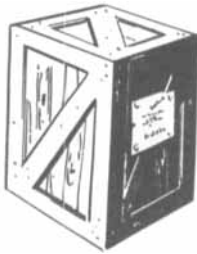


new products (and developments)



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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.

Three new motion-picture films, including a color reversal intermediate designed to eliminate one or more printing steps, have been announced by Eastman Kodak Co. Announcement was made at the Society's 103d Conference in Los Angeles. These were presented as papers Nos. 18, 20 and 22 on May 7, 1968.

Eastman Color Reversal Intermediate, Types 5249/7249, is designed to produce sharper 35mm and 16mm prints with improved color reproduction. Eastman Color Negative Film, Type 5254, is a higher speed 35mm camera film which affords flexibility on low-light situations. Eastman Color Internegative Film, Types 5271/7271, is

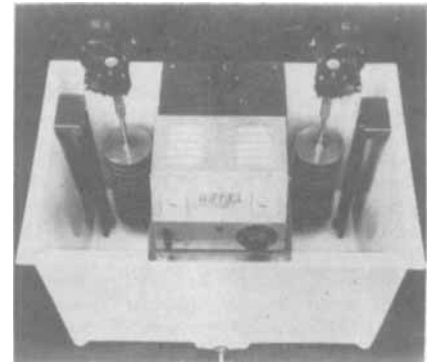
an improved intermediate film that allows for continuous processing with color print film without changing development time. It is designed to produce sharper 8mm and 16mm with better color reproduction.

Using the new color reversal intermediate, Types 5249/7249, duplicate negatives can be made in one operation with a new processing method called CRI-1. This method is similar to Kodak ME-4 color reversal chemistry with certain changes. The CRI-1 process requires (1) a system to allow for the removal of the remjet antihalation backing on the new film; (2) a shorter amount of time in the first developer; (3) increased turbulence in several processing solutions; (4) adequate drying facilities to produce maximum drying uniformity and (5) wiper blades to minimize solution carryover. Using the new system for syndicated television release, a 16mm reversal duplicate negative would be made as a printing master. For overseas theatrical release printing, a 35mm reversal duplicate negative would be produced.

The new color negative, Type 5254, has an exposure index of 100 (tungsten) and 64 (daylight). Other than a one-stop difference in speed, this film is identical with Eastman Color Negative Film, Type 5251.

Eastman Color Internegative Film, Types 5271/7271, features complete processing capability with the color print film. It is possible to cut the new internegative film onto the same machine processing Eastman Color Print Film without stopping to change development time.

A 24 frames/s color television system has been developed at Reeves Sound Studios, 304 E. 44 St., New York, N.Y. 10017. The system is designed to eliminate picture flicker and phase bar interference when photographing television receivers and to enable unrestricted camera movement over the entire scene while pre-taped sequences are being shown on the television receiver. The system is presently in use on the feature film *Midnight Cowboy*. A Reeves unit of three color television cameras moved into a New York film studio to video-tape various color scenes. The entire system of Norelco cameras and Ampex recorders operated at 24 frames/s instead of the usual 30 frames/s for television transmission and recording. The video tapes were then edited at Reeves. The edited tape scenes have been replayed over standard television receivers. During the playback, the 35mm motion-picture camera, the sound recorder and the television receiver on the set are all interlocked to the Reeves 24 frames/s system.



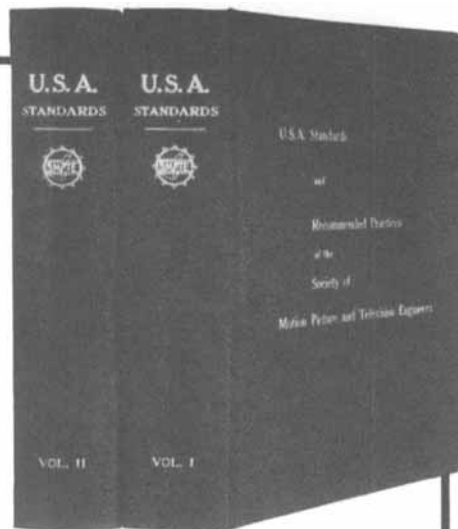
A new Rotex silver-recovery unit, designated Model 1060, has been announced by W. B. Snook Mfg. Co., 751 Loma Verde Ave., Palo Alto, Calif. The recovery capacity of Model 1060 is about 2½ troy oz of silver per hr on a "batch" process. The tank is made of glass fiber and has a capacity of 60 gal. It is built with internal metal braces and inserts. The motor bases are hinged so that the cathode may be swung clear of the hypo for easy removal of the silver. The tank has a stainless-steel bottom drain and the power supply is attached. The unit fits in a space 38 by 35 in. and 33 in. high. It weighs 140 lb. With a built-in automatic timer the price is \$1,925. With an Agatrol automatic current control device the price is \$2,240.



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motion-picture cameras has been announced by Arriflex Corp. of America, 25-20 Brooklyn-Queens Expressway West, Woodside, N.Y. 11377. The power supply operates from 110- to 115-V, 50- to 60-Hz ac power lines and provides the required dc operating voltages for all Arriflex cameras and accessories. Control switches permit the cameraman to select from four fixed, and two variable, output voltages. Variable outputs cover the 0- to 30-V dc range at a maximum load of 6 A. The fixed outputs are matched to the voltage requirements of Arriflex 16S, 16M, 16BL and 35 cameras and are regulated to about 5% at typical operating loads. The unit weighs 8 lb and measures 10 by 6 by 12 in. It is priced at \$186.



PN88 dollies, featuring dual 8-in. wheels, have been announced by Television Products Co., 9016 Aviation Blvd., Inglewood, Calif. 90301. The 495-lb dollies are designed to support color cameras as well as the lighter monochrome cameras. The pneumatically balanced dollies feature "floating-on-air" operation and have a silent toothed-belt drive for the upper steering mechanism to permit moving the unit in for close shots and close-to-the-mike operation. The wheelbase is 33-in., center to center, and the height is 31 to 50 in. The PN88 is priced at \$2,869.



A combination sliding matte box and filter holder for the Mitchell Mark II (R-35) camera has been designed by

F&B/Ceco, Inc., 315 W. 43 St., New York, N.Y. 10036. The matte box mounts on a set of parallel rods and is secured with a clamp lock. It slides forward to allow the cameraman to have access to the turret and lens without having to remove the entire assembly. The matte box accommodates a 3-in. or 5-in. square filter plus three 4½-in. round filters all in rotating frames. The matte boxes are priced at \$595.

The Viennette 2, a new super 8 camera has been announced by Eumig (U.S.A.), Inc., 101 W. 31 St., New York, N.Y. 10001. Features include Austrozoom lens, $f/1.9$, 9 to 27mm, servo-focus system and power or manual zoom. A warning signal in the viewfinder operates when lighting conditions are poor or when there is no film in the camera. The camera is priced at \$169.95.

A unidirectional cardioid-dynamic microphone featuring volume control on the microphone case has been introduced by The Turner Co., a subsidiary of Conrac Corp., 909 17th St. N.E., Cedar Rapids, Ia. 52402. The microphone, called 701VC, is of the ball-screen type with 40,000-Ω impedance and a frequency response of 100 to 13,000 Hz. Features include a built-in pop-blast filter and a public address or recording interior. It is priced at \$75.

The Starmaker line of dynamic microphones has been announced by Radio Corp. of America. The Starmaker 96 has a frequency response from 50 to 15,000 Hz and features a 3-position bass roll-off switch to reduce rumble and unwanted background noise. It is intended for stage and broadcast applications. Other microphones in the series are designed for broadcast and home use. Prices range from \$8.00 to \$50.

The Quartz Daylitter utilizing a new 5,000-K quartz-halogen dichroic sealed beam, medium beam lamp, has been announced by Packaged Lighting Services, Inc., 36 Woodworth Ave., Yonkers, N.Y. 10701. The lamp is rated for 650 W, 120 V and operates on ac or dc with unrestricted burning positions. At a 15-ft distance, more than 600 fc illuminate an 8- by 12-ft area. The Quartz Daylitter is priced at \$27.50 without the lamp.

Monital lenses designed for vidicon and Plumbicon formats have been announced by Albion/Rank Taylor Hobson, 260 N. Rt. 303, W. Nyack, N.Y. The lenses are designed especially for applications in the medical field, including patient surveillance, and the teaching of surgical procedures and diagnostic methods. A series of Macro attachments for extreme close-up work are available. The lenses are corrected for optimum contrast and resolution within the television signal bandwidth. The lenses have electrical continuity to ensure proper earthing to avoid pickup of local electrical interference. Both 5:1 and 8:1 zoom ratios are available in apertures ranging from $f/1.6$ to $f/5.2$ and in focal lengths from 8mm to 250mm. 5:1 zoom prices begin at \$555.

A new wide-angle, fixed-focus lens called the Cyclops has been announced by Zolomatics Corp., 5875 Melrose Ave., Hollywood, Calif. 90038. It has a viewing angle of 110° in the diagonal and 100° in the horizontal. The focal length is 6mm and the lens has a relative aperture of $f/1.4$. The price is \$395.

A new type of flexible light tube designed to transmit numbers, letters, scale markings and similar graphic elements in color from hard-to-read locations to within easy view of an operator has been announced by The Van Deusen Co., Box 1251, Laguna Beach, Calif. 92652. Typical uses would be to read the markings on an inner shaft of a machine tool, monitor a level gage within a water tank, or transmit the digital display of a nuclear instrument located behind a radiation-proof wall. Each light tube contains hundreds of flexible, transparent plastic fibers that break the graphic image into a mosaic of colored dots. The fibers carry the pattern to the other end of the light tube where the graphic image is recreated in its original size, color and form. The fiber diameter is 1/100th of an inch. Designated Series 3000, the light tubes are available in three cross sections, $\frac{3}{8}$ -in. square, $\frac{1}{2}$ -in. square and $\frac{1}{4}$ by $\frac{1}{2}$ in. Lengths are 6, 12, 18 and 24 in. Images can be transmitted for distances up to 15 ft. Prices range from a few dollars to several dollars per foot.

Four new gas laser units designed especially for use by industrial laboratories and electronic equipments manufacturers have been introduced by Radio Corp. of America. The new laser systems incorporate a sealed quartz tube resembling a common fluorescent light. The tube is filled with argon, krypton or neon gas. Within the tube are many graphite discs each having a small center hole. During operation, the gas is ionized by electric current which passes through the tube. The excited ions emit light as they change from one energy state to another. The light is then amplified and emitted as a pencil-thin laser beam through an arrangement of special optical windows and mirrors. An extremely small continuous wave argon laser and a low-priced pulsed argon laser are priced at \$3,500 and \$610, respectively. The two other laser systems are a 400-mW continuous-wave krypton system and a 50-mW neon system both priced at \$19,500.

The TCB-14R color broadcast monitor announced by Ball Brothers Research Corp., P.O. Box 1062, Boulder, Colo. 80302, is designed especially for convenience and accessibility of controls. Brightness, contrast and on/off controls are located on the front panel. Other controls are located on an extendible printed circuit card located immediately behind the front control panel. The TCB-14R has a 14-in. display and fits into rack space 10½ in. high, 19 in. wide and 18 in. deep. It is an encoded NTSC monitor with all-solid-state circuitry (excluding CRT). It features I and Q demodulation for maximum color bandwidth. The power supply is capable of delivering 2 mA at 20 kV regulated to ±1%. It is priced at \$1,925.

SMPTE test films for television



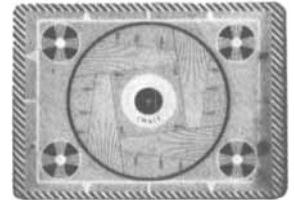
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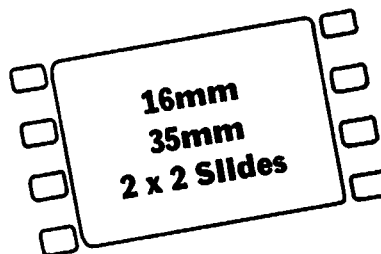
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A new Video Head Optimizer designed to reduce the time needed to optimize video heads on Ampex VR-2000 and VR-1200 Series high-band color video-tape recorders from about 15 min to about 15 s has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. The new device enables the operator to optimize video head current by simply pressing the Play, Record and Optimize buttons on the front of the recorder and adjusting the record currents. Previously, it was necessary for the operator to make recordings at different record currents and then play back the tape to determine the best current level for each head. The optimizer is standard equipment on VR-2000B recorders. It is also available as standard or optional equipment on VR-1200 recorders or as a field-installed accessory kit for VR-2000 and VR-1200 recorders now in use. It is priced at \$2,615.

A video-tape recorder designated Model EV-210 has been announced by Sony Corp. of America, VTR Div., 47-47 Van Dam St., Long Island City, N.Y. 11101. Used with the Sony CLP-1A Color Adaptor, the recorder is capable of NTSC color recording as well as black-and-white recording. Features of the EV-210 include slow- and stop-motion capability in both color and black-and-white; dual audio channels; manual control for accurate tracking and tape interchangeability. The EV-210 is priced at \$3,750. The CLP-1A is priced at \$1,000.



A new video-tape recorder with electronic editing has been announced by Concord Electronics Corp., 1935 Armacost Ave., Los Angeles, Calif. 90025. Designated the VTR-620, it is a helical-scan, dual rotating-head system using 1/2-in. tape. Editing is accomplished automatically and electronically by a pushbutton control. Features include ferrite video heads to increase expected head life to 1000 hr and also to increase signal-to-noise ratio. The price is \$1,050.

CVI Model 621 video x-y coordinate indicator, announced by Colorado Video, Inc., Box 928, Boulder, Colo. 80302, is used with standard closed-circuit TV signal sources, cameras, flying-spot scanners or video tape to provide a means of identifying the physical position of objects or significant details in the video image. Two dc output levels are produced, which are directly proportional to a dot or cross-hair marker

appearing on the TV screen, superimposed over the picture. A grating generator is incorporated for simplified scaling and the unit may be used with either composite or noncomposite video signals. Model 621 is priced at \$1,500.

A 98-lb color TV camera designated TK-44A has been introduced by Radio Corp. of America, Commercial Electronic Systems Div., Camden, N.J. Of three-tube design, the camera uses Plumbicon tubes; extensive use of integrated circuits contributes to weight reduction. The camera also uses a simplified optical system. Features include a "comb" filter which permits amplification of the higher frequency picture detail without a corresponding increase in picture noise. The TK-44A is priced at \$74,800 including a 10:1 zoom lens, black-and-white picture and waveform monitors and full mounting equipment.

A new pulse and bar generator, designated Type SPIF, for monitoring and measuring TV video characteristics has been announced by Rohde & Schwarz, 111 Lexington Ave., Passaic, N.J. 07055. The instrument generates T, 2 T and 20 T sin² pulses and reference bar signal with 0.25% distortion. Type SPIF generates the 3.58-MHz color subcarrier from an internal oscillator and also provides auxiliary horizontal pulses which permit operation from internal or external sync pulses. The generator is available for NTSC, PAL and SECAM systems and in a 19-in. rack version. It is priced at \$1,600.

A portable solid-state oscilloscope that combines a bandwidth of 20 MHz with a sensitivity of 10 mV/cm has been announced by Xetex Electronics, Roebuck Rd., Hainault, Ilford, Essex, England. The instrument is available as a single-trace or a dual-trace unit. A built-in signal delay of 200 ns ensures that the leading edge of any acceptable waveform is clearly visible. Total display area is 10 cm by 6 cm. The instrument is operational within 15 s of connecting the power supply. On the single-trace unit the bandwidth is dc to 20 MHz (-3 dB) and the sensitivity is 50 mV/cm. It is priced at \$765. On the dual-trace unit the bandwidth is either dc to 20 MHz (-3 dB) with a sensitivity of 10 V/cm, or 5 Hz to 5 MHz (-3 dB) with a sensitivity of 1 mV/cm achieved by cascading channels. It is priced at \$895.

A portable spot welder, designated Model AS-1, has been announced by Delonics Corp., 32 Union Square, New York, N.Y. 10003. Spot welding from one side of the work, the Model AS-1 uses the technique of twin-spot welding. A patented winding technique is used to manufacture an extremely lightweight toroidal welding transformer said to deliver more than double the power of much larger transformers. A solid-state power control and timing system developed by Delonics with the aid of RCA engineers reduces system cost, in most cases, by eliminating the need for an auto-transformer. The spot welder with accessories, including water cooling lines, is priced at \$750.

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