

Frank Bias of Viacom, Inc., described the basic elements in a cable television system and he also explained the major factors that are to be considered in modern system design. Pat Bohana of Scientific Atlanta, Inc., gave a talk on satellite transmission of television signals and how the use of this service is rapidly expanding in cable television. The meeting was preceded by a dinner at the Thunderbird Restaurant. — Thomas J. Bowles (Secretary-Treasurer), King Videocable Co., 320 Aurora Ave., N., Seattle, WA 98109.

Toronto, 16 January — The meeting was held at Ryerson Polytechnical Institute with an attendance of 96 members and guests. The program opened with the screening of a portion of the CBC television special, *Anne Murray in Jamaica*. Jim Shaw of CBC and Ron Hutcheon of Palette Productions then told of their experiences during the on-location production of this special, emphasizing that it was shot using 1-in videotape recording systems. Shaw spoke on the production aspects and Hutcheon described the technical considerations. Some of their more pertinent comments related to the ease of setup, the need for minimal rack space in mobiles, ease of repair and the very minimal need for repairs, ease of portability, and the very low power requirements including batteries and lightweight generators. The quality of the 1-in product was said to be equal to or better than quad. Questions raised during the question-and-answer period concerned problems related to untrained crews and to union jurisdictional problems whereby trained cinematographers were not allowed to handle these cameras. — Peter Mugford (Secretary-Treasurer), OECA, 2180 Yonge St., Toronto, Ont., M4S 2C1 Canada.

Industry News & Educational Activities

Eastman Kodak Company has been selected the official photographic consultant to the 1980 Olympic Winter Games by the Lake Placid Olympic Organizing Committee. In that capacity Kodak will provide complimentary black-and-white and color film processing for all accredited news photographers. For black-and-white film, Kodak will utilize normal and push processing; color processing will be for Ektachrome film, process E-6. The Olympic Organizing Committee will open a broadcast center where Kodak will assist and provide technical advice in regard to processing Eastman Ektachrome video news film 7240, 7250, and 7239 and video news print film 7399. Both services will be provided daily between the hours of 8 a.m. and 2 a.m.

In addition to assisting newsmedia coverage of the Games, Kodak will supply medical x-ray film and the use of Kodak RP X-Omat processing equipment at the medical center in the Olympic Village. Approximately 50 specialists and technicians from various divisions will staff Kodak's facilities in Lake Placid.

The Academy of Motion Pictures Arts and Sciences awarded Eastman Kodak Company an

Academy Award of Merit (Academy Statuette) for technical achievement in research and development of Eastman color intermediate II film 5243. The intermediate film, which is used to make color master positives and color duplicating negatives, has drawn wide acclaim from motion-picture producers for its fine grain and accurate color reproduction. It has proven particularly helpful in the production of the new generation of special-effects motion pictures.

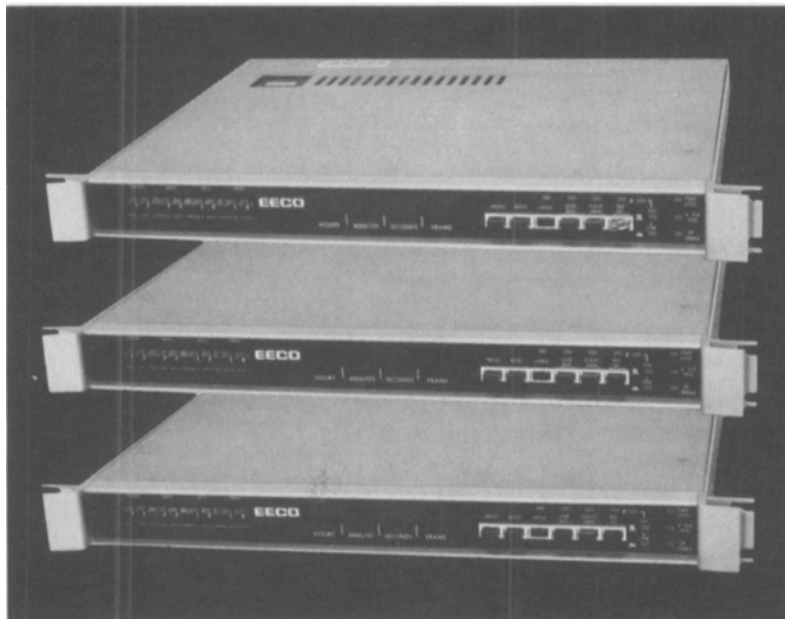
A new television distribution system was jointly announced by RCA American Communications, Inc., Viacom International, Inc., and Post-Newsweek Stations. The system will employ an RCA Satcom satellite to transmit directly to earth stations supplied by RCA American Communications. The first field applications of the new distribution technology will begin this year.

Under the plan RCA will erect, operate, and maintain receive-only earth stations with built-in scrambling and selected decoding capability for specific program reception at specific locations. Viacom will begin distribution of television programs and motion pictures, and the Post-Newsweek stations will receive and record the

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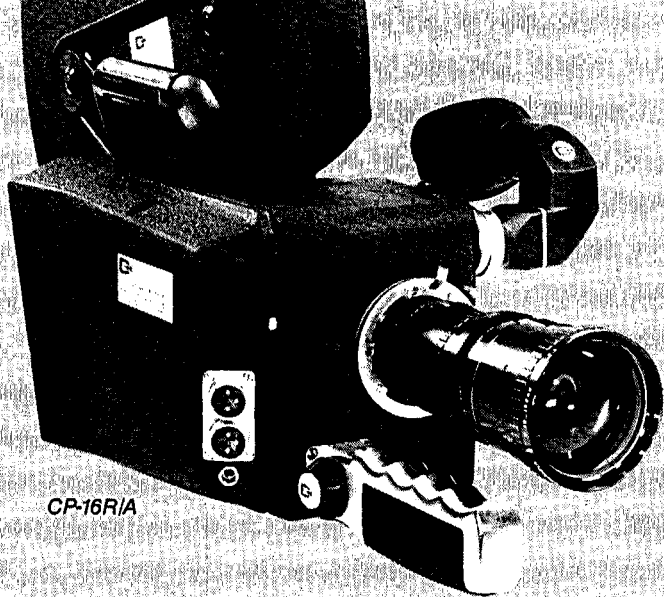
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Featuring a high-quality crystal-controlled single/double system sound capability that is integral to its design, the CP-16R is the quietest, most versatile professional 16mm production camera ever built. The choice of 16mm cinematographers all over the world!

Outstanding Performance

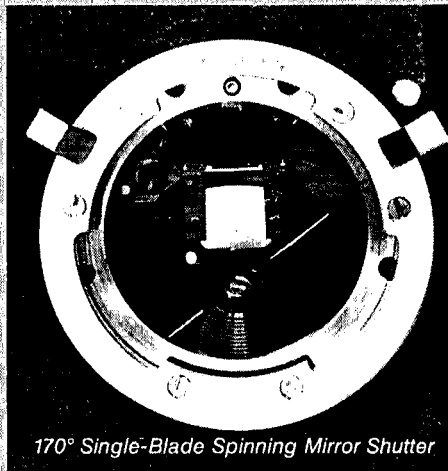
Lightweight, rugged and reliable, the "new generation" CP-16R features a belt-driven, focal plane-type, high-efficiency 170° shutter which delivers approximately 10% more light to the film plane. (And the elimination of one gear pass makes the new CP-16R even more silent in operation!)

Precision engineered and manufactured under the strictest quality controls, all CP-16R cameras leaving the factory are *guaranteed* not to exceed 30 dBA, one meter from the film plane. And, if equipped with Studio Rig, 28 dBA max!

Widest Range of Production Accessories

The CP-16R is the most versatile 16mm camera system designed for fully professional operation, with the widest range of optional important production accessories, all designed and manufactured by Cinema Products:

- *Studio Rig, with full production matte box and professional follow-focus mechanism fully adjustable to accommodate both zoom and prime lenses.*
- *CP Orientable Viewfinder, with 7" extender for convenient tripod operation.*
- *Cinevid-16 video-assisted monitoring.*
- *J-4 Academy Award-winning "joystick" zoom control, or J-5 zoom control packaged into a special handgrip.*



170° Single-Blade Spinning Mirror Shutter

- *Crystaslate automatic slating system.*
- *Exposure control systems (fully or semi-automatic).*
- *Fully self-contained single system sound recording capability with Crystasound built-in amplifier.*
- *Comprehensive range of Crystasound recording system accessories such as: auxiliary mixer, pre-amplifier, 3XL-type magnetic heads, etc., plus Crystalink wireless transmitter/receiver systems.*
- *Steadicam™ — the revolutionary Oscar-winning camera stabilizing system which transforms virtually anything that moves into an effective camera platform.*

Ease of Maintenance

The CP-16R has proven itself as the most reliable professional 16mm camera with the least downtime. Certainly, it is the easiest camera to maintain. For instance, the modular

rugged design allows the entire CP-16R drive assembly and complete circuit board to be replaced within ten minutes. Even under field conditions!

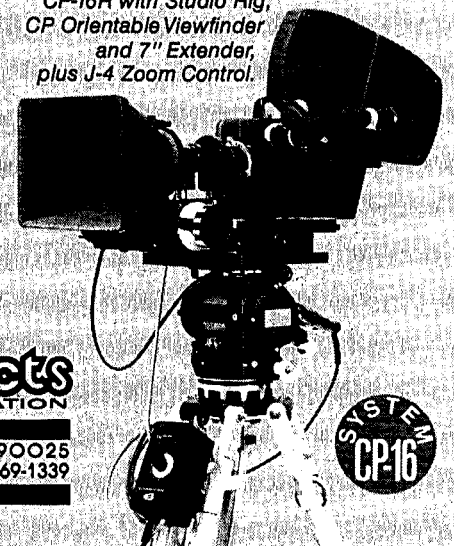
What's more, there is an extensive network of authorized service centers, well stocked with spare parts, located throughout the world.

Reasonably Priced

For all its sophisticated features, the CP-16R is the *most affordable* quality 16mm production camera available. (And, the shrinking U.S. dollar makes CP-16R prices more attractive than ever!)

So be sure to visit your local dealer and see for yourself what makes the CP-16R the definitive 16mm production camera. Ideal for filming 16mm feature and theatrical documentaries for 35mm blow-up, industrial/scientific films, TV commercials and news/documentaries, as well as all other applications where modern production techniques require the ease and efficiency of shooting single system sound with the quality and flexibility of double system sound recording.

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programs in Detroit, Jacksonville, Hartford, and Miami.

The new satellite distribution system will enable distributors of television programming and television stations to bypass present methods of shipping tapes and films by air freight or surface transportation on a daily basis to over 600 television stations throughout the United States.

A two-day telecine symposium was conducted by technical specialists and scientists from Eastman Kodak Company. The symposium, directed towards manufacturers of telecine equipment, included an intensive course on the physical and imaging characteristics of film. Attendees learned that there are a number of advances that have been developed recently which can be applied to film-to-video transfer with increased quality, two of which are solid-state transducers and digital video processing devices.

Ampex Corporation, 401 Broadway, Redwood City, CA 94063, announced a restructuring of its Audio-Video Systems Division. The restructuring, designed to place more emphasis on each of the division's product lines, creates five groups, each headed by a General Manager and responsible for its own engineering, product management, and product planning.

The five groups are: Audio Products, managed by Lee Cochran; Camera Products, managed by Perry Varjanian; Materials and Devices, managed by Paul Baba (the group is responsible for all ferrite, ceramic, and plated products made by Ampex); Video Recorders, managed by Mark Sanders; and Video Systems, managed by Joachim Diermann (the group is responsible for electronic still store devices, graphics and editing systems, switchers, and time base correctors). The restructuring was implemented in order to meet the needs of growing worldwide markets.

Arriflex Corporation, One Westchester Plaza, Elmsford, NY 10523, announced the exclusive distribution of the Sachtler system of precision fluid heads, tripods, and tripod mounting accessories for 16 and 35mm motion-picture cameras in the United States.

The fluid head line features an encapsulated hydrodisk vernier pan and tilt control concept, and a designed-in lens support/quick-change camera-mount facility. The tripod line includes a carbon-fiber tripod, as well as a matching series of Sachtler Duraluminum or steel, torsion-resistant models.

VCI, Inc., 7601 Washington Ave. S., Minneapolis, MN, announced that it has been appointed regional dealer for the complete line of Video 80 television cameras and production equipment, manufactured by Philips Broadcast Equipment Corp. The Video 80 camera features a modular design which permits the basic camera head to be converted into four different configurations through a choice of viewers, lenses, and attachments, offering flexibility to the user. It is intended for uncomplicated broadcast quality color television production without high cost. VCI services Minnesota, North and South Dakota, and western Wisconsin.

E & O Systems Ltd., New York, a subsidiary of Electro & Optical Systems Ltd., Toronto, has been appointed exclusive U.S. distributor for the A/V and Computer Display Divisions of Barco Electronics N.V. of Belgium, manufacturers of color video displays and ancillary equipment.

Barco products include color receiver monitors, portable monitors, modulators, demodula-

When you need microphones with "reach," reach for these!



The CL42S features a large, cylindrical windscreen that traps more sound than any other shotgun microphone ever made. Our exclusive line bypass port makes it more directional at low frequencies so you won't have to sacrifice frequency response when you use it on a boom. Diffraction vanes maintain high-frequency directivity to preserve uniform frequency response if the "talent" gets a little off-mike.

Phantom or AB powered, the CL42S comes complete with windscreen, shock mount, carrying case and handle for hand-held applications. And it's rugged.

The Cardiod System

The CH15S is actually more directional than a mini shotgun mike — in a package that's only 4 inches long that weighs less than 6 oz. Specially designed for boom and fishpole use in TV and motion picture studios, but equally at home wherever working space is small and you have need for a compact, highly directional microphone.

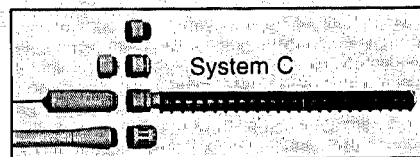
Compatible with phantom or AB power, the CH15S comes complete with windscreen, shock mount and carrying case. And, this microphone is rugged.

The Electro-Voice Warranty

Electro-Voice backs up these two microphones with the only unconditional warranty in the business: for two years we will replace or repair your CL42S or CH15S microphone, when returned to Electro-Voice for service,

no matter what caused the damage!

We can do this because we build these microphones to meet our standards for performance, ruggedness and durability. We accept nothing less, and if you're a professional, buying a professional quality microphone, you shouldn't either.



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A quick look at the Arriflex 16SR production camera system:



With your eye at the 16SR's eyepiece, you can frame, focus *and* set the f/stop. Fast.

Accurate readings

Through-the-lens readings tell you precisely how much light is getting to the film. ± 2 stops, visible in the finder. Range is 24/25–80 fps, 16–500 ASA.

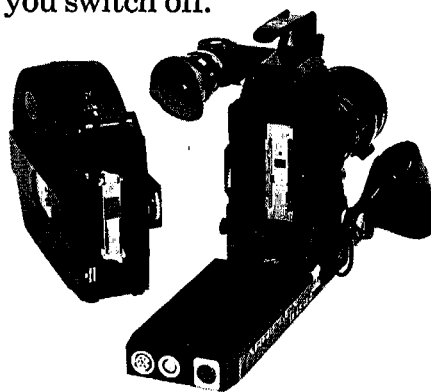
Fiber optic focussing screen

Its better light transmission makes viewing easier at

low levels and small apertures. Less light scatter and no grain result in a sharper finder image with even edge-to-edge brightness.

Automatic iris

With an auto-iris lens mounted, the 16SR stops the lens down to your pre-set f/stop when you switch on, and opens wide again when you switch off.



Four T1.3 Zeiss lenses, and 22 others

In addition to the four super-speeds, there's a choice of fifteen fixed lenses, including an Angenieux 5.9mm. And there are seven zoom lenses in the Arri steel bayonet mount.

Electronics & Crystal

At left are the 16SR's magazine and body. Inside the flat base are electronic integrated circuits for crystal sync, start-mark, off-speed light and slave operation.

Motor & speeds

The 12V DC motor is built into the body, just below the lens mount. No bulges. Off sync speed, a red light shows in the finder. There's a variable-speed accessory—5 to 75 fps.

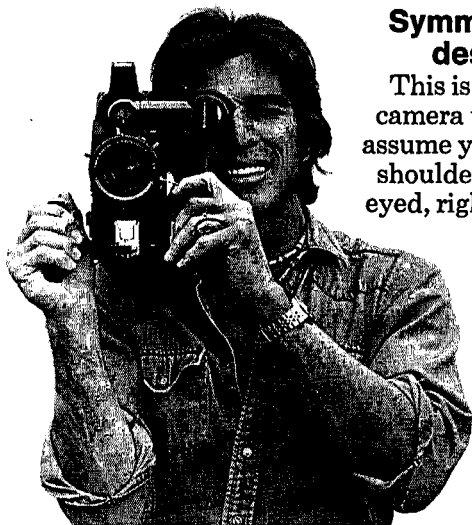
Magazine changes without touching film

It takes about ten seconds. Snap off the old magazine, check the aperture, snap on the the new one. No threading, no loop to form.

That's all done when you *load* the magazine—which is also fast and easy. All you do

Symmetrical design

This is the first camera that *doesn't* assume you're right shouldered, right eyed, right-handed.

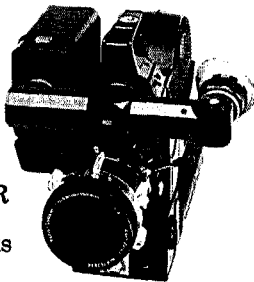


With 10-100mm Zeiss lens and 400 foot magazine as seen here, the 16SR is 15½ ins. long and weighs 14½ lbs. 3 feet from the film plane, sound level measures only 29 dB/A.



Video Monitor

Video adapter (visible on right side of camera) fits onto the 16SR easily, runs on 12VDC and works with most remote TV monitors.



in the dark: put the roll on the core spindle, slide the film end out, close the feed side lid. The entire loop is visible as you form it, in daylight.

Magazine locks

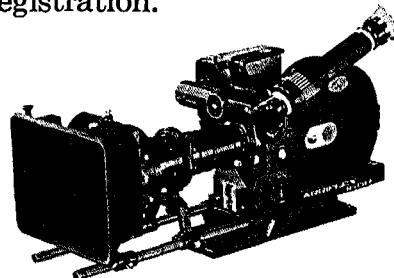
When you snap it on, the magazine is locked into place automatically, at *three* points. And its bottom rests against the camera's base.

Film channel bars

On each side of the aperture is a hardened steel guide-rail bar. They fit against the magazine's face plate, forming a fixed film channel. Only at the aperture does the film make contact with the pressure plate.

Register-pin movement

The 16SR uses a completely new compensating link film transport design with an independent registration-pin. Positive action control at *every stage* of film pull-down and registration.



Bridge Plate & Matte Box

Seen above, the 16SR is mounted on the Arri Bridge Plate, which is adjustable for balance. The Bridge Plate's rods are supporting both a long zoom lens and the 16SR Production Matte Box, which has two rotating 4 x 4 inch filter stages. Note also the 7 inch Finder Extension.



Versatile viewfinder and on-board battery

That's the battery, on the back of the camera. It drives about 2,000 feet. No cables. The finder rotates to left and right *and* it rotates 360° parallel to the camera's side. And the eyepiece swivels 25° out from the side.

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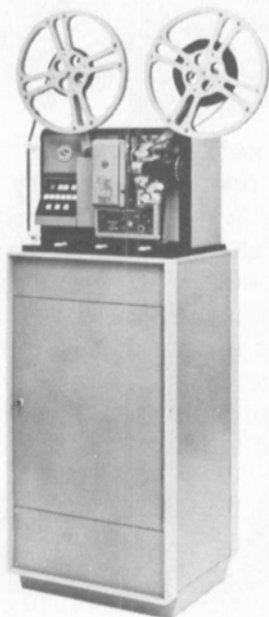
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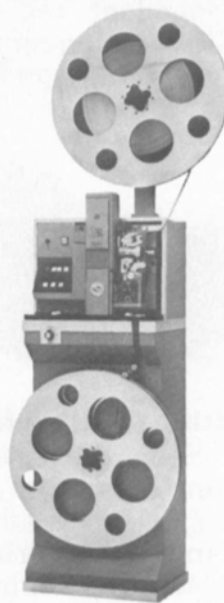


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tors, and consumer electronic systems. The color receiver monitors cover a range of multi-standard units for viewing NTSC, PAL, and SECAM signals. A compact 14-in color portable monitor, the CM33, is suitable for mobile, ENG, and EFP applications. It will operate off 12-V or 24-V dc, as well as normal line voltage. A range of color computer video displays, to be handled by E & O Systems, is available in 14-, 15-, 20-, and 26-in screen sizes at various line and field rates up to 875 lines at 60 Hz.

The Video Place, a new production and post-production company has been formed in North Miami, Fla. The company will go into business in one of two locations now being finalized. It will offer program and commercial videotape shooting, post production, editing, off-line editing, film transfer, cassette duplication, and two mobile production units.

Color Film Corporation, headquartered in Stamford, Conn., has opened a West Coast laboratory for duplication of filmstrips and slide sets. The laboratory occupies 6285 ft² at the Santa Monica Commerceter and offers photography of master negatives, printing, processing, cutting, mounting, assembly, and packaging.

Colortrak Inc. and dbx have announced a merger of their motion-picture divisions to form a new corporation henceforth to be known as Kintek Inc. The corporation, headed by David E. Blackmer, President, will be headquartered in Newton, Mass., where it will carry out engineering and manufacturing of equipment for motion-picture sound recording and reproduction. Research and recording facilities will be operated in Hollywood, Calif. Marketing will be based in Tucson, Ariz.

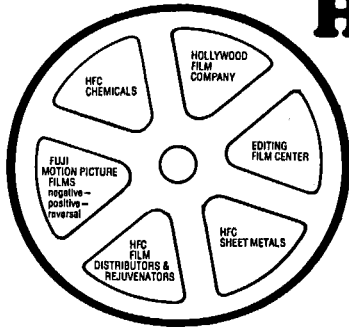
The patented Kintek sound system will be introduced for commercial usage in 1979. It provides an Academy mono track together with the standard optical soundtrack area. Other products will include the Stereophonizer which creates three channel stereo out of monophonic print.

Buck Film Laboratories, Ltd., 714 Banbury Ave., Slough SL1 4LH, Berkshire, UK, has announced a full range of high quality 16mm duplicating and release printing services. The new purpose-built plant is equipped with the latest Peterson total immersion liquid gate contact printing equipment and high temperature ECPII color processes.

Bruno F. Melchionni has been named Manager, Antennas and Technical Services, for RCA Broadcast Systems. Melchionni is responsible for engineering and product management for RCA's line of radio and television broadcast antennas and for various technical service activities which include Tech Alert, customer training, and implementation services. He replaces **John H. Cassidy** who recently was promoted to General Manager, RCA Cablevision Systems, North Hollywood, Calif. Previously, Melchionni was Manager, Antenna Engineering, at RCA's facility for the design and fabrication of broadcast antennas in Gibbsboro, NJ.

James A. Smith has been appointed Western Regional Sales Manager, and **Joseph Ewansky** Eastern Regional Sales Manager, for RF Technology, Inc., Westport, Conn. RF Technology developed the Diversity 950-MHz RF microphone system and recently introduced a 2-GHz 13-channel microwave system for remote broadcasting. Before joining RF Technology, both

at

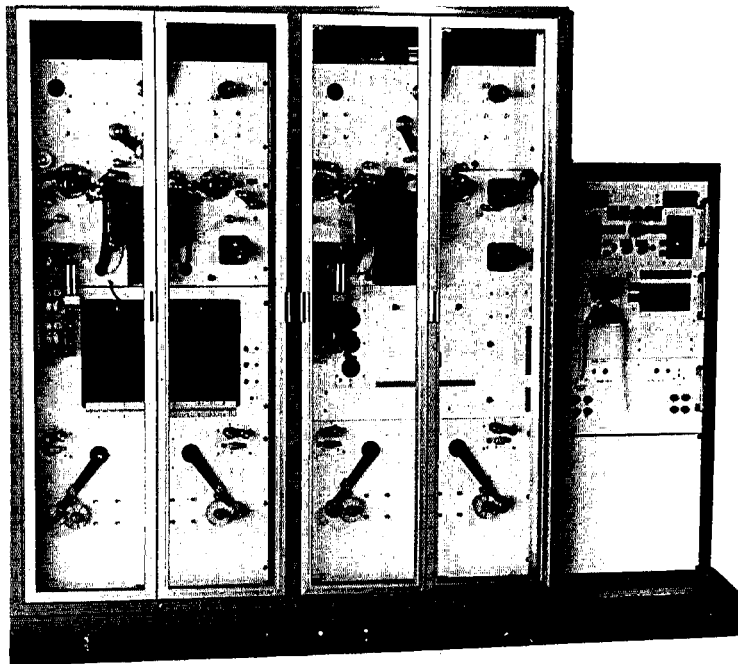


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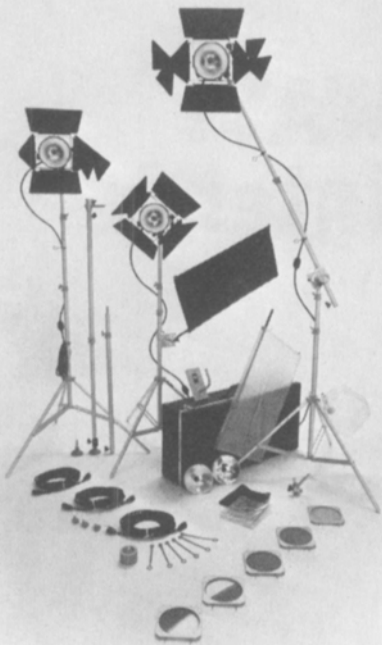
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Smith and Ewansky were Regional Sales Managers for Thomson-CSF Labs in Stamford, Conn.

John Dale has been appointed Vice-President and General Manager of the Magnetic Tape Division of Fuji Photo Film U.S.A., 350 Fifth Ave., New York, NY 10001, it was announced by Fred Nakamura, Executive Vice-President. Dale had been General Manager of the Division which markets consumer audio- and videotapes as well as broadcast and professional videotapes. He joined Fuji in 1974 after serving as Vice-President and General Manager of the Coltape Division of Columbia Pictures Industries, Inc.

Henry Bartels has been appointed Chief Engineer for Precision Film Laboratories, 630 Ninth Ave., New York, NY 10036, an affiliate of DeLuxe Laboratories. He was formerly Director of Technical Operations. In his new post he will supervise the maintenance and control areas for the laboratory and will be responsible for the overall quality of the films produced by Precision.

Ronald H. Fried has been named Vice-President and General Manager of the newly created Broadcast Electronic Systems Division of Toshiba Corp., a diversified electronic/electrical equipment manufacturer based in Tokyo. The new division will be headquartered at 292 Gibraltar Drive, Sunnyvale, CA 94086. Fried was formerly President of International Video Corp. and a consultant in the broadcast field. Immediate plans for the new division include the establishment of a United States and Canadian marketing organization.

Nat Alper has been named Executive Vice-President and General Manager of Wometco Enterprises, Inc., 306 N. Miami Ave., Miami, FL 33128. Wometco Film Laboratories is a full service film laboratory with one-stop motion-picture processing, including an optical effects and sound system for 16mm, 35mm, and super 8. Other services comprise an overnight dailies operation and increased facilities for more rapid printing and processing. A bilingual staff is available to serve Latin American clients.

Harold J. Eady has been named President and Chief Executive Officer of Novo Communications, Inc., a diversified communications and information services subsidiary of Novo Corp., 733 Third Ave., New York, NY 10017. He replaces **Bruce A. Marlow** who has resigned to pursue other business interests. He has previously served for the past 12 years as a Divisional Vice-President and General Manager of Bonded Services, Ltd., the Canadian subsidiary of Novo Communications.

Hank Wilks has been appointed National Sales Manager of Videomedia, 250 N. Wolfe Road, Sunnyvale, CA 94086. He will be directly responsible for implementing a national dealer network representing the Z-6 editing system along with Videomedia's other proprietary products. **Keith Reynolds** has moved from Tri-Tronics to assume the post vacated by Wilks. His responsibilities will include direct interfacing with the broadcast media throughout 13 western states.

Gil Stark has been appointed Senior Field Photographic Engineer of Ilford, Inc., responsible for the western part of the U.S. He will be based at the Ilford west coast distribution center, 2221

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The lightweight, compact J13X9B IE has a broad zoom range of 9mm to 118mm to start. But with our new built-in 2X range extender, it goes all the way to 236mm at a remarkably-sensitive f/3.8. Flexibility you may often need when there's no time to add a separate adapter.

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Books, Booklets, Brochures

Quality Control Bibliography in a revised and updated edition is available from the Graphic Arts Research Center, Rochester Institute of Technology, One Lomb Memorial Dr., Rochester, NY 14623, at a price of \$10. The *Bibliography* provides more than 170 abstracts of important articles and reports showing how companies are using quality control in planning and producing printed materials by applying instruments, standards, and statistical theory to their operations.

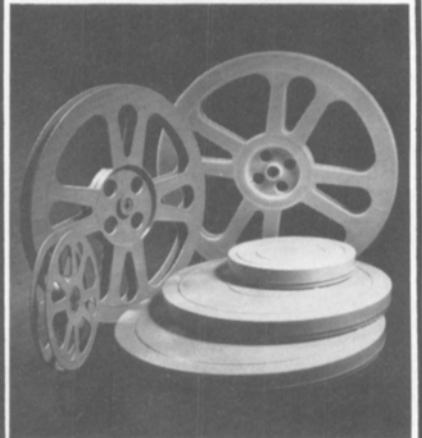
Cinematographer's Field Guide — Motion Picture Camera Films (H-2), a 96-page publication designed to answer everyday film production questions, is available from Eastman Kodak Co., IPD Customer Services, 343 State St., Rochester, NY 14650 (or from Kodak dealers) at a price of \$3.95. The guide is divided into four major sections — film and filter data, usage hints, film packaging, and ordering. The hints section covers shooting film for television and film storage and care. It also includes a discussion of flashing film for contrast reduction or special effects. This section also provides a cinematographer's checklist of the equipment and materials required for shooting on location.

Publication of the final four volumes of the Encyclopedia of Practical Photography has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The 14-volume set, a joint effort of Eastman Kodak Co. and the American Photographic Book Publishing Co. (AMPHOTO) is an alphabetical, thoroughly indexed and cross-referenced photographic encyclopedia. Its 2678 pages contain information on how to do everything from A&B roll editing to zoo photography. Articles by experts summarize, synthesize, and break new ground in an effort to help all photographers, amateur as well as professional, to improve and extend their skills. Volume 14 contains a 48-page index with 7355 entries. A total of 3252 photos, drawings, charts, and tables, most of them in full color, illustrate the series. Cross references occur within and at the end of each article. The entire set is priced at \$159.95. Individual volumes are available at a price of \$11.95.

Process Control Systems, 2nd ed., by F. G. Shinskey (349 Pages, 229 illustrations), is available from McGraw-Hill Book Company, 1221 Avenue of the Americas, New York, NY 10020, at a price of \$22.50. Particularly useful for the practicing engineer, this work develops theory only to provide an understanding of how plants and controls operate, including explanations of why certain responses are observed. Supplying an intimate knowledge of the dynamic and steady-state characteristics of common processes and standard control devices, the author discusses the various methods in the time domain, allowing easy comprehension for the reader with no previous training in control theory or advanced mathematics.

Cohu, Inc., Electronics Div., Box 623, San Diego, CA 92112, has published the 1979 edi-

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