

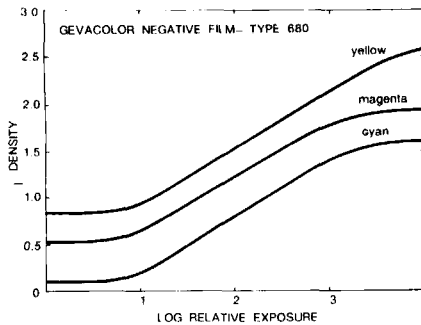
new products (and developments)

.....
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.

Erratum: August 1975 *Journal*, pp. 700-701, "Two new ultrasonic film splicers ... announced by Metro/Kalvar Inc." On p. 701, instead of "A multi-voltage input transformer ..." read "Also available, a multi-voltage input transformer ..."

Gevacolor Negative Film Type 680, an all-purpose double-masked color motion-picture film has been announced by Agfa-Gevaert, N.V., Septestraat, B-2510 Mortsel (Antwerp), Belgium. The film can be printed (either directly or via color intermediate film) onto color positive film, e.g. Gevacolor Print Film Type 985. The Type 680 film can be processed according

to the instructions for processing Eastman Color Negative Film Types 5254 and 7254 without any modification; however, Type 682 cannot be processed in accordance with the instructions for the earlier Gevacolor Negative Films.

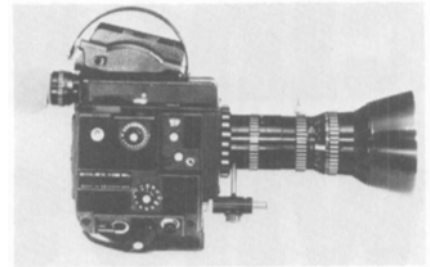


Type 680 has a conventional structure consisting of a triacetate safety base coated with emulsion layers that are sensitive to red, green and blue light successively. Apart from the colorless die couplers the green and red sensitive layers also contain respective yellow and red colored mask formers. The back of the film is coated with a jet-black antihalation layer selected for its antistatic and antihalation properties. A yellow filter layer is coated between the blue- and green-sensitive emulsions. The entire emulsion pack is covered by a gelatin protective coating.

Shown above are the D log E curves for Type 680 film.

Type 680 is balanced for artificial light with a color temperature of 3200 K. If a suit-

able light balancing filter is used it can also be exposed to daylight or other light sources. The film has a speed index of 100 ASA-21 DIN when exposed to artificial light of 3200 K. The 35mm film is available in lengths of 61, 122 and 305 m.



The Bolex H-16EL, an electric, electromagnetic and electronic 16mm camera with advanced features in film transport and light measuring, has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. Features include variable speeds of 10, 12, 18, 20, 24, 25, 32, 40 and 50 frames/s. All speeds are electronically controlled. Speeds of 24 and 25 frames/s are electronically controlled to sync pulse standards and can be crystal-controlled for wireless sync sound filming. The camera's shutter stops in closed position to eliminate blank frames between scenes. Starting and stopping is controlled electromagnetically. The motor can be driven by a lightweight (less than 12 oz) rechargeable 12-V, 0.45-Ah nicad battery which attaches to the camera or by a pocket-size 12-V, 1.2-Ah battery, weight 22 oz with a 2000-ft capacity at normal temperature.

The built-in light measuring system has a cell in front of the film plane. The cell is made of silicon which has no memory and therefore reacts instantly to changes in brightness even in low light.

The camera has a large diameter bayonet mount for rugged and accurate seating of a wide range of lenses. Various accessories are available. Price of the Bolex H-16EL body only with power pack, standard charger, remote cable, filter holders and gelatin filter is \$3300. Price of the Vario Switar 12.5-100mm f/2 bayonet mount lens (shown above) is \$2250.



A new 18 frames/s gear-set for the Arri 16BL making it possible for the cinematographer to run the camera at 18 frames/s with the standard 16BL crystal-controlled (3000 r/min) motor and battery drive system has been announced by Arriflex Company of America, Box 1060, Woodside, NY 11377. Because of the identical 18 frames/s rates in 16mm and super 8, use of the gear-set makes 16mm to super-8 reductions a straightforward process. Synchronous sound can be obtained without any other changes. The Arri crystal-regulated drive can run the camera at near-perfect sync speed; a crystal-regulated oscillator at the recorder develops the 60-Hz pilotone signal. In

GET THE BEST WITH THE BEST



4.2L SYNCHRONOUS 1/4" TAPE RECORDER

NAGRA RECORDERS

The NAGRA 4.2L is the standard of excellence for recording original motion picture production sound tracks. Internal plug-in modules, installed as required, consist of various microphone preamps, crystal generator, self-resolver, camera speed indicator and automatic level control.



United States Distribution — Service — Sales
NAGRA MAGNETIC RECORDERS, INC.
19 WEST 44th STREET, ROOM 715 • NEW YORK, NEW YORK 10036 • (212) 661-8066

Southern California Sales and Service RYDER MAGNETIC SALES CORP. 1147 North Vine St., Hollywood, California 90038 (213) 469-6391
Available in Canada BRAUN ELECTRIC CANADA, LTD.

1



AERIAL IMAGE OPTICAL PRINTER, Model 2101

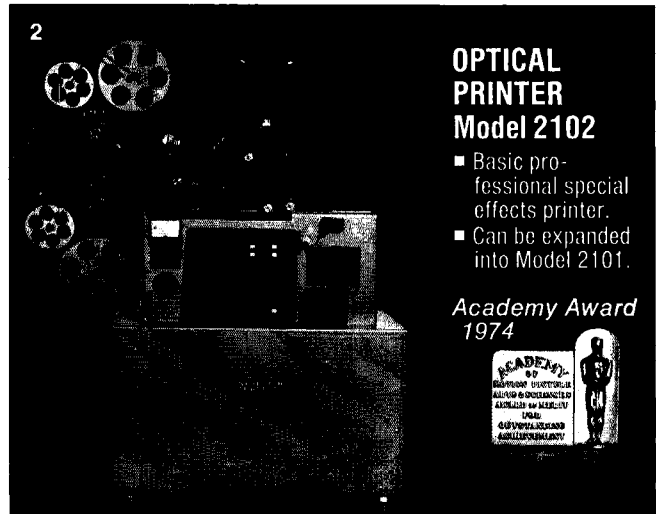
NEW! RPI proven Camera Zoom available also for aerial image!

- Proven 5 years, electronic "PhotoTron" drive!
- Log/linear dissolve and fade.
- The printer favored by Hollywood's major studios for special effects.

Academy Award 1974




2



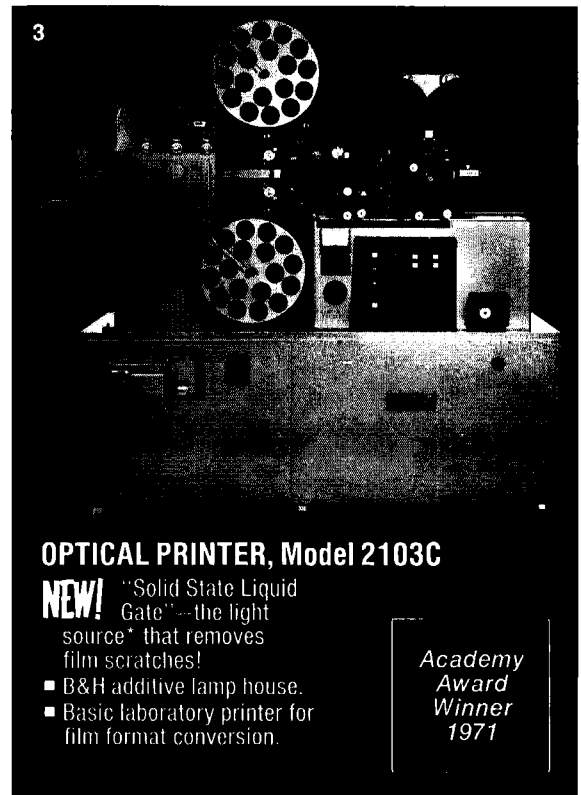
OPTICAL PRINTER Model 2102

- Basic professional special effects printer.
- Can be expanded into Model 2101.

Academy Award 1974



3



OPTICAL PRINTER, Model 2103C

NEW! "Solid State Liquid Gate"—the light source* that removes film scratches!

- B&H additive lamp house.
- Basic laboratory printer for film format conversion.

Academy Award Winner 1971

the foremost family of four... is now six!

The four illustrated, plus—

5 . . . a **NEW** low cost 16mm animation/optical printer for laboratories, TV stations, in-plant producers and universities. It features RPI camera and projector heads with registration movements, a scratch removal light source, and art work aerial image board.

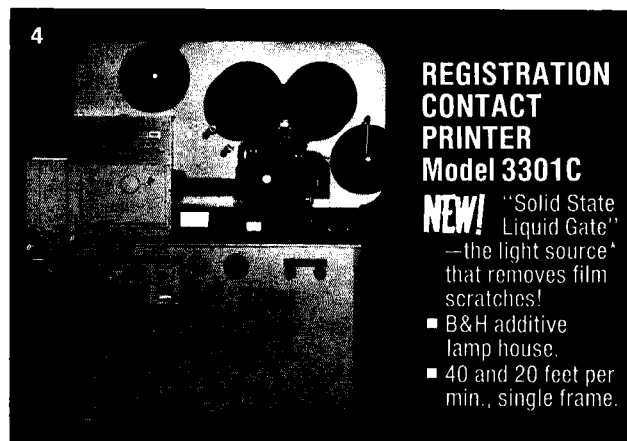
6 . . . a **NEW** electronic 35mm table top viewing projector featuring variable speed, slew, and quiet operation.

For complete information—write, telephone or cable Research Products, Inc., 6860 Lexington Ave., Hollywood, CA 90038, USA; Telephone: 213-461-3733; Cable: RESEARCH. *New York and Eastern Seaboard Sales-Service*—Edward Willette, president, Photographic Equipment Service, Inc., 695 Main St., New Rochelle, NY 10801; Telephone: 914-235-2720.

 **RESEARCH PRODUCTS**
Research Products are Products of the Future

In world-wide use . . . Sweden, Italy, Japan, Hong Kong, China, Turkey, India, Canada, Mexico, Brazil and U.S.A.

4



REGISTRATION CONTACT PRINTER Model 3301C

NEW! "Solid State Liquid Gate"—the light source* that removes film scratches!

- B&H additive lamp house.
- 40 and 20 feet per min., single frame.

*U.S. Patent No. 3,367,299. Other Patents Pending.

HIGH
PRECISION
sprockets
FOR DRIVING
PERFORATED
FILMS • TAPES • CHARTS

?

LaVezzi
HAS THEM ALL!

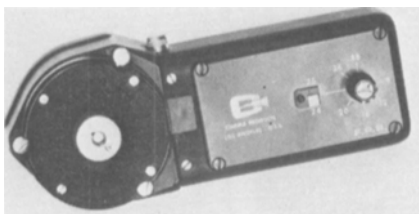
- **8 MM** Wafers, full size for tapes or films.
- **SUPER 8** Double width Printer Sprocket-Feed Sprocket.
- **16 MM** Single row. Double row. Wafers. 8 Tooth thru 20 Tooth.
- **35 MM** Standard C'Scope, Regular Tooth. Positive Control. Low Inertia. Intermittent, Drive. 8 Tooth thru 64 Tooth. Aluminum, Steel, Stainless Steel, Plastic.
- **70 MM** TYPE I and II
- **1/10" PITCH TAPE DRIVE** Sprockets 1" wide. 10 Tooth thru 50 Tooth Tape Reader Sprockets Stainless Steel, Plastic.
- **1/4" PITCH CHART SPROCKETS** Aluminum—Plastic 10-12-24 Tooth Assemblies.
- **3/8" PITCH CHART SPROCKETS** Aluminum.
- **1/2" PITCH CHART SPROCKETS** Aluminum, Assemblies.
- **AND SPECIALS TO ORDER** Tell us the problem and/or send us your Specs for quote. We make special sprockets for almost any type of perforated material.

LaVezzi

machine works, inc.

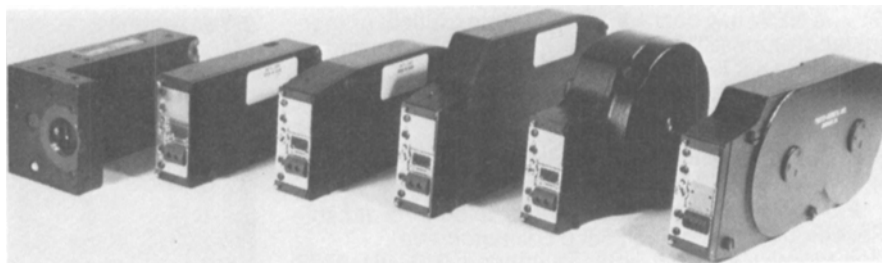
900 N. Larch Ave.,
Elmhurst, Ill. 60126
(312) 832-8990

the sound laboratory, tape recordings are transferred to super-8 film driven at 18 frames/s to produce perfect lip sync. The gear-set for 18 frames/s operation is priced at \$75.



The Arri Precision Exposure Control (APEC) system for 16S cameras has been announced by Arriflex Company of America, Box 1060, Woodside, NY 11377. A behind-the-lens exposure control instrument available on 16BL cameras it has been adapted for 16S cameras. It can be supplied on the new 16S/B cameras as an optional extra at a price of \$970. (Base price of the 16S/B camera without the APEC is \$4700.) It can also be supplied as a new camera door assembly for later installation on any 16S camera with a serial number of 12001 or higher. Price of the camera door assembly is \$1150. The factory (installation in either New York or California) is priced at \$150. The APEC can be used in situations where correct exposure determination is extremely difficult. Typical of such situations are: zoom shots where there are large changes in the field; unpredictable changes in levels and available light scenes; helicopter, air-to-ground shots; spontaneous action and changing light in wildlife and sport filming; extreme close-ups in macro photography; shooting through a microscope and in all kinds of documentary filming where action and lighting cannot be kept under strict control.

A new variable-speed crystal-controlled motor conversion for Eclair ACL cameras with MIALA-type motors has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. Utilizing the same kind of advanced electronics used in the CP-16R speed control circuitry, Cinema Products engineers redesigned the Eclair ACL motor electronics to provide variable speed capability, switchable from 24 to 25 frames/s crystal-



The 16mm-1VT, a special purpose camera designed for airborne applications, has been announced by Photo-Sonics Inc., 820 S. Mariposa St., Burbank, CA 91506. The camera, designed especially to be used in conjunction with the Tow stabilized optical sight aboard the Bell UH-1 Cobra Gun Ship, can also be used in laser designated systems in several United States aircraft. The camera operates at a fixed 24-frames/s rate and uses 3-phase, 400-Hz aircraft power, resulting in operation with little electromagnetic interference. The

controlled sync speeds plus improved motor stability at all speeds.

The Cinema Products variable-speed crystal-controlled version of the ACL MIALA motor occupies little more room than the previous motor circuitry. It provides flicker-free performance at crystal-controlled speeds of 24 and 25 frames/s plus variable speeds of 8, 12, 16, 20, 36 and 48 frames/s. The conversion is available to all Eclair ACL owners at a price of \$750. Only the motor needs to be shipped for conversion, not the camera.

GAF super-8 sound cameras can now be modified to operate at 24 frames/s it was announced by GAF Corp., 140 W. 51 St., New York, NY 10020. The announcement noted, however, that once a camera has been modified to operate at the higher speed it will no longer work at 18 frames/s. The 24-frames/s modification is required mainly by audiovisual systems used in schools, television studios, etc., which require films made at 24 frames/s. The modification can be made on existing cameras at a price of \$35 and new cameras with the modification are available for \$25 more than the price of the unmodified new camera.

Photosense, a new electronic system designed to report instantaneously any malfunction in a film processor, has been announced by HF Photo Systems Div. of Technology Inc., 11801 W. Olympic Blvd., Los Angeles, CA 90064. The sensors can detect any breakdown or extraordinary situation in the processor and announce the condition by a flashing light in a display window and by an audio alarm. The unit contains a Fail Safe backup lamp system to provide complete protection against faulty monitoring. Photosense, which can be mounted remotely for convenience of supervision, commonly monitors temperatures, film breaks and film speed, power, and flow of hypo, developer and water wash, as well as hypo, water, developer and air pressures and re-exposure lamp and prehardener temperatures. Photosense is available in 6-, 8-, or 12-event window display cabinets or it can be made available with more event windows depending upon the user's requirement. Prices range from about \$3000 for the basic 6-window configuration up to \$10,000 for custom cabinets.

camera can also be used with the LS-107A Camera Test Set supplied to the U.S. Air Force and Navy as well as many foreign air forces on the KB-25A and KB-26A gunsight camera programs. The new camera can operate with any of the magazine configurations presently used on the 16mm-1VN camera including magazines of 65-, 100-, and 200-ft capacities in both darkroom and daylight-loading configurations. Price of the 16mm-1VT camera body is \$1650. Price range for the various magazines is from \$840 to \$990.

17th consecutive year!

Again, more Award
Winners* filmed with
Arri cameras
than all other
makes combined!

*10 out of 12 Awards and 4 out of 6 Honorable Mentions

Congratulations to all and our special
acknowledgement to these Award Winners
who filmed with ARRI.

17th
Annual Industrial
Film Awards

conducted by
Industrial
Photography
Magazine



Arizona Medical Center
"THE TROCHANTERIC BOLT"
Producer/Director — Russ A. Hart
Cinematographer — Barry M. Iselin

Atlantic Richfield
"WELCOME"
Producer — Thad Roark
Associate Producer — Betty Ferrer
Director — Kerry Carruth
Cinematographer — John West

**British Columbia, Department of
Travel Industry**
"BECAUSE IT'S HOME"
Producer/Director — William L. Wiley
Cinematographer — William L. Wiley

Chessie System (B&O C&O R.R.'S)
"A SECOND'S CHANCE"
Producer/Director — Franklyn J. Carr
Cinematographer — T. R. Tucker

Douglas Aircraft Company
"WINGTIP TO CANOPY"
Producer — Milt Moline (with Clark Ballard,
Dick Schwartz and Bill Conron)
Director — Milt Moline
Cinematographers — Bob LeRossignol, Bob Goodwin

Firestone Tire & Rubber Company
"HELP FROM FIRESTONE"
Producer/Director — Jack E. Gieck
Cinematographers — Ken Dawson, Ed Theiss

Fluor Engineers and Constructors, Inc.
"THE TRANS ALASKA PIPELINE —
FLUOR REPORT NO. 1"
Producer/Director — Bill Buffinger
Cinematographer — Mark Arnold

Sandia Laboratories
"COMPUTER-AIDED DESIGN AT
SANDIA LABORATORIES"
Producer/Director — Charles E. Cockerleas
Cinematographer — Wayne W. Graving

Union Pacific R.R.
"LUCKY YOU"
Producer — R. R. Burrell
Director — Gene Burson
Cinematographers — J. C. Thibodeau, Tom Hergert

**U.S. Department of Interior, Mining
Enforcement & Safety Administration**
"CARDIOPULMONARY RESUSCITATION"
Producer — Samuel R. Sappo
Director — Timothy W. Kirby
Cinematographers — A. V. Mantia, K. A. Gaskill

ARRI
ARRIFLEX COMPANY OF AMERICA

Save a bundle on our 16mm ciné camera. Deal now!

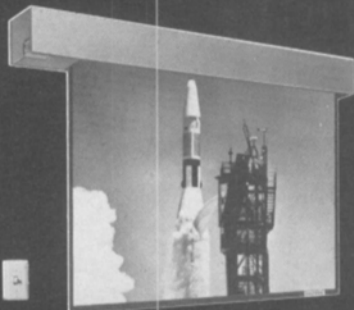


Featuring BACH AURICON movements. World-famous for reliability and serviceability. MADE IN U.S.A.

Model LW-16. New, or "Re-manufactured" same-as-new from your 400ft Auricon or Frezzi.® Call Jim Crawford.

FREZZOLINI
Frezza Electronics Inc.
7 Valley St., Hawthorne, N.J. 07506
PHONE: (201) 427-1160

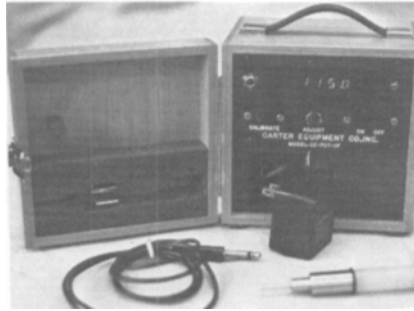
Screening Room Satisfaction Guaranteed



DA-LITE Automatic Electrol® Projection Screens

The ultimate convenience for screening rooms, conference rooms, briefing rooms and auditoriums. A brilliant White Magic® glass beaded screen appears at the touch of a button, glides out of sight when not in use. Also available in non-gloss Mat White. Choose one of several models of Da-Lite automatic electric screens in sizes from 50" x 50" to 12' x 24'. See your Da-Lite audio-visual specialist. For his name, write or call:

DA-LITE SCREEN CO., INC.
Warsaw, IN 46580 219-267-8101



A portable battery-operated digital thermometer, a joint development of Sensing Systems Inc. and Carter Equipment Co., 1050 W. Florence Ave., Inglewood, CA 90301, is said to have resolution, accuracy and repeatability of $\pm 0.1^\circ\text{F}$. The instrument, designated Model CE-PDT-11F permits instantaneous, on-the-spot readings of temperatures from 50°F to 150°F ($10^\circ\text{--}65.6^\circ\text{C}$). It is available with a wide variety of special thermistor probes. The price of \$995 includes a standard probe and built-in battery charger.

ECCO VSF299, an anti-static film and tape cleaner and conditioner, has been announced by Electro-Chemical Products Corp., 89 Walnut St., Montclair, NJ 07042. Designed especially for use on magnetic-sound-stripped film and magnetic tapes, it is said to clean, lubricate, condition and also to stop lint and dust attraction in one operation. The cleaner dries instantly as it cleans and conditions. It can remove oily grease, dirt and grime and render the film anti-static. The cleaner is available in pints, quarts and gallons at prices of \$4.15, \$6.25 and \$18.95, respectively. ECCO VSF299 can be used with the ECCO 306 film and tape cleaning and conditioning system which contains a micrometer sight-feed valve to show at a glance exactly how much fluid is being applied.

Eprad Super Forward Sword 35mm film-handling equipment (*Journal*, p. 298, April 1975) is now available in two console systems complete with the Eprad xenon lamphouse and power-supply package, it was announced by Eprad, P.O. Box 4712, Toledo, OH 43620. The Sword Universal Console is equipped with the 3-kW Universal lamphouse and a 3000-W, 190-250-V power supply. The Universal lamphouse is designed for operation with any make or size xenon bulb from 1600 W to 4200 W using the appropriate rectifier. The Universal console is priced at \$6445.

The Sword Star console is equipped with the Eprad 1.6-kW Super Star xenon lamphouse and a 900-1600-W, 190-250-V power supply. The Super Star lamphouse operates with any make or size xenon bulb from 900 W to 2500 W with an appropriate rectifier. The Star console is priced at \$5150.

Both consoles feature fast, easy bulb installation and adjustment, built-in ammeter/voltmeter, running time meter, automation control package, and the patented Eprad Mirror Beam Shaper to achieve optimum use of the light for bright, even illumination over the entire screen.

The Crest C 200, a closed-circuit TV camera weighing less than 5 lb (2.3 kg) has been announced by Crest Electronics, Inc., 2634 La Cienega Ave., Los Angeles, CA 90034. The

camera uses a separate mesh vidicon and solid-state circuitry. Features are said to include resolution of 600 lines, lower lag, lower noise levels and increased sensitivity. A built-in automatic light-compensation circuit can maintain picture quality through a light range of 5000:1. The controls are externally adjustable and the "tri-focus" system includes manual vidicon adjustment to allow for extreme close-up work of less than one inch. The camera is 9 in long, 5 in wide and 3 in high (22.9 x 12.7 x 7.6 cm) and has a "C" mount to accept a wide variety of lenses. The price is \$295.



A new line of 16mm console editors has been announced by Magnasync/Moviola Corp., 5539 Riverton Ave., North Hollywood, CA 91601. The line includes the M-84A (two-plate), the M-85A (four-plate) and M-86A (six-plate) consoles. For all three consoles, crystal sound speed forward is 24 or 25 frames/s, and speed is variable from less than 1 frame/s to 10 times sound speed (240 or 250 frames/s) in both forward and reverse directions with forward and sound speed detent. Features also include controlled acceleration and deceleration and an interlock mode to an external source. Film capacity is 1200 ft (365 m) lab core of 2000 ft (610 m) standard projection reel with torque motors mounted in extended position. The editor may also be run with the lab core in the extended position. The machines can be directly interlocked with Magnasync/Moviola M-77 and with the M-84, M-85 and M-86 flatbed editors or with any other Magnasync/Moviola equipment with the Servo-Tach drive system. The picture transport is modular dual sprocket with synchronous prism type optical intermittent. All surfaces in critical areas are recessed to prevent film damage. There are no film loops to set. Features include composite optical and magnetic sound pickup and manual inching with knurled knob on the right-hand sprocket. With legs and projection box the M-84A weighs 150 lb (68.2 kg); the M-85A, 200 lb (90.7 kg) and the M-86A, 300 lb (136.4 kg). The M-84A is priced at \$3695; the M-85A at \$4995 and the M-86A at \$6575. An optional cabinet called the Executive Model is available for the M-84A and the M-85A for \$200 more.

The Dynatrac® 3 Lock-In Analyzer, a narrow-band ac voltmeter that facilitates the measurement of amplitude, phase and frequency of signals that may be obscured by electrical noise or interference, has been announced by

45 years of knowhow go into every Houston processor.

In 1930,

Houston built one of the first continuous motion picture film processing machines for a famous Hollywood producer. Since then, Houston has led the industry in developing new and better film processing equipment. In addition, Houston has designed, built and installed large, complex film labs for the



First Houston plant, 1930

Only materials and methods that have thoroughly proved their dependability are used. Today's Houston processors are as automatic, foolproof and dependable as possible with present technology.

When you buy a Houston machine, you are not buying an unknown quantity. You have the assurance of complete dependability, backed by 45 years of success.

A processor for every need

Houston has the most complete line of film processors built today — from Super 8mm to 70mm — for every type of color and b&w film. Paper dryers and mixing tanks, too. We also custom design and build for special requirements. Just tell us what you need.



Houston's large, modern plant

Government and Military.

The priceless experience accumulated in these 45 years is embodied in every modern Houston machine, regardless of size.

Write or phone now for full information. Houston Photo Products, Inc., 655 E. 20th St., Yuma, Ariz. 85364. Phone (602) 782-3677. Telex 669-450.

HOUSTON
PHOTO PRODUCTS, INC.
YUMA, ARIZONA

WESTERN Cine

FULL IMMERSION
WET GATE
PRINTING

16mm to 16mm
16mm to 35mm
Super 16mm to 35mm



EASTMAN COLOR
INTER-NEGATIVE
and POSITIVE

16mm & 35mm

16mm PROCESSING
ECO, EF and CRI

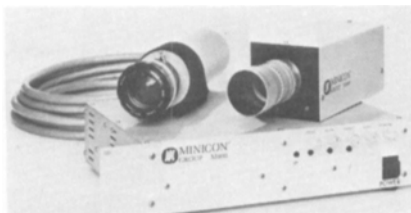
- Video Analyzing
- Sound Recording and Mixing
- Optical Printing
- Titling
- Super 8mm Reduction Printing
- Filmstrip

*We are a quality-oriented lab...
Computerized printing...
Contact our producers' service
specialists...
We do the job right!*



DENVER
312 So. Pearl St. - Denver, Colo. 80209
Cine Craft
8764 Beverly Blvd. - Hollywood, Calif. 90048

Ithaco, Inc., 735 West Clinton St., Ithaca, NY 14850. The instrument uses heterodyne techniques to facilitate measuring signals from picovolts to volts at frequencies from 0.1 Hz to 200 kHz at selectable measurement bandwidths of 0.001 Hz to 100 Hz. The measurement frequency is determined either by an external reference signal to which the instrument is synchronized or by a calibrated internal oscillator whose output is available to modulate the signal source. No absolute synchronization is required, however, if the signal frequency is within the bandwidth set for the instrument. In addition, a signal tracking mode is provided that phase-locks the analyzer to the instrument itself, a useful mode when no reference signal is available and frequency is drifting. The instrument is priced at \$2695.

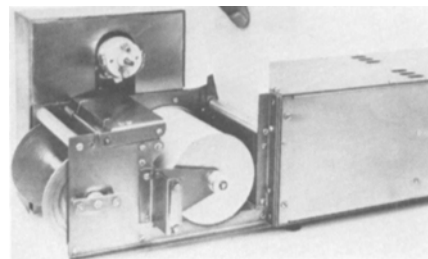


Two small, two-piece television cameras offering resolution up to 1023 scan lines have been announced by Sierra Scientific Corp., 2189 Leghorn St., Mountain View, CA 94043. The cameras, Minicon Models 611R and 612R, are designed for installation in existing systems. The 611R has a 3-in-diam round head; the 612R is a square-head unit intended for installations that call for the convenience of mechanical focus in the camera head. The new Minicons have an 18-MHz bandwidth and 1% linearity and geometric distortion, plus options for vidicon shading correction and external drive and sensor tube blanking. Both cameras can use silicon and lead oxide tubes. All controls are mounted in the control units—none in the camera heads. The camera heads weigh about 4 lb (1.8 kg) and cable lengths are available up to 100 ft (30.5 m). Prices begin at about \$2700.

The TVDA "Deglitched" D/A (digital/analog) converters for use in reconstructing television and other video signals have been announced by Computer Labs, 1109 South Chapman St., Greensboro, NC 27403. Available in 8-bit and 10-bit models, the units include a deglitching circuit for suppressing transients in the analog output. Update rates as high as 15 MHz are specified, making it possible to operate at either three times or four times the NTSC color burst frequency for television applications. Prices for the converters range from \$900 to \$1010 depending on the model and output amplifier option.

A video transmission system for coaxial cable communications using frequency modulation has been announced by Catel, 1400-D Stierlin Rd., Mountain View, CA 94043. Designated VFMS-2000, it is a video/FM system that takes advantage of the noise immunity characteristics of frequency modulation. The equipment makes up a video cable communications link using a video FM modulator and a video FM demodulator. Where audio transmission is required FM audio modulators and demodulators are available as complementary modules. Any frequency from 19 to 260 MHz is available; input baseband bandwidth op-

tions are from 10 Hz to 500 kHz minimum and 10 Hz to 5 MHz maximum. A solid-state FM system, it incorporates up-to-date circuit design techniques to provide optimum SNR and high-impulse noise immunity. The channel bandwidth is three times the highest modulation frequency. The system is fully modular and it is housed in a 3½ × 19 × 14-in (8.8 × 48 × 35.5-cm) rack-mounted cabinet. The price of the VFMS system varies as the frequency of operation. The range for a modulator and demodulator pair, video only, is from \$1800 to \$2300.



The VersaTitle™, a titler-prompter accepting 4 × 6 cards or adding machine rolls for a virtually limitless crawl, has been announced by Ultra Audio Pixtec, Box 921, Beverly Hills, CA 90213. The device operates stand-alone as a prompter with any video monitor. It can also be synchronized to a studio video system for titling. Polarity reversal permits black-on-white or white-on-black display. The device is remote-controllable. The price is \$2350.

The Director, a new wireless microphone for broadcasters has been announced by Television Equipment Associates, Box 1391, Bayville, NY 11709. It operates at a frequency of 450 MHz, and principal applications include news, sports and studio production. The system is said to reduce considerably interference from such sources as electrical machines, vehicle ignition and other radio frequency sources, thus providing a cleaner and more reliable radio link. A sturdy spring-loaded plug is supplied for microphone input and a wide range of dynamic and electret microphones can be used. The transmitter, enclosed in a leather case, can fit in a shirt pocket or can be worn on a belt. The receiver is optionally line- or battery-powered and provides either line- or microphone-level output. Price of the transmitter is \$200. The receiver is priced at \$475.

The PS-1 microphone power supply designed for location or studio use with Sennheiser, Shoeps, Neumann (70 series) or any microphone requiring 12-V dc duplexed with the audio signal leads has been announced by Coherent Communications Co., 13733 Glenoaks Blvd., Sylmar, CA 91342. The PS-1 utilizes two 9-V batteries plus integrated circuit technology to achieve precise voltage regulation and long battery life. Battery test jacks are provided. Housed in a fully shielded die-cast metal box, the supply has recessed switches and XLR audio connectors. Also included is a built-in 15-dB pad to avoid preamp input overdrive. Output noise is 2.5 μV and load regulation variance is less than 0.2%. The PS-1 measures 2 7/16 × 4 1/16 × 1 1/4 in (6.2 × 11.9 × 3.2 cm) and weighs 7 oz (198 g) without batteries. It is priced at \$95.

The PM-85C an improved dual magnetic recording system with two independent film-

"In a nutshell, what's the difference between DeLuxe General and the other labs?"



How different can a film lab be? Check out these possibilities:

1 *We're a service lab.* Our customer service men are specialists, trained professionals who understand the needs of each particular project. They make it a point to know you and to be available to help and provide information the minute you want it. They stay on top of your project and when they promise you a delivery date, they mean it.

2 *They have good reason to keep their promise.* At DeLuxe General we know where each job is at any given moment. Our production control system pinpoints the progress of each job in house. Your customer service man can check your job's status immediately by computer readout.

3 *Our equipment is the most advanced, most sophisticated of any lab anywhere in the world.* We have a Research and Development Section to design, engineer, implement and apply equipment... systems... and programming to DeLuxe Laboratories and its subsidiaries.

And to operate this advanced system we employ the best technicians in the business.

4 *If you're doing business with DeLuxe, you don't need another lab for any other services.* We're not a one-shot lab. You might say we're specialists in complete visual communications, and we'll give you as great a product on your first dailies as on your duplicate release prints or your reduction to Super-8 for distribution to the airlines or educational market. And our tv and tape-to-film capabilities are right up there with world-famous "Color By DeLuxe." Worldwide, DeLuxe makes the difference.

Let us improve your image—

de luxe laboratories
DIVISION OF **de luxe general**
INCORPORATED



Hollywood, 1546 North Argyle Avenue, Hollywood, Ca. 90028 (213) 462-6171
New York, 630 Ninth Avenue, New York, New York, 10036 (212) 489-8800
Chicago, 2433 Delta Lane, Elk Grove Village, Ill. 60007 (312) 569-2250

**DON'T
SHOUT!**



Communicator®
hears you.

There's no need to shout or hand signal any longer. The IDI Communicator® hears you and provides constant wireless two-way communications up to 100 yards apart.

It's light and portable. The IDI Miniset® has a noise-cancelling boom mike, making a whisper audible even in high ambient noise areas . . . without touching a button.

Call us now for sale or rental.

New Address:

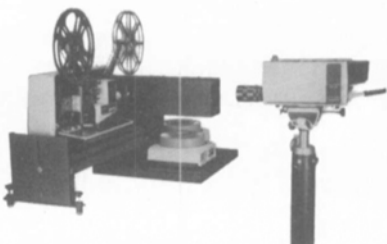
1825 NE 149 Street Miami, Florida USA 33181
305/945-1111
Telex 51-9348
TWX 810/845-4242



**IMAGE
DEVICES**
INCORPORATED

BUHL

**A FILM CHAIN
WITHOUT
A DEDICATED CAMERA**



MOBILE MULTIPLEXER!

Save the high cost of an extra color camera. Studio camera adapts to film chain use in seconds.

Use standard TV zoom lens

Input: Two 35mm slide projectors in dissolve mode plus 16mm or Super-8

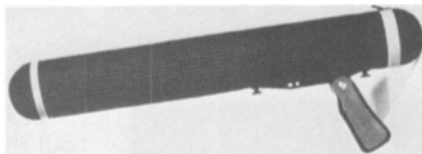
Mobile Multiplexer saves studio space
At \$975.00,
out performs units at twice the price!

For complete technical details--
Contact Buhl.

BUHL OPTICAL
1009 Beech Avenue
Pittsburgh, Pa. 15233
Phone 412-321-0076

BUHL

handling systems and related equipment in a single cabinet developed at RCA Film Recording, Burbank, Calif., has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. The PM-85C can be equipped for 16mm or 35mm sound recording or for a combination of the two film sizes. Plug-in magnetic headplate assemblies permit changing quickly and easily from one film size to the other. The system is available as two reproducers, two recorder/reproducers, or as a reproducer and recorder/reproducer. Prices range from \$11,750 to \$18,000.



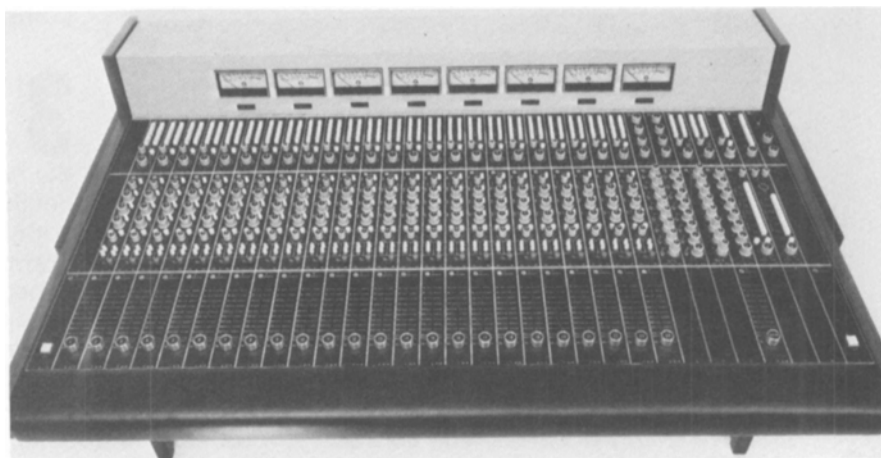
Availability of the **Rycote Windshield**, described as the "original, patented unbreakable windscreen" has been announced by Coherent Communications Co., 13733 Glenoaks Blvd., Sylmar, CA 91342, exclusive U.S. importer. Available for Sennheiser 815 and 415 microphones, the windscreens have matching pistol grips featuring shock mounting, cable strain relief and $\frac{3}{8}$ -in threaded insert for fishpole or boom attachment. The 815 model weighs 8 oz (227 g) and measures $26\frac{1}{2} \times 4$ in (67×10.1 cm). The rear cover is easy to remove and replace. It is held in place by a positive-retention dimple and a Velcro closure. The 415 model is priced at \$110, the 815 at \$125.

Model 375 Audio Tape Recording Electronics, a replacement audio tape record unit, has been announced by Inovonics, Inc., 1630 Dell Ave., Campbell, CA 95008. The unit features

full remote control and three-speed equalization. It has a linearized recording amplifier and phase-corrected reproduce circuitry for low distortion. An optional sync reproduce amplifier has independent equalization for optimum performance in both playback modes. Model 375 plugs directly into most Ampex recorders and can be adapted to most other machines. The price is \$690.

The Alpha 1 and Alpha 11 Pro-Quality Mixing Consoles have been announced by Sphere Electronics, 20201 Prairie "A", Chatsworth, CA 91311. Equipped with eight input channels, the Alpha 1 has stereo outputs and the Alpha 11 has four mixing busses. Each console is 22 in wide, 23 in deep and 9 in high ($55.5 \times 58 \times 22.8$ cm). Features include long-throw conductive plastic faders, solo input, program echo and return, independent cue mix and full monitoring control. The consoles can be used as remote mixers or as permanent sound systems. The Alpha 1 (stereo mixer) is priced at \$2700. Alpha 11 (quad output mixer) is priced at \$3000. Options available include an eight-input equalizer priced at \$850. A talkback/slate is priced at \$150 and a cabinet or portable case is priced at \$150.

The IDA 1000, a tungsten halogen 1000-W lamp designed especially for television studios for use in existing 14-in and 18-in scoops has been announced by Westron Corp. of New York, 75 Ninth Ave., New York, NY 10011. The lamp has a color temperature of 3200 K and a rated life of 4000 h. Features include a double envelope, self-cleaning construction and a mogul screw base. Because of its special construction the lamp burns cooler and can be handled with bare hands by inexperienced personnel.



Grandson II, Model 110-8, the latest addition to the Grand family of audio control consoles (Son of 36 Grand — *Journal*, p. 706, August 1973; Grandson Model 110, p. 544, June 1974) has been announced by Auditronics, 207 Summit St., Memphis, TN 38104. Grandson II is an expandable modular professional recording/remixing/on-air audio control console. Designed for 8-track and 16-track applications, it is a free-standing unit expandable to 24 mixing positions — 48 inputs — in a 50-in (127-cm) width. It provides metering, two echo send/receive channels, talkback communications, separate control room and studio monitoring, either 8- or 16-channel monitor matrix, test oscillator, simul-

taneous stereo and 8-channel outputs, two independent headphone cue foldback circuits and a full line of matching accessories including a plug-in patch bay.

The unit is provided with eight program output channels and eight VU meters. All program inputs and outputs are transformer isolated. A stereo pan-pot and multi-station switches at each input position provide assignment to one or more program output busses simultaneously. Monitoring functions and muting circuitry are TTL logic controlled and may be programmed to meet specific requirements. Prices for the Grandson II consoles range from about \$12,500 to about \$20,000 depending upon various available options.