

new products

(and developments)

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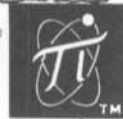
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The NEC FS-10 Frame Synchronizer, a converter that accepts a remote nonsynchronous video source, has been announced by TeleMation, Inc., P.O. Box 15068, Salt Lake City, UT 84115, the North American representative of the manufacturer, Nippon Electric Co. of Tokyo. It produces an output, timed and color-phased to video, from local sources, allowing switching and special effects of asynchronous sources, such as studio, remotes, network and satellite, without the usual program disruption. Through digital conversion of the incoming analog signal, a complete frame of video information is stored in a 3-megabit semiconductor memory at the incoming frame rate and reconverted synchronous with local reference sync. Conversion is said to be made with no detectable loss in picture quality.

The conversion is accomplished digitally using 8-level A to D and D to A converters with sufficient integrated circuit memory to store two complete fields (one frame) of video information. There are four steps involved in the conversion: (1) digitizing the input signal; (2) storage; (3) retrieval; and (4) reversion to analog form.

The first step—digitizing the input signal—is accomplished by means of an 8-bit analog-to-digital converter which divides the peak-to-peak excursions of the incoming video waveforms into 256 separate levels. The instantaneous level of the incoming video signal is quantized each 93 ns (10.7 MHz rate) and assigned an 8-bit binary number that identifies one of the 256 voltage levels. The 10.7 MHz clocking frequency is three times the color subcarrier frequency as derived from the subcarrier burst of the remote video signal. The 8-bit code identifying the instantaneous video level is simultaneously stored in an address to the solid-state memory. Thus, quantizing and input storage are accomplished at a rate synchronous with the incoming video synchronizing and subcarrier waveforms.

Upon completion of the synchronizing function, the video is passed through a processing amplifier to restore the correct sync, burst and blanking portions of the waveform. Price of the NEC FS-10 is \$65,000.

The RDA series of D/A converters for use in reconstructing TV and other video signals has been announced by Computer Labs, Inc., 1109 S. Chapman St., Greensboro, NC 27403. The new 8-bit and 10-bit converters



THE WHOLE SHOOTING MATCH.

Maybe you're shooting documentaries. Or features. TV news. Or commercials (live or animated); travelogues; sports; wildlife; educational films; macrocinematography or cinephotomicrography, you name it. Bolex can provide you with exactly the right camera body, lenses and accessories to assure you'll have just what you need when you need it. (And at prices that may surprise you with their economy.)

The cameras: You get to choose from five rugged camera bodies designed for hand held or tripod use. With either three-lens turret or bayonet mount, with spring motor or electric drive, with 100' to 400' film capacity, for silent filming or sync sound with sync pulse generator or crystal. And that's just the beginning.

Consider features like: automatic threading, flickerless reflex viewing and focusing with complete depth of field control, a filter slot behind the lens, single-frame counter, unlimited film rewind, variable speeds for accelerated and slowmotion filming, single frame filming, variable shutter with automatic control possibility, registration claw for total accuracy in picture steadiness even when films are blown up to 35mm.

The lenses: With the Bolex system, you can choose from 7 fixed focal length lenses, ranging all the way from 10mm super wide angle to long 150mm telephoto. And they all have built in macro focusing, automatic depth of field scales and diaphragm presetting so you can step down the aperture without taking your eye off the reflex finder. You can choose a lens as fast as $f/1.1$, or one that can focus down to one inch without accessories.

The system offers you seven zoom lenses with zoom ranges from 5:1 to 10:1. One of those is the Vario Switar 100 POE-4 with built-in power zoom, automatic light measuring through the lens, focusing as close as four feet and picture sharpness equal to any good fixed focal length lens.

The works: You can extend your basic equipment almost indefinitely with a wide range of accessories.

For instance: if you choose a spring-wound camera, you can automate easily with any one of three auxiliary motor drives, for time-lapse or animation, for variable speed shooting or for filming with sync pulse generator or crystal. The system offers you tripod; monopod; camera grips; blimps; an automatic fading device; cable releases; matte boxes (complete with masks); an underwater housing; attachable exposure meter; 400' magazine; closeup lenses; extension tubes; optical magnetic sound projector.

It's quite a list. But that isn't all. The full story of Bolex's whole shooting match fills a 32 page book. Which we'll be happy to send you. Just write to Paillard Incorporated, 1900 Lower Road, Linden, N.J. 07036. You'll get a very professional response. Other products: Hasselblad cameras and accessories.

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it's **IDI** for:

RENTALS

Film and video people working in the Southeastern U.S. and the Caribbean areas are depending more and more on IDI for the equipment and supplies they need. Our Rental Catalog lists over 500 items and if you don't have a copy, all you need to do is ask. Our experienced staff knows your problems. If we don't have everything you want, we'll try to find it for you somewhere . . .

SALES

Almost all the items in our Rental Catalog (and more) are also available for sale, new and/or used. We cover underwater, helicopter, studio, portable, and high-speed operations. We include Arri to Mitchell; Ampex to Sony; AKG to Vega; Angenieux to Zeiss; Elemack to Scorpion; Arrivox to Nagra; and even include some products of our own design and manufacture.

SERVICE

Keeping all this equipment running at concert pitch takes a little doing and that's where our service people come into the picture. They are some of the most knowledgeable people in the industry. If there's anything they don't know how to fix, they know where to find out. Call us. We're ready before you are.

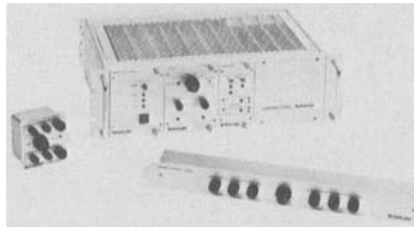
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include a "deglitching" circuit to remove "spike" discontinuities from the analog output. Input word rates of 15-MHz are possible with optional output amplifiers for applications requiring greater drive. Prices on the 5½- by 6-in edge-connector modules range from \$850 to \$950.

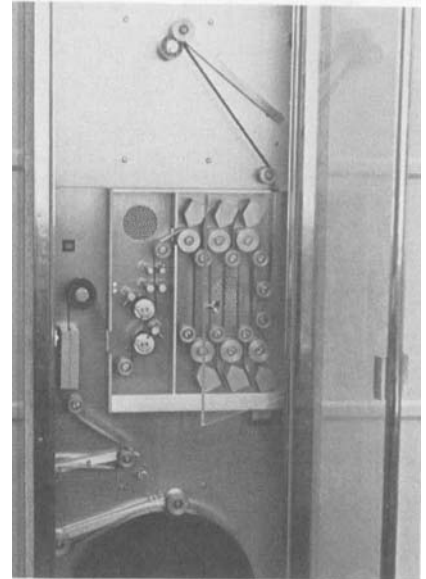


The Chromatech™ special effects system (*Journal*, p. 71, Jan. 1974) is now available with a remote control option, it was announced by Technicolor's American Astrionics Div., 291 Kalmus Dr., Costa Mesa, CA 92626. Chromatech is a special video processing device for superimposing two sources of NTSC video into one composite TV picture without undesirable halos and black outlines. The new remote units are dc controlled permitting the remote controller to be placed in the operations control panel and cabled to the main Chromatech chassis normally located in the switcher. Price for the Chromatech with the remote control option is \$5,795 including a 6-ft test cable and two connectors.

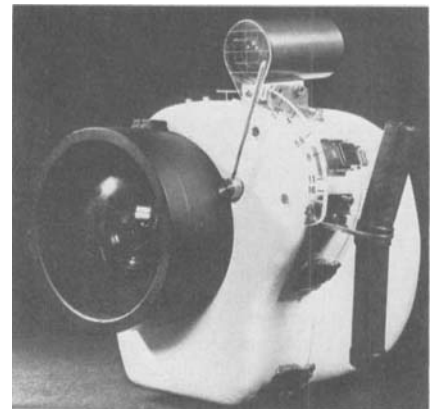
Sonicstore Glass Delays have been announced by Television Equipment Associates, Box 1391, Bayville, N.Y. The 63 μm ultrasonic delay, manufactured in Herts, England, by Sonicstore Ltd. works at 30 MHz in the signal delay network that serves to correct edge distortion. The camera signal passes through two delay lines each of one TV scan line period delay. Portions of the direct signals and those delayed by the two delay lines are then combined and subtracted from the one-line delayed signal to give a combined transmission signal of past, present and future scan lines to achieve improved picture quality of fine detail. The glass delay line is priced at \$50. The EMI 2005 color TV camera manufactured by EMI Sound & Vision Equipment Ltd. in Hayes, Middlesex, England, is equipped with Sonicstore Glass Delays.

The Addresso-Code System, designed to give cable system operators complete options of offering pay cable programs by monthly or seasonal subscription, per-program or a combination of pay plans has been announced by Oak Industries Inc., Communications Group, Crystal Lake, IL 60014. The system provides control of scrambling from the main office and modularly designed head end and subscriber equipment. The system includes signal-processing equipment, the addressable converter/decoder, telephone interface equipment and mini-computer subsystem. The system allows for possible future addition of services including two-way. Since the equipment scrambles the video signal at the head end, only the subscribers who are "addressed" from the cable operator and authorized will be able to view an unscrambled picture on their TV set. The cable system is also able to advise the subscriber by a special tone that his order has been received when orders are placed in advance. The telephone interface equipment can be used in a manual, automat-

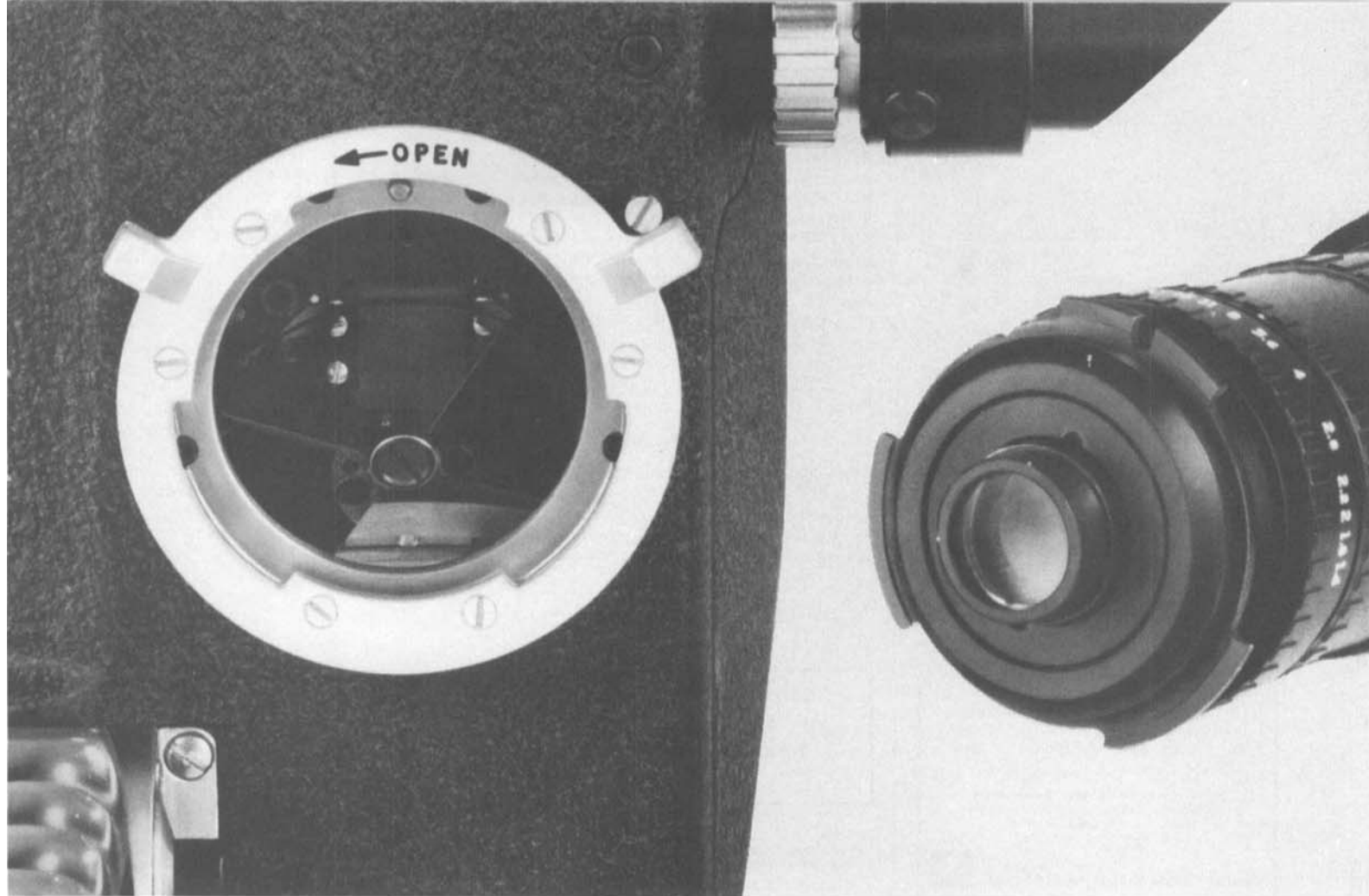
ic or a combination of operating modes. The automatic mode eliminates the need for a telephone operator to receive orders for premium programs. The equipment automatically receives orders made from any standard touch-tone or dial telephone in the subscriber's home and advises the mini-computer of the order.



Technicleaner, a new film and videotape cleaning machine has been announced by Carter Equipment Co., 1050 West Florence Ave., Inglewood, CA 90301. The machine is available in a 16mm, 35mm or combination format. Features include a sprocketless transport system variable from 0 to 300 ft/min. The machine uses commercial grade perchloroethylene as a cleaning solvent. The unit is completely self-contained housing air pumps, solvent filter and circulating systems. Electrical interlocks with high and low tension sensing devices are used to transport the film smoothly and reliably and in full view of the operator. Price of Technicleaner, Model CE-TC-16/35, is \$7520.



The Model ACL-4 Underwater Housing for the Eclair ACL camera with 400- or 200-ft magazine has been announced by Image Devices Inc., 811 N.W. 111 St., Miami, FL 33168. Made of cast aluminum, the housing has been tested to a 350-ft depth. It weighs 39 lb and has a 16 oz negative buoyancy at average working depth. The design provides vertical clearance for tight shooting and diver safety. The f/stop system is easy to read and to operate. A viewable film footage counter and an enlarged reflex viewing system are available as options. Price of the ACL-4 is \$3995.



WE'RE INTO REFLEX NOW...

And that means that *you're* in for the most outstanding 16mm reflex news/documentary camera ever! Designed and built with the same kind of innovative engineering and manufacturing excellence you've come to associate with Cinema Products.

Yes. The CP-16R reflex camera system is everything you would expect from Cinema Products. And more.

Take our new CP-16R *miniaturized* BNCR-type lens mount, for instance. It's the kind you get on professional 35mm motion picture studio cameras. With a positive locking ring to hold your lenses securely. And a locating pin to main-

tain proper lens orientation at all times. With our new reflex CP lens mount system your lenses are protected against any torque-related damage. A mere twist of the locking ring is all it takes to secure even those heavy zooms!

The new CP-16R reflex has really got it all together.

Its spinning mirror shutter, set at a 45° angle, stops automatically in a viewing position. A newly developed erect-image *orientable* viewfinder — designed and manufactured by Cinema Products — locates the eyepiece approximately 1" (25mm) behind the film plane! It is, of course, dioptrically adjustable, with right and left eye viewing. And its highly efficient light transmission system delivers an extremely bright image.

The CP-16R reflex incorporates all the basic features that have made the non-reflex CP-16 the most dependable, best-selling single/double system sound camera of its kind. In addition to crystal controlled sync speeds of 24 or 25 fps, the CP-16R also features variable speeds of 12, 16, 20, 28, 32 and 36 fps. Naturally, you get total System CP-16 compatibility. With the Crystasound recording system, power supplies and camera accessories interchangeable between the reflex and non-reflex models.

The ultra-silent CP-16R reflex. Lightweight. Rugged. Extremely versatile. Ideal for documentary filmmaking as well as TV-newsfilm.

For further information, please write to:

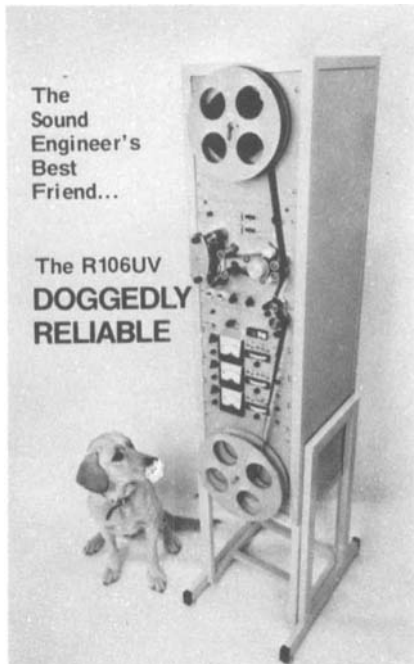
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CP-16R reflex camera shown with Cinema Products' non-orientable viewfinder, with eyepiece located approximately 1" (25mm) behind the film plane; Angenieux 9.5-57mm zoom lens, with CP-mount; plus PLC-4 lightweight 400 ft. (122m) magazine, made of glass-filled Lexan®



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A new digital power meter, Model 4020, for measurement of continuous wave and swept RF power in communications, radar and component testing has been announced by Systron-Donner Corp., 735 Palomar Ave., Sunnyvale, CA 94086. Covering 1 to 18,000 MHz, the power meter features a wide dynamic range of +10 dBm to -40 dBm without autoranging along with fast response for real time oscilloscope displays. The four-digit display provides direct readout case, has been both 50 and 75 systems in dBm with a linearity of ± 0.04 dB for any 10 dB range. Resolution is 0.01 dB over the full dynamic range. Prices begin at \$1,725.

The Kodak Carousel projector case, Model C, a sturdy, molded projector case, has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. It provides a convenient means of storing and carrying all

Kodak Carousel projectors (except 500 series, S, pocket and custom models) and Ektagaphic slide projectors (except arc and RA-960 models) or their equivalents. The case will accept projectors equipped with any of the usual lenses plus one boxed Kodak Carousel slide tray or one Kodak Carousel stack loader outfit or Kodak slide clip set (with storage file). The price is \$17.50.

A super-8 film repair kit containing a film-holding block and a supply of Quik Splice tapes for splicing and repairing film is available from Hudson Photographic Industries, Inc., 2 South Buckhout St., Irvington-on-Hudson, NY 10533, for \$1.00 (to cover the cost of mailing and handling). The film repair and splicing kit can be used with Kodak cartridges and reels, Technicolor super-8 film loops and all other super-8 sound or silent film.

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 First 3 lines \$10.00
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WANTED: Used OMAC 16/35mm colour processor. KEN DAVEY PRODUCTIONS LTD., 685 Sargent Ave., Winnipeg, Canada (204) 774-1629

Positions Available

Production Supervisor/Shop Foreman. Growing manufacturer of motion-picture laboratory equipment seeks young, aggressive machinist for junior management position. Must have laboratory experience or equivalent. Salary and fringe benefits commensurate with background. Foreign applicants invited. Contact Clay Ogletree, Carter Equipment Co., Inc., 1050 W. Florence Ave., Inglewood, CA 90301; (213) 677-6117.

TV Maintenance/Operations Engineer. For Public TV color station in W. Virginia. Excellent opportunities, geographic area, and equipment. Forward resume to: Mr. E. J. Podeszwa, Personnel Officer, West Virginia University, Morgantown, WV 26506. An equal opportunity/affirmative action employer.

Animation Cameraman. Experience desirable. Top professional and technical skill needed for a top studio. Experimental graphics and stop motion. Unique staff opportunity to join one of the best in the country. Goldsholl Associates, Inc. Call Tom Freese or Morton Goldsholl (312) 446-8300

Film Laboratory Supervisor. To take full charge of small but growing lab in the midwest. Must be a leader and supervise production personnel. Should be experienced in all phases of motion-picture laboratory work, timing, printing, processing and quality control. Should have full knowledge of b&w and color, both negative and positive. Send complete resume to P.O. Box 1576, South Bend, IN 46634

Salesman. Photographic and microfilm industrial equipment. Familiar with one or preferably both areas. Direct sales in North Eastern United States. Must have prior experience in equipment sales. Salary plus commission. Send resume and salary history in confidence to P. O. Box 64366, Los Angeles, CA 90064.

ETV Technical Assistance Advisor. El Salvador. Cinematographer, photographer with fluent Spanish and "hands on" experience to teach film processing; repair and maintenance of equipment and to develop manuals in this area for staff training. Creative filmmaker with knowledge of latest equipment and techniques preferred. Term of employment: 10 months beginning immediately. Call collect—Mr. Moseley or Mrs. Blake, Academy for Educational Development, 1424 16th St., N.W., Washington, D.C. 20036 (202) 265-5576.



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Positions Wanted


Television & Audio/Visual. Engineer/Manager seeking a position with a growing communications facility. Five years of experience in planning, design, installation, operations and maintenance of video, audio, and audio/visual systems. Four years of experience in television production activities. Write or call Ken Wollny, 155 Kings Rd., Madison, NJ 07940 (201) 822-3065

Minicomputer Software Specialist. With extensive experience in design and implementation of interactive terminal and graphics systems desires employment in NYC area. Especially interested in minicomputer applications in station automation, video handling, or computer graphics. Double degree in computer science and cinematography. 3 years industry experience. Working knowledge of film and video equipment. Can assume responsibility for system design and development. Resume available on request. Write or call: William Dolson, 409 W. Elm #12, Urbana, IL 61801, (217) 344-0725.

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