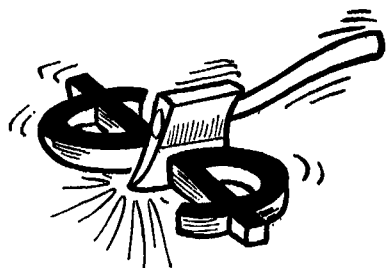


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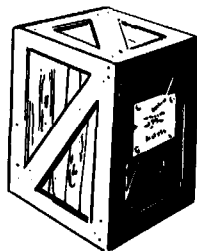
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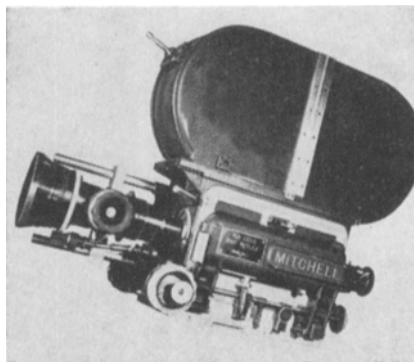
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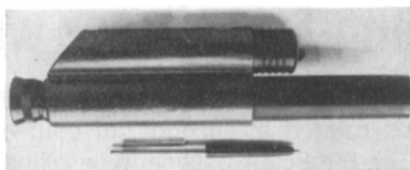
## new products

(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.

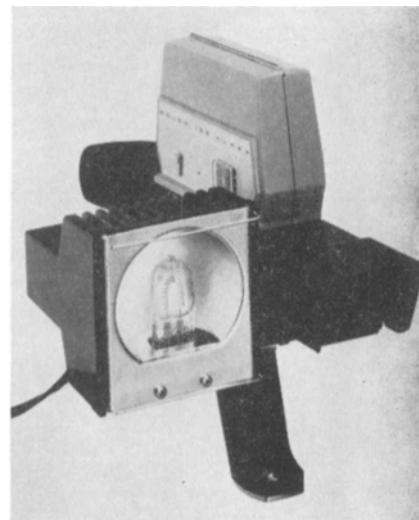


The **BNCR conversion** is now available to all Mitchell BNC owners, according to an announcement by F&B/Ceco, Inc., 315 W. 43 St., New York, N.Y. 10036. The conversion uses the beam-splitter system. The light loss is less than  $\frac{1}{8}$  stop; advantages include quietness of operation, retention of the original camera variable shutter and flickerless viewing for optimum VTR. The conversion takes four to six weeks to complete and the price is \$5,000.



A new focusing instrument (**autocollimator**), manufactured in Munich, Germany, by von der Gonna, has been announced by Ralph Toporoff, 219 W. 81 St., New York, N.Y. 10024, the sole U.S.A. distributor. The instrument, designated Model III, contains a light source, a condenser and a Siemens star which throws a parallel ray through the collimator objective. In use, it is held in a central position at a distance of about  $1\frac{1}{4}$  in. to 4 in. (with opened shutter) from the camera lens to be collimated. The parallel rays from the focusing instrument enter the camera lens and the rays converge towards the focal plane of the picture. Instead of a focusing screen there is a surface reflecting mirror. The rays are reflected by the mirror and pass the camera lens for the second time; in this way the camera becomes an autocollimator. The focusing instrument accepts the rays leaving the camera lens

and brings them to a plane of focus that has been supplied with a graticule. This instrument is capable of tenfold enlargement. For example, if there is an objective-focus of 12.5mm, this gives an enlargement of 200 times. The instrument is priced at \$375.



A new super 8 motion-picture camera called the **Bolex 155 Macrozoom** has been announced by Paillard Inc., 1900 Lower Rd., Linden, N.J. 07036. The camera features a patented optical system that permits focusing from infinity down to 1 in. with no attachments on the camera. The system consists of 17 elements and two prisms and has two essential sections: (1) variable magnification and (2) basic optics. The variable magnification section consists of four elements: (1) a fixed element, very slightly convergent, comprising two lenses; (2) the focusing compensator, a mobile, strongly divergent element comprising three lenses; (3) the zooming variator, a mobile, strongly convergent element comprising four lenses; and (4) a beam-splitting prism that pipes part of the light into the viewfinder. The two mobile elements each describe a different movement. Both are controlled by the zooming knob through the use of rack-and-pinion gearing and a cam. The basic optics section consists of: two cemented doublets with the diaphragm located in between; a roof prism which gives a double reversal of the image; a single lens; and a group comprising three cemented lenses. The camera is priced at \$300.



The **Nizo S 80 Auto Zoom** super 8 camera has been announced by Nizo International

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ME 101/102



The ME-101/102 instruments are intended for the measurement of the wow and flutter content of all types of recording and reproducing devices. They are fully transistorized, simple and convenient to use. The units are particularly suited for production testing and service work in addition to laboratory testing.

An internal signal generator provides the standard frequency of 3150 Hz. For the purpose of static and dynamic recalibration of the measuring unit, the generator can be detuned in a definite manner or can be frequency modulated from the power line.

Tone fluctuations from  $\pm 0.02$  to  $\pm 2.5\%$  for the ME-101 and  $\pm 0.01$  to  $\pm 0.75\%$  for the ME-102 can be read linearly or weighted as quasi-peak values (according to CCIR and DIN). Hence the properties of high quality tape and record playing equipment, as well as those of dictating machines and home equipment come within the ranges of the instruments. The fluctuation meter ballistics conform to the CCIR standard. A second instrument, the "drift" indicator, measures the frequency deviation of the recorded tone from 3150 Hz. Both indicating instruments can be switched to "rapid" or "slow" indication, as desired.

Besides the normal measuring connections on the front of the instruments, the back is provided with a connector for testing home tape recorders and record players. Other connectors are provided for the connection of external filters, oscilloscopes and graphic recorders.

## SPECIFICATIONS

POWER:..... 110-125/220-240V, 40-60 Hz.

### OSCILLATOR UNIT:

Measuring frequency: 3150 Hz (constancy  $1 \times 10^3$  after starting up period).

Output voltage: Approx. 0.4Vrms at test output connector.  
Calibrating device:  $\pm 2\%$  detuning for static and  $\pm 0.3\%$  (60 Hz) for dynamic recalibration of measuring unit.

### MEASURING UNIT:

Input voltage:..... 30mV to 30V, 3150 Hz  $\pm 5\%$ .

Input impedance:.....  $>10$  kOhm.

Measuring ranges: ME-101 -  $\pm 0.02$  to  $\pm 0.5\%$  and  $\pm 0.1$  to  $\pm 2.5\%$ ;

ME-102 -  $\pm 0.15\%$  and  $\pm 0.75\%$ .

Frequency response of fluctuation indication: Linear position, 0.50 to 500 Hz ( $\pm 3$  dB points). Weighted position, according to CCIR standard with external filter as required.

Drift indication:..... Max.  $\pm 4.5\%$ .

Auxiliary output:..... Approx. 20V peak to peak at 22 kOhm.

Dimensions:..... 7" x 8" x 11 1/2".

ME-101 - net price F.O.B. N.Y. .... \$375.

ME-102 - net price F.O.B. N.Y. .... \$395.



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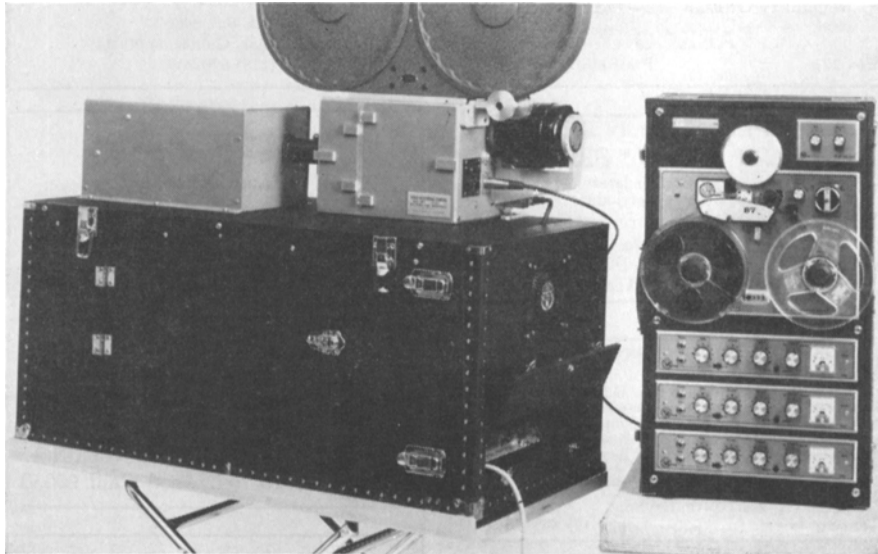
Company \_\_\_\_\_

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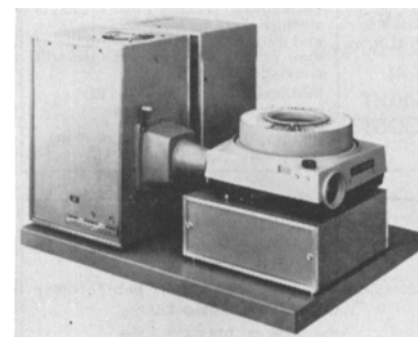
Corp., One Park Ave., New York, N.Y. 10016. The camera is designed to take automatically exposed pictures at speeds ranging from 1 frame/min to 54 frames/s. A built-in automatic timer permits a timing range from 2 exposures/s to 1 exposure/min for special effects, time-lapse series or animation. A regular cable release or electric remote control may be used. A variable shutter allows shooting in extremely bright light and reduces depth of

field and increases definition when taking pictures of fast-moving objects. The camera is equipped with a built-in electro-magnet for convenient remote control. The lens is a Schneider Variogon  $f/2.5$ , 10 to 80mm, 8:1 zoom range. The camera is 2 3/8 in. wide, 9 3/8 in. long (without sunshade) and 8 1/2 in. high with the pistol grip in operating position and 5 in. with the pistol grip retracted. It weighs 44 oz complete with batteries. The price is under \$500.



**The Palmer Television Film Recorder** is available in two new models for recording on regular 8mm or super 8 film. The new recorders are designed to make possible low-cost, direct transfers of closed-circuit television or video-taped material to 8mm or super 8 film, suitable for playback in various types of cartridge-load projectors. The regular 8mm recorder uses prestripped double 8mm filmstock and features a special tape delay which permits direct recording with 28-frame soundtrack retard for use in the Fairchild Mark IV projector. Soundtracks may also be recorded with the normal advance used

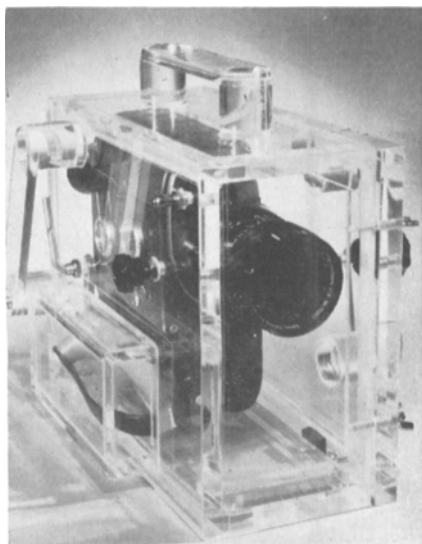
in other 8mm projection systems. A similar tape delay unit is used in the super 8 recorder, which produces super 8 film with optical sound for playback in Technicolor 1000 projectors. The super 8 recorder is also available for recording on magnetic soundtracks. Both models are equipped with the Conrac photographic monitor and built-in exposure meter. Components are housed in a combination cabinet-carrying case. Price for the regular 8mm recorder with magnetic sound is \$12,600. The super 8 recorder with optical sound is priced at \$13,400.



**The Christie Xenolite Carousel Slide Projector**, Model BFL450-46, announced by Christie Electric Corp., 3410 W. 67 St., Los Angeles, Calif. 90043, consists of a modified Eastman Kodak AV900 slide projector assembled on a common mounting base with a Christie Xenolite lamp-house and power supply. It employs a xenon short-arc lamp with an average life of 2,000 hr. It is said to produce about 2,000 screen lm with a standard  $f/3.5$  zoom lens

and up to 4,000 screen lm with a 5-in.  $f/2.8$  lens. The Kodak projector has been optically and mechanically modified to provide a fully integrated system with 5-, 8- or 15-s automatic slide changing as well as remote forward and reverse slide control and remote focusing. The unit is 20 1/2 in. wide, 30 1/2 in. long and 18 1/2 in. high and weighs about 135 lb. The average price is about \$2,000 but the price can be lower or higher, depending on various optional features.

**A new xenon lamp**, called Ozone-Free Xenolite Model CXL451-0, has been announced by Christie Electric Corp., 3410 W. 67 St., Los Angeles, Calif. 90043. The lamp is available in three sizes, 450-W, 10 1/2 in. long; 900-W, 12 1/2 in. long and 1,600-W, 14 3/8 in. long. The firm also has available other xenon lamps, both standard and horizontally operated, and mercury short-arc lamps. The CXL451-0 is priced at \$165. Prices of other lamps range from \$50 to \$1,100.



**An underwater housing** for the 16mm Canon Scoopic camera has been announced by Canon U.S.A., Inc., 550 Fifth Ave., New York, N.Y. 10036. The housing is made of clear acrylic plastic and is fitted with three oversize handles for easy underwater operation. The outside metal shafts of stainless steel have been widely separated to counteract the corrosive nature of seawater and possible galvanic effects and each shaft is topped with an outsize plastic knob. One shaft controls the focus, another operates the shutter and a third works the zoom. There is also an external pressure-compensating valve. The housing is designed for use at a maximum depth of 200 ft. The O-ring method is used to seal controls. It is priced at \$450.



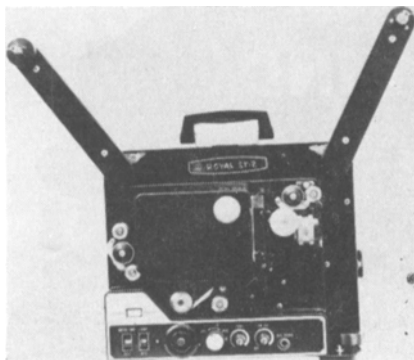
**A ruggedized portable tape recorder** designed especially for shipboard and airborne environments has been announced by Winston Research Corp., 6711 South Sepulveda Blvd., Los Angeles, Calif. 90045. Designated Model P-5000, the recorder provides 2-MHz operation at 120 in./s with SNR exceeding 20 dB measured on an rms to rms basis. The unit requires 24½ in. of vertical rack space and, weighs about 150 lb. It is modular in construction to permit various operating capabilities including reproduce channel selection, automatic sequencing, 7 or 14 tracks operation, monitor capabilities and five speeds of operation. Price range is from \$30,000 to

\$45,000 depending on the configuration and number of channels.

**An amplifier coupler** designed to parallel safely two amplifiers and to maintain system operation if one amplifier malfunctions or fails has been announced by Altec Lansing, a Division of I.T.V. Ling Altec, Inc., 1515 South Manchester Ave., Anaheim, Calif. 92803. The unit, designated 1603A Sequor, uses a balancing-reactor driven from the amplifiers' 70-V outputs. If one amplifier fails the power reactor and internal balancing-resistor circuitry of the device isolates the failed unit from the load to protect the other amplifier and provide continuity of system program material at a reduction in level of 6 dB to the loudspeaker. The Sequor is priced at \$59.25.

**A new combination "swingaway" matte box and filter holder** for all Arriflex 35mm cameras has been designed and built by F&B/Cecco, Inc., 315 W. 43 St., New York N.Y. 10036. The matte box mounts onto the regular Arriflex rod mount and has a hinged shade to allow the cameraman open access to the camera's turret and lenses without having to remove the entire attachment. The matte box has built-in slots for two 3 by 3 filters and a screw lock on the shade to secure it when in the closed position. It is priced at \$185.

**The EEV 1-in. electrostatically focused vidicon tube** has been announced by Visual Electronics Corp., 356 W. 40 St., New York, N.Y. 10018. The new tube utilizes an electrostatic focusing electrode requiring virtually no current, eliminating the need for a focus coil and its associated bulk and high power consumption. The EEV tubes are designated 8134 for monochrome applications, 8134-VI and 8134-VB for color film cameras and 4493, 4494 and 4495B for live color cameras.



**The ST series of self-threading 16mm sound projectors** has been announced by International Audio Visual Ltd., 193 Cayer St., New Westminster, B.C., Canada. The projectors weigh 29 lb and have a 2-in. 1.3 lens. Other features include a 15-W plug-in solid-state amplifier and a 250-W 24-V projection lamp. The ST projectors have a new cold light source and are available with optical or optical/magnetic sound. Prices start at about \$750.

**A standard test pattern** designed specifically for educational television, video recording and closed-circuit television has

# 10 inches at 24 feet

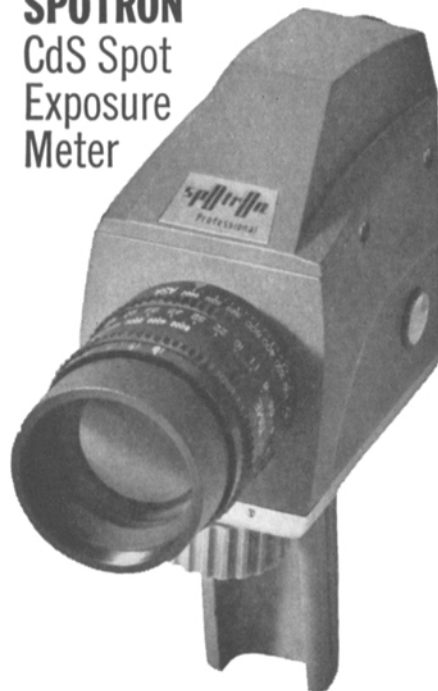
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Accessories include: closeup lenses (20", 12" and 4"), incident light attachment, LV/foot-candle scale, hand grip, and case. Also see the lower-priced Spotron Pentaview at your dealer, or write: Spotron division/Ehrenreich Photo-Optical Industries, Inc., Garden City, New York 11530.

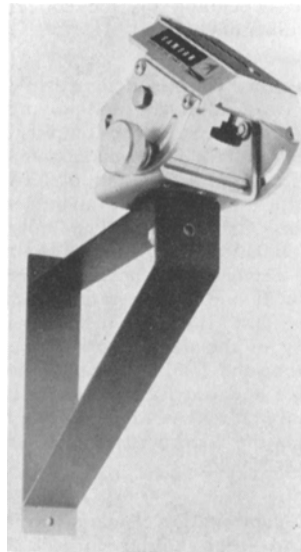
(Canada: Anglphoto Ltd., Montreal 9, P.Q.)

## PROFESSIONAL SPOTRON CdS Spot Exposure Meter



been announced by Video Concepts Corp., Box 138, Brookfield, Conn. 06804. A detailed instruction manual for use by both trained and nontechnical personnel accompanies the test pattern. The manual begins with a complete description of the various geometric figures that compose the standard test pattern. Exact instruction is provided for proper camera and monitor set-up, adjustment of controls, lighting and lens information. Each step required for equipment adjustment, analysis and evaluation is explained. Price of test pattern and manual is \$24.50.

**Downflow Clean Air Modules** for converting existing work stations to clean work stations have been announced by Agnew-Higgins, Inc., 7532 Anthony Ave., Garden Grove, Calif. 92641. The modules are made to straddle existing work benches and space is left between the legs of the modules and the work benches so that there will be no transmission of vibration. The modules are self-contained and require only connection to an electrical source. In operation, clean air is projected downward from the module. The air is deflected outward by the work surface into the aisle areas on both sides of the bench. The modules are available with leg spacing to straddle benches up to 5 ft in width and may be stationed end-to-end to cover rows of benches in any length. The modules are available in 6-ft and 8-ft lengths and are priced at \$1,050 and \$1,150, respectively.



A new **Samson Wall and Ceiling Bracket** for permanent mounting of such devices as TV surveillance cameras, spotlights, TV monitors, etc., has been announced by Quick-Set, Inc., 8121 Central Park Ave., Skokie, Ill. 60078. A choice of four different pan heads may be installed on the top or end of the bracket as required for attachment to wall or ceiling. All heads provide 135° of tilt and 360° of pan. The bracket, of welded steel construction, is 2-in. wide. With the 7291 head (shown above) it is priced at \$33. The bracket alone is priced at \$10.00.



The **Unilux 500**, an ultra-high-intensity electronic flash lighting system, has been announced by Unilux, Inc., 48-20 70th St., Woodside, N.Y. 11377. The system consists of three rack cabinets, each 73½ in. high, and ten Fresnel floodlights 16 in. in diameter with a 55° beam spread and quartz focusing lights. Features include an automatic exposure meter with digital readout of *f* stops and an ASA range of 10 to 1,200, and a pulse computer logic system which will accept any type of input. A pulse sampling mode of operation is said to improve present time resolution factors 30:1, thus at 100 frames/s the time resolution is equivalent to framing speeds of 3,000 frames/s. A timing oscillator generates strobe repetition rates from 1 flash/s to 10,000 flashes/s. Timing accuracy is reported at ± 0.25%. A cathode-ray oscilloscope available for complete system checkout is built in. The system is available on lease from Unilux.

A line of **linear xenon flashlamps** for applications in high-power laser pumping, flash photolysis, copy printers and precision photography has been announced by PEK, Inc., 825 E. Evelyn Ave., Sunnyvale, Calif. The new line features a wide range of design and performance features with input energy capacities up to 10,000 J and average power capability up to 12 kW. Available luminous lengths range from 2 in. to 12 in. The price range is from \$30 to \$60.

A new **VSWR measuring system** called TVS-1 has been announced by Telonic Engineering Co., Box 277, Laguna Beach, Calif. 92652. The system makes direct-reading VSWR measurements in the range of 1.02 : 1 to 3.00 : 1 with any extended range capability over any 17-dB return loss range. The system consists of a Model TSM-2 Rho-Meter, a Model TRB-11 Rho-Tector and calibrated terminations, Models TRM-1-1.40F/C and TRM-1-3.00F/C with individual calibration charts.

Two new **black-and-white films** for use in the Fujica Single-8 movie system have been announced by Ehrenreich Photo-Optical Industries, Inc., 623 Stewart Ave., Garden City, N.Y. 11533. One of the new films, called Fujipan R200 is a high-speed (ASA 200) panchromatic micro-grain film available in 50-ft cartridges. The Fujipan R50 is a micro-grain film intended for daylight use.

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