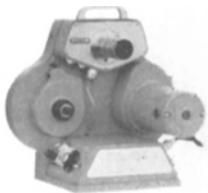


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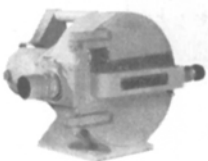
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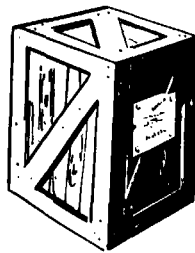
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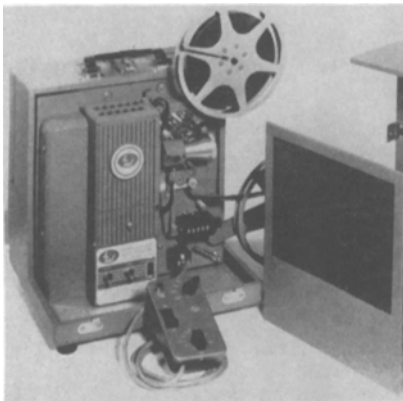
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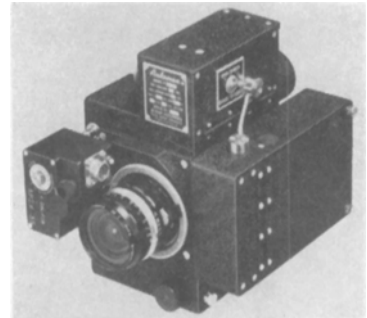


A half-frame motion-picture analysis projector has been announced by Red Lake Laboratories, Inc., 2971 Corvi Drive, Santa Clara, Calif. 95051. The projector, Model RLLW-900 $\frac{1}{2}$, is a stop-action projector with a $\frac{1}{2}$ -frame pulldown for use with 16mm film having 8mm perforations. Features include flicker-free performance, operation at normal speeds with ability to hold on a single frame without loss of light or heat damage to the film, forward and reverse capability and remote control. The projector has a 400-ft film capacity and uses 750- or 1,000-W projection lamps. It weighs 26 lb and is priced at \$995. Another model, RLLW-224A $\frac{1}{2}$, is also available. It is designed for heavy-duty operation and to meet stringent requirements.

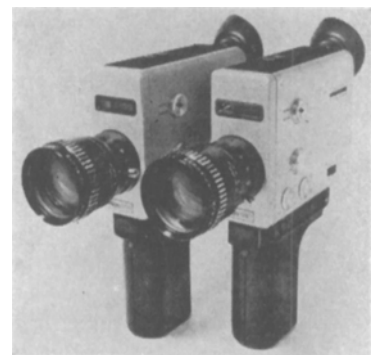
The Rolling Spider, first in a series of studio mounting equipment for professional motion-picture cameras, has been announced by Rank Studio Equipment, P.O. Box 613, Woodger Rd., Shepherds Bush, London, W.12, England. Intended for the smaller film production unit, it is designed to fold up for easy transportation and storage. It is fitted with adjustable tripod clamps that will accommodate most professional tripods. With a tripod fitted to the spider, the camera can move in any direction or can operate from a fixed position. The spider is made of plated steel. It is priced at £49, 10s:

An "instant" camera mount called Cine 60 Snaplok has been announced by Cine 60, Inc., 630 Ninth Ave., New York, N.Y. 10036. Designed for professional use, the mount consists of two main components—

the camera plate, which attaches to the camera's mounting socket, and the base plate, which attaches directly to the camera support. The two components lock together and the camera can be instantly released by pressing the release buttons. Two buttons must be pressed simultaneously to prevent accidental release of the camera. The Snaplok is made from a single block of aluminum. The camera plate and base plate each contain four mounting holes for accurate positioning of the camera. The mount is priced at \$69.50.



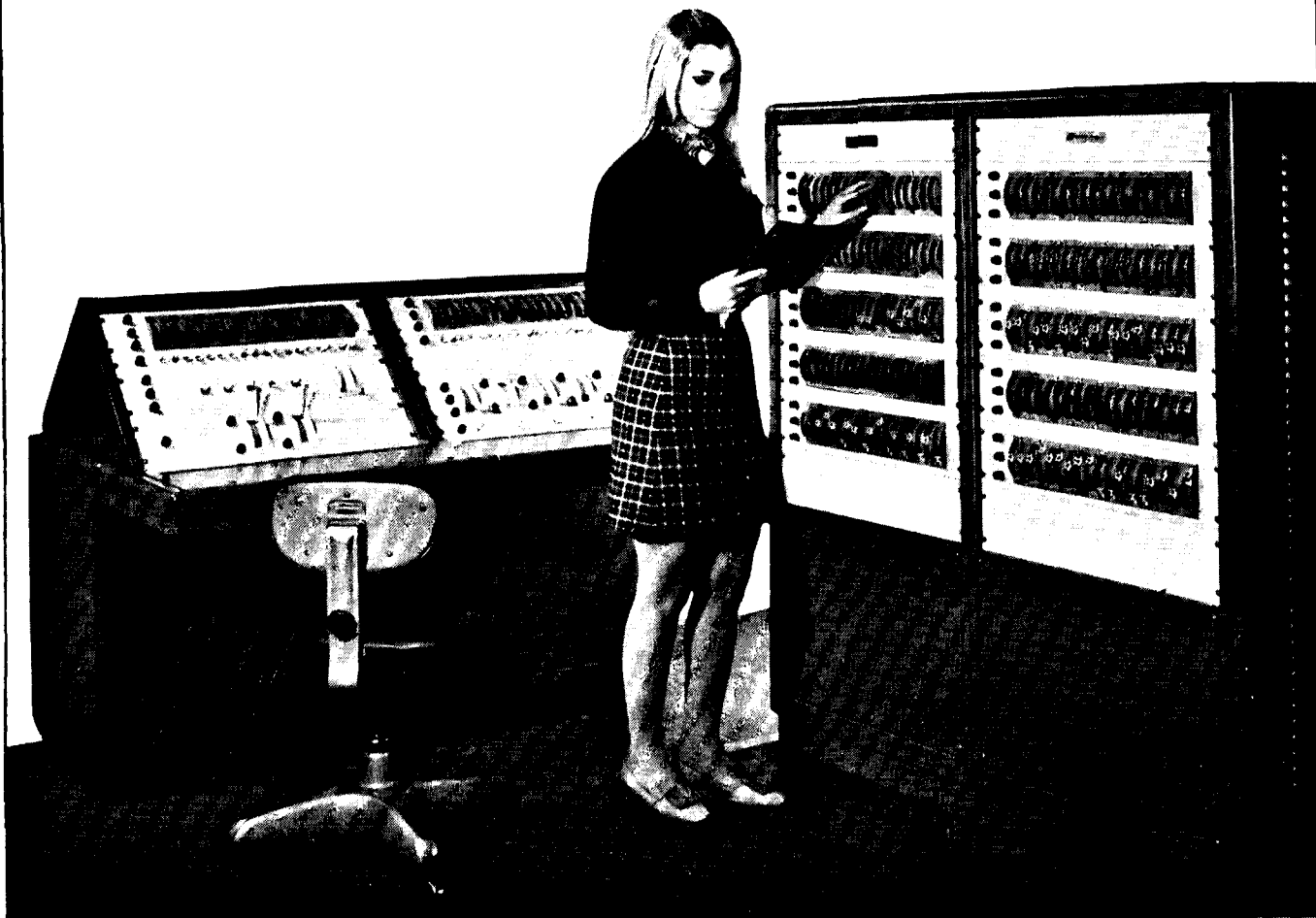
The Apex-35 Automatic Exposure Control for use with Automax 35mm cine/pulse cameras has been announced by Instrumentation Marketing Corp., 320 S. Mariposa, Burbank, Calif. 91506. It can be installed on any Automax camera to accept Auto-Nikkor lenses. The Apex-Automax system operates up to 10 or 16 frames/s for such applications as weather research, horticulture and traffic studies and documentation sequential stills. The camera has a built-in boresight. Some models have a data box which will accommodate clocks, counters and up to 200 lamps for coding. The automatic exposure control unit consists of modular units, including an iris drive unit, sensor lens and electronic control unit.



A new auto-zoom super 8 camera, Model S 56, has been announced by Nizo International Corp., 1 Park Ave., New York, N.Y. 10016. The camera is manufactured by Braun/Nizo of Germany as a companion model to the S 80. The S 56 is identical with the S 80 except for the zoom lens (Schneider Variogon) which has an 8:1 zoom range of 7mm, ultra-wide-angle, to 56mm with a lens speed of f/1.8. The S 80 has a 10mm to 80mm zoom range. Features common to both cameras include built-in automatic timer, 1 frame/min to 2 frames/s time-lapse photography, electronic flash synchronization, variable shutter and electrical remote control. Each model is priced at under \$500.

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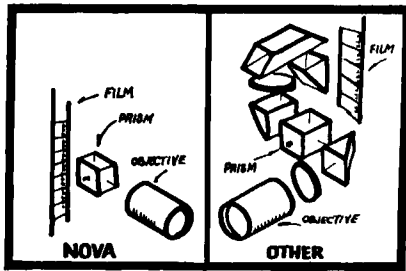


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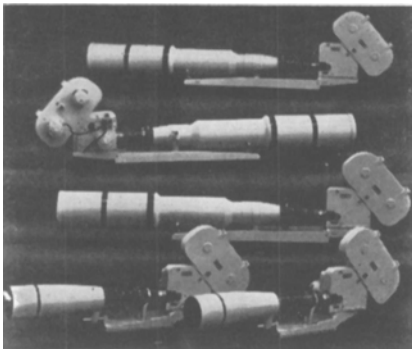
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A new lens support designed to hold the Angenieux 12-120 zoom lens on the Arriflex camera has been announced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood, Calif. 90038. It is designed to prevent unnecessary wear of the lens mount and to hold the lens in a non-distorted zoom. A special shoe is available at no extra charge to hold the zoom arm support on other cameras, such as the Auricon, Mitchell, Milliken and closed-circuit TV cameras. The lens support is priced at \$79.50.

A camera tube developed at Bell Telephone Laboratories for the PICTUREPHONE visual telephone service has been used to produce a "live" x-ray image of a crystal. The experiment was conducted by passing an x-ray beam through the crystal and allowing the scattered radiation to fall directly onto the target of the camera tube. The resulting video signal produces a diffraction image of the crystal on the screen of a cathode-ray tube. A changing pattern, which results when the crystal is rotated, permits study of crystal orientation. The tube has also been used experimentally with x-rays to discover manufacturing defects in the internal structure of small electronic components.

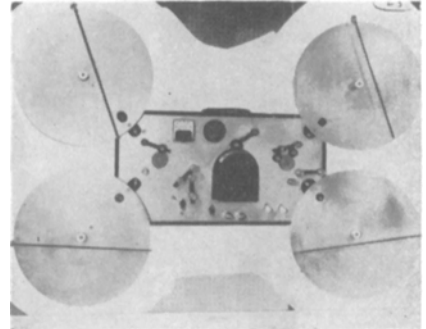
The target structure of the tube, which has been slightly modified for the x-ray imaging experiments, is a silicon wafer a few thousandths of an inch thick, containing an array of over half a million photodiodes in an area less than $\frac{1}{2}$ in. square. The array is fabricated using silicon integrated circuit techniques. The target also serves as the vacuum window.

A new type of 3-in. image orthicon, produced by English Electric Valve Co., has been announced by Visual Electronics Corp., 356 W. 40 St., New York, N.Y. 10018. The new tube incorporates an electron gun assembly designed to use the reflected beam of electrons. The new design results in a smaller, better focused scanning beam which gives improved resolution. Most of the scattered electrons are eliminated from the signal, resulting in a stronger signal with less noise, and the dynode background is eliminated. The tube is available in two versions, P874 and P875. The P874 has a higher target capacitance than the P875. Each tube is priced at \$1,800.

A television sync generator (Model 601B), intended for laboratory use where nonstandard rates and timing format are required, has been announced by Colorado Video, Inc., Box 928, Boulder, Colo. 80302. Binary micrologic is used in the counters. An internal grating generator is incorporated to simplify the adjustment of associated equipment, such as cameras or flying spot scanners. It is priced at \$1,025.

A new Video processor, CVI Model 604, has been announced by Colorado Video, Inc., Box 928, Boulder, Colo. 80302. The device modifies the gray-scale characteristics of a video input signal in order to enhance significant detail in the reproduced image. This is accomplished by means of controls which allow the selection and amplification of a variable width "slice" of

the input signal, and the subsequent mixture of the "slice" with normal video in the desired proportion. The video signal is clamped and blanked and provision is made for sync addition. The instrument also has a simple mixer for the insertion of marking pulses or other video signals into the composite display. It is priced at \$1,950.



A portable contact release printer, called Mark 500, for super 8, 8mm/16mm or 35mm black-and-white film has been announced by Fotovend Corp., 50 Greene St., New York, N.Y. 10013. The printer measures 25 x 13 x 11 in. Film plates and arms can be removed and stored inside the body of the unit for transportation. Features include a 2,000-ft film capacity with operating speeds as high as 300 ft/min. A special offset sprocket arrangement in the printing head is positioned slightly off-center of the printing aperture. The sprocket has the effect of pulling film past the aperture, rather than pushing it, to prevent buckling of the film. Other features include a toothed timing belt transport to prevent backlash, special safety-design hold-downs to permit smooth, high-speed printing of spliced or damaged negatives, and high-torque slip clutches on take-up spindles. The slip clutches can be adjusted while the printer is in operation. Prices begin at \$3,000.



The Spectra Centering Tool and the Tilt Tool for testing vidicon cameras have been announced by Photo Research Corp., 3000 North Hollywood Way, Burbank, Calif. 91502. The Centering Tool is a tubular device about 1 $\frac{1}{4}$ in. long with a diameter of $\frac{3}{4}$ in. When it is inserted into the camera lens mount the user looks through it at the vidicon to determine if the tube is centered. The Tilt Tool is also small and tubular. It has a built-in diaphragm, a light diffuser and a high-resolution test pattern. When the device is inserted in the lens mount and the camera switched on, the test pattern is imaged on the camera monitor to determine needed corrections. The Centering Tool is priced at \$15 and the Tilt Tool is priced at \$36.

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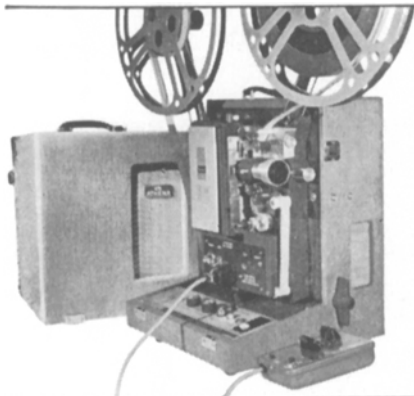
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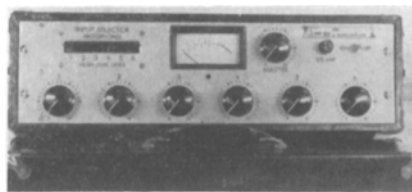
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The **Sonomix**, a 6-channel audio mixer designed especially for location work, has been announced by Martin Audio Corp., 56 W. 45 St., New York, N.Y. 10036. The mixer can operate either on ac or on a nickel cadmium battery power supply. The mixer can also be operated as a rack-mounted unit. Basic components include line mixer with ac power supply, microphone preamplifier with up to six microphones, magnetic tape or phono cartridge preamplifiers; nickel-cadmium battery pack and carrying case. All components are of modular construction. The Sonomix measures 19 X 5 1/4 X 8 in. and weighs 19 lb. Materials of which it is constructed include epoxy-glass printed circuit cards, epoxy-dipped transistors and capacitors and hot-molded resistors and controls. It is priced at \$675.



Random access 2 X 2 slide projectors for television chain integration have been announced as a new series by Spindler & Sauppe Inc., 1329 Grand Central Ave., Glendale, Calif. 91201. Model SLS-TV has a 48-slide capacity from a single magazine. Model SLX-TV has a 96-slide capacity from dual magazines. Both models may be operated in either random access or sequential mode. Operation is controlled by remote-mounting illuminated pushbutton control panel. Features include automatic dousing during slide change, continuous cooling of the lamp and both sides of the projected slide, minimum resolution of 500 lines and choice of 200- or 500-W projection lamps. Model SLS-TV is priced at \$1,892. Model SLX-TV is priced at \$2,733. Also announced was a solid state lap/speed dissolve system called Dynamic Dissolve System. Model 770 is designed to operate with Selectroslide projectors. Model 772 is designed for remote-controllable Kodak Carousel or Ektagraphic slide projectors.

A new solid-state, three-motor stereo tape deck, the 666D, has been announced by Superscope Inc., 8150 Vineland Ave., Sun Valley, Calif. 91352, exclusive U.S. distributor of Sony tape recorders, magnetic tape, microphones and accessories. The new tape deck incorporates Sony's SNR noise reduction system and ESP automatic tape reverse. The SNR circuit is designed to provide noise-free playback of all recorded tapes by automatically reducing the gain

of the playback amplifier during quiet passages when background noise is most predominant. It reduces the noise level while increasing the dynamic range of the recorded material. The ESP system senses the modulations on the tape and when they stop, it automatically reverses the tape direction. An automatic shut-off turns off the power at the end of the reel after a complete reverse cycle has been made. The 666D is priced at less than \$575.

A **lightweight, portable test oscillator**, Model 653A, has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, Calif. 94304. The instrument has a continuous test frequency range from 10 Hz to 10 MHz in six bands. A built-in reference oscillator eliminates the need for a separate reference oscillator in TV applications. For comparison measurements the test frequency output and the reference output may be selected alternately by means of a front-panel switch. Amplitude level of the reference oscillator holds within ± 0.1 dB for 90 days following calibration and an automatic leveling loop maintains the test frequency output within ± 0.05 dB over the full frequency range at the load end of a 6-ft connecting cable. The oscillator can be used within a temperature range of 0 C to 50 C. It is priced at \$990.



A **cassette tape duplicator** designed for ease of operation and economy has been announced by Infonics, Inc., 11650 W. Olympic Blvd., Los Angeles, Calif. 90064. The duplicator produces four 1-hr cassettes every 4 min from a reel-to-reel master tape. The instrument operates at eight times normal tape speed and duplicates all tracks simultaneously, producing cassettes ready for playback. The duplication process is performed directly on blank tape cassettes. Slave units are also available to work in conjunction with the master cassette duplicator. Each slave duplicator produces an additional eight cassettes at a time. The master duplicator is priced at \$2,895 and each slave is priced at \$2,495.

Fimosound 8 is a new system for home movie-making announced by Bell & Howell 7100 McCormick Rd., Chicago, Ill. 60645. The system consists of three basic pieces of equipment, camera, sound-synchronizing cassette tape recorder and projector. Each unit in the system can be used independently. The system uses either one of two Autoload cameras: Model 442, priced at about \$159.50; or Model 436, priced at about \$129.95. Both cameras have the Focus-Matic for automatic focusing, the Optronic electric eye and $f/1.9$ lens with 11 to 35mm zoom range. Model 442 also has a built-in battery tester and a film footage counter in the viewfinder. The projector for the system is Autoload Model 458 with super 8 and regular 8mm film compatibil-

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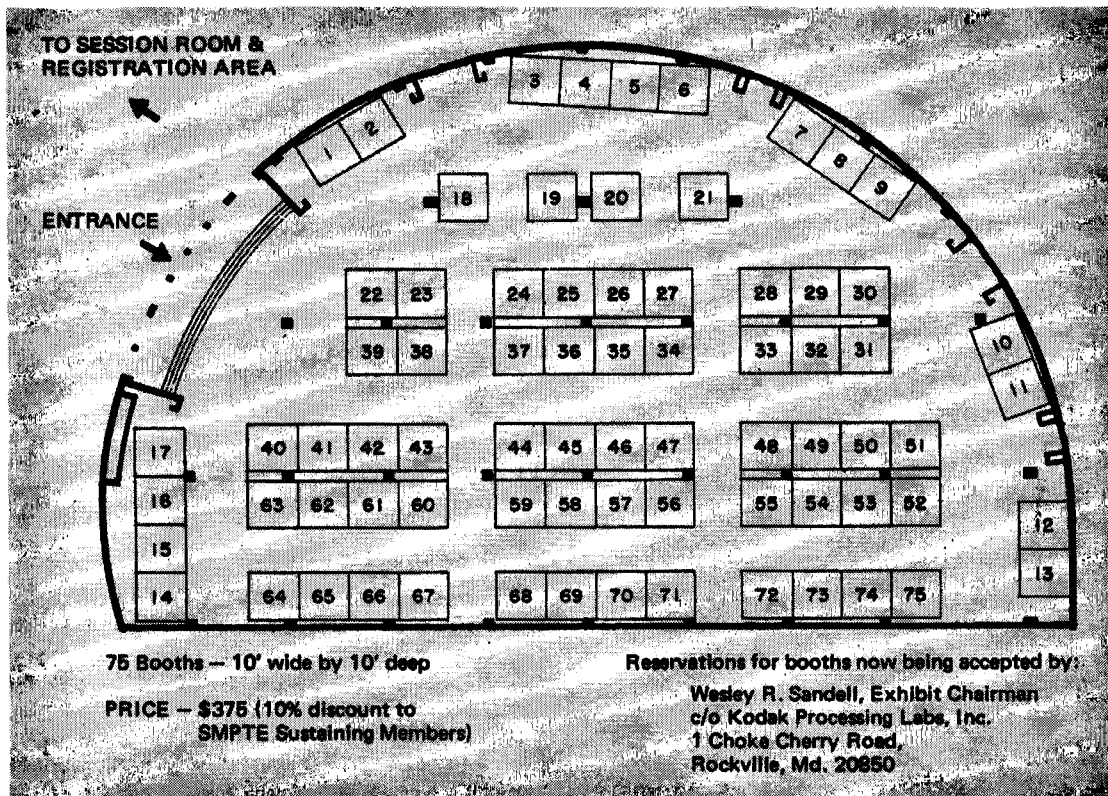


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ity. With *f*/1.5 lens it is priced at \$169.95; with 15-25mm *f*/1.6 zoom lens, the projector is priced at \$189.95. The Filmosound Model 450 recorder is used for both movie sound recording and playback with 4-min tape cassettes. It is priced at \$99.95.

The Set Light, a lighting fixture designed to provide smooth and flat background lighting with sharp barndoor cutoff has been announced by Berkey-ColorTran, Inc., 1015 Chestnut St., Burbank, Calif. 91502. The fixture weighs less than 5 lb and accommodates tungsten-halogen quartz lamps, 500 to 1,000 W, operating at 120 or 230 V ac or dc. It is 4½ in. deep and can be stand-mounted, supported by grip equipment or positioned for floor use. Model LQB-BA, stand-mounted, is priced at \$54.90. The hanging model, LQB-BA/TV, is priced at \$58.

An automatic thermal unit, Model 120A-20, for heat control in any type of tanks or sinks, has been announced by Frigid-heat Industries, 1401 21st Ave. South, Nashville, Tenn. 37212. Heating or cooling is by means of a reversible heat pump. Solutions are chilled or heated by connecting the inlet and the two outlet plastic hose lines to the jacket or vat to be thermally controlled. Circulating lines and pump are outside and moving parts are hermetically sealed in oil. Temperature range is 55 to 100° F with a variation of no more than ½° F. Alternating signal lights are included for a check on temperature and capacity. The unit is priced at \$1,545.

A special gray-tint stock called TV Script-

Pac designed for newscasters and script readers has been announced by Woodward Associates Inc., P.O. Box 22, Fayetteville, N.Y. The gray tint eliminates "camera" flare and the "quiet" stock reduces audio noise. A package of 1,000 Script-Paks is priced at \$50. Larger packages are priced less per thousand. A package of 50,000 Script-Paks is priced at \$23.50 per thousand.

FSC Polished Crown Glass, announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N.Y. 10802, is water-clear, with transmission from 3,300 to 5,300 Å of 99%, less 8% for surface losses and absorption. In the making of masters by the evaporation of chromium followed by photo resist, it has been determined that to obtain the best results, one side of the substrate must be optically surfaced to result in a flatness of 1 to 3 fringes over a 2- by 2-in. area, so that the image will be in sharp focus over the entire substrate surface. The FSC Crown Glass has been designed to meet these requirements. Master Masks, optically flat and uncoated with edges ground, 2- by 2- by 0.160-in. are priced at \$9.00 each in lots of 100. Master Masks, chromium plated and pinhole-free with optical density of 3.0 to 4.0 are priced at \$17.50 each.

New gel filter holders for the 10 × 12 Angénieux lens have been announced by Birns & Sawyer, Inc., 6424 Santa Monica Blvd., Hollywood, Calif. 90038. Five slip-on rear gel holders are packaged in a dust-proof box. A cutting template is used for dupe and spare gels. Price: \$29.95.



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