

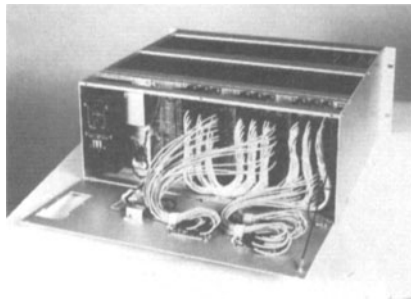
New Products & Developments



The TK-86, a self-contained portable color television camera, designed for ENG and EFP applications, the successor to the TK-76, has been introduced by RCA Broadcast Systems, Bldg. 2-2, Camden, NJ 08102. The TK-86 is shaped for easy handling, its curved bottom being lined with a contoured pad so the camera rests comfortably on the shoulder and balances easily. The TK-86 also incorporates technical features that further extend the performance capabilities of ENG/EFP cameras. All the automatic camera functions are included, plus additional features such as comet tail suppression, contrast compression and high sensitivity, low noise operation. A complete range of remote control system accessories is available, the remote systems ranging from simple control

through a remote panel to full control of camera video functions with a multicore or triax cable. Wireless field production systems also are available in the triax mode of operation.

The TK-86 is designed to make use of the low capacitance Saticon or lead oxide tubes. The price of \$41,500 includes the tube.






A new range of audio switching systems for television and radio broadcasting has been announced by Pro-Bel Ltd., Terrace Rd., Binfield Bracknell, Berkshire RG12 5DN, England. Designed to complement their existing vision

switchers for applications of 16×16 up to 256×256 , the system is custom built from a range of 4U cards. These include an 8-channel input card providing high impedance balanced inputs with or without transformers, an 8×8 cross-point card using jFETs as the switching element, and an output card providing low impedance balanced outputs for 8 channels. An optional Core output transformer card may be included.

The system is said to provide a high level of performance, excellent crosstalk, and extremely low levels of switching transients. Control is compatible with the vision range from custom built panels providing a choice of buttons or keypads with lamp tallies, numerical indicators, or alphanumeric displays. An RS 232 interface and a standard video output showing switcher status are also available. Typical prices with X-Y control or button per crosspoint via the firm's 20-wire bus range from about £15,000 for a 32×32 audio routing switcher to £8,000 for a 24×16 (shown above). The prices are for the matrix only and do not include control panels.

A lightweight back electret condenser monostereo microphone, the ECM-989, has been announced by Sony Industries, 9 W. 57 St., New York, NY 10019. It can be stand-mounted or handheld. A docking two-part design has separable capsule and power supply units to allow remote control capability. The ECM-989 uses three identical cardioid capsules—one mid (M) capsule with front orientation and two opposed side oriented (S) capsules. The microphone utilizes gold evaporated 6μ polyester film diaphragms. It has a frequency response of 20-20,000 Hz and signal-to-noise ratio of 66 dB.

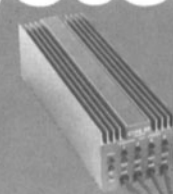


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The Total On-Camera Battery System

- Longer-life, longer-running power, classic durability and new electronic circuitry for Fast or Standard Charge.
- High capacity, high performance, Nickel-Cadmium cells in rugged ABS modules with quick access, easy-on/off covers to simplify inspection or replacement.
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See Us At Booth #1037 NAB.

DYNAMIC NEW DIMENSIONS IN VISUAL PRESENTATION —with General Electric Professional Large Screen TV Projection



IN TV PRODUCTION—General Electric color projector displays rear-screen program material, and can be used for unusual special effects.



IN ENTERTAINMENT—A General Electric color TV projector brings large screen race action to Ontario Jockey Club, near Toronto, Canada.

General Electric professional large screen television projectors—displaying color or monochrome pictures up to 25 feet wide—bring new dimensions of presentation impact to a broad spectrum of applications.

A wide choice of new and improved color and monochrome models is available to meet specific requirements for television display applications, in standard or high brightness, for various scan standards.

The color projectors utilize General Electric's exclusive single optical path light valve. All color information is projected simultaneously in one light beam. This system eliminates time-consuming registration of three separate images which is required for all other color television projectors.

These projectors can display any size television picture from two feet to 25 feet wide, with high resolution and contrast over their full range of light output.

Among the primary applications of the projectors are:
Medical and Dental Education. Technique and procedural training.

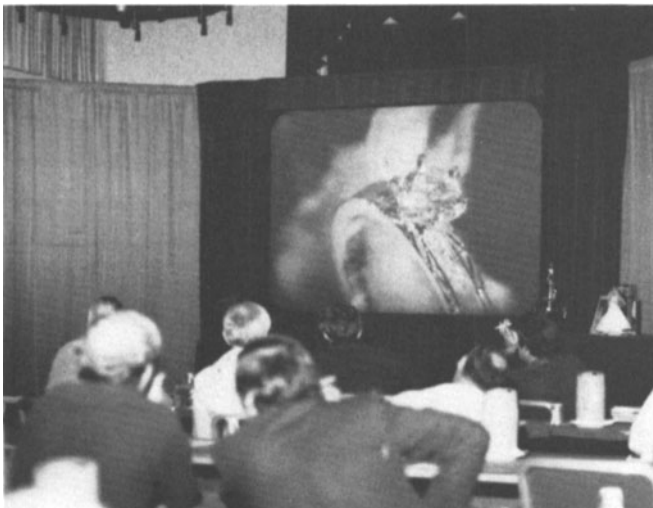
Business. Sales meetings, industrial training, product presentations, real-time display of computer-generated data, satellite-transmitted conferences.

Aerospace and Defense. Situation displays, simulator training.

Entertainment. Theatre television and closed-circuit TV events, overflow crowds, discotheque special effects.

Television Production. Backgrounds for news programs, special effects, data display, program previewing.

Call or write: General Electric Company, Video Display Equipment Operation, Electronics Park, 6-206, Syracuse, NY 13221. Phone (315) 456-2152.



IN SALES—General Electric color TV projector dramatically displays new product highlights at Keepsake® Diamond Rings annual meeting.



IN THE BOARD ROOM—At Mellon Bank, N.A., Pittsburgh, General Electric color projector displays computer data, graphs and information.

GENERAL  ELECTRIC

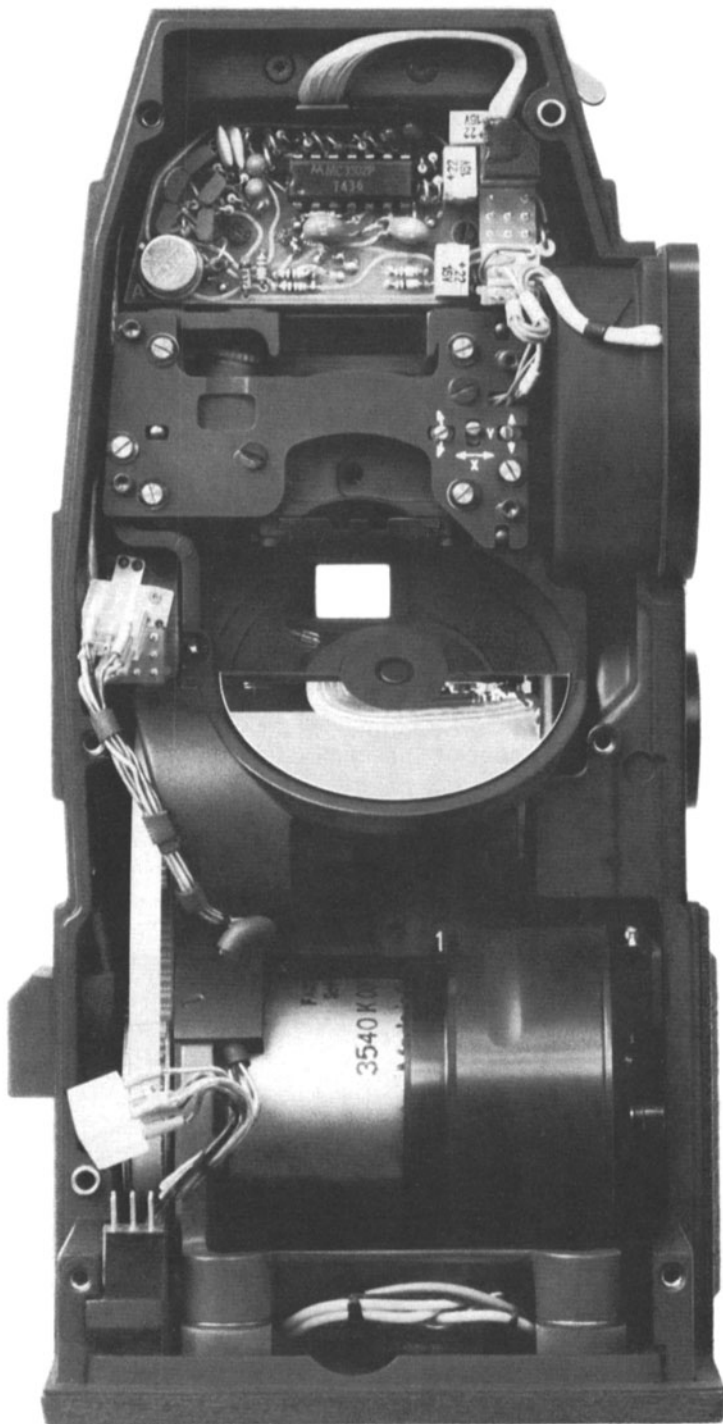
24 karat gold-plated plugs:

This is the first camera ever to build both speed and accuracy of maintenance and repair into the original, modular design. The plug-in wiring is just one detail of a system designed to save money later.

The two best conductors of electricity are silver and copper; but they oxidize. So does steel, of course. Gold doesn't; and it's the third best conductor.

So gold gives you both excellent current flow and a firm contact, even in the humid tropics and in salt ocean spray. And you can go to corrosive places like that years from now, and still rely on it.

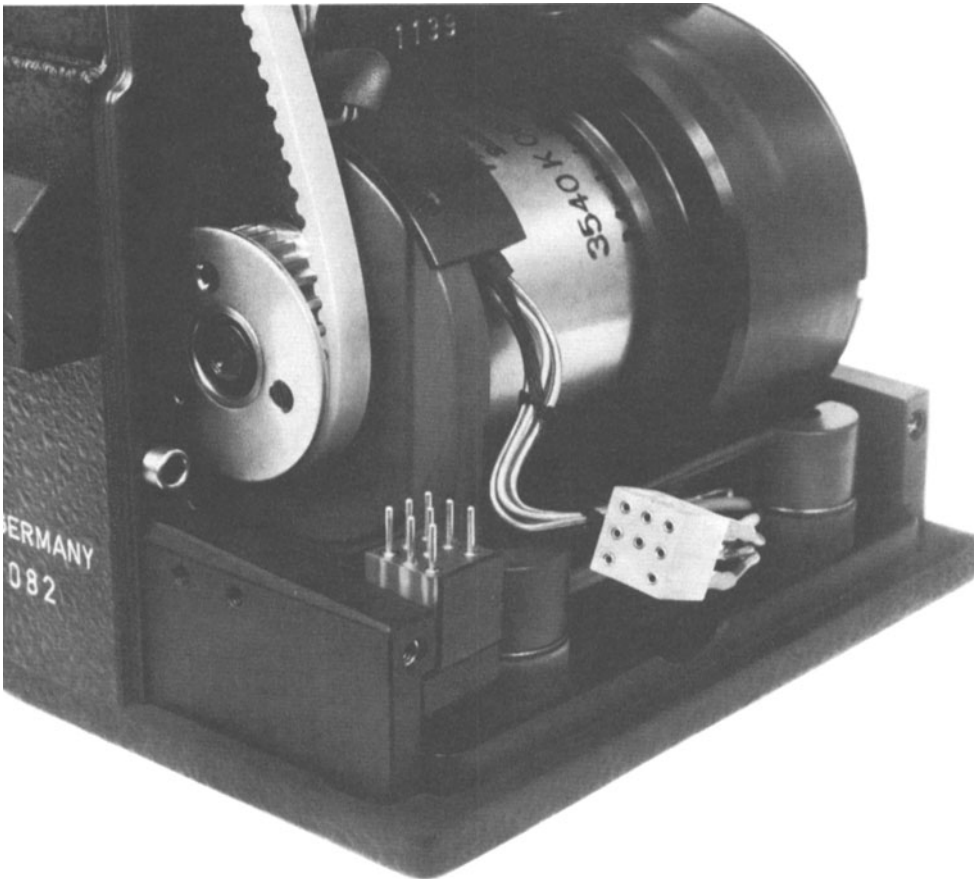
The big photo at left shows the front of the rear half of the 16SR camera housing (see caption below it). In the top right corner, you can see one of several plugs. Eight gold-plated pins, pointing directly at you—two in the top row, three in the rows below.



Small photo at right shows 16SR with magazine removed. You can see film channel and aperture on the camera housing. That housing consists of two

modular die-castings: front and rear. Big photo above shows front of rear casting. You are looking at aperture from other side—from *inside* the housing.

Technology of the 16SR/One of a Series:



In big photo at far left, you can see wiring harness emerging at various points inside rear half of camera housing, plus several gold-plated pins and sockets. Photo above is a closer look at

one of those. Note that pins and sockets are *keyed* so they can be connected only one way, to ensure correct polarity. Photo at far left is the actual size of the compact 16SR camera housing.

Those pins are part of the wiring harness of the rear half. They connect with a gold-plated socket that's part of the wiring harness inside the *front* half of the camera housing.

The 16SR consists of fifteen interchangeable modules. The front and rear camera housing halves are two of them. When we separate those two (or any other) modules for service, we unplug the wires.

The wiring harness is itself a spare part.

There are no loose wires inside the 16SR. And all fifteen

modules can be put together without using a soldering iron. A perfect soldered joint is the best there is. But soldering isn't always done right. Gold-plated plugs are more foolproof and *faster to work with*.

Time is money and will continue to be.

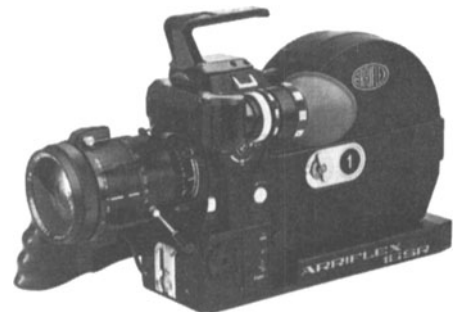
When you buy a camera, you know the purchase price. But you don't know what skilled service labor will cost three years from now. You don't know what it will cost to rent another camera while yours is being worked on, three years from now.

Modular saves time.

All cameras need routine maintenance. Modular design makes adjustment quicker. Repair is quicker, too. Since the camera is designed to be dismantled easily, we can get at the trouble fast.

But that's only part of it. The malfunctioning or damaged component can be replaced immediately, from our stock. We can put in another on-off switch, for example, *while you wait*. Downtime measured in minutes.

This advertisement tells only a fraction of the modular story, of course. But the fact is: The 16SR is the most sophisticated 16mm camera in the world. It's also the simplest to service.



16SR

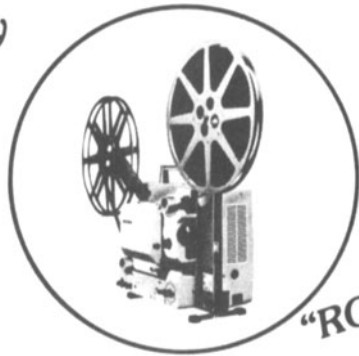
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what you
pay for.**

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Slot-Load
Threading
System



Featuring
Exclusive
"ROLL-LOADING"

“ * 16mm Motion Picture Projector * ”
THE FILM HANDLING MACHINE

The Rangertone SC-210 Series Sound Projector is one of the most unique portable projectors. It is a result of Hokushin's traditional design technique and experience. The exclusive "Roll-Loading" threading allows the operator to thread the film onto the projector quickly and easily. It is light weight and equipped with a 250 watt Quartz Halogen Lamp, built in loudspeaker, 25 watt audio-amplifier, high speed rewind through sprockets, automatic loop restorer and unique roller linked sprocket drive. The SC-210 is undoubtedly one of the finest, safest, most versatile projectors available today.

*** The Rangertone Difference ***

When you buy a Hokushin projector you qualify for Rangertone's unprecedented 3-5 year warranty, long term lease/purchase programs, and engineering expertise.

Exclusive U.S. Distributors for HOKUSHIN A-V
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The pickup qualities can be varied from mono to 150° stereo by adjusting the gain of the S capsules relative to the M capsule using the directivity control on the power supply unit.

The control Unit of the ECM-989 has fully adjustable directivity control that can be continuously varied from 0° to 150° with a detent provided at 120°. The control unit requires a 1.5-V AA-type battery to provide long life operation due to low current draw. The price is about \$435. Available accessories include a 2.5-m output cable with left and right XLR-3 12C connectors, stand adapter, and urethane wind screen.



A dynamic cardioid microphone, the PL 80, has been announced by Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107. The new microphone is intended specifically for the professional vocalist, and represents the application of a new design concept (called the "fast Fourier transform"—FFT) that allows engineers to predict how the microphone will sound in a "live" environment while it is still in various stages of design.

Features include a shock mount to reduce noise plus a built-in blast filter. It is constructed of aluminum and diecast zinc. The price is \$199.95.



The DRE 2000 digital reverberator has been announced by Sony Corp. of America, Professional Audio Products Div., 9 W. 57 St., New York, NY 10019. Features include a 10-program memory, handheld controls, and four reverberation modes (two for echo, two for delay), and in addition, a non-volatile memory. The DRE-2000 is capable of direct interface with

NEC DME® System features:

- Single or dual channel operation with DME dual system for simultaneous single-studio multi-channel or two-studio single channel use.
- Complete frame synchronization on all inputs including TBC, freeze and Velcomp capabilities.
- Intelligent digital control system with 18 complete memory locations of start and finish position/size and special effects.
- Automatic pan and tilt control with limit for not going out of frame.
- New vertical and horizontal inversion effects including "tumble" using new digital control.
- New "mosiac" effect with adjustable tile size for dramatic visualization of show openings and closings.
- TTL pulse circuitry for sequential and external triggering to permit extensive interface with editors and other creative controllers.

NEC DME Control features:

- Operation with DME or existing DVE® Digital Video Effects System for full digital control of all system functions.
- Memory capacity for 18 complete pattern manipulations including start position and size, finish position and size, posterization and

solarization effects, freeze frame or freeze field and real time frame entry of effect duration... all effects instantly and exactly repeatable.

- Automatic pan and tilt functions with selectable limit to prevent pattern transition beyond blanking.
- Memory reveal function to permit image-track effects by revealing the entire memory and removing normal mask.
- Bridging of all memories to permit multiple effect sequences up to 999 frames each for a total capacity of 17,982 frames of pre-programmed effects.
- Auto-freeze for pre-timed incremental freezing.
- All digital construction including digital shaft encoder instead of conventional faders.

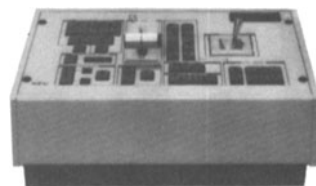
For more information 24 hours a day, call toll-free (800) 323-6656.

In Illinois, call (312) 640-3792.

NEC

NEC America, Inc.

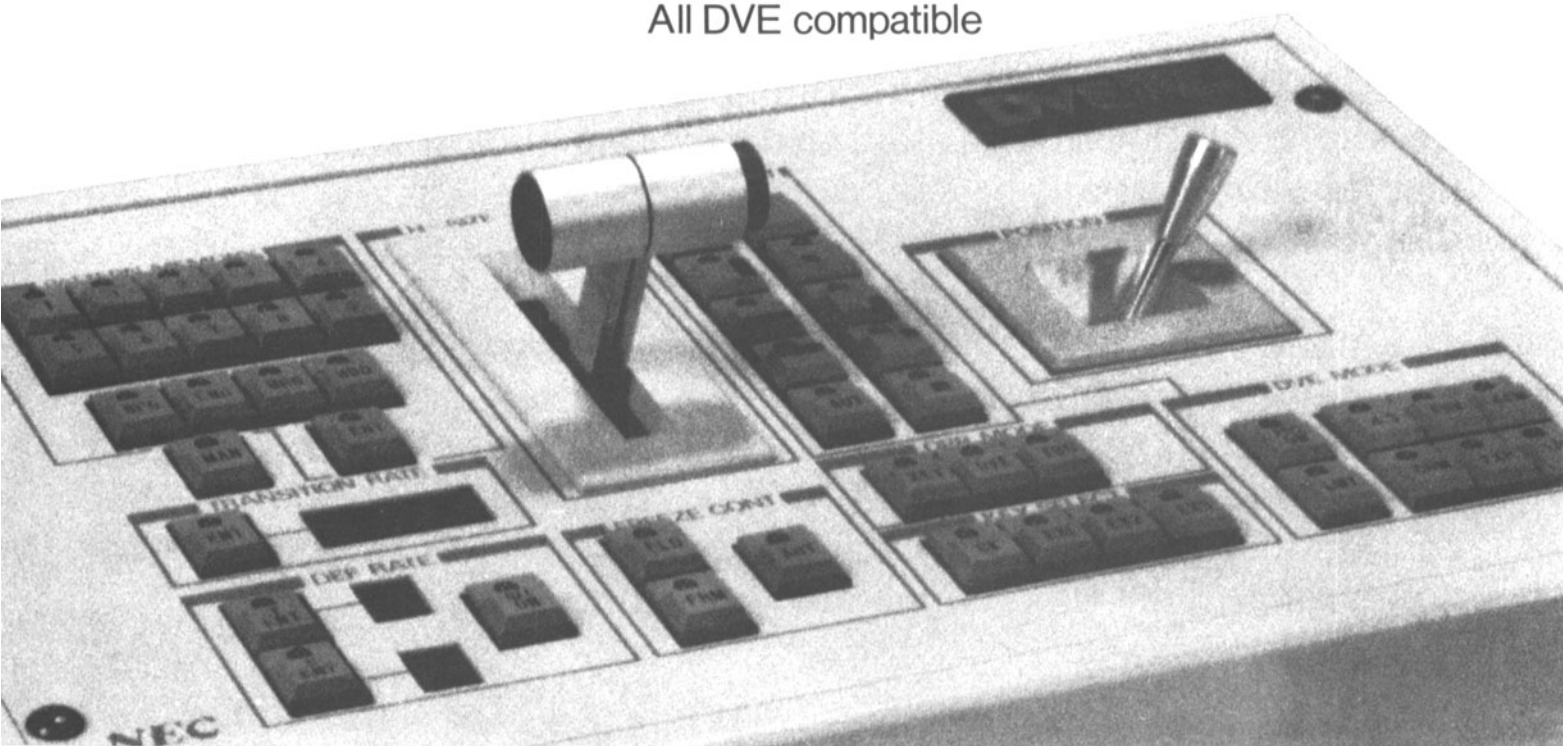
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NEC INTRODUCES THE MOST FLEXIBLE DIGITAL EFFECTS SYSTEM AVAILABLE!

All digital control
All function memories
All DVE compatible



Old pictures don't die...



photo : Collection Cinémathèque Française

Buster Keaton in Sherlock Junior, 1924

And they don't fade away either

There has been a rather ominous rumour circulating these last few months... The color is said to deteriorate in old films. If this were true, it would indeed be disquieting to ponder upon the progressive disappearance of the cornerstones of our cinematographic world.

Film has traditionally been used to record historic moments; and many feature films have become historic in their own right. Kept at suitable temperature and hygrometry, **the original negative (5247) or master (5243) can be used again and again to make prints, up to a hundred years after processing.** Release prints (5383) made for theater distribution, by very nature short lived, are not to be confused with the original film, which maintains a wealth of information.

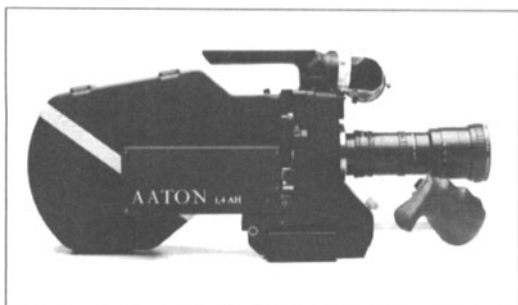
With the evolution of video technology today, the importance of recording **high quality originals on film** is paramount : the images taken in last year's video camera won't be on a par with the definition of next year's broadcast equipment.

The essential characteristics of 16 and 35 mm film have not changed in the last fifty years. With good conservation, **films made at the beginning of the century can be exploited today** on existing projectors, for example, or via telecine for TV broadcast. The point is that the information contained in the film medium *can* be utilized to its full potential so long after original exposure. Can video boast of such stability?

Until such time as video technology settles down, having attained the recording quality it is striving for today, **film is the only means of obtaining time-resistant originals**. Historic events of the 1980's *must* be recorded on film : only film can supply the high definition that future video transmission will need. Twenty, thirty years from now, these films will be sold as high quality originals for transfer to video disks, etc. There won't in all likelihood be VTRs capable of reading tapes made to today's scanning standards. Even video tape itself will change : magnetic tape will be left aside for metalized polyester tape.

Because the role of film is more and more to supply raw material to future video technology, it is vital to have **the best in film equipment**. The **Aaton 16 mm camera**, chosen systematically for blow-up to 35 mm in Sweden is now being adopted by discerning Americans for the same purposes. A comfortable, yet highly sophisticated camera : easy to handle and reliable.

Old pictures don't die; today's won't if they're made on film.



AATON

B.P. 104 Cedex 38001 Grenoble France (76) 42.64.09
1697 Broadway New York N.Y. 10019 (212) 541-8181

both analog and digital systems. Its "brain" is an advanced microcomputer which provides freedom from external vibration problems under any operating conditions. The main unit is rack-mounted and controlled by a handheld 10-key board. Up to 10 programmed combinations of variable parameters can be stored in the non-volatile memory for repeated use. This feature protects against loss of program from accidental power failure or cable disconnection.

The unit incorporates built-in A/D and D/A converters to provide for both analog and digital system connections. The reverberation time range is 0 to 9.9 s, while delay time varies from 0 to 999 ms. The flat 10 to 15,000 Hz frequency response can be varied by the use of variable low-cut and high-cut filters. The unit provides processing for 16-bit quantized digital signals.

The DRE-2000 measures $5\frac{3}{16} \times 16\frac{1}{4} \times 8\frac{1}{16}$ in. Complete with handheld control, it weighs 28.8 lb. The price is about \$15,000.

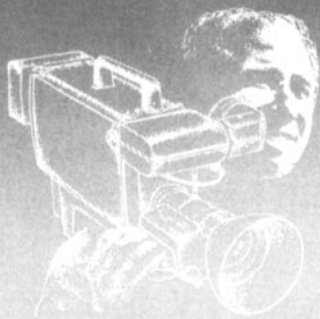
The Sachtler shoulder brace, designed to provide comfortable handheld operation for all 16-mm and 35-mm flat-base cameras and most ENG cameras, has been announced by Arriflex Corp., 500 Rt. 303, Blauvelt, NY 10913. Features include a camera platform with the same built-in, quick-attach/quick-release plate that is standard with all Sachtler fluid head tripods; eyepiece to eye adjustment and side tilt adjustment; a large foam lined shoulder support, 3 in wide with a radius that adjusts from $4\frac{1}{2}$ to 6 in; and a telescoping chest support rod that extends from 8 to 12 in. It can be removed if desired. The should-



der brace is 14 in long, 17 in high, and 7 in wide extended, and folds for storage to 12 in long, $5\frac{1}{2}$ in high, and $3\frac{1}{2}$ in wide. It weighs 2 lb 9 oz. The price is \$608.

SMPTE TIME CODE

by NAGRA



Now, for both video and film application, Nagra introduces fully self-contained, fully portable SMPTE/EBU Time Coding utilizing high reliability, high stability quartz clocks in lieu of conventional pilot circuits.

The new advance enables the user to record SMPTE Time Code on one track and audio on the other track when operating the Nagra Model "IS"; or two audio tracks plus one Time Code track when using the Nagra Stereo Model "IV-SL."

With the aid of the Nagra master clock, timing can be set not only for the Nagra recorder but also for

the video recorder and the movie camera generator having EBU/IRT standard. The system also includes a playback decoder for checking generators and a frequency/phase comparator for occasional quartz drift calibration.

Since SMPTE Time Code is synchronous, the portable Nagra Time Coding system translates the 80 bit SMPTE code into the 4 bit EBU code — where perforated magnetic film is designated for 4 bit code recording.

The Nagra SMPTE/EBU Time Code... it's another commanding reason why "Nagra is First with Film and Video Professionals."

NAGRA MAGNETIC RECORDERS, INC.

A Subsidiary of Nagra Kudelski, Switzerland



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Hollywood, Ca. 90038 (213) 469-6391
In Canada: Arri/Nagra, Inc. Mississauga, Ont. L4V-1J2 (416) 677-4033



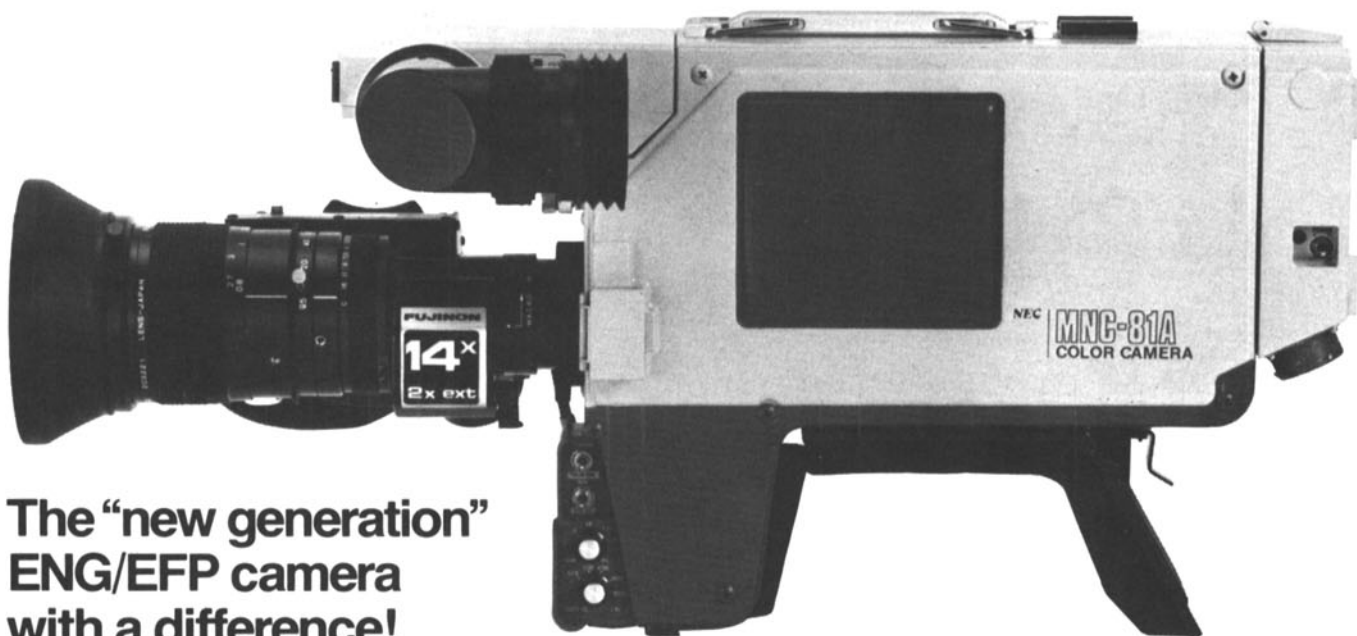
The MCI-41 Briefcase Video System has been announced by Media Concepts, Inc., P.O. Box 10745, 559 49th St. South, St. Petersburg FL 33733. The package consists of a Magnavox 8270 2/4/6-h VHS videocassette recorder/player and a JVC TM-41AU 5-in color monitor, all completely wired and fitted into an ATA frame case. The VCR features pause, still frame, frame advance, and slow motion. The price is \$1595. Various options are available.



A textured zoom-barrel sleeve designed to provide a large no-slip surface area for smoother, more effective manual zoom operation with the 10-100 Zeiss Vario Sonnar lens has been announced by Arriflex Corp., 500 Rt. 303, Blauvelt, NY 10913. Lens focal lengths are en-

Introducing
NEC's all-new

MNC-81A



The "new generation" ENG/EFP camera with a difference!

Get a headstart on the 1980's with NEC's newest "state-of-the-art" ENG/EFP camera: the MNC-81A.

Designed to meet today's more stringent requirements for highest-fidelity color reproduction, the MNC-81A features outstanding colorimetry matched to that of broadcast cameras; with f/1.4 high-transmission prism optics; a choice of pickup tubes: Saticon®, Plumbicon®, or Diode Gun™ Plumbicon®; a signal-to-noise ratio of 54 (± 2) dB; 4-position gain control with up to +18 dB additional gain for low light level operation; plus all the *automatics*, built-in indicators and features that have become standard for broadcast-quality video cameras. And more.

The NEC difference...

Extensive use of LSI hybrid microcircuits developed uniquely by NEC makes the MNC-81A extremely stable in registration and performance, and ultra-reliable in circuit operation.

Low-profile and ultra-lightweight — camera head (without lens, but including 1.5" viewfinder) weighs *less than 11 lbs.* and measures approximately 10¼" x 4" x 13½" — the MNC-81A handles with the ease of a compact 16mm newsfilm camera.

It is well balanced on the shoulder, with a form-fitting adjustable base. And its 1.5" viewfinder telescopes for convenient left or right eye viewing.

Best of all, the MNC-81A is a multi-purpose camera with the widest range of options for studio and field operation. Its sophisticated optional remote control

capabilities include a co-ax digital remote control system for distances up to 5000 feet, as well as fiber optics module and cable adapter for fiber optics video transmission from distances up to 9000 feet.

Quite a difference in operational flexibility and versatility compared to other cameras in its class!

The CP difference...

And, of course, when you buy an MNC-81A, you are automatically covered by Cinema Products' outstanding after-sales service and backup program.

You get an unprecedented full one-year warranty, with no service charge ever for warranty work! You get round-the-clock video service seven days a week. Replacement parts anywhere in the United States within 24 hours... And an easy-term lease/purchase program specifically tailored to your needs.

For complete details on the MNC-81A camera, contact Don Dunbar, Vice President/National Marketing. Call toll-free: 800-421-7468.

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SMPTE TIME CODE



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Atlanta Film Equip't. Rentals

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161 East Grand Avenue
Chicago, IL 60611
(312) 527-3060

Helix Ltd.

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La Del Inc.

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Pan American Films

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Filmarts

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(617) 266-7468

Sound 80 Inc.

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Minneapolis, MN 55406
(612) 721-6341

Cinecraft International

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Oscar H. Hirt Inc.

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Media Equipment Center

795 South Main Street
Memphis, TN 38101
(901) 774-4944

Motion Picture Equip't. Co.

502 Jackson Hill
Houston, TX 77007
(713) 861-2479

Stockdale Corp.

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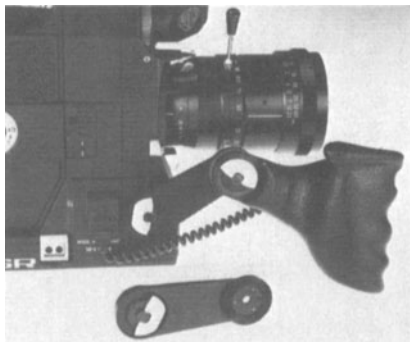
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West Coast:

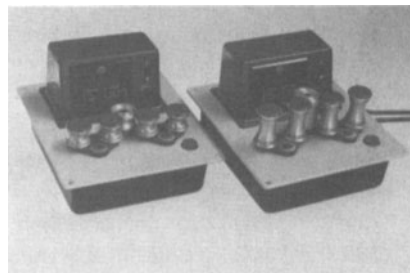
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In Canada: Arri/Nagra, Inc. Mississauga, Ont. L4V-1J2 (416) 677-4033

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graved and displayed in large, white markings easily read against the black, anodized background. Three zoom-level tappings allow the use and variable positioning of the lens zoom-lever where it is required. The price is \$65.



The Arri camera-grip extender has been announced by Arriflex Corp., 500 Rt. 303, Blauvelt, NY 10913. The device is designed to allow the operator to move the hand grip on the 16SR and/or the 35BL forward of the camera by an additional 3 in to permit a wider range of handheld camera positions and easier, more comfortable camera operation. The extender is priced at about \$120.



New 16-mm and 35-mm LED digital readout film counters designed for all sprocketed film measuring applications have been announced by Arriflex Corp., 500 Rt. 303, Blauvelt, NY 10913. The counters can be used for editing, sound studio, film manufacture, and laboratory measuring operations. The new Arri film counters feature a bright, easy to read, six digit LED display that is adjustable with a rotary switch to read in frames, feet, centimeters, or operate with time-base coding systems. They also incorporate automatic loop-forming film guides and can operate forward or reverse. They can also be used at high speed. The price for each is \$1650.



A new Elcon videocassette evaluator, Model 750, has been announced by Television Equipment Associates, Inc., Box 260, South Salem, NY 10590. The principal feature of Model 750 is the illuminated bar-graph displays located on the

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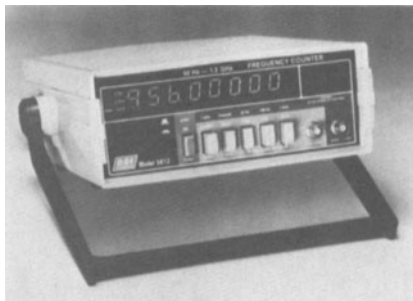
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A 50-Hz-1.2-GHz frequency counter, Model 5612, has been announced by DSI Instruments, Inc., 9550 Chesapeake Dr., San Diego, CA 92123. The readings are said to be accurate to within 0.2 parts per million 10 MHz Proportional Oven Time Base (POTB) over a temperature range of 10°C to 40°C. Its sensitivity is typically 10 mV-15 mV over a range from 100 Hz to 250 MHz, and 15 mV to 50 mV up into the 450 MHz region. It has a 0.5 in.-high, 9-digit, 7-segment LED display. The display also features zero blanking and automatic decimal point positioning. Model 5612 is priced at \$239.95.

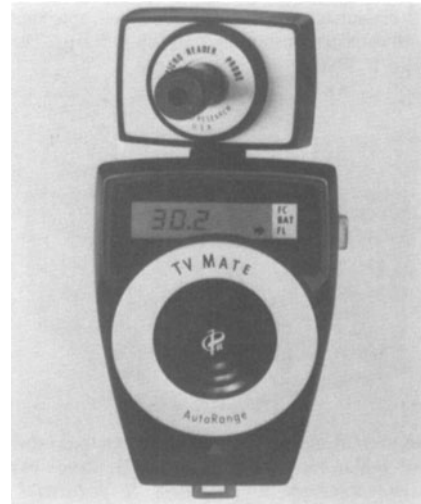
The CCC8 Camera Colorbars Testchart has been announced by Ultra Audio Pixtec, P.O. Box 921, Beverly Hills, CA 90213. The device has been designed to provide a quick check on colorimetry where subject material or fleshtone chart is not available. The 9 x 12-in chart is priced at \$30, and the 12 x 16-in chart is priced at \$45.



The Speedcharge 4000 system, designed for fast charging of NiCad batteries, is a product of PAG Power Ltd., 565 Kingston Rd., London SW20 8SA, England. The PAG system of fast charging is based on a state-of-charge sensor system incorporated into Speedcharge batteries. The charge control in this system terminates fast charging before a significant increase in temperature occurs, thus eliminating damage to the batteries from overcharge. Price of the Speedcharge 4000 system is £338.

The Frame Line Generator, designed to provide the film or video cameraman with a clearly defined bright white frame line that can be superimposed on any video viewfinder system, has been announced by Continental Camera Systems, Inc., 16800 Roscoe Blvd., Van Nuys, CA 91406. All standard aspect ratios can be displayed and controls are provided to enable the

operator to select any nonstandard aspect ratio he may require. The Frame Line Generator is a self-contained device measuring 7 1/2 x 4 1/2 x 2 in. It is designed around microcircuit technology and incorporates its own ni-cad batteries and charger. Video connection can be made via BNC connectors in either the "in-line" or "hang-on" mode. The unit is compatible with any NTSC or random scan U.S. Standard television system. The price is \$1500.



The TV-Mate™, a photometer designed specifically for quick, convenient, and accurate measurement of the screen brightness (luminance) of CRTs, has been announced by Photo Research, Div. of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505. Features include an autoranging, high contrast, direct reading liquid crystal display (LCD) with a floating decimal point to prevent reading errors. A built-in 10-s hold on the readings assures convenient, accurate answers. A light-gathering probe allows the TV-Mate to be placed directly in contact with the CRT to eliminate ambient light or reflected light errors. The device is also available with a remote measuring head to facilitate measurements in inaccessible locations. The TV-Mate autoranges from 20 to 20,000 fL full scale. It can fit in the palm of one hand. The price is \$520.

A compact auto-iris lens designed especially for high sensitivity CCTV and industrial television cameras has been announced by Cosmivar Lens Division, Pentax Corp., 35 Inverness Drive East, Englewood, CO 80112. The lens adjusts automatically to a wide range of iris openings from a maximum aperture of f/1.8 down to f/360. The illumination ratio is 40,000 to 1. Focal length of the lens is 75 mm. It can be used with all 2/3-in and 1-in vidicons. The drive motor for the auto-iris is built into the lens housing. The iris can respond automatically to changes in light level in about 500 ms. The angular field of view is just under 12° with a 1-in vidicon. The shortest distance to which the lens can be focused is about 100 in (2.5 m). A standard C mount is employed. The price is about \$220.

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



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Recording and Film Studio. Full-Service complete editing equipment, magnetic equipment with interlock, optical equipment, 16mm, 35mm, 35/32mm, super 8 quad, plus processing equipment. Buy as business or equipment package or separately. All offers considered. Tyler Recording Service, 5 W. Hubbard St., Chicago, IL 60610, (312) 467-1456.

Employment Service

These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Engineer/Broadcast Maintenance. Minimum 5-7 years immediate experience in this field, preferably within a large scale industrial teleproduction facility. Extensive corrective and preventive experience on studio and ENG cameras, helical recorders, TBC's and associated production, distribution and monitoring equipment. Starting salary \$24,000. **Producer Director.** Minimum 7-8 years immediate experience in the field of large-scale industrial teleproduction activities. Experience in design, development, production and evaluation of video programming to support in-house personnel development and communication objectives; operation of state of the art studio and remote teleproduction equipment. Salary upper \$20's. Send resume in confidence to: Sherrill Malloy, 11800 Sunrise Valley Dr., Reston, VA 22091.

Film Sound Mixer. WGBH is seeking a Film Sound Mixer immediately! Responsibilities include: Creating finished sound tracks from multiple track sources; recording narration and sound effects; evaluating original recordings; production and post production mixing; troubleshooting and repairing state of the art equipment helpful. Five years experience. Top wage. Send resume to: Personnel Office, (A-71), WGBH-TV, 125 Western Ave., Boston, MA 02134. Deadline: January 15, 1981.

Systems/Project Engineer. We are a high technology electronics manufacturing systems and service company providing quality audio and video equipment for the broadcast industry. We are currently seeking candidates with 3-10 years experience in fixed and/or mobile electronic broadcast systems who will participate in equipment development from concept through installation and final testing. A desirable requisite is at least 2 years electronic education or a BS degree. Qualified applicants, please send resume and salary requirements to: Corporate Recruiter, P.O. Box 7760, Burbank, CA 91505.

Project Design Engineer. Experienced ME to design and develop new products to complement our line of slide/filmstrip/animation cameras. The position entails full responsibility for all aspect of development from design through to production. Compensation package includes major medical and profit sharing. Salary in low \$30's plus bonus. A salary history must accompany your resume. Send to: Personnel Manager, Forox Corp. 393 West Ave., Stamford, CT 06902.

Sales Manager. Experienced person with practical background in sales of professional motion-picture equipment to the industry. Write or call Jack Pill, 6370 Santa Monica Blvd., Hollywood, CA 90038 (213) 466-3238.

Sales Position. For small firm in Los Angeles area. Experienced in photo finishing and/or cine processing with outstanding sales capability. Call collect: (213) 894-910.

Maintenance Supervisor. Minimum 5 years engineering experience, 1 year supervisory experience required. First Class Phone with expertise in maintaining broadcast equipment. Salary: negotiable. Excellent benefits. Resume to: WXXI-TV Personnel Dept., P.O. Box 21, Rochester, NY 14601. EOE.

CMX Operator/Engineer. For expanding full service production company. Knowledge of CMX, digital effects and Ampex 1" important. Excellent career opportunity for self-motivated person dedicated to quality production. Send resume to Mark Hanson, Spectrum Video, 3930 Sunset Blvd., Youngstown, OH 44512, (216) 782-1144.

Assistant to the Director of Engineering. Excellent salary, opportunity and responsibility. Projects include audio, video, and Cable TV. 5 years experience required. Send resume to Village Companies, Box 4040, Chapel Hill, NC 27514. Or contact: David Wright (919) 968-4661. E.O.E., M,F,V,H.

Audio Visual Manager. Responsibility for small video studio — must have lighting and camera experience. 35mm and dark room knowledge necessary. Multi-image production experience preferred. Film degree and minimum five years in similar position. Salary commensurate with background. Contact Human Resources - American Bankers Insurance Group - 600 Brickell Ave., Miami, FL 33131 (305) 374-2244.

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Lab Manager or Production Supervisor. Thoroughly experienced film technician and supervisor for over 18 years in all phases of 16mm and 35mm color and B & W, printing, processing, quality control, timing, neg. prep., densitometry and production supervision. Desire a position in motion picture laboratory equal to above or a lesser job with a challenge and chance for fast advancement. Prefer northwestern states, Alaska, Canada or Australia, but will consider all opportunities. Contact: George A. Farkas, 1360 Abers Creek Rd., Monroeville, PA 15146 (412) 372-8562.

Chief Engineer of Television, Radio or FM Broadcast Station. Position last held for 13 years, manager of engineering/chief engineer at TV AM and FM Station. Previous to above held position of maintenance supervisor at a television station. Relocation no problem. Write (or phone) George F. Davis, 26 Weston Drive, Clifton Park, New York 12065 (518) 371-5377.

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