage to resistive loads has been announced by Lectron Corp., 21839 S. Avalon Blvd., Carson, CA 90745. Overload protection is provided by a circuit breaker. From a nominal 230-V line, regulated output from 100 to 140 V ac is readily available to the load. Features include smooth, surge-free stepless turn-on; variable regulated output, regardless of line voltage fluctuation; and life expectancy in excess of 100 million cycles. The power supply occupies a space of only 100 in<sup>3</sup> and weighs 6 lb. The price is \$275.



The Yoder Crystal 16 camera, a lightweight, all-magnesium 16mm camera using the Auricon Center Plate, has been announced by Gordon Yoder, Inc., P.O. Box 20296, 2840 Reward Lane, Dallas, TX 75220. The camera is driven by a crystal-controlled dc motor using the phase lock loop principle of maintaining speed accurately to ¼ frame for each 400 ft of film. A white light comes on when the camera is started and goes out when the camera is up to speed; it is on when the camera is not running at exactly 24 frames/s. A small red light is on at all times when the camera is running. The magazines use a snap-on lock and either 400-ft or 1200-ft magazines may be used. There are two start and stop switches, one at the rear of the camera and one underneath the front handle.

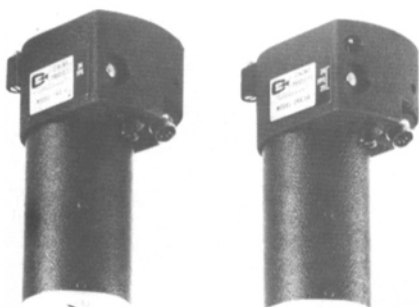
The Yoder Mag Amp is activated by plugging in the earphones, preventing battery drainage in case the amp is accidentally left turned on. The amplifier may be taken out by removing the camera side plate and unplugging the unit. The whole crystal drive unit may be unplugged and slipped out of its spring clamps to replace

or repair. The whole motor drive unit also may be unplugged and removed.

The battery is mounted on the back of the camera instead of on the side for better balance. Prices on the camera begin at \$3,620 for the basic unit. A miniature shoulder pod is supplied with each camera.



The new Canon Scoopic 16M professional 16mm camera has been announced by Canon U.S.A., Inc., 10 Nevada Dr., Lake Success, NY 11040. The camera has auto electric eye exposure control with a 12.5 to 75mm f/1.8 zoom that focuses from infinity down to macro distances. In the macro range the Canon lens can focus down to 3½ in between its front element and the subject. Other new features include a newly designed through-the-lens viewing system, expanded ASA scale and increased frames/s range. The finder, adapted from the Canon Scoopic Sound 200, shows a bright corner-to-corner image. The safe TV frame area is outlined on the finder's matte glass viewing screen. Also shown is a T-stop scale for the metering system as well as over and under exposure marks. The locking eyepiece correction has a range of -2 to +4 diopters. ASA range of the auto electric eye system is 20 to 640. The electronically governed frames/s range in the new camera is 16 to 64 frames/s. The film drive is powered by a built-in dc motor. The Scoopic 16M has a 170° shutter and the claw mechanism has been moved down and behind the film for improved film steadiness. The price is \$1,685.



Two new crystal-controlled motors for the Arri 35, the CRA-6 and the CRA-6/A have been announced by Cinema Products Corp., 2044 Cotner Ave., Los Angeles, CA 90025. The CRA-6 runs at 24 frames/s and the CRA-6/A runs at either 24 or 25 frames/s with the choice of speeds controlled by a selector switch. All electronics are contained within the motor housing, making the motor light and compact. The

## if you're in these special fields

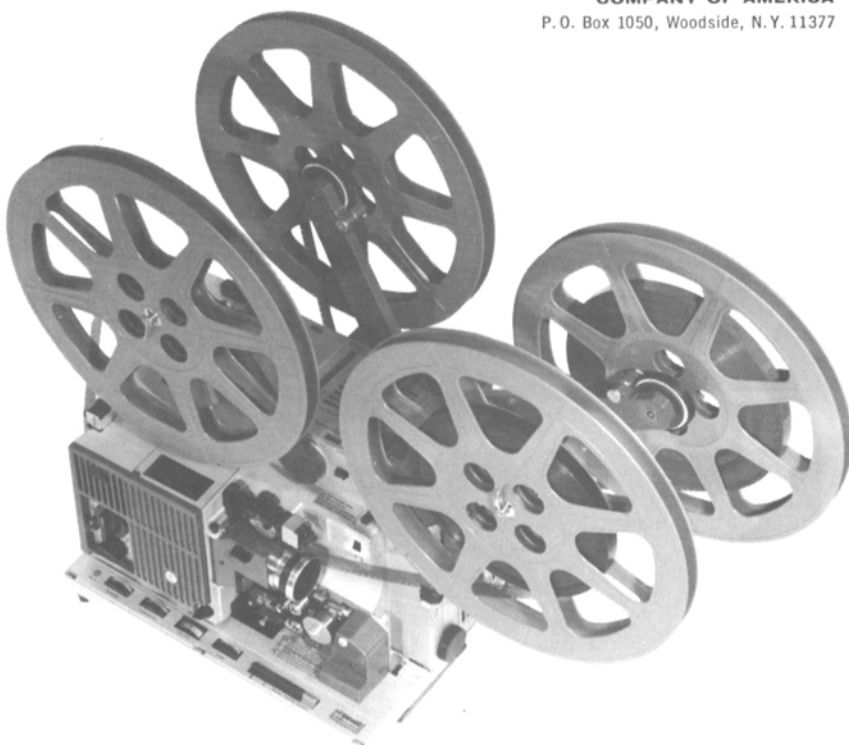
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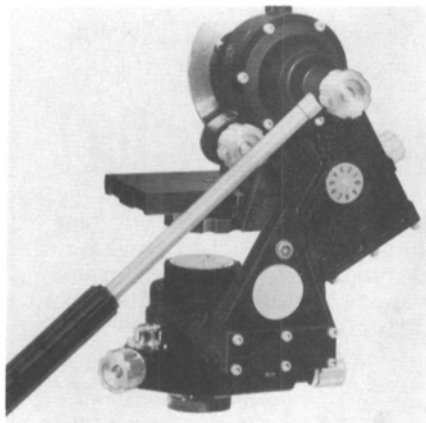
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CRA-6 and CRA-6/A housings are designed for use with standard Arriflex 35 tripod heads including Ronford, Sachtler Wolf and other similar heads. A flat base with a footage counter which fits in the Cine 60 or Arri 120 S blimp is available optionally. An adapter bracket is required for the Arri 120 S blimp. The CRA-6 is priced at \$1,250 and the CRA-6/A is priced at \$1,350.

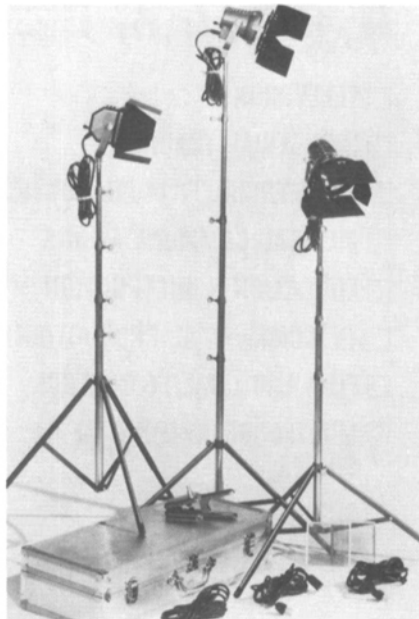
**New AGE Sound Barneyes** designed to reduce unwanted camera noises in the Arriflex BL, Eclair NPR and Eclair ACL have been announced by Alan Gordon Enterprises Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601. The barneys are made of simulated leather. Although heavily insulated to screen out unwanted camera noises, they are light and flexible for easy portability and storage. Prices are \$99.50 for the Arriflex BL and Eclair NPR barneys and \$89.50 for the Eclair ACL barney.



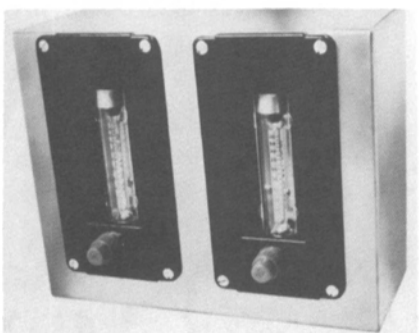
A new fluid camera head, called the O'Connor Model 20, has been announced by O'Connor Engineering Laboratories, 100 Kalmus Dr., Costa Mesa, CA 92627. Designed specifically for the Eclair ACL and the new Arri Sr., it can also handle other cameras weighing no more than 20 lb. Model 20 has a new fluid action designed to eliminate static friction and provide fluid control. The head is dynamically balanced in all positions, even when long telephoto lenses are used. There are no springs; torque on both pan and tilt is infinitely adjustable and repeatable with indicators. The handle is adjustable. Model 20 is priced at \$750.

**The Modu-Line System 70** series of film racks has been announced by Plastic Reel Corp. of America, 640 S. Commercial Ave., Carlstadt, NJ 07072. The system is made up of individual components of heavy-gauge steel, forming a system that can expand to meet growing film and video storage requirements. The system is completely modular, providing a three-dimensional approach to film library operation, allowing the user to maintain a high-density storage of film cans and cases and videotape cassettes and reels with safety, convenience and efficiency. Shelves can be added, one at a time, or moved up and down to accommodate different sizes of film containers. No tools are required. The film rack capacity can be changed from film cans to shipping cases or to videotape cassettes by taking out the removable divid-

ers and replacing them with dividers of the proper width.

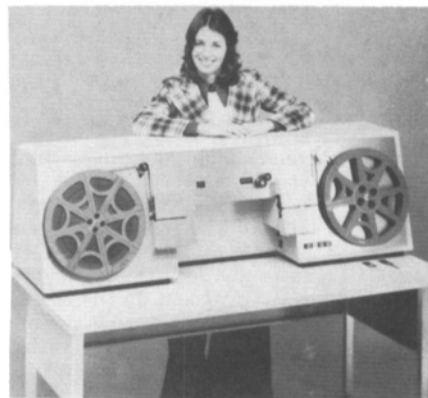


**The Aero-Kit**, a quartz location lighting kit packaged in an aluminum carrying case measuring 6½ by 12 by 26½, has been announced by Cinema Products Corp., 2044 Cotner Ave., Los Angeles, CA 90025. The kit weighs less than 31 lb and includes two focusing 600-W spots and two detachable rotating four-way barndoors, one focusing 600-W fill light with integral four-way barn doors, two scrims, three 10-ft 3-wire cables, one gator grip and three professional-type stainless steel light stands. The light stands are 20 ft high when extended and 24 in when telescoped. They are specially designed with extendable legs to permit easy and stable placement of the light stand on uneven ground surfaces. Aero-Kit lighting fixtures operate with 600-W lamps at 120 V ac or dc; each fixture can also be used with 250-W lamps for 30 V dc battery operation. The two focusing spots and the focusing fill light are equipped with heat-resistant quartz lamp sockets. The Aero-Kit, manufactured by Ryudensha Co. of Japan for exclusive distribution in the United States by Cinema Products Corp., is priced at \$369.

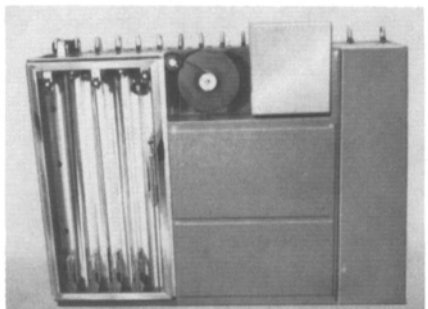


**A compact replenisher control cabinet** for automatic processors has been announced by Oscar Fisher Co., Newburgh, NY 12550. The unit is self-contained and consists of solenoid valves which open electrically to allow flow only when the power is on. The flow is measured through purge meters calibrated in cubic centime-

ters per minute. The flow through the purge meter is set by the operator and can be adjusted in proportion to the processing speed. The unit includes clear polyvinyl tubing for connection to storage tanks and the automatic processor. All components are encased in a Type 316L stainless steel housing with the purge meters mounted directly on the front. The cabinet is available in three models, R-002, handling two solutions, priced at \$330; R-003, handling three solutions, priced at \$415; and R-004, handling four solutions, priced at \$470. Other units, handling five or more solutions are also available. All models are equipped with 0 to 180 cm<sup>3</sup>/min flow. Other flow rates are available.

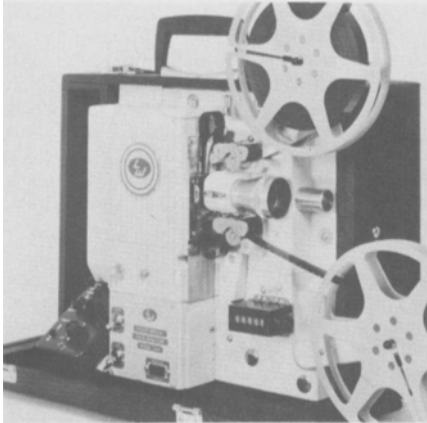


**The Pulsar 1200** electronic film inspection machine has been announced by Research Technology Inc., 8260 Elmwood Ave., Skokie, IL 60076. Features include a light-beam transducer detector, a liquid film cleaning unit, solid-state printer circuit boards and pushbutton operation. Two other models are available—the 800 and 1600. The three machines clean, condition and inspect film, all in one pass: at speeds of 800, 1200 and 1600 ft/min. All the machines are solid state with plug-in circuit boards. Features include “no-thread” loading. The price range is from \$4,295 to \$8,195.

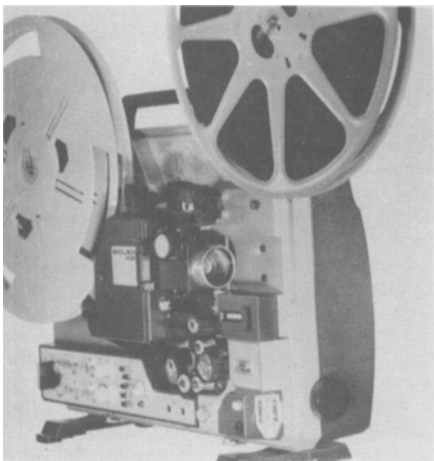


**The M-300 Minaflex processor**, a compact processor using a system of “unitanks” to make it possible for the same basic processor to be used for 16 different processes, has been announced by Treise Engineering, Inc., 1941 First St., San Fernando, CA 91340. The machine, 78 in long, 26 in wide and 55 in high weighs 650 lb dry and 1190 lb in operation. By making certain plumbing or component changes the same basic unit can be used for black-and-white positive; black-and-white negative; black-and-white reversal; black-and-white microfilm; ECO-3 Ektachrome; ME-4 Ektachrome; CRI Ektachrome; C-22

Kodacolor; N-31 Internegative; KC II; Eastman Color Positive; Eastman Color Negative; E-4 Ektachrome; E 40/160 Ektachrome; Ansco AR-2 and Gevachrome 6N-1. Features include the Spring Bearing Roller Drive, a demand drive enabling the operator to change film sizes while maintaining uniform tension and constant speed, and "soft touch tires" to grip the film firmly and move it along smoothly. Price of the basic unit starts at about \$6000. Depending on the modifications and accessories required, the price range is up to about \$14,510.



The 224-A Mk. II Photo-Optical Data Analyzer, a new version of the 224-A projector, has been announced by L-W Photo, Inc., 15451 Cabrito Rd., Van Nuys, CA 91406. The new projector uses a 750-W quartz-halogen lamp with a rated life of 200 H. An improved cooling system uses a constant-speed motor-driven blower and heat filtering system to prevent film damage even during prolonged single-frame projection. The machine provides flicker-free projection of standard 16mm films at speeds ranging from 1 to 24 frames/s. A built-in intervalometer provides selected speeds. Solid-state circuitry eliminates noise and troublesome relays. The machine weighs about 30 lb. It is 16 in long, 12 in high and 11 in wide. The price is \$1,395.



The Bolex 421, a 16mm projector designed for magnetic recording as well as for projection of magnetic or optical sound films and projection of silent single- or double-perforated 16mm films has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. The 421 can project at fixed 18 or 24 frames/s or at continuously

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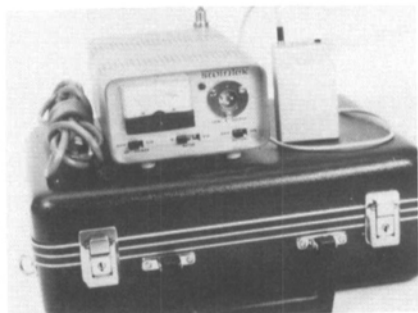
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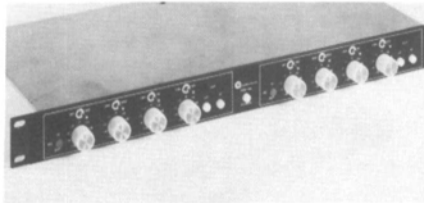
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variable speeds from 15 to 30 frames/s. All speeds are electronically stabilized. The projector has also the capability of still and frame-by-frame projection in either forward or reverse. It has separate inputs and separate level controls for microphone and record player. Direct mixing of music and narration can be done in the projector. An automatic compression device, operating above a critical recording level, immediately reduces modulation peaks that saturate the magnetic track. A filmmaker can superimpose sound on sound. Other features include a VU meter, a 25-W amplifier with separate bass and treble controls and a 24-V, 250-W halogen lamp with built-in dichroic mirror. Dimensions are 19 by 15 by 9½ in. The weight is 40 lb and the film capacity is 2,000 ft. The price of \$2150 includes an f/1.6 35 to 65mm zoom lens.



The Swintek Mark IV wireless microphone system featuring a transmitter

about the size of a pack of cigarettes and weighing only 5 oz has been announced by Alan Gordon Enterprises Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601. Powered by a 9-V battery, the transmitter can accept any type of lavalier or handheld microphone. The receiver provides three simultaneous audio outputs at various levels. It operates on either ac or dc. The Swintek Mark IV system is priced at \$960.



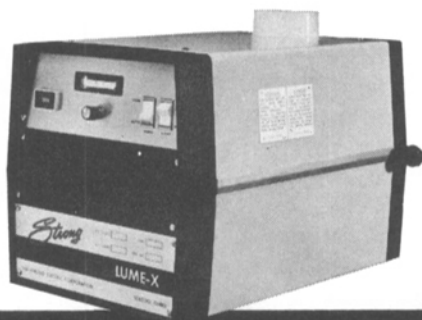
A solid-state, dual active audio program equalizer, Model PEQ-82, has been announced by Audiotronics, Inc., 180-B S. Cooper, Memphis, TN 38104. The two independent equalizers are packaged on a single 1¾ by 19 in rack mount panel. The equalizers are transformer isolated and operate at levels from -20 dBm to -4 dBm. Designed for low noise and distortion, circuits operate at unity gain with a maximum output level of +24 dBm. Each equalizer may be silently switched in and out. Controls are infinitely variable with continuous adjustment from -12 to +12 dB at each of four frequencies simultaneously. Each control may be switched to operate at either one of two frequencies: 80

Hz or 150 Hz, 300 Hz or 600 Hz, 1.6k Hz or 4k Hz, and 7.5 Hz or 12k Hz. Each channel provides a HI and LO filter with -3dB points at 80 Hz and 10k Hz. The price is \$325.

The Tone Generator, Model A15TG, a portable, self-powered microphone level signal source, has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. The tone generator can be used for setting up and troubleshooting audio equipment in recording, broadcasting or sound reinforcement applications. It is designed to drive low impedance, balanced-line inputs such as those normally used in conjunction with other Shure A15 Series products. Housed in a ¾-in diameter case, the A15TG has a professional three-pin male connector at the output end. The opposite end houses a miniature mercury battery with a threaded end cap for replacement of the battery. Price of the A15TG is \$20.40.

The Audiophile Han-D-Kit containing items to measure and eliminate magnetism on audio tape recorders has been announced by R. B. Annis Co., 1101 N. Delaware St., Indianapolis, IN 46202. The announcement noted that recorded tapes can be ruined when played on recorders that have not been thoroughly demagnetized. The Han-D-Kit includes a pocket magnetometer to measure residual magnetism, a clip-on extension probe to reach recessed components, a dual-purpose Han-D-Mag demagnetizer, experimental test strips and complete instructions. Han-D-Mag has a demagnetizing field strength of over 350 Oe at ½-in distance from the end of the probe. Two kits are available. The Economy kit, 20/B5, which contains the standard magnetometer, is priced at \$29.75. The Deluxe kit, 25/S5, which contains a jewelled magnetometer with greater stability and accuracy, is priced at \$51.

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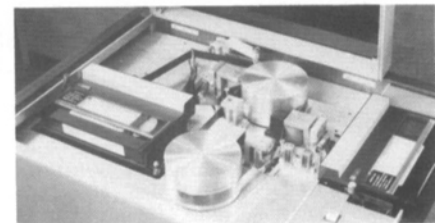
The lamphouse measures 22½" long, by 12½" wide and 16" high including mounting brackets. The power supply is 20½" long, 18" wide and 8¾" high. The fan cooled power supply can be mounted vertically or horizontally.

Models for 16mm projection also available.  
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The STAM (sequential thermal anhyseretic magnetization) process has been incorporated in two new high-speed videotape contact printers announced by 3M Company, Box 33600, St. Paul, MN 55133. One printer is a reel-to-reel model (shown above) operating at a speed of 75 in/s. It may be field-converted to handle various widths up to 1 in. The other printer (shown below) has been designed specifically for in-cassette duplication of ¾-in U-



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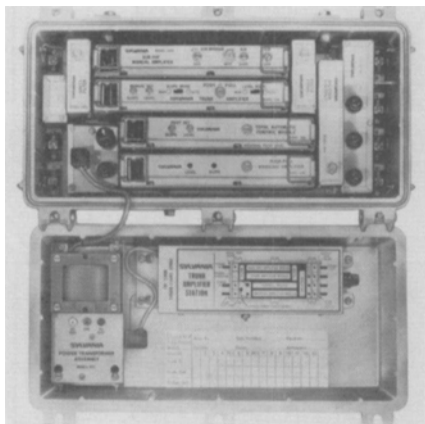
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Matic videocassettes at 37½ in/s. Use of the STAM process makes unnecessary special mastering recorders or mirror-image master tapes and both color and black-and-white transfers can be produced.

The process is said to combine the advantages of both thermal and anhysteretic stimulation for transfer of the video information. Heart of the system is a special continuous metal belt coated with proprietary magnetic materials. Through thermal stimulation, the belt "picks up" the image from the master and, in effect, becomes a mirror image master. Magnetic stimulation is used to transfer the image from the belt to the copy tape. Except for CrO<sub>2</sub> tapes, which have a tendency to erase when heated, any type of tape may be used as copy tape with the STAM system.

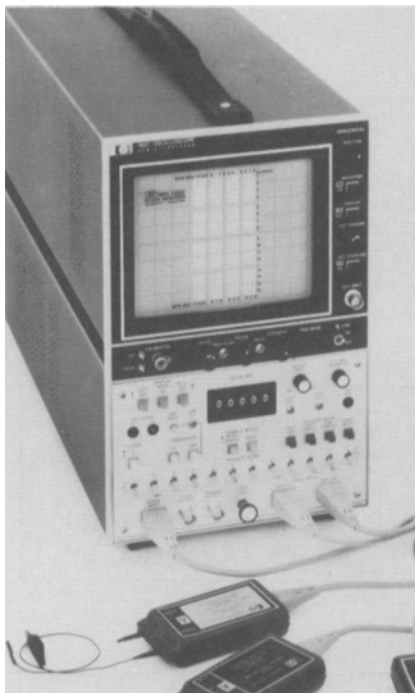
Expected to be commercially available in quantity in mid-1974, prices will range from \$35,000 for the videocassette model to \$98,500 for the reel-to-reel models.



**Additions to the Series 2000 Trunk Amplifier Station** with new features, including provision with Mid-Band Split and other dual cable system configurations, have been announced by the CATV Equipment Installation Operation of GTE Sylvania Inc., 114 S. Oregon St., El Paso, TX 79901. The Series 2000 stations supply bidirectional mainline trunk amplifications with options of automatic control, bridging with one to four outputs which allows super-trunk operation to service CATV systems with diameters up to 38 mi around a single hub. The stations have extra wide bandwidth for 30 channel plus forward operation, 5 to 30 MHz bandwidth sub-VHF return, plug-in modules for convenient updating, dual pilot automatic control (TACM), plug-in attenuators and equalizers.

**The Digital Video Laboratory Unit, Model DW 3350**, a general purpose unit allowing laboratory experiments to be easily performed with digital video signals, has been announced by Micro Consultants Ltd., Interface House, Croydon Rd., Caterham, Surrey, England. The basic unit incorporates an Analog to Digital Converter and a Digital to Analog Converter than can be used for video radar or television. The unit may be internally interconnected so that the system appears as a transparent video black box, or an external digital data unit may be interposed between the ADC and the DAC unit. The complete rack is a 3½-in-high 19-in rack mounting

system incorporating a number of units designed as plug-in modules accessible from the front of the system. Options include a serializer/deserializer for applications requiring a serial link and a parallel link for applications requiring digital processing to be parallel. The system incorporates a variable oscillator to provide clock-strobe pulses to the ADC. A phase lock loop is incorporated and may be used to lock the sampling frequency to a multiple of an input waveform. Normally the multiple is chosen to be three times the color subcarrier for color TV applications; however, the loop will lock onto other multiples and may be used for general experimental use. The normal operating frequency range for the oscillator in the free run mode is from 8 to 16 MHz.



**A new Logic State Analyzer, Model 1601L**, designed to capture any sequence in the data in 12 channels at a time, running at rates up to 10 megabits/s, has been announced by Hewlett Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The Analyzer presents the data on a CRT as 16 consecutive 12-bit words in 1's and 0's in the same way as logical data is presented in truth tables. The information is stored in shift registers and can be displayed indefinitely. Triggering options are so various that the instrument can be made to access virtually any desired sequence in the data stream. Triggering occurs, in clock synchronism, when data match any chosen preset word in any format. The trigger can start the display, stop it to show what happened before the trigger, or start a counter to delay the display by any preset number of clock cycles (up to 99,999) after the trigger word occurs. A new probe system yields better ways to probe typical close-packed logic circuitry. New probes are small enough for side-by-side connection on a Display Integrated Panel. Price of the new Analyzer is \$2,650.

**A new pulse generator, Model 8015A**, designed especially to test MOS logic, has

been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. It has two outputs, each capable of putting out pulses of as much as 16 V. Combining the outputs yields 30 V, from +15 to -15V. Graduated level controls adjust pulse top and baseline individually. The graduations obviate the need to set levels with a scope or DVM. Individual slide controls for top and baseline eliminate offset control — pulses of any amplitude up to 16 V are set within the desired "window" of +16 to -16 V. Each output has a normal/complementary switch. Each has selectable source impedance, 50 Ω or 1 kΩ, to deal with reflections and varying load situations. The generator can be used to test CMOS, low-threshold MOS and most high-threshold MOS logic as well as TTL, HTL and discrete circuits. Repetition rates range from 1 Hz to 50 MHz (30 MHz for 32 V operation). Price of the 8015A is \$1,750. The optional Counted Burst is available for an additional \$350. A single-output model is available at a price of \$1,350.

**Three function generators** incorporating an independent but integrated sawtooth generator have been announced by Ailtech, 19535 E. Walnut Dr., City of Industry, CA 91748. Designated the 505, 515 and 525, the function generators have built-in capabilities to generate sine waves, triangles, square waves, sawtooth waveforms, pulses, low-duty cycle pulses, tone bursts, swept sine, swept triangle, swept square waves, swept prb, haversines, mono pulses and waveforms, etc. Each unit provides also a built-in wideband summing amplifier. Its integrator and sawtooth generator can be operated separately or together. All can be externally triggered. The main generator can be used as a VCG, triggered, mixed, etc. The main generator can be selected with top frequency of 5 MHz, 10 MHz or 20 MHz. The sawtooth generator operates from 001 Hz (1000 s) to 100 kHz. Sawtooth output is 0 to 1.5 V into 50 Ω (0 to 3 V open circuit). This can be amplified X4 by the built-in amplifier. The sawtooth generator can be used to trigger the main generator creating tone bursts or pulses with duty cycles as low as  $5 \times 10^{-9}$ . Prices range from \$645 for the 5 MHz 505 to \$845 for the 10 MHz 515 and \$1,045 for the 20 MHz 525.

**The DPH Digital Power Supply Programmer** providing a digital-to-analog interface between a computer's I/O circuits and a programmable dc power supply has been announced by Trygon Electronics subsidiary of Systron-Donner Corp., 1200 Shames Dr., Westbury, NY 11590. The DPH has a built-in addressable memory capable of providing up to 16 functions which can be programmed from the same data lines. Features include isolation circuits to prevent formation of the ground loops that can adversely affect the operation of computer-operated test systems. Built-in test circuits continuously monitor the output voltage of the power supply. The DPH Programmer has been designed for applications requiring DC power for automated test systems, complex process control operations and automated production testing routines. Prices begin at \$875.

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# 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

**Designer/Engineer.** To work with rapidly expanding Virginia instrumentation camera manufacturer in medical, aerospace, microfilm and surveillance fields. A knowledge of optics and electronics is required. Large film format, pulse and cine background would be desirable. A general knowledge of instrumentation equipment and data reduction techniques helpful. Send resume to: Arthur Dorman, Instrumentation Camera Corp., 97-45 Queens Blvd., Rego Park, NY 11374, (212) 275-3400.

**Video Engineers and Technicians.** Fully experienced in maintaining color cameras, 2-in, 1-in. & 3/4-in VTRs using latest Tektronix test equipment. Excellent salaries for right men. Send resumes to: Phil Dewald, F&B/Ceco of Calif., Inc., 7051 Santa Monica Blvd., Hollywood, CA 90038, or Walter Druker, F&B/Ceco Inc., 315 W. 43rd St., New York, NY 10036.

**Engineers.** RCA seeks engineers for applied research in the developmental program for "SelectaVision"... a new dimension in home entertainment. **Video Engineer:** design and modify video signal processing devices using solid state technology. BS/MSEE with electronics or communications option, plus experience in design and operation of color video signal handling methods. Knowledge NTSC-SMPTE video standards a must. **Electronic Equipment Maintenance Engineer:** Heavy emphasis on video display units. BSEE plus in-depth experience in test and repair of complex electronic equipment. Resumes to: R. J. LaEace, RCA Corp., 6550 E. 30th St., Indianapolis, IN 46219. An equal opportunity employer M/F.

**Mechanical/Electronics Repair Specialist.** This is an excellent opportunity for an individual in a career in one of the country's best and most progressive full service labs. If you have extensive experience in Maintenance of Lab Equipment, please write Scott King at WRS Motion Picture Laboratory, 210 Semple St., Pittsburgh, PA 15213 or call (412) 683-6300.

**Physicist Calibration Expert in Photometry/Radiometry.** Permanent position for engineering or sales-oriented physicist in growing, established company. Must have experience in photometry/radiometry and be able to set up and maintain radiometric calibration laboratory. Other responsibilities include providing applications assistance to engineering and/or sales department, and supervising quality assurance functions in photometry and radiometry. Send complete resume, including salary history, to: Photo Research, Div. of Kollmorgen Corp., 3000 N. Hollywood Way, Burbank, CA 91505.

**Photo Equipment Technician.** Arriflex Co. of America, importer of Arriflex professional motion-picture equipment, is seeking experienced technicians to service same. Offices in New York and California. Positions available at both locations. Excellent starting salary, fringe benefits, growth potential. In New York call (212) 932-4040. In Calif. (Burbank) call (213) 843-1883.

## Positions Wanted

**Film Production or Promotion.** Assistant Professor of Speech and Drama, experience in theater production facilities and phases of both theater and film studies and teaching, desires opportunity in a production organization, including writing and public relations. Robert L. Richey, 847 N. Main St., Lindsborg, KS 67456, (913) 227-2127.

**TV-Technician/Film-Technician/Artist.** BA from Southern Methodist University in radio, TV and film. Diploma from American Schools of Cinema in lighting, cinematography, editing and sound. 5 years experience in radio, TV film, art and animation. Worked in movies, national TV shows and TV commercials out of Dallas. Pioneered one of the first religious TV stations and one of the first religious TV networks in the world, as artist, ad artist and TV technician. Member SMPTE and International Christian Broadcasters. Artist for Dallas offset printing companies and film studios, in the field of titles, animation and slides. Will travel anywhere. P. D. Closser, 3875 Dunhaven Rd., Dallas, TX 75220. (214) 352-2090.

**A/V Production.** 20 years experience in motion-picture and television production. Especially interested in an in-house photographic or A.V. department. Full resume on request. R. B. Rieske, 3266 Seneca St., Bldg. 4, Apt. 9, W. Seneca, NY 14224, Phone: (716) 675-5355.

**Management-technician.** Experienced professionally in sound reinforcement, recording, theatrical lighting and motion-picture equipment. Eight years experience in facility management, design, direction, and service. Broad experience in dealing with the public. Interested in relocating and travel. Resume available and detailed information on request from John Bondi, 110 Jefferson St., Bakersfield, CA 93305, (805) 324-3884.

**Film Production.** Young man earnestly desires work in film production. Audio and television experience. Familiar with equipment. Engineering grad. Will start at bottom. Steven Mintz, 119 Bank St., New York, NY 10014. (212) 691-8754.

## Journals Available/Wanted

These notices are published as a service to expedite disposal and acquisition of out-of-print Journals. Please write direct to the persons and addresses listed.

**Exchange:** USC Cinema Div. has an exchange-of-extra-journals program with libraries in colleges and industry. Anyone interested in exchanging duplicates for missing copies or donating Journals for this purpose should contact Herbert E. Farmer, Division of Cinema, University of Southern California, University Park, Los Angeles, CA 90007.

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