

Industry News & Educational Activities

The American Film Institute/Arts Endowment Film Archival Program has awarded grants totaling \$514,215 for color research and film preservation projects. This year the program is funding two projects, in collaboration with the Library of Congress, which aim at improving preservation methods for color film. Nine organizations and projects have received funding. The Museum of Modern Art, New York, and the UCLA Film Archive, Los Angeles, have received funds in support of their on-going nitrate film preservation programs. The research projects at Wayne State University in Detroit and the University of Delaware in Newark will be investigating processes by which lasers and holography can be applied to the long-term preservation of color film. Further information is available from AFI, The John F. Kennedy Center for the Performing Arts, Washington, DC 20566.

The American Archives of the Factual Film, Iowa State University Library, Ames, IA 50010, has announced the donation of 179 titles of the Eastman Teaching Films by the Encyclopedia Britannica Educational Corp. These silent films were produced by Eastman Kodak Co. from

1927 to 1934 and covered a wide range of subjects for the public schools. In 1944 Eastman Kodak turned over its entire collection to Encyclopedia Britannica Films where they remained until the donation was effectuated.

In 1978 Kodak (Thailand) Ltd. announced the Kodak Golden Reel Awards, aimed at encouraging local motion-picture production and promoting improvements in technical and performance standards. Any Thai movie printed on Eastman color film and grossing at least three million baht (\$150,000) qualified for the award. As a result of an import tax on foreign motion pictures levied by the Thai government, Western film inventories were reduced, sparking what can be considered the best year ever for the motion-picture industry in Thailand with 13 feature films winning the Golden Reel Award. The program standards were updated for 1979: films must now gross at least four million baht to qualify for the award.

Film and videotape piracy was the topic of a panel discussion at the annual conference of University Film Association members gathered

at Ithaca College on 14 August. According to James Bouras, Vice President of the Motion Picture Association of America, the motion-picture industry always had a piracy problem, but within the last six years it has become so substantial that companies are investing in large, worldwide anti-piracy operations. Bouras stated that the three million videotape recorders in home use, 900,000 in the U.S. alone, constitute a market served almost entirely by film pirates. The punishment has in the past rarely matched the seriousness of the crime, said panel member Robert Weidner, an attorney with the U.S. Dept. of Justice; but under new copyright legislation, violators have been meted out more serious fines and prison sentences and have been convicted under mail fraud and interstate transportation of stolen property statutes.

Microfiche reader sales reached explosive proportions in 1978, according to a new study by Hope Reports, 1600 Lyell Ave., Rochester, NY 14606. The study, "Microfiche - A New AV Tool," states that microfiche reader sales far exceeded microfilm readers and reader/printers that year. Use of the computer with the fiche is credited as the key factor in furthering the storage and retrieval system.

In addition to reporting the microfiche as a storage and retrieval system, the study summarizes exploratory efforts in color and in sound for education and training. Current work in color fiche technology is responsible for attracting attention to the fiche as a potential audiovisual tool. Various experimental systems are reviewed and current problems are discussed. The report is one issue of the bimonthly *Hope Reports Perspective*; annual subscription is \$35.

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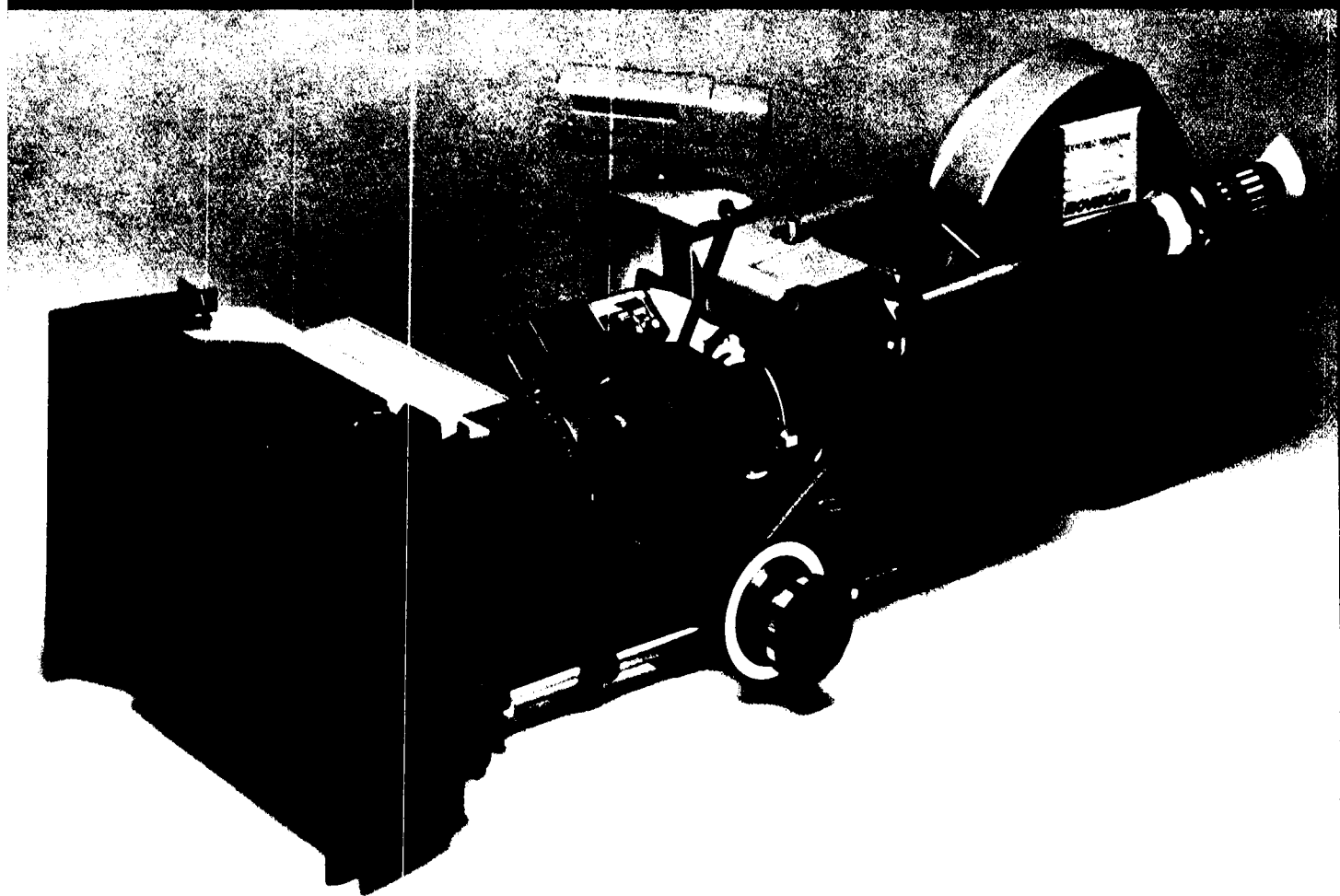
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INTRODUCING MOVIECAM.



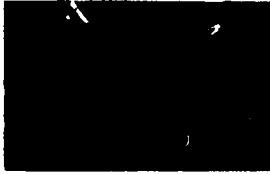
NOW YOU HAVE A CHOICE.

If you made a major motion picture this year, you probably shot it with the Panaflex® camera that so many other filmmakers used. Because it was virtually the only choice. That situation is ended forever. Now there is an alternative, and at least as good a choice ... maybe even better.

Moviecam is a 35mm system designed from the ground up as a system. Each component is a model of state-of-the-art design, right up to and including, a microprocessor. Quality of materials and the precision with which they're assembled is exactly what you'd expect of a camera in this class. And probably a little bit more. Versatility? Here are just a few examples:

Complete New Movement Design.

The compensating link-type movement has dual pilot pin registration and double fork pull down claws for dependable, accurate long service. Among the many advantages this innovative design gives you the ability to thread the camera ten times faster.



So Incredibly Quiet You Can't Hear It.

The sound level produced by Moviecam is under 18dBA (AKG, Vienna). That means you can put your ear or microphone within inches of the camera when it's running and not hear it.



Hand-Held Operation.

The Moviecam weighs a scant 27 pounds with 400' load and 50mm prime lens. And while you're holding the Moviecam you can really concentrate on your scene. The camera won't distract you. It's engineered with a contoured shape to fit your shoulder and distribute the weight evenly and comfortably.

Built-In Slate.

We call it the Digiclapper.™ It can print scene and take numbers in the upper left corner of the first hundred frames of each scene perfectly. That's a great saving of time, stock and fuss on the set.

Built-In Video Capability.

You can feed the image on the ground glass to a TV monitor or VTR while you're filming. So you can see your dailies "instantly". The "Video Assistant" option is a 1½" monitor and control module that can be hand-held. It makes the focus puller's assignment easy and accurate.

Built-In Computer.

The microprocessor inside the Moviecam controls the drive motor. It combines with the most complete range of camera control options available in cinematography. It even tells the built-in heating system when to function.

Forward, reverse, raw stock footage and frame rate are digitally displayed. Plus a phase shifter that synchs the Moviecam to any TV monitor. The speed control allows the running speed to be changed at programmed rates during the shot.

Exposures are automatically compensated. There's even a signal that indicates when something on the camera needs your attention.

The controls are oversized and positioned where your fingers will easily find them. No awkward stretching. No cumbersome operations. Just smooth, professional camera handling.

Lens Compatibility

All the lenses you've carefully collected over the years and wouldn't dream of replacing are compatible with the Moviecam's bayonet BNCR mount.

Upright Viewfinder

You can rotate the viewfinder a full 360° and the image will always be right side up. The Movielite™ feature illuminates the frame outlines in bright yellow for accurate composition in dim light. The image in the finder is always big and bright. The eyepiece is even heated to prevent fogging.



The Moviecam System.

There are scores of other built-in and add-on advantages in the incredibly versatile Moviecam system. And more new components are joining the system. All in all, the Moviecam is an innovative camera. And a superb professional system. Write for our full color brochure. It will make the choice easier.



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Ampex Corp. has received an Emmy Award from the Academy of Television Arts and Sciences for its development of Automatic Scan Tracking (AST)™ technology. It was the only technical Emmy presented this year by the Academy's engineering committee. The AST was introduced in 1976 to provide sophisticated video playback and editing capabilities for Ampex's VPR series of helical scan VTRs. When equipped with the AST option, the Ampex VPR-2 eliminates the problem of tracking and interchange to provide broadcast quality slow motion and still frame playback along with frame accurate editing, variable play, and shuttle features. Because the VPR-2 is capable of actually jumping video tracks while maintaining a perfect picture, systems equipped with AST can also play back tapes that have been damaged or improperly recorded and would otherwise be unrecoverable.

The Allen Products Co., Box 417, 180 Wampus Lane, Milford, CT 06460, in conjunction with Eastman Kodak Co. and the Lake Placid Olympic Organizing Committee, will provide the fastest broadcast quality film processing in the history of the Olympic Games. Two of Allen's RVNP-82 quick turn-around processors will be on-site to enable the nearly 200 accredited cinematographers covering the 1980 Winter Olympics to process their Eastman video news film in minutes compared with six to seven hours at the 1976 Innsbruck Olympics.

The RVNP-82 processor is capable of developing broadcast quality newsfilm at speeds up to 121 ft/min. It contains a 2000-ft film magazine, magnetic coupling pumps, and digital ft/min readouts. It is estimated that more than a quarter

of a million feet of 16mm film will be processed through the system during the two weeks of the Winter Olympics.

3M Company, Nippon Electric Co., Ltd., and NEC America, Inc., have signed an agreement giving 3M exclusive marketing rights in the U.S. and Canada for the recently announced NEC Type C helical scan videotape recorder. The agreement, described as a multi-million dollar contract, is intended as a long-term working arrangement, specifically for five years with options to renew. The VTR, designated the TT-7000 will carry both the NEC and 3M logos. Further information is available from 3M, P.O. Box 33600, St. Paul, MN 55133, or from NEC America Inc., Broadcast Div., 130 Martin Lane, Elk Grove Village, IL 60007.

RCA Global Communications, 60 Broad St., New York, NY 10004, has announced leased channel service between the U.S. and the Bahamas. The service has been authorized by the Federal Communications Commission and is provided via a submarine coaxial cable. RCA Global Communications provides wideband service and standard speed teleprinter service between the U.S. and more than 100 overseas locations.

Marconi Communications Systems Ltd., Marconi House, Chelmsford CMI IPL, England, under a contract from Granada Television is to supply and install complete studio equipment to a new center at Derby House, Liverpool. The equipment to be supplied includes an 8-channel vision mixer, a 24-channel 8-group sound mixer, a power distribution system, moni-

tors, test and internal communications equipment, and synchronizing pulse generators.

Advancements in its 1980 line of 19-in and 25-in ColorTrak color television receivers have been announced by RCA, among them a color receiver that can be programmed in advance to turn on and off automatically on different channels over a seven-day period; improved video performance highlighted by a comb filter system that employs a computer-like memory to "double process" the picture, significantly increasing sharpness. The Dynamic Detail processor system includes a charge-coupled device that provides 330 lines of picture resolution compared to 260 lines in previous RCA color sets, and a Dual Dimension sound system that processes monophonic audio to achieve the presence and two-dimensional audio effect that simulates stereophonic sound.

The Ultimatte system, a video matting system, developed by Vlahos-Gottschalk Research Corp., is available at Solaris Television Studios, 2525 Ocean Park Blvd., Santa Monica, CA 90405, according to a recent announcement. The system uses blue screen matting that can composite two images with no restriction of subject matter. It enables composites to be reproduced with no loss of detail and with no edging or matte lines. In the production area, Ultimatte may be used with live video cameras in the foreground and background or with live cameras in the foreground and with background scenes on tape. Post production composites can be produced onto tape images previously photographed on film. This is accomplished during the tape-to-film transfer process.

The Insurance Policy:

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No longer need you inspect footage in a review room where the screen image lacks crisp definition of detail. The new Cinelux-ULTRA lens by Isco dramatically upgrades screening room projectors...letting you examine the brilliance, the contrast, the nuances you labor so hard to achieve.

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Recognition: The Ampex VPR-2

Recognition for engineering excellence can be measured by the overwhelming acceptance of the Ampex VPR series recorders with the AST* Automatic Scan System. There are now more VPRs in worldwide service than any other 1-inch broadcast recorder. Every major television network uses VPRs for sports broadcasting, where a second look at the action in slow motion or still frame helps make the contest more exciting.

Recognition can also be gauged by the honors Ampex has gratefully

accepted for the VPR-2 this year:

- Academy of Television Arts and Sciences, exclusive Emmy award for the AST system.
- The Royal Television Society of U.K., Geoffrey Parr award for the AST system development team.
- National Academy of Television Arts and Sciences, joint Emmy award for the development of SMPTE Type C format VTR's.

The Ampex VPR-2. A videotape

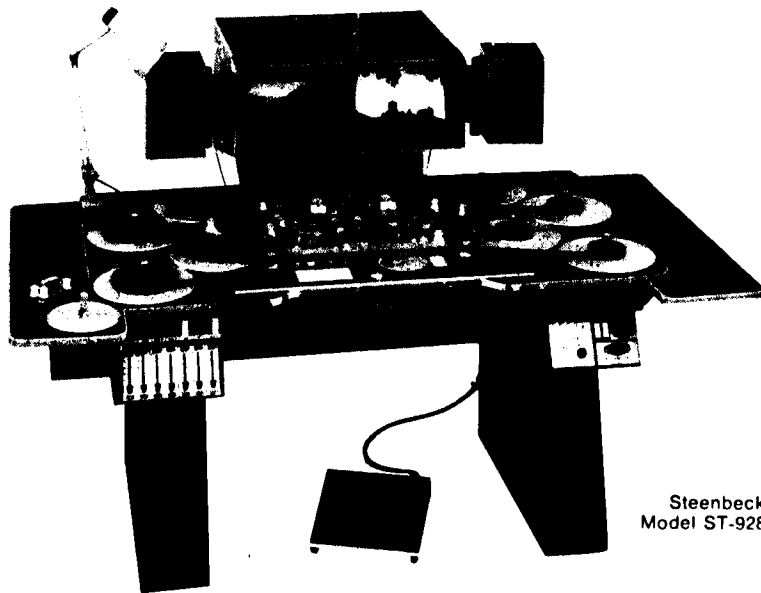
recorder with so many engineering advances that it has quickly become the most successful broadcast product ever manufactured by Ampex. The only VTR available with AST, an Ampex innovation that makes special effects come alive in a broadcast situation.

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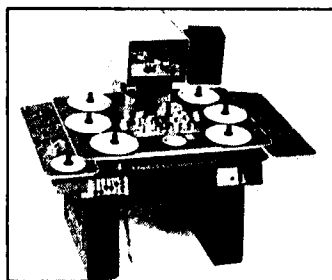
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Drexler Technology Corp., 3960 Fabian Way, Palo Alto, CA 94303, announced a patent entitled "error checking method and apparatus for digital data in optical recording systems." The method and apparatus involve photodetectors monitoring laser beam light passing through and scattered from the media, while logic circuitry monitors detector signals and provides information regarding data-recording errors. This has a direct bearing on photoplate disk technology whereby material (and other) defects may now be detected on the silver-halide-crystal emulsion before processing. Previously, it was not possible to detect such errors before processing, making it inconvenient to correct them.

Bell & Howell has announced its entry into a new business in which it will design and manufacture display monitors for the computer terminal, word processing, and medical markets. This effort will be conducted at the TeleMation Division in Salt Lake City. The products will be marketed to the computer industry and other OEM markets under the Bell & Howell name and will be marketed to professional video markets under the TeleMation brand name.

The position of Marketing Director has been created in the marketing arm of Eastman Kodak's United States and Canadian Photographic Division, according to a recent announcement. The company also announced the appointment of nine Marketing Directors: David P. Biehn, Professional and Finishing Products; C. Harold Gaffin, Graphics Market Division; L. Lee Horschman, Micrographics/Information Technology Products; R. Barnes Parsons, Clinical/Chemicals Products; David N. Rohrback, Copy Products; Stephan S. Stepnes, Consumer Products, Traditional; Thomas E. McGrath, Jr., Consumer Products, Instant; Kenneth R. Tackett, Diagnostic Imaging Products; and John R. Zeman, Motion Picture and Audiovisual Products.

TeleMation, a Division of Bell & Howell Co., P.O. Box 15068, Salt Lake City, UT 84115, has announced the signing of a marketing agreement with Dytek Industries, Inc., of Denver, Colo., to distribute their production switcher line, the Dytek SL series video controllers, for domestic and international markets. TeleMation will also distribute Dytek's DVC series of switchers.

WJET-TV, Erie, Pa., is upgrading and modernizing its studio and transmitting facilities with RCA equipment valued at \$500,000 according to RCA Broadcast Systems, Camden, NJ 08102. The channel 24 station has placed an order which includes a UHF transmitter exciter and a TFU-25G pylon broadcast antenna, as well as a TR-600 quadruplex VTR, a complete TK-28B telecine camera, and two TK-46 studio cameras.

LE-BO Products Co. of Maspeth, N.Y., has appointed Video Components Inc., 601 S. Main St., Spring Valley, NY 10977, as their national representatives for their line of videocassette storage systems, Models VCM-1000 and VCM-1002. The storage system is composed of an injected molded unit which holds 12 VHS or Beta cassettes and can be either wall or table-top mounted. Features include an ejector system which facilitates removal of the cassettes.

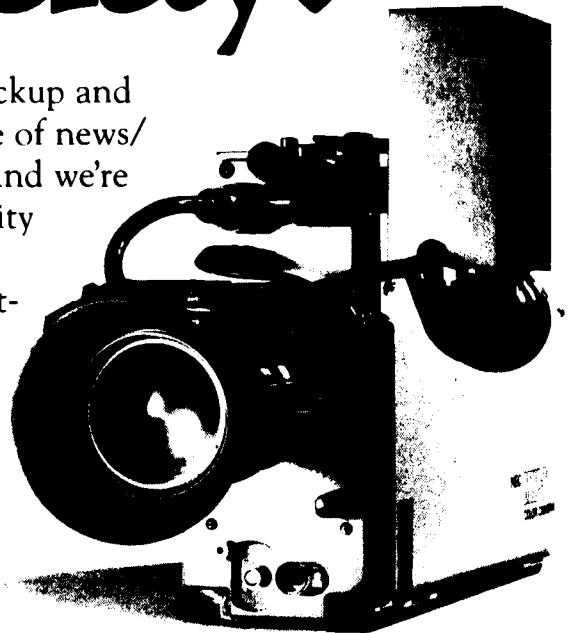
Video Software & Production Inc., has announced a move to a 55,000 ft² complex designed to house executive offices, production facilities, post production editing, a vid-

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Note and compare:

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- ☑ Replacement parts available anywhere in the United States within 24 hours!
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ecocassette duplication plant, and mobile unit home base. The new address is 380 Walnut St., Yonkers, NY 10701.

Lawrence Driscoll has been appointed Manager, Broadcast Services, RCA American Communications, Inc., 201 Centennial Ave., Piscataway, NJ 08854. Driscoll has responsibility for Americom's video/audio services to commercial broadcasting organizations. These include the SMARTS (Selective, Multiple Address Radio and Television Service) project, small-dish audio services, television services, and point-to-point audio services. **Lou Donato** was assigned responsibility for satellite distribution services utilized by Americom's three major network accounts — ABC, CBS, and NBC. **William Kopacka** was appointed Manager, CATV Services. He is responsible for sales and services to CATV program distributors utilizing RCA Americom's SATCOM satellite to reach over 1200 cable television systems. **Bradley Dusto** was appointed Manager, Video Services. He is responsible for video service offerings of RCA Americom, including the SMARTS project. **Jim Grady** is Manager, Audio Services, responsible for developing markets for Americom's small-dish audio services to radio broadcasters and for point-to-point audio service via satellite.

John Ratcliff has retired from the board of Rank Film Laboratories. He was appointed director, in 1970, with responsibility for marketing, a post he held for seven years. He established the marketing and sales department and played a major role in the redevelopment of the laboratories' facilities and diversification of its trading interests in the United Kingdom and

overseas. He also helped to forge links with major laboratories in other countries, including Technospes S.p.A. of Rome to provide distributors with an international processing network.

Books, Booklets, Brochures

The Directory of Engineering Societies, a compilation of 460 national, regional, Canadian, and international organizations covering all known nonprofit organizations that have primarily engineering and scientific activities, is available from Engineers Joint Council, 345 E. 47 St., New York, NY 10017. Each of the entries includes the name of the society, association, club, or fraternity; its official abbreviation; address and telephone number; the name of the principal officer, editor-in-chief, and elected officers; data such as founding date, size of staff, number of members, and annual budget are included, if available. The price of the directory is \$23.

Handbook of Electronics Calculations for Engineers and Technicians, edited by Milton Kaufman and Arthur H. Seidman, is available from McGraw-Hill Book Co., 1221 Ave. of the Americas, New York, NY 10020. The areas covered include basic technical mathematics, dc and ac circuit analysis, audio and tuned amplifiers, feedback, oscillators, power supplies, digital logic, computer-aided circuit design, transmission lines, filters, antennas, communications systems, and microwaves. This 668-page book contains 725 illustrations and is priced at \$24.50.

SIT and SEC Camera Tubes is the title of Technical Note 10, available from Quantex Corp., 252 N. Wolfe Rd., Sunnyvale, CA 94086. The characteristics and differences of these two high gain camera tubes are discussed with regard to particular applications. The basic structures of SIT (silicon intensified target) and SEC (secondary electron conduction) tubes are diagrammed and explained, as well as the combination of these tubes with an image intensified SIT (ISIT) or intensified SEC (ISEC) camera. The use of an extended integration mode in either ISIT or ISEC cameras for achieving extremely low light level imagery is described.

A Video Glossary is available upon request from US JVC Corp., 58-75 Queens Midtown Expwy., Maspeth, NY 11378. Terms are alphabetically listed, ranging from Camera through Vidicon. The 8-page glossary was compiled to aid the informed selection of a videocassette recorder system.

Gould Bulletin 449-11, describing the Gould OS3500 oscilloscope and optional DM3010 digital measuring unit, is available upon request from Gould Inc., Marketing Services, 3631 Perkins Ave., Cleveland, OH 44114. The portable oscilloscope, designed for laboratory and field use, measures advanced digital and conventional electric/electronic circuits. Gould Inc. is an international developer and manufacturer of electronic products.

Care and Feeding of the Mobile Multiplexer, a booklet describing the production of slide presentations and how to transmit their programming to video using the mobile multiplexer, is avail-

RCA's new FR-16 for television. It's a 16mm projector— and more.

True, the FR-16 is designed for projecting 16mm film in a telecine system, but it is much, much more than a projector.

The FR-16 is a new film handling concept which features a unique servo-operated film drive station. The results are significant: a system that's gentle on film, quiet-running, and easy to load and to operate.

But that's just the beginning. Consider these extra FR-16 features for enhancing post-production operations, particularly for 16mm film-to-tape transfers:

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