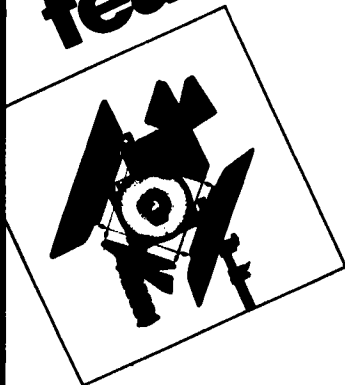


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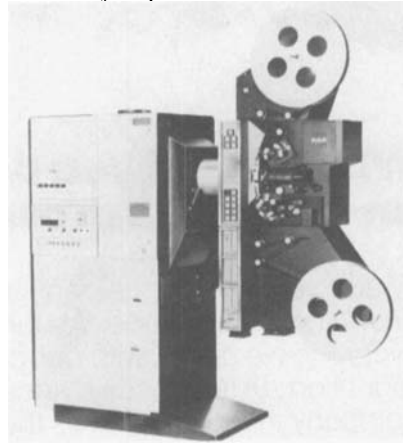
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New Products & Developments

Further information about these items can be obtained from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturer's statements, and publication of these items does not constitute endorsement of the products or services.



A 35mm direct projection system, designed for large screen projection in film re-recording suites, sound replacement rooms, and other film post production applications, was announced by RCA Photophone Systems, Camden, NJ 08102. Model FR-35DP is equipped with a xenon lamp-house console ranging from 750 - 4500 W. It can function as a stand-alone master system in multiple machine sound re-recording setups or can be locked as a slave to either film or videotape machines.

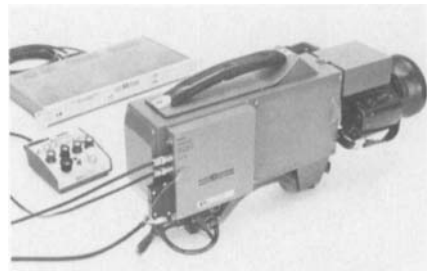
The FR-35DP can be integrated into film and videotape electronic editing systems. Automatic insertion of sound sequences, auto-looping, or dialogue replacement, properly timed with picture, are readily accomplished with the new system. Features include servo driven motors for operating film feed sprockets, incremental (pull-down) sprockets, and rotating shutter. The system meets worldwide standards, with no conversion needed to adapt the projector for operation at 50 or 60 Hz and at 24 or 25 frames/s. The projector accommodates all 35mm film reel sizes up to 3000 ft. The price is \$33,000 to \$35,000 depending on lamp size.



A lightweight color video camera, Model WV-3320, was announced by Panasonic, One Panasonic Way, Secaucus, NJ 07094. When

used in combination with Panasonic's Omnivision II VHS recorders it provides a low cost, high quality, color video recording system. It is primarily designed for outdoor applications using the VHS portable recorder NV-8400 and can be used indoors for simple recording with VHS Models NV-1000A, NV-8200, or NV-8310 using an optional ac adaptor.

The camera uses a 1-in vidicon tube and a zoom lens with automatic light control. The tube features low lag and low retention of after-images. It produces 250 lines of horizontal resolution with illumination of 140 fc at $f/4$. The viewfinder, mounted on the top of the camera, is a 1 $\frac{3}{8}$ -in cathode ray tube which doubles as a monochrome playback monitor. Also located in the viewfinder are light intensity indicators and a tally light. The WV-3320 also features a built-in electret condenser microphone; 17 - 102 mm, $f/2$, 6:1 zoom lens with an auto/manual switch; a four-position electronic color temperature conversion switch; and internal sync, factory-set white balance, and manually adjustable red and blue levels. The price is \$1345.



The Co-Ax Control, a sophisticated digital remote system for ENG/EFP cameras, has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The system consists of a mini-CCU, a digital encoder (standard 19-in rack mounted), and a camera-mounted decoder. The digital encoder is designed to accommodate two mini-CCUs to control two separate cameras, each equipped with its own decoder. The new system eliminates the need for bulky multicore camera cable by using a single, lightweight, and relatively inexpensive coaxial cable between the digital encoder and the camera mounted decoder to provide reliable remote control for ENG/EFP cameras in the field. The Co-Ax control system can be used for extended-run situations such as sports events, political rallies, etc. The Co-Ax system is priced at \$7500.

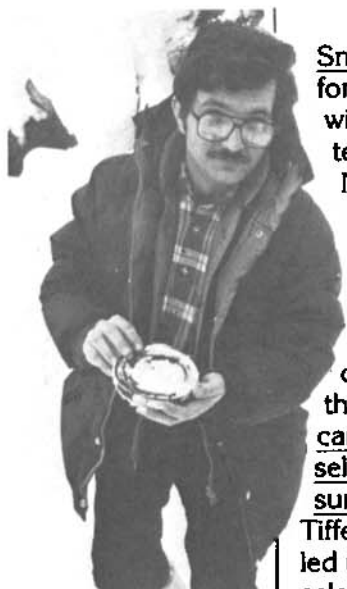
The Head-Up Display (HUD), Model 655, television camera has been announced by Edo Western Corp., 2645 S. 300 West, Salt Lake City, UT 84115. The camera is designed to operate in the cockpits of advanced military aircraft as well as providing an "out the window" recording of the Head-Up Symbology superimposed on the "real world" view. It is also applicable to special aircraft instrumentation and recording operations which may be required during airborne equipment test and evaluation. A



Cameraman Robert Reece on camera, director Harold Tichenor foreground. Sno-Cat, Glacier National Park, Canada

“This Tiffen filter fell into the steel tracks of a snowmobile churning at 20 mph. It was remounted and shooting continued!”

Harold Lee Tichenor, Director “The Snow War”



Director Harold Tichenor holding ring/hood

Photos: Trig Singer

“Our recent film, The Snow War, produced by Cinetel for Parks Canada, is concerned with the avalanche control team in Rogers Pass in Glacier National Park.

“The production was carried out under incredibly adverse conditions: extremes of cold, wind and precipitation. Our selection of equipment was made with this in mind. For all four cameras, we exclusively selected Tiffen filters, rings and sunshades. Our experience with Tiffen filters on past productions led us to this choice. This selection proved sound throughout the rigours of the production.

“On one occasion, we were shooting a scene from a Sno-Cat—a powerful, overgrown snowmobile capable of hauling a ton of men and gear up incredible alpine terrain.

“Inadvertently, the 85 filter, ring and collapsible sunshade were dropped into the steel tracks of the Sno-Cat, churning at 20 miles per hour. Behind, a sledge and four skiers were being towed.

“After stopping and a search, the Tiffen filter assembly was recovered and cleaned of snow. The total damage involved was several small abrasions to the filter ring’s finish caused by the steel edges of skis skiing over it.

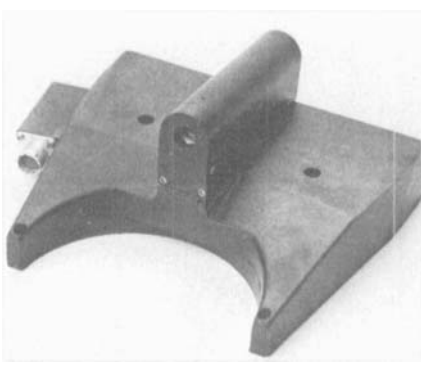
“The assembly was remounted and shooting continued.”



Harold Lee Tichenor, Director “The Snow War”

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built-in field rate multiplexer allows for simultaneous recording of radar data as well as symbology projected on the HUD. The 655 is designed to operate as a substitute for the HUD film camera providing the advantage of magnetic recording compatibility and instant replay thus eliminating time delay in processing film. The 655 is also compatible with standard viewing equipments normally available in training centers, laboratories, and other airbase facilities. The 655 utilizes an FPS (electrostatic) vidicon and miniaturized electronic circuits which provide for rapid mechanical interchangeability with existing film cameras. The modular design permits quick and simple field repairs. Shown above is the 655 camera combined with a vidcotape recorder.

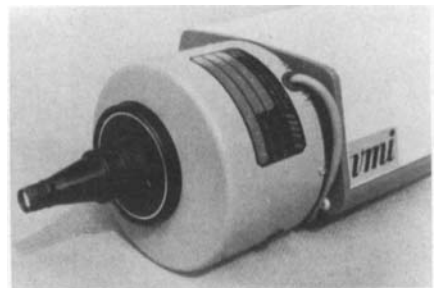
Two new ENG/EFP zoom lenses, the 22× and the 17× (shown above) have been announced by Fujinon Optical Inc., 672 White Plains Rd., Scarsdale, NY 10583. The lens has



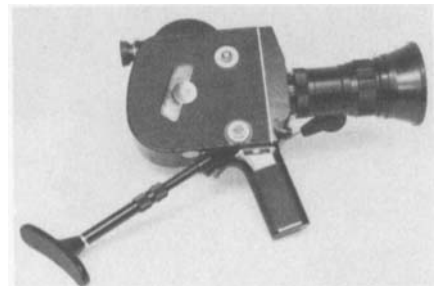
an $f/2.0$ aperture and a built-in 2× extender which can increase the 12.5 – 275 mm focal length to a range of 25 – 550 mm. This lens weighs 3.8 kg, permitting handheld use. Features include servo controlled zoom and iris with manual overrides and adjustable back focus for faster lens changing. The price is \$11,750. A number of optional accessories for conversion to studio use are available.

The 17× lens has a fast $f/1.7$ aperture and a built-in 2× extender giving it a total range of 9 – 306 mm. The extreme wide angle can be increased with an optional adaptor to 7 mm and the tele-adaptor gives it a maximum 550-mm focal length. This lens weighs 2.5 kg. It is priced at \$9700. A number of optional accessories are available.

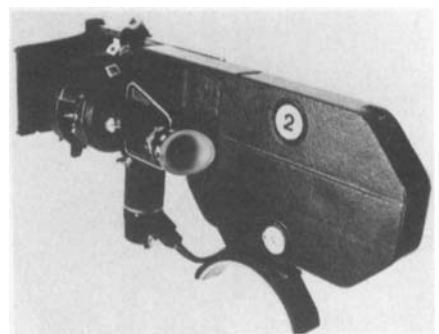
A pinhole lens with an auto iris for use with $\frac{2}{3}$ -in Newvicon, Silicon, SIT, and ISIT television cameras has been announced by Visual Methods Inc., 35 Charles St., Westwood, NJ 07675. Designated the AIF 1125, the pinhole lens has a manual focusing ring and an 11.5-mm focal length. The iris is controlled by the video signal



from the camera. The lens can view through a $\frac{1}{2}$ -in to $\frac{1}{16}$ -in diameter hole under low light levels. The automatic iris feature enables the camera to compensate for changes in light levels up to 300,000:1. The price is about \$995.



The Krasnogorsk III, a 16mm silent camera built in the Soviet Union for use in film and documentary units, is available from Paul Simmon Ltd., 2 Market St., Halifax, W. Yorkshire, England, according to a recent announcement. The camera, a rotating mirror reflex, has a TTL exposure meter and is supplied with an $f/1.9$ Meteor lens having a 5:1 zoom range of 17 to 69 mm. The zoom control is manually operated. A spring wound motor provides a speed range of 8 to 48 frames/s and allows a maximum run on a full wind of approximately 20 s at 24 frames/s. Exposure is controlled through the lens via a semi-automatic meter powered by a PX 640 battery. The camera is priced at £444. The price includes such items as an adjustable shoulder pod, pistol grip, etc.



Action magazines, low profile shoulder magazines, designed for filming in confined situations, such as automobiles, aircraft cockpits, and similar areas as well as for conventional assignments, have been announced by Alan Gordon Enterprises Inc., 1430 N. Cahuenga Blvd., Hollywood, CA 90028. They are available in two models, one for the Arriflex 35 IIC and the other for the Arriflex 16BL camera. The magazines have a 400-ft film capacity. The lid has a two-step light trap and the take-up axle runs on ball bearings. The magazines have built-in footage and meter counters. Features include low noise level said to match that of standard Arri magazines. Prices for the Action magazines start at \$1815.

LOOK HERE...

For the first time, a new, fully developed, professional camera lens is available. It is the first lens in the world to be designed for use in both 16mm and 35mm cameras. It has a built-in 2× extender which can increase the 12.5 – 275 mm focal length to a range of 25 – 550 mm. This lens weighs 3.8 kg, permitting handheld use. Features include servo controlled zoom and iris with manual overrides and adjustable back focus for faster lens changing. The price is \$11,750. A number of optional accessories for conversion to studio use are available.

FREE

Information on this new lens is available from A. W. Vincent Associates, Inc., 672 White Plains Rd., Scarsdale, NY 10583.

A. W. VINCENT ASSOCIATES, INC.



How to get as much switcher as you need without getting switched off by the price.

Switch to Panasonic. Because Panasonic gives you your choice of four versatile switchers, special effects generators (SEGs). So, depending on the size of your studio and your budget, you only have to buy as much switcher as you need.

For broadcast studios and production control centers, there's the AS Series. The AS-6000, with seven program inputs, 14 wipe patterns and a fully adjustable colorizer, lets you add color to your supers or fade to a solid color. And it has many other features that you have to see to believe, especially at such a low price - only \$6,000.*

You have to see the AS-6100 to believe it. It's the most advanced Panasonic SEG. It features 10 program inputs, two external key inputs, two downstream key inputs, and three auxiliary inputs for film chains and VTR's. 17 inputs in all. Plus a "spotlight," downstream mixing for up to three cameras, and a fully adjustable colorizer. Yet the price is only \$7,500.*

For creative color production in smaller studios, the

Panasonic WJ-4600A at \$2,095* is an excellent choice. And for more versatile special effects, the WJ-5500A at \$3,950* is even better. Both units offer important features. An internal EIA RS-170A sync generator with genlock, color bar generator and vertical interval switching. Plus internal and external keying. And black burst for fades to black.

The WJ-4600A has six program inputs, six wipe patterns in the normal/reverse mode, two effects buses with a fade-wipe lever, and a preview/program bus.

The WJ-5500A has even more. Eight program inputs. Downstream mixing for three video signals. Nine wipe patterns, a wipe positioner and your choice of sharp or soft edges. Plus normal, normal/reverse, and reverse modes.

All four switchers are compact, self-contained and have illuminated pushbuttons.

Take a close look at them. And you'll get switched on to Panasonic.

For more information, write: Panasonic Company Video Systems Division, One Panasonic Way, Secaucus, N.J. 07094. In Canada: Panasonic Video Systems, Department, Mississauga, Ontario.

*Panasonic recommended price; but actual price will be set by dealers.

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WJ-5500A

WJ-4600A



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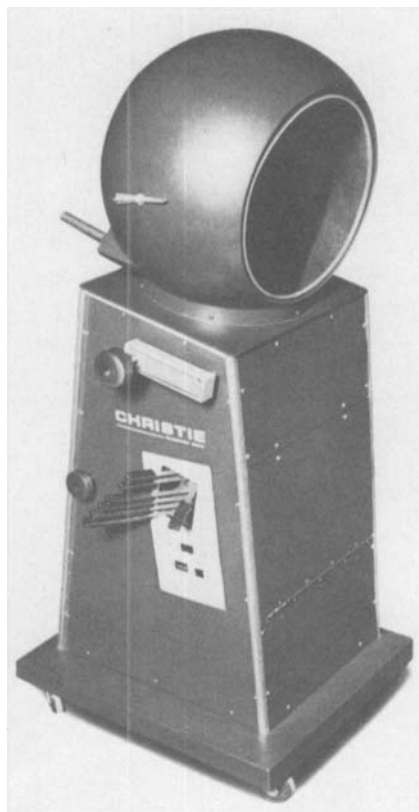


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A super-8 movie camera, Model 881 PMA, was announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Drive, Great Neck, NY 11020. Built-in features include: an intervalometer (Variometer) for time-lapse photography — frame timing can be adjusted from fractions of a second to a full minute; a panoramic macro aspheric lens attachment offers an effective focal length of 4 mm with a 69° angle of view and no barrel distortion or fish-eye effect; normal filming speeds of 18 and 24 frames/s, 9 frames/s for fast motion, 45 frames/s for slow motion, and single frame for animation effects; and a scene timer predetermines the actual projected length of a scene. The 7-56 mm Macro Viennon *f*/1.8 zoom lens focuses continuously from the front surface of the lens to infinity and is multicoated for maximum light transmission, contrast, and resistance to flare. The price of the 881 PMA is \$599.95.



Two metal halide follow spotlights, Big Hal (1200 W) and Little Hal (575 W), were announced by Christie Electric Corp., 3410 W. 67 St., Los Angeles, CA 90043. Both utilize a metal halide bulb which provides a daylight color of 5600 K. Big Hal (shown above) has a throw of 150-400 ft. Little Hal, from 75-200 ft. Both can project at an upward angle of

50° and a downward angle of 60°. The horizontal swing is 360°, with no cable interference. Other features include a six-color built-in boomerang, rapid automatic ignition system, durable nichrome iris, and a safety interlock. Hal spotlights operate on 115-V, 20-A ac outlets. The price of the Big Hal is \$5500, the Little Hal, \$3495.



Bubbelite, a soft light for motion-picture and television field production, was announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. Lightweight and portable, it can be readily set up in less than 30 s. Bubbelite can be used to fill shadow areas at or near eye-level or as a key light when feathered soft and deeply graded shadows are desired. Each Bubbelite head uses two 600-W tungsten-halogen single-ended lamps. Light intensity of each head is 185 fc at 8 ft and area coverage is more than 80 ft² at 8 ft. The umbrella-like reflector featured on the 1200-W Bubbelite provides the equivalent of a 2000-W throw in a standard soft light. Each Bubbelite kit consists of two complete Bubbelites (heads, stands, and cables) packed in a sturdy fitted carrying case, and weighs less than 12 lb. The complete kit is priced at \$500.



A new series of Lekolite® spotlights have been announced by Strand Century, 5432 W. 102 St., Los Angeles, CA 90045. There are

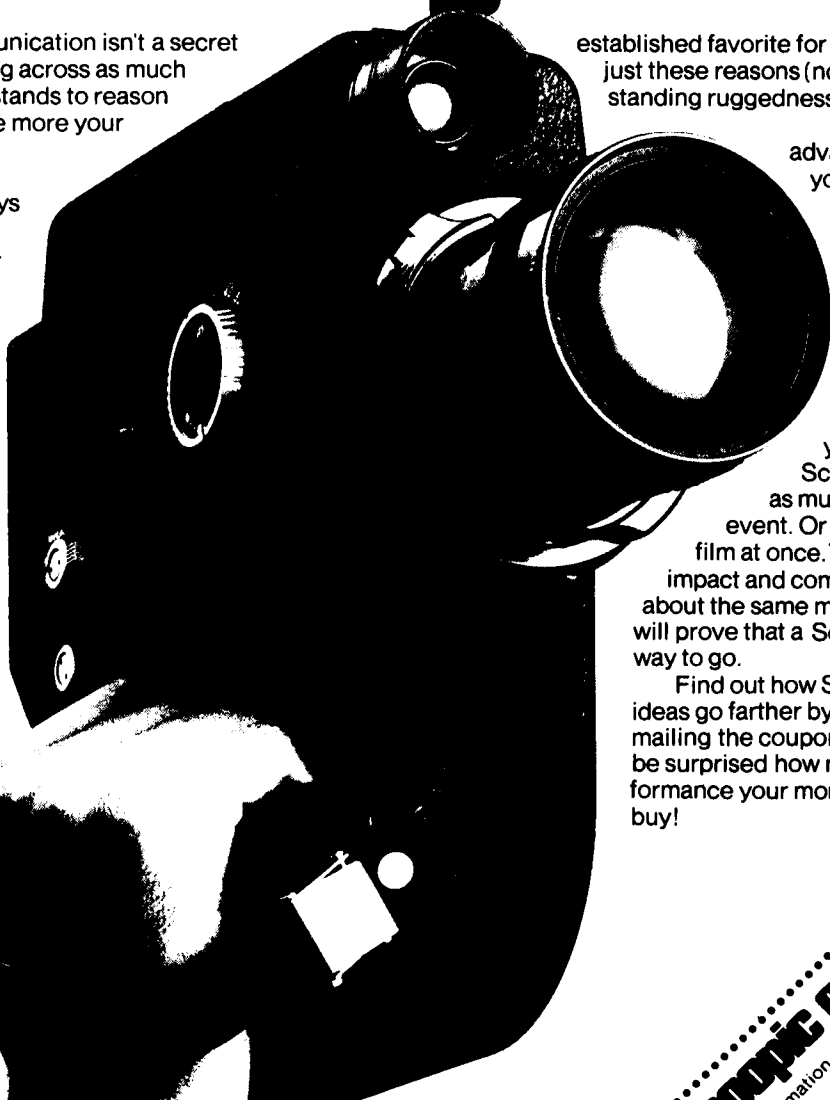


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Effective visual communication isn't a secret art. It comes down to getting across as much information as possible. It stands to reason that the more you show, the more your message hits the mark.

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Some things are easily broken...

...not the CO90!

The CO90 miniature condenser microphone was designed by engineers who understand the "real world" requirements of a studio microphone. They've included things like cable assemblies that can be easily and inexpensively replaced in the field. But the CO90 has one feature that no other manufacturer can offer — the Electro-Voice warranty.

Electro-Voice backs up the CO90 with the only two-year unconditional warranty in the business. That means Electro-Voice will repair or replace your CO90 when returned to Electro-Voice — no matter what caused the damage.

Electro-Voice can offer that type of warranty because the CO90 was designed to withstand the rigors of professional use. If your application demands a miniature condenser microphone that can take less-than-gentle treatment, the CO90 is the one you should buy.

EV Electro-Voice
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seven different models in the series accepting 500-, 750-, and 1000-W lamps. The lamps are axially mounted, providing easy rotation. A new focusing mechanism allows the operator to adjust the lamp easily for a flat distribution for pattern projection, a peak distribution for maximum intensity, or anything in between. One knob locks the assembly into place or allows it to be removed completely for relamping. Each of the new Lekolites have four heavy gauge stainless steel framing shutters positioned in separate planes. The handles of the framing shutters are cool phenolic to allow the operator to adjust them while the unit is at its operating temperature. The new Lekolites are equipped with double flatted Alzak reflectors, yokes, and C-clamp. Beam spread on the luminaires ranges from 10° to 60° depending on the model chosen. Prices for the 6-in Lekolites begin at under \$200 each.



A 6-in, 750-W Fresnel spotlight (shown above) and a 4.5-in, 500-W ellipsoidal reflector spotlight have been announced by Berkey Colortran, 1015 Chestnut St., Burbank, CA 91502. The Fresnel spotlight has a high transmission lens providing a 14.7-ft-diameter field at 10 ft in flood focus and a 10-in-diameter field at 40 ft in spot focus. It accepts a range of 500- and 750-W, 3200 K tungsten-halogen lamps and can accept 250-, 500-, and 750-W, T-20 incandescent medium prefocus base lamps. The spotlight weighs 9.75 lb. The price is \$85.

The ellipsoidal reflector spotlight, called the Mini-Ellipse, designed for theatrical, photographic, and television applications, has an unusual lens barrel design permitting a 50°, 40°, or 30° field angle to be achieved by the movement of one lens within the lens barrel. The Mini-Ellipse accepts 250-, 400-, and 500-W, 120-V mini-can screw base lamps; 220- and 240-V mini-can screw base lamps are also available for use in high voltage applications. The unit employs a new shutter design permitting up to 180° angulation between adjacent shutters, thus eliminating keystone problems. An optical alignment lamp control permits rapid adjustment of the lamps and control of light distribution in the field. The unit weighs 8.75 lb and is priced at \$135.

The Calrec Sound Field Microphone System consisting of the microphone itself, Type CM 4050, and the Sound Field Control Unit



(shown above), Type CS 5014/3, has been announced by Calrec Audio Ltd., Hangingroyd Lane, Hebden Bridge, Yorkshire HX7 7DD, England. The microphone consists of a closely spaced array of capacitor capsules in the form of a regular tetrahedron within a single housing and having head amplifier circuitry incorporated in the stem in the usual way. It is based on the mathematical theory of sampling on the surface of a sphere developed by Michael Gerzon at Oxford University. The microphone signals are received either by conventional balanced studio lines or by means of a single multicore cable. Controls are provided which allow any first-order microphone characteristic to be synthesized, i.e., the complete range from omnidirectional, through sub-cardioid, hyper-cardioid, and figure-eight.

The Sound Field Control Unit receives A-format signals from the head amplifiers via a multicore cable. By means of special circuitry it converts the A-format signals to four equalized signals at line level for the normal range of program level reaching the microphone. These four signals, known as B-format, are proportional, respectively, to the three orthogonal components of pressure-gradient, namely left-minus-right, front-minus-back, and up-minus-down, plus an omnidirectional pressure signal. The signals are suitable for direct recording or can be subject to further processing or encoding in the Sound Field Control Unit. The system is priced at about \$8000.



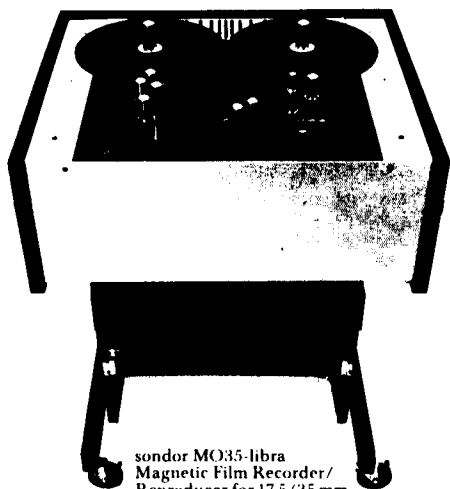
A unidirectional dynamic microphone, the AT-816, has been announced by Audio-Technica, Inc., 33 Shiawassee Ave., Fairlawn, OH 44313. Supplied in stereo matched pairs the microphones can be used in tape recording. The price of \$60 per pair includes stands, cables, and quarter-inch phone plugs.

A series of audio consoles, called the BC-300, was announced by RCA Broadcast Systems, Camden, NJ 08102. The six, eight, and ten fader, dual channel stereo consoles in the series come equipped with four inputs per mixer. Features include programmable remote start, programmable peak LED indicators, and programmable monitor muting. The price of the BC-300 varies from \$3950 to \$7350 depending on the number of faders and mono or stereo.

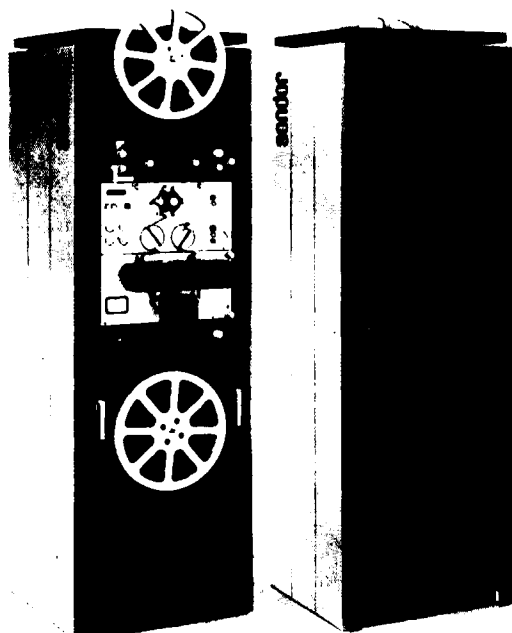
A new audio mixer, the 400L, has been announced by Interface Electronics, 3810 Westheimer, Houston, TX 77027. It is available in 8, 12, 16, and 24 input mainframes and makes four output mixes with pot sends from each input to each output. Each input module has XLR-3 type 200Ω balanced input with four position input

SOME PEOPLE JUST CAN'T
LEAVE WELL ALONE -

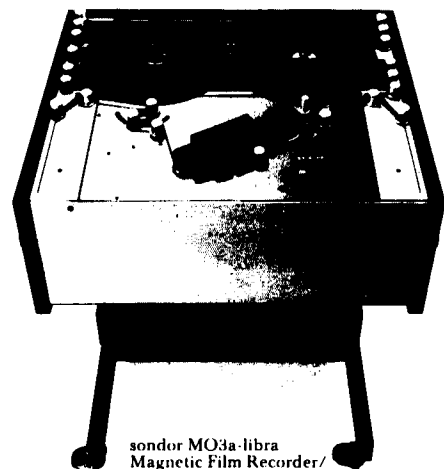
BUT IF WE WEREN'T SUCH
INCORRIGIBLE PERFECTIONISTS
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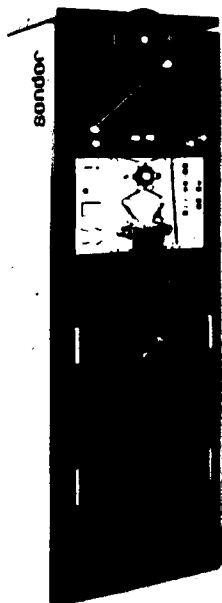
sondor MO35-libra
Magnetic Film Recorder/
Reproducer for 17.5/35 mm
1-8 tracks, in studio console



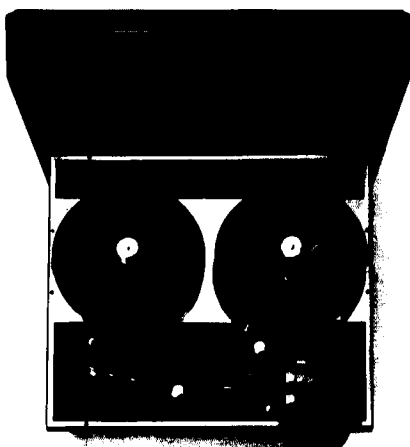
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sondor MO3a-libra
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Reproducer for 16 mm,
1-3 tracks, in studio
console



sondor OMA3
Magnetic Film Recorder/
Reproducer (sound follower)
for 16 mm, for 17.5/35 mm
for 16 mm + 17.5 mm + 35 mm
magnetic film (sprocketed tape)



sondor MO3-libra
Magnetic Film Recorder/Reproducer
for 16 mm EBU 3 track standard

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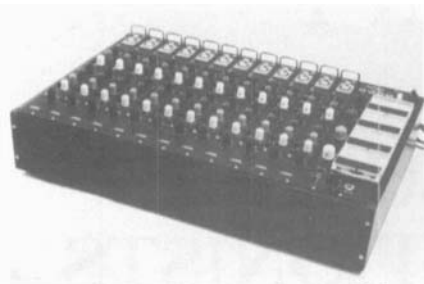
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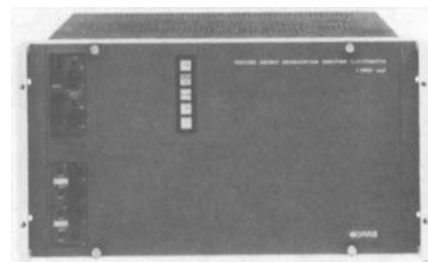
pad and four position input gain set which together permit a range of inputs from -50 dBm to +10 dBm. Each input also includes LED overload-danger indicator, three equalizers with 12-dB boost/cut range, and four-frequency switch on the mid-frequency equalizer, four-position low frequency 12-dB/octave rolloff, solo to operator monitor, on/off switch, and input channel master. Output channel has four masters, four VU meters, and an operator monitor with mix select switch and solo. Price of the 8-input version is \$1550. Price of the 12-input version (shown above) is \$2250.

A new range of vision switching system has been announced by Pro-Bel Ltd., Terrace Rd., Binfield, Bracknell, Berks RG12 5DN, England. Based on an 8 x 8 matrix on a single 7-in card using hot carrier diodes as the switching element, the new system is intended for all routing applications where matrices of 16 x 16 and greater are required. A 32 x 32 occupies only 14 in of rack space and a 64 x 64 only 42 in. The system, custom-built to the requirements of the user, can be controlled from serial, binary, or button per crosspoint address. A four-wire con-



trol system using UARTS is also available. Amplifiers providing two 75R outputs and optional pre-equalization are provided for each output. Vertical interval switching and memory of selections are included, and fault finding has been simplified by the use of LED indicators and adequate monitoring points. Shown above is the 32 x 32 switcher with serial control button per crosspoint control. The price is approximately £16,000. To complement this system, Pro-Bel also introduced an audio routing system encoding the audio signal into a single bit data stream using delta modulation.

A line of Barco chroma decoders (CD series) and an automatically switching multi-standard chroma decoder have been announced by Rohde & Schwarz Sales Co., Inc., 14 Gloria Lane, Fairfield, NJ 07006. The decoders in the CD series are available for all five color modulation systems: NTSC, PAL, PAL-M, SECAM VERT, and SECAM HOR. They deliver an RGBS output from an encoded video input.



Since precision monitors incorporate only one decoder, the Barco chroma decoders can deliver the second color modulation system for applications such as comparison of signals, controls in research centers, etc. They are of modular construction. There are loop-through provisions for two coded inputs and two RGBS outputs. Units in the CD series are priced at \$1450 for NTSC, \$1650 for PAL, and \$1800 for SECAM.

The automatic switching version, Type ASMD1 (shown above), delivers an RGBS output from any encoded video input regardless of the chroma modulation system. In automatic mode, the Barco chroma decoder logic examines the incoming signal, automatically activates the correct decoder and gives a visual indication showing the type of input signal (PAL, SECAM, NTSC, or monochrome). Selection can also be made manually. It is used for applications where it is necessary to obtain an RGBS signal from incoming encoded signals that constantly change and is especially useful in international satellite switching centers, experimental color laboratories, and research centers. The ASMD1 automatic versions are priced at \$6100 for NTSC/PAL/SECAM, \$4425 for NTSC/PAL, \$4500 for NTSC/SECAM, and \$4700 for PAL/SECAM.

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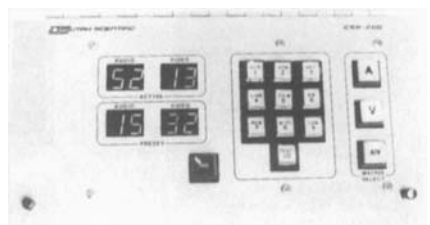
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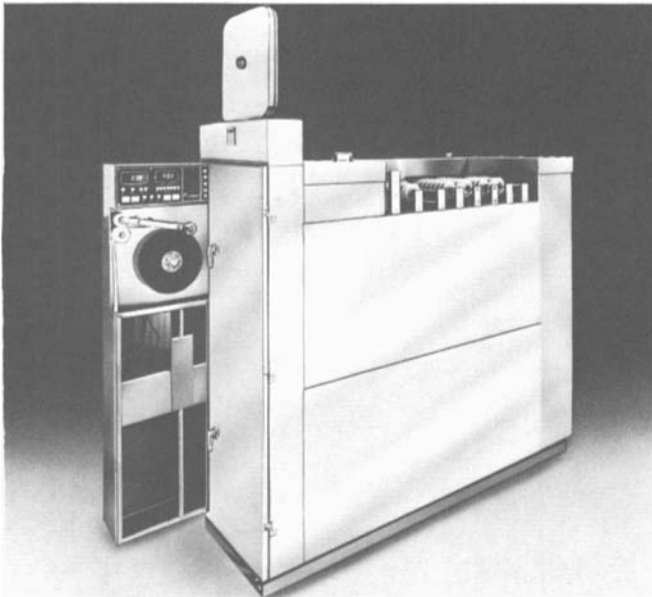
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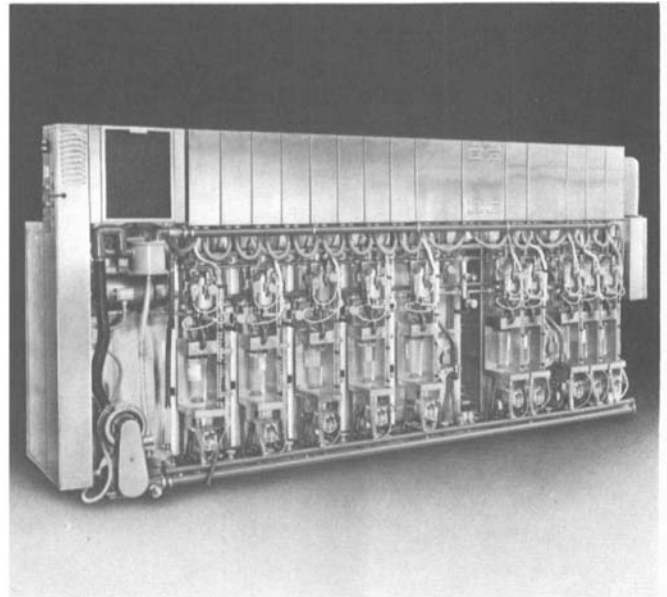
The Adwar Negative Mod, a self-contained unit designed to make a composite video signal negative, has been announced by Adwar Video, 100 Fifth Ave., New York, NY 10011. Video-in, video-out, and ac power are all that are needed. Controls switch the colors to negative or positive values with adjustments for brightness, contrast, and hue. A by-pass switch permits positive feed-through. Applications include industrial and broadcast graphics and titles. Base price is \$600. With external sync drives and user operated controls the price is \$900.



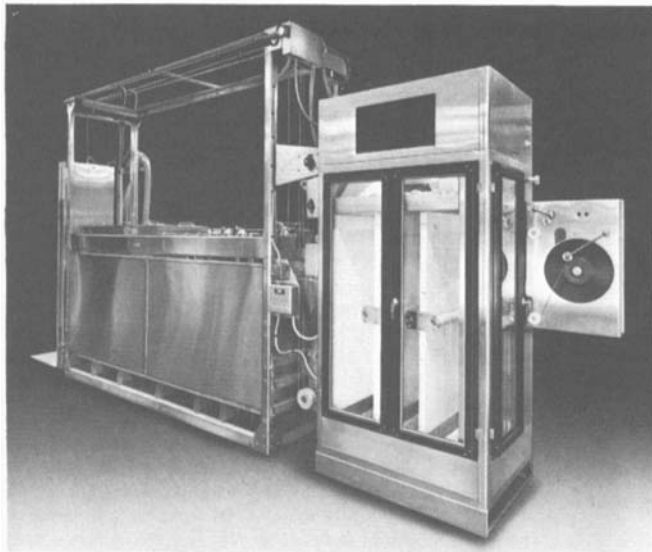
Two new Party Line control panels, Models CSP-200 (shown above) and CSP-300, have



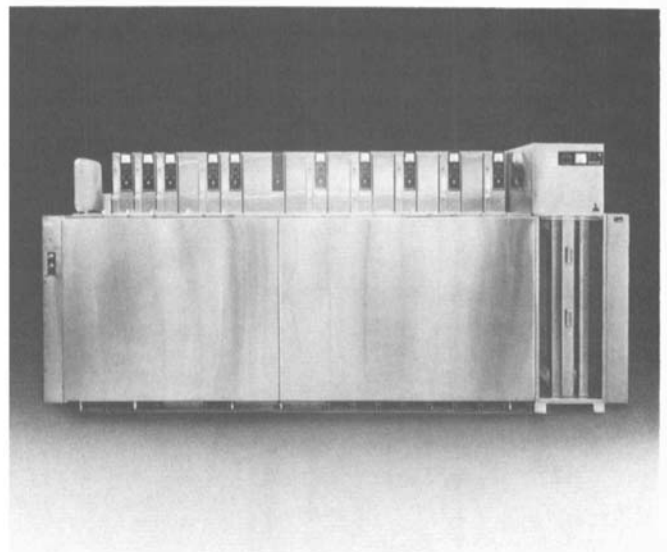
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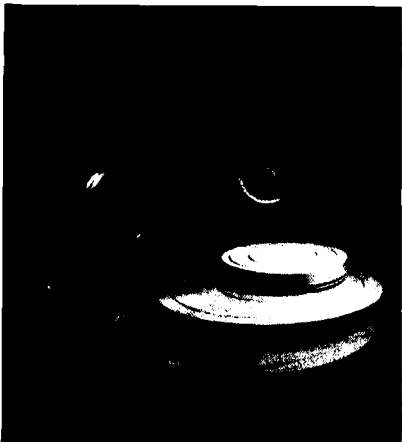
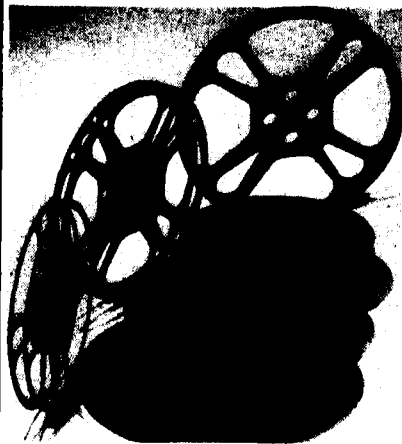
If you'd like more details of any of the products or services described above, you'll find the address and telephone number below.

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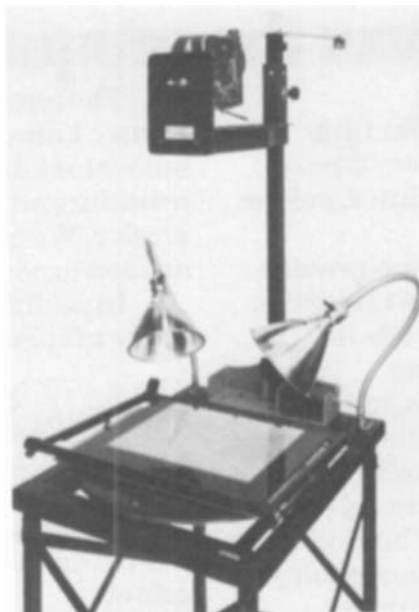
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been announced by Utah Scientific, Inc., 2276 S. 2700 W., Salt Lake City, UT 84119. The panels permit operators of routing switchers to address sources by their familiar names, such as VTR-4, REM-2, CAM-2, etc., rather than by switcher input number. They also provide separate audio and video readouts for both on-air and preset input selections. The CSP-200 panel controls a single switcher bus while the CSP-300 is a full matrix version incorporating an illuminated output select button and associated two-digit display. Both panels are available in encoded and non-encoded configurations. Prices begin at \$750 for the CSP-200 and at \$950 for the CSP-300.

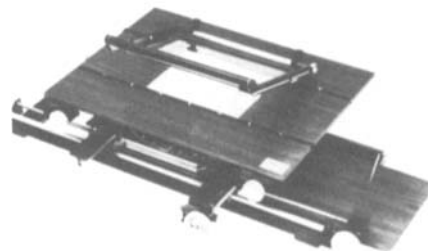


The Isco Calculator, a new image projection slide rule that simplifies the calculating of image size as related to projector-to-screen distance and lens focal length has been announced by Schneider Corp. of America, 185 Willis Ave., Mineola, NY 11501. The calculations are applicable to projection of motion-picture formats from 16mm to 70mm plus 35mm slides. Developed in a slide rule format, the calculator provides separate scales in inches and in metric measurements. The calculator can be used to compute picture size for any projection distance from 20 to 300 ft and for any lens from 16-mm to 300-mm focal length. Picture size calculations range from 5 x 7 ft to 50 x 70 ft. A separate screen area scale permits quick calculation of the square area of screens of any size up to 5000 ft². Typical aspect ratios are supplied in a chart which lists all cinema projection formats (except super 8) as well as 35mm slides. Developed by ISCO of West Germany, the calculator is priced at \$10.



The **Mini Fax animation camera stand** has been announced by the Fax Company, 374 South Fair Oaks Ave., Pasadena, CA 91105. The new stand is intended for animation work with either 16mm or super-8 cameras and for 35mm filmstrip

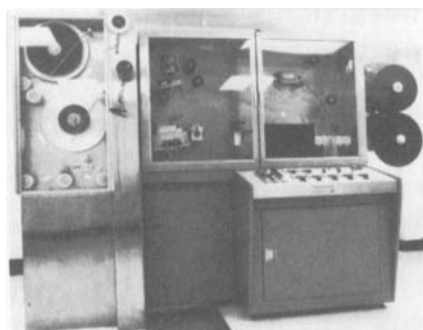
photography. A black plastic plate with both top and bottom pegs is mounted on a welded steel base; it is adjustable for positioning directly under the camera. A bracket secures the camera facing the operator to position the cells or artwork top-side up. Vertical positioning of the camera is said to be easily accomplished and a knob is used to clamp the bracket securely. Leveling legs are supplied for table mounting. The basic stand is priced at \$695. Several optional accessories are available.



An **animation compound table**, Model SSA 400, has been announced by Forox Corp., 393 West Ave., Stamford, CT 06902. The unit was built to complement the Forox SSA camera, but it can be used with any animation camera and is available with Forox, Oxberry, or Acme screw-in pegs and peg tracks. For cel photography, the illuminating area is equipped with a foam rubber insert. Fast cel changes are possible because of an exclusive twist-lock that holds the platen open. The SSA 400 can receive motor drives for joy-stick or computer controls. Features include 360° rotation, N-S/E-W hand crank controls, and a removable platen. The tabletop measures 24 x 32 in and the illuminated area 10 x 12 in with a 120-field top. The price is \$3950. The only accessory is a platen priced at \$300.

Two projection television systems, Models VSR 1000 and VSR 700, were announced by Extron Corp., 2368 Walsh Ave., Santa Clara, CA 95051. Model VSR 1000 can use any 13-in television as an image source. Features include a 50-in diagonal washable screen and f/1.9 three-element lens. The VSR 1000 uses a single mirror for improved screen brightness. The price is \$925 without the television image source.

Model VS 700 is a two piece projector that can be used with a 4-, 5-, 6-, or 7-ft diagonal screen. The price is \$1095.



Photogard, a protective coating for professional motion-picture film which reduces scratches, has been announced by 3M Company, 3M Center, St. Paul, MN 55101. The new coating is designed mainly for protection of internegatives and release prints of 70mm and 35mm theatrical releases, 16mm industrial and commercial films, and super-8 point-of-purchase films. It is not intended for use on audio or video tapes. In addi-

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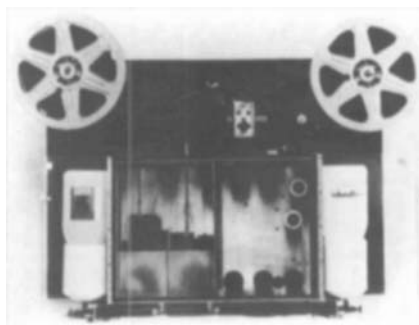
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tion to providing high abrasion resistance, Photogard coating creates a barrier to the deteriorating effects of solvents and static electricity which attract dust to film. Dirt and other particles can be cleaned off the film without generating a static charge or leaving scratches. The coating is also anti-bacterial and can protect archival footage against organic contamination. The coating is clear, colorless, flexible, and according to reports, does not crack in heat or cold and does not affect the color of the projected image.

Coating services are performed at 3M's Photogard Coating Facility at 321 West 44th St., New York City. Paul Brewer is the operations supervisor and Kurt Wulliman in New York and Ned Whiting in Los Angeles are sales representatives.

A system for generating smoke and fog on theater, television, and film stages has been announced by Rosco Laboratories, 36 Bush Ave., Port Chester, NY 10573. The system consists of a fog machine and a fog fluid designed to work with it. The material is said to be odorless, non-irritant, nontoxic, and has a flash point above 200° F. The system is designed to produce a fog that has practically no movement of its own so it can follow any air current directed toward it. The addition of dry ice suspended in a wire basket at the front of the machine creates a heavier and low hanging fog effect. The machine, measuring 12 x 12 x 6 in., is UL listed and can be plugged in to any grounded wall outlet. The Rosco Fog Machine is priced at \$305. The fog fluid is sold in one-liter containers at a price of \$14.90 per liter.



The Durapro-Tector I, a film cleaning machine and/or film protector, a table-top model operating at 100 ft/min, has been announced by Durafilm Co., 137 N. La Brea Ave., Hollywood, CA 90036. The unit is non-sprocket driven, fully automatic, and includes a cutoff at the end of a roll of film. It is designed with two separate tanks and two drains. New film can be protected and old film can be cleaned through one or two SuperCineClean baths. The chemicals can then be drained, filtered, and reused. The machine is constructed of stainless steel and blue fiberglass and is resistant to chemical damage. The unit has a reel capacity of up to 2000 ft and is available in combinations of 8/16mm and 8/16/35mm. The 8/16/35mm model can also clean and protect microfilm and filmstrips. Prices range from \$2200 to \$2500.

Optically flat, high reflectance mirrors, using metalized plastic film stretched on lightweight supporting structures, have been announced by Kamar Products, Inc., 2 South

Buckhout St., Irvington-on-Hudson, NY 10533. The reflective film is inert and maintains tension. As a result, the reaction to temperature and humidity changes is to distribute forces evenly, forming a flat surface rather than twisting, bending, or warping. Extreme heat, cold, or humidity are said to have no effect on the mirror surface. The mass of reflective surface is very small and there is no build-up of static electricity which could attract dust particles. Vibrations or wind currents do not affect the film surface optically or physically. Design weight of the mirrors is 6 oz per square foot. They can be provided in various shapes and sizes. Applications include large rear projection systems for display and training, small portable rear projection table top projectors, laser reflectors, and rear projection television systems. Prices range from about \$31 to \$273 depending on thickness and size.

Battery packs and belts using rechargeable, sealed lead-acid batteries have been announced by the Film Equipment Service Co., 1875 South Pearl St., Denver, CO 80210. They are designed especially for film and video cameras and 30-V lights. There is no problem with memory effect since the capacity demanded of the sealed lead-acid battery in previous cycles cannot affect future discharge delivery levels. The power units maintain good voltage regulation over a wide temperature range. An hysteresis loop, two-step constant current charger can sense when the power unit is charged, thus preventing overcharging. Both battery packs and belts have built-in meters. Prices for the battery systems (belts, packs, and chargers) range from \$460 through \$1120. The components are also available separately.

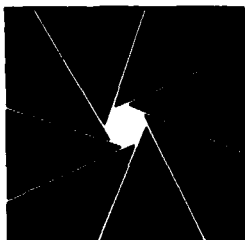
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