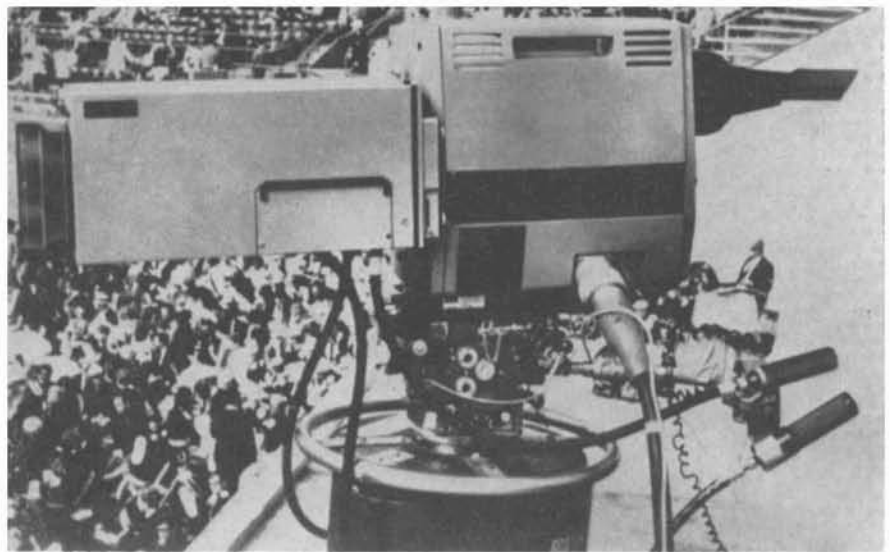
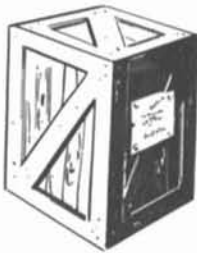


# new products

(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.



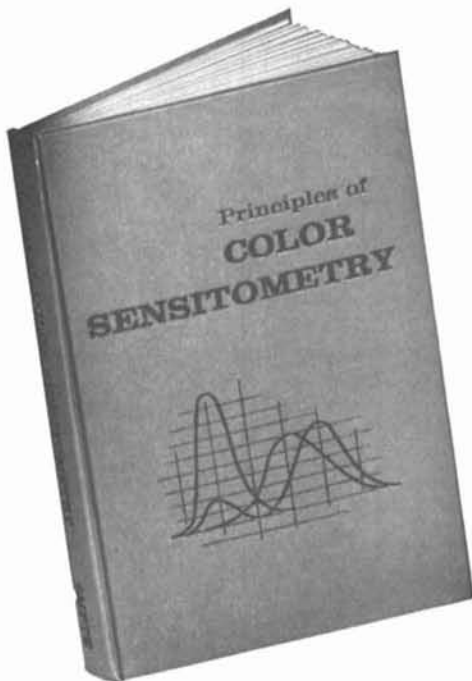
**Photo-Sonics Model 16mm-IFA high-speed data recording camera** has been announced by Instrumentation Marketing Corp., 820 S. Mariposa St., Burbank, Cal. 91506. The camera is designed in a very thin configuration and is intended for use under extreme environmental conditions. Features include a protective built-in cassette to minimize damage to exposed film

The new **Albinon/Rank Taylor Hobson Wide Angle Adaptor** for the RTH Varotal XVIR 16:1 zoom lens has been announced by Albion/Rank Taylor Hobson, 260 N. Route 303, W. Nyack, N.Y. 10994. The adaptor gives an angle of  $50.7^\circ$  and a focal

length of 18 to 290mm. Features include a range extender which can be flipped in and out of the lens optical axis with a slight finger pressure on either of two levers extending from the bottom or side of the interface plate. The cost is \$13,780.

when subjected to excessive shock or impact loads. The frame rate is infinitely variable from 200 to 1,000 frames/s and the capacity is 100-ft daylight load. Transport is rotary prism. The unit is equipped with a runout switch, two timing lights, integral dc motor and heaters that permit operation to  $-65^\circ\text{F}$ . It is priced at \$4,490.

A **lightweight helical scan video-tape recorder** designed for color has been introduced by Bell & Howell, Video and Audio Products Div., 7235 N. Linder Ave., Skokie, Ill. 60076. The recorder, which uses 1-in tape, is available in two versions, Model 2020 color machine and Model 2000 which can be converted to color with



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the addition of a plug-in circuit board. The machines are otherwise identical. The weight is 47 lb including a carrying case or 37 lb without the case for rack mounting. Playing time is 1 h with 2,150 ft of tape. Model 2020 is priced at \$2,335 and Model 2000 is priced at \$1,835.



The Rover, a portable video camera/recorder combination, has been announced by Bell & Howell, Video and Audio Products Div., 7235 N. Linder Ave., Skokie, Ill. 60076. The Rover, designated Model 2965, is a black-and-white system weighing 21 lb. It operates on a battery pack or on normal ac power. Recording time is 20 min with an 800-ft reel of  $\frac{1}{2}$ -in video tape. The solid-state camera with built-in electrical viewfinder weighs 5 lb. The system is priced at \$1,395 including and  $f/2.0$  zoom lens and microphone. Also included is a cable set, batteries and battery charger, earphone, a reel of  $\frac{1}{2}$ -in tape and a take-up reel.

A portable black-and-white helical scan video-tape recorder with two rotary heads has been announced by Bell & Howell, Video and Audio Products Div., 7235 N. Linder Ave., Skokie, Ill. 60076. The recorder uses  $\frac{1}{2}$ -in tape and can provide continuous recording of up to 1 h with a 2,400-ft reel. The recorder, designated Model 2966, features stop motion, simplified controls and rugged portability. It weighs 52 lb, including carrying case. It is priced at \$995.



The Electronic Color Kit introduced by Color-Tel Corp., 13720 Riverside Drive, Sherman Oaks, Cal. 91403 (*Journal*, p 506, June 1969), is available as a combination of Color Translator Model 101 and Compensating Filter Model 201. The Color Translator has interference filters and a 110-Vac synchronous motor. The Compensating Filter is available in various sizes to fit in place of the implosion glass in many monitors and in front of the bonded cathode-ray tube in others. The kit is used to pick up a scene with a black-and-white TV camera and see it in color on a black-and white TV monitor. The Color Transla-

tor is priced at \$1,500. The Compensating Filter, for 8-in monitors, is priced at \$150.

A new modular console using operational amplifiers has been announced by Langevin, 1801 East Carnegie Ave., Santa Ana, Cal. 92705. Designated the AM 1648, the console has up to 16 inputs and four program channels to provide complete simultaneous stereo mixing, including four individual pan pots. As a mix-down console the AM 1648 provides individual pan pots for each of the 16 inputs. With 12 inputs the console is priced at \$15,250. With 16 inputs the price is \$18,050.



The CC-2, a cassette-to-cassette duplicator capable of producing four duplicate C-60 cassettes every four minutes, has been announced by Infonics, Inc., 11650 West Olympic Blvd., Los Angeles, Cal. 90064. The material to be duplicated, e.g., a one-hour lecture or sales training message, is recorded on a portable cassette recorder. The original cassette is then inserted in the duplicator together with four blank cassettes. The CC-2 (two-track) duplicator operates at 15 in/s. It duplicates both tracks at the same time, thus producing four duplicate cassettes in four minutes. Slave duplicators are available, each of which makes an additional eight cassettes while the main duplicator produces four. The CC-2 is priced at \$2,695.

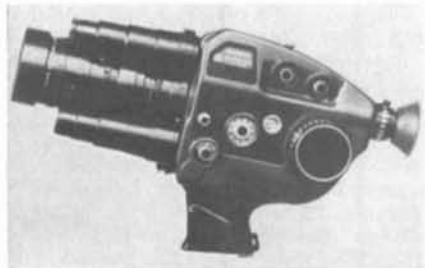
The firm also announced the Cassette Adapter, a device electrically connected to the Infonics Reel-to-Cassette Duplicator. It allows duplication of four one-hour cassettes every four minutes from a master cassettes or master open-reel tape. The Adapter is driven by a hysteresis synchronous motor for speed control and time lock with the synchronous motors driving each cassette being duplicated. The CA-2 Adapter for use with the RC-2 reel-to-cassette duplicator is priced at \$945.



A new Filmosound 8 movie camera designated Model 433 has been announced by Bell & Howell. The new camera, in addition to sound capability, features a two-

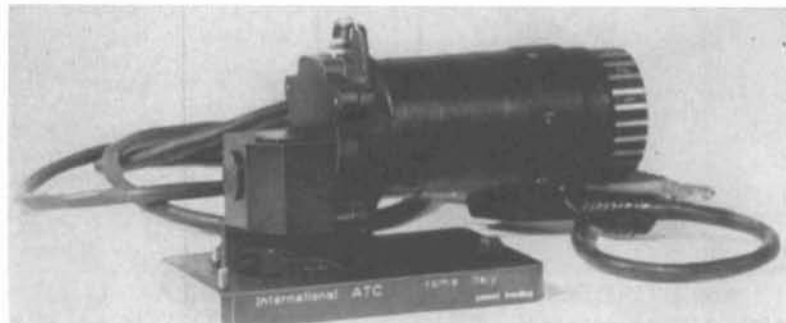
speed power zoom lens with a 5-to-1 range. Other features include a manual over-ride of the behind-the-lens electric eye to enable control of the lens opening for special lighting situations; a choice of either normal or slow-motion filming speeds at 18 or 36 frames/s; a split image rangefinder and an  $f/1.8$  lens. Model 433 is priced at \$199.95.

The Filmosound 8 Model 358S super 8 projector has been announced by Bell & Howell, 7100 McCormick Rd., Chicago, Ill. 60645. The projector can project with either synchronous sound or silent movies. Features include automatic reel-to-reel threading, reverse projection control, still picture projection, variable speed control, rapid rewind and 400-ft reel capacity. Model 358S is priced at \$139.95.



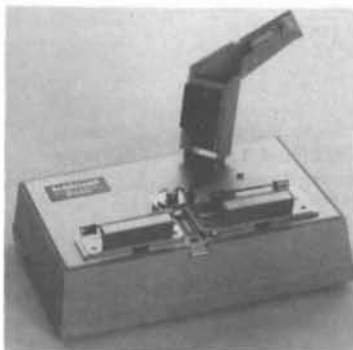
The Beaulieu 4008 ZM super 8 camera has been announced by Cinema Beaulieu, Inc., 14225 Ventura Blvd. Features include a choice of film speeds from 2 frames/s to 70 frames/s. A Macro system is included for macrophotography with focusing up to 1mm from the lens. Other features include automatic exposure control, a variable mirrored shutter and lens interchangeability. The camera is equipped with an Angenieux  $f/1.9$  8mm to 64mm zoom lens. It is priced at \$829.50.

The Raynox, a new super 8 movie camera, has been announced by Camera Specialty Co., 705 Bronx River Rd., Bronxville, N.Y. 10708. Features include an 8:1  $f/1.8$  electric-powered zoom lens with a variable zoom range of 8 to 64mm. An automatic electric eye CdS reflex through-the-lens exposure control is coupled to the lens and provides automatic lens settings with manual over-ride for special effects. The film drive, zoom motor and exposure system are powered by one set of four penlite batteries and a mercury battery. The camera is priced at \$203.50.

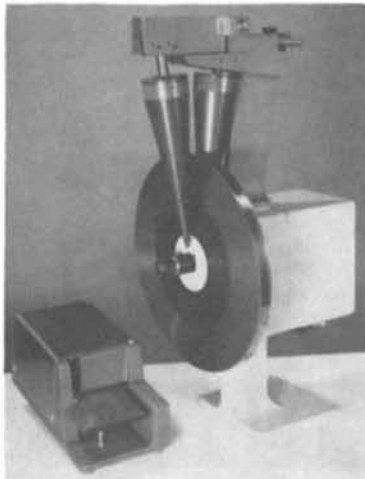


A flat base for the Arriflex 35mm camera has been announced by International Enterprises, Inc., 6446 Santa Monica Blvd., Hollywood, Cal. 90038. The base fits any flat-base tripod. When the camera is mounted on the base, the motor, held by

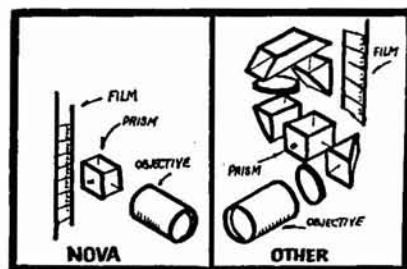
the base in a horizontal position, is geared directly to the camera. The base is designed so that upon removal from the blimp the camera can be handheld. It is priced at \$325.



The Hahnel Collmatic S-1000, a motorized splicer for super 8 film, has been announced by Allied Impex Corp., a division of AIC Photo, Inc., 168 Glen Cove Rd., Carle Pl., Long Island, N.Y. 11514. Both ends of the film are held by one clamp and can be cut simultaneously. Features include a sapphire-coated scraper. The splicer is priced at \$21.95.



A powered film rewind featuring a specialized new motor described as "linear torque" has been announced by Gryphon Corp., 101 East Santa Anita Ave., Burbank, Cal. 91502. The motor is combined with a smooth, stepless variable transformer controller to provide safe and controlled film rewinding. The instrument is designed to be responsive to the operator so that protection to the film equals that of the best hand rewinds. Several models are available for handling film on reels or cores and in various combinations. The price is \$175 to \$330.



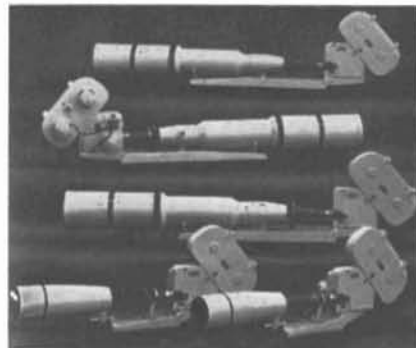
## the very versatile PHOTO-KINETICS "NOVA" high-speed motion-picture camera provides sharper pictures

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**The Lowell Quartz "D" lighting unit**, announced by Lowel-Light Photo Engineering, 421 W. 54 St., New York, N.Y. 10019, features direct focusing and tilting and continuous spot to flood focusing. It provides 200 fc, full flood, at 10 ft with 1,000-W FEL and 1,600 fc at full spot under like conditions. It uses 500-, 750- and 1,000-W single ended lamps. Features include quick-change reflectors and modular accessories. The unit is priced at \$57.50.



**The Simplex 35 Sound System**, designed for high-fidelity sound reproduction in any motion-picture theater with up to 2,500 seats, has been developed by National Theatre Supply Co., 411 Sette Drive, Paramus, N.J. 07652. The soundhead uses a geared belt drive, instead of gears, for a quiet operation that requires no oiling. System changeover and volume control are both built in and mounted directly on the sound mechanism. Other features of the soundhead include solar cell pickup, bracket-mounted exciter lamp, solid sound drum flywheel, oilproof optical

system and direct film scanning to eliminate mirrors and reflectors. The sound system has a solid-state pre-amplifier, a self-contained modular unit assembled as a single printed circuit board that plugs into the lower compartment of the soundhead. The soundhead is priced at \$1,300 per pair. Price range for the complete optical sound system is \$3,000 to \$3,500.

**The Anti-G Adjustable Hanger (HAG)** designed to support luminaires weighing up to 80 lb has been announced by Berkey-ColorTran, Inc., 1015 Chestnut St., Burbank, Cal. 91502. Height adjustment is achieved by an operator at floor level or through pole operation. The hanger is made of aluminum and is available in three models. HAG-6 weighs 14 lb, extends to a maximum of 6 ft and telescopes to a minimum of 22½ in. HAG-10 weighs 15 lb, extends to 10 ft and telescopes to 32½ in. HAG-15 weighs 17 lb, extends to 15 ft and telescopes to 44½ in. The price range is from \$123 to \$144.



**Memo-Q**, a solid-state automatic lighting control system for theater and television, has been developed by Century Lighting, Inc., 3 Entin Rd., Clifton, N.J. 07014. The system is designed to "remember" hundreds of pre-set scenes that can be recalled at will in any selected order at any desired speed. Components include ferrite core memory, integrated circuitry, analog and digital micro-logic.

**Lekolite spotlights**, newly designed for use with a wide range of tungsten-halogen quartz lamps, have been announced by Century Lighting, Inc., 3 Entin Road, Clifton, N.J. 07014. Four basic models include 6-, 8-, 10- and 12-in lenses in 500- to 1,000-W units. Features include heat-resistant stepped lenses with opaque risers in optical combination with flatted ellipsoidal specular reflector, a corrugated-steel body for flow-through cooling and offset yoke to permit full clearance of shutter controls. Price range is from \$58.50 to \$136.

**An infrared linear wedge filter** (950 to 2,000nm) and linear gray wedges (neutral density) have been announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N.Y. 10802. The infrared linear wedge filter, Type IB-200, features evaporated layers of first order interference continuously changing along 200mm length. It is 25 X 200mm and is priced at \$225. Also available are second order of interference linear wedge filters covering the region 400 to 700nm. Type S-60 (25 X 60 mm) is priced at \$42. Type S-200 (25 X 200mm) is priced at \$177.

The linear gray wedges are nonbleaching with minimum light scattering. They are made from massive colored neutral gray glass with parallelism less than 3 min of arc. They are cemented to an opposite wedge of clear optical glass. Prices range from \$135 to \$375 depending on size and quantity.

**A base station microphone** featuring a transistorized pre-amplifier plus a new compression amplifier circuit to prevent over-modulation has been introduced by The Turner Company, 909 17th St., N.E., Cedar Rapids, Ia. 52402. The microphone, designated Turner Model Plus Three, allows the user to set the volume to any modulation desired with a newly designed 10-position volume control. The compression amplifier circuit allows the user to talk close to or far from the microphone without varying the output or transmitter modulation. A newly designed ceramic interior in the Plus Three provides a frequency response range of 300 to 3,000 Hz. The microphone is priced at \$75.

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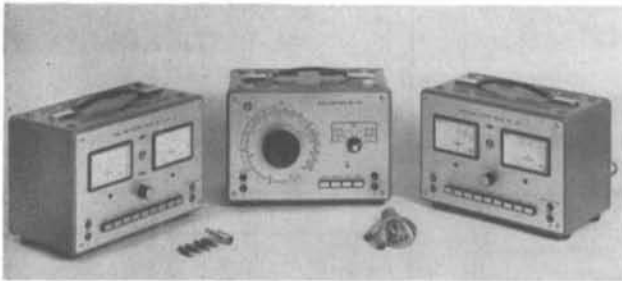
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Two flutter meters and a wave analyzer designed to determine the frequency of the flutter have been announced by Gotham Audio Corp., 2 W. 46 St., New York, N.Y. 10036. The flutter meters (ME-104 and ME-102b) have self-contained 3150-Hz oscillators to permit recording of the test signal as well as calibration of the metering section. Both weighted and unweighted measurements can be made and both meters have an input circuit which allows use of any input level above 30mV without

necessity for level adjustment. A relay in the ME-102b unit prevents erroneous readings from insufficient input signal level and also provides switching between 3000 Hz to accommodate both international and U.S. frequency standards. Model ME-104 is priced at \$360. Model 102b is priced at \$460. The wave analyzer (Model ME-301) provides continuous tuning between 1 Hz and 330 Hz to make possible exact diagnosis of the source of the flutter. It is priced at \$780.

A new Plio-Magic shipping and storage case for 8- by 1-in or 6½- by 1-in videotape reels with NAB hub has been announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, N.J. 07072. The reel is placed on a rigid hub in the case and a positive-action locking system is used to ensure a tightly closed cover. Price range is \$2.40 to \$3.13 per case, depending on the quantity ordered. Also announced was a Plio-Magic container specifically designed to hold one Technicolor type film cartridge.

Model P-70 Adapt-A-Case has been announced by Fiberbilt Photo Products, Division of Ikelheimer-Ernst, Inc., 601 W. 26 St., New York, N.Y. 10001. The Adapt-A-Case features movable, interlocking partitions and padded interior cushioning foam to protect delicate equipment. Model P-70 features girder-rib design to provide strength with lightweight construction. The new model is available in four sizes with prices ranging from \$60 to \$75.

An active, tunable lowpass filter system of modular, plug-in design has been announced by Spectrum Instruments, Inc., 102 Columbus Ave., Box 474, Tuckahoe, N.Y. 10707. Individual modules provide three-pole slopes with adjustable mode available at a panel control. Mode of operation is continuously adjustable from crude R-C through Thompson (linear phase) to Butterworth (maximally amplitude flat). The system, known as Spectrum Type LBT Analog Filter System is initially available with a tuning range of 20 to 200,000 Hz. It is priced at about \$100 per module.

A new MIL-C-26482 type circular connector designed to eliminate conducted and radiated electromagnetic interference has been developed by Amphenol Canada Ltd., 44 Metropolitan Rd., Scarborough (Toronto), Can. The connector was developed under a grant by the Canadian government. Known as the Amphenol 482 series, the connector filter system uses the stress isolated hybrid Poke-Home filter contact. The connectors can be applied wherever blackbox filtering systems are replaced to increase reliability and reduce cost, space, weight and assembly time. The filter contact consists of coaxial elements mechanically assembled (no solder) to a sturdy Poke-Home (front release, rear serviceable) power pin combined to dampen all deflection stresses on the filter. The connector's crimp terminated filter contact requires no special handling or soldering.

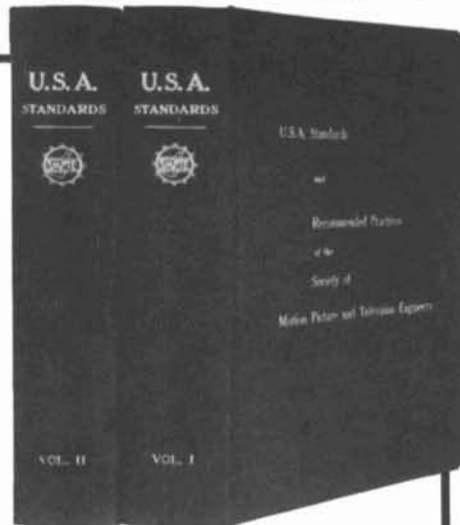
Announced by the Amphenol Industrial Division of the Bunker-Ramo Corp., 1830 S. 54 Ave., Chicago, Ill. 60650, are five miniature pin and socket connectors featuring nearly twice the circuit functions previously available in the same envelope size. Supplementing the firm's Minrac 17 series, the new configurations can be used with conventional #24, #26, and #28 AWG wire.

The FS High Efficiency Electrical Conductive Coating is a process developed by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N.Y. 10802, and used in the firm's High Vacuum Coating Laboratory. The coating has a light transmission of more than 85% in the visible and infrared regions. The cut-off depends on the substrate on which it is applied. The coating has a resistivity of about 5,000 to 20,000 Ω per square, but it can be supplied with 700 Ω per square with the same light transmission. The coating is used to protect optical systems and sensors from EMI interference and it can be used to heat an optical surface to prevent condensation. The coating is applied on substrates, such as fiber optic faceplates, quartz, vycor or glass, including infrared-transmitting filters.

Reflectal folding reflectors and diffusers are produced by Photo Lectronic Research, 436 E. 53 St., Brooklyn, N.Y. 11203. The reflectors and diffusers are available in a variety of sizes, shapes and surfaces to meet various photographic requirements. Prices for folding canopies and umbrella reflectors range from under \$10 for a single small canopy to \$228.50 for a kit including folding frame, light focusing telescopic shaft and choice of interchangeable canopies.

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