

Harley Iams

Harley Iams, an early associate of Vladimir Zworykin, died December 3, 1984, at the age of 79.

Iams began his career at Westinghouse Electric in 1927, where he worked with Zworykin on the development of facsimile and sound recording. In 1928, he was assigned to work on the deflection circuits of the newly developed Zworykin kinescope, the first practical picture tube. In 1929, he was a member of the team that designed and built the first all-electronic television receivers. Iams joined Zworykin and his television research group at the RCA Victor plant in Camden, N.J., in 1931. This group was responsible for the development of the iconoscope high-velocity tube, the invention of which earned for Zworykin the designation of "father of television."

In 1933, Iams was made manager of the RCA Tube Works at Harrison, N.J., where iconoscopes were being built for experimental purposes. Joined by Albert

Rose in 1937, he started work on the first low-velocity scanning tubes involving research on photo-conductive as well as photo-emissive and photo-voltaic surfaces. His work with Dr. Rose culminated with the introduction of the orthicon, the predecessor of the image orthicon which was later developed by RCA.

After leaving RCA, Iams joined North American Aviation, and later Hughes Aircraft Research Labs, where he participated in various guided missile projects. He retired in 1970.

George Lisle Beers

George Lisle Beers, a Life Fellow of the SMPTE, died January 30, 1985, at the age of 84. He had joined the Society in 1949 and was made a Fellow in 1950.

Beers was graduated from Gettysburg College in Gettysburg, Pa., in 1921 with the B.S. degree in electrical engineering. Following graduation, he joined Westing-

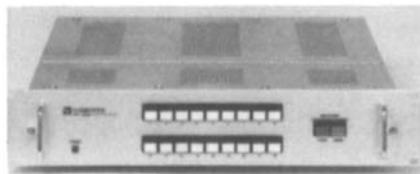
house Electric & Manufacturing Co. in Pittsburgh, and he joined RCA's Research Dept. in Camden, N.J., in 1930. In 1935, he was placed in charge of television studio equipment design and development. This activity covered the design and manufacture of the original television studio and terminal equipment for the NBC television station WNBT and several other stations.

During his years with RCA, Beers received more than 60 U.S. patents for his inventions, and numerous foreign patents. He authored a number of technical articles, among them, "Some Television Problems from the Motion-Picture Standpoint," published in the February 1939 issue of the *Journal SMPE*; "Application of Motion-Picture Film to Television," *Journal SMPE*, April 1939; and "Portable Television Pickup Equipment," *Journal SMPE*, October 1940.

Beers retired in 1964. He became an SMPTE Life Fellow in 1970 at the age of 69.

NEW PRODUCTS

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.



Videotek RS-183A routing switcher

The RS-183A routing switcher has been announced by Videotek Inc., 125 N. York St., Pottstown, PA 19464. It is designed for broadcast and production applications that require the switching of video signals with stereo audio plus time code. Features include 18 video inputs with bridging, two video outputs, three audio inputs for each video channel, video/audio latching breakaway control, and edit input.

Videotek also announced System 8, a picture and signal monitoring system designed for monitoring up to six sources in ENG trucks, at camera control locations, or in engineering bays. It requires only 8 $\frac{3}{4}$ in. of vertical rack space. System 8 has three components: a color monitor, a waveform monitor, and a passive video

switcher which permits the operator to select up to six video sources. By looping the output from the switcher through the waveform monitor to the color monitor, both displays will switch simultaneously.



Hitachi Digital VTR

A high-definition TV system has been announced by Hitachi Denshi America Ltd., 175 Crossways Park W., Woodbury, NY 11797. The system includes an HDTV

camera, a large-screen projection system, and a 1-in. digital VTR. The camera employs a diode gun Saticon, providing resolution of 1200 lines horizontal and 800 lines vertical. The 54-in. projector employs a magnetic focusing type, high-resolution projection tube, fine-pitch rear screen, and wide-band, high-voltage-output video amplifier. The 1-in. digital VTR has five magnetic heads and SNR of 56 dB.



Panasonic S-1 video camera

The S-1 single-tube color video camera has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The camera incorporates a newly developed $\frac{2}{3}$ -in. high-band Saticon for 420 lines of horizontal resolution. A standard feedback beam-control circuit reduces blur and comet tailing caused by bright lights and reflections. The S-1 has an SNR of 50 dB. It can be used in low light conditions, requiring only 20 lux of illumination.

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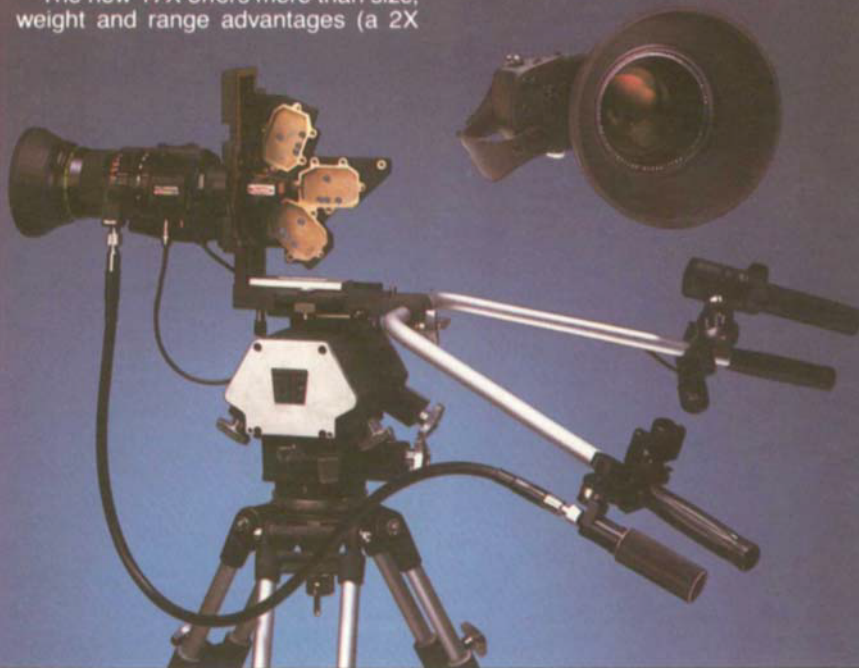
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range extender is built in). Its F1.7 maximum aperture remains absolutely flat from 9mm to 114mm. In addition, corner resolution has been increased while longitudinal chromatic aberration has been reduced. And with its weatherized features, the new 17X is the ideal lens to take into the field.

For more information about the most widely used lenses in broadcasting and the most extensive selection of accessories of any lens maker, write or phone:



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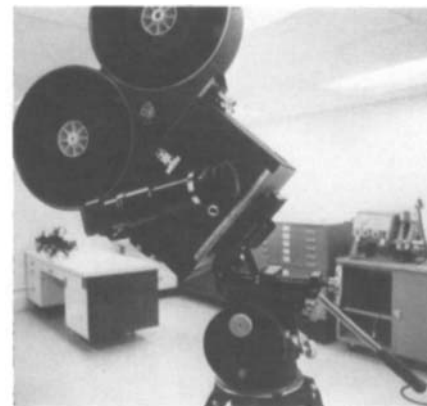


FUJINON



Roessel Super Panther camera dolly

The **Super Panther II-S camera dolly** has been announced by Roessel CPT, Inc., 48-20 70th St., Woodside, NY 11377. Designed and manufactured by FGV, Munich, West Germany, the dolly makes it possible to mount both the camera operator's and the assistant's seats on the main column for improved coordination and control. A handgrip, operated from on board or remotely, controls the speed and position of the camera column. Comb-wheels allow the dolly to move on flat surfaces or on tracks without changing wheels.

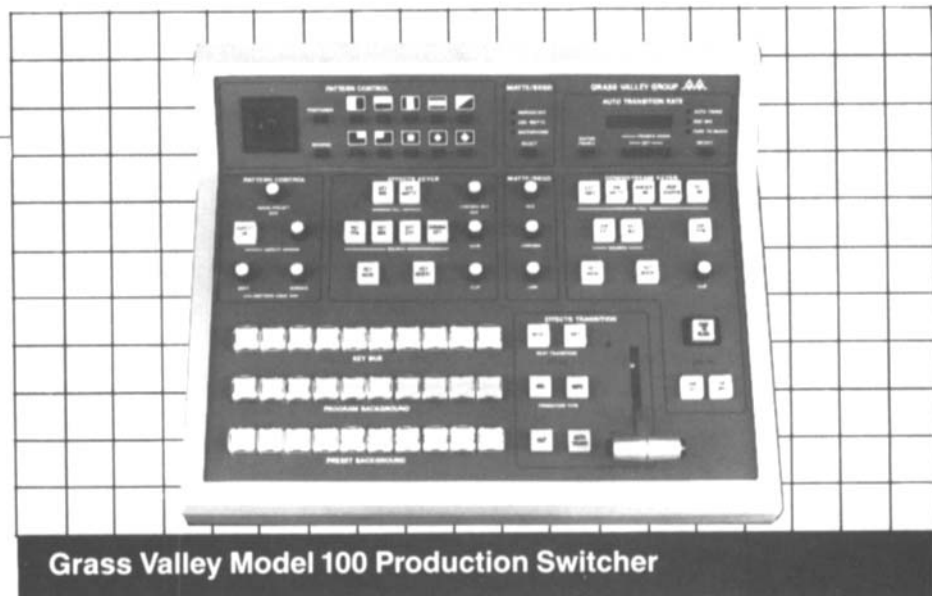


JBK Cinequipt tilt plate

A **geared tilt plate** for 16 and 35mm video cameras has been announced by JBK Cinequipt, 5648 Vineland Ave., North Hollywood, CA 91601. The device allows a 90° tilt for cameras up to 80 lb. The camera mounting plate slides in a dovetail guide with a quick-release mechanism and a pin device that ensures safety.

The **Sachtler Video 14**, a camera support system designed especially for ENG and EFP cameras, has been announced by Sachtler Corp. of America, 400 Oser Ave., Hauppauge, NY 11788. Features include three dial-in steps of fluid dampening for pan-and-tilt control, a quick-release touch-and-go plate incorporated

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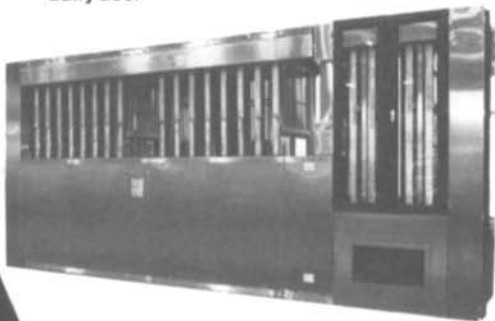
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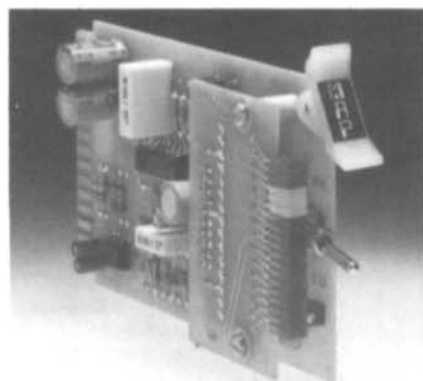
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into the sliding camera platform, and an integrated counterbalancing spring to compensate for the effects of gravity when the camera is tilted. The Video 14 can be used on either a pedestal with a pneumatic center column or a lightweight tripod.



B&B Systems AM-3 audio scope

The AM-3 audio scope, a stereo television audio phase-verification system, has been announced by B&B Systems, 28111 N. Ave. Stanford, Valencia, CA 91355. The system features a CRT display that shows the stereo phase relationship between multiple sound channels. The AM-3 provides three channels of audio monitoring with the principal language in stereo, plus a second language on the third channel, all monitored and phase verified. VU meters and peak-responding LED meters are provided for all three channels.



Modular Audio LED level-indicator card

A multi-purpose LED level-indicator card, Model 4062, has been announced by Modular Audio Products, 50 Orville Dr., Bohemia, NY 11716. The device allows switch selection of VU or peak reading as well as a multi-turn adjustment for setting 0 VU indication from -2 dB to +12 dB. The 4062 consists of a 19-segment (red, yellow, and green) LED indicator board connected to the main PC board by ribbon cable. This allows LED mounting on remote panels where space is critical.

The 1450-1 precision television demodulator, featuring a wide-bandwidth (120 kHz) audio section compatible with BTSC multi-channel sound, has been announced by Tektronix, Inc., P.O. Box 500, Beaverton, OR 97077. The audio section is compatible with the multi-channel sound systems used in the U.S. and Japan and with all existing monophonic sound

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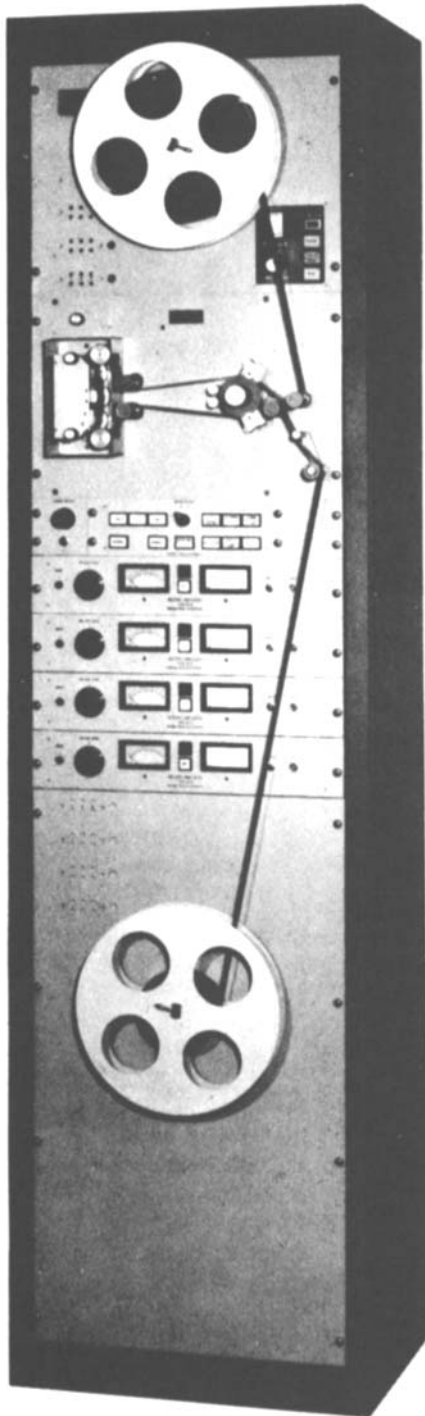
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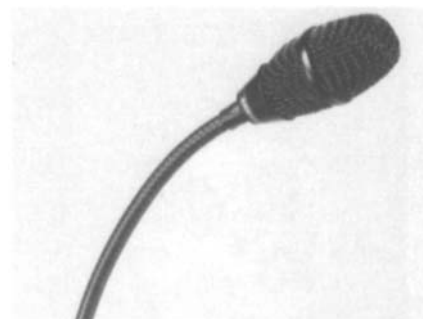
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transmission systems. In addition to wider bandwidths, a quasi-parallel detection mode has been added. This substantially reduces the buzz that might otherwise be introduced on the detected audio signal due to the IF signal passing through the Nyquist filter of the demodulator in inter-carrier detection mode.



JVC SS-M208U audio mixer

The SS-M208U portable audio mixer has been announced by JVC Co. of America, 41 Slater Dr., Elmwood Park, NJ 07407. Designed for both remote recordings and studio applications, it can be used as a desk-top or portable mixer. The SS-M208U has eight microphone inputs (XLR connectors), and inputs 5 through 8 have RIAA equalization. There are LED peak level indicators for all inputs and fluorescent level meters for output channels. A headphone jack is provided for monitoring.



Shure AMS24 condenser microphone

The AMS24 condenser microphone has been added to the line of Shure automatic microphone systems, it was announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. Applications for the gooseneck AMS24 include sound reinforcement, recording, and broadcasting. When connected to an AMS mixer, the AMS24 can gate on automatically from within a 120° front acceptance angle. Sounds that originate outside the acceptance angle will not gate the microphone on, regardless of their loudness. When the AMS24 is gated on, it operates as a uni-directional (cardioid) microphone.

A distribution amplifier, Model DA-108, has been announced by Mycomp Technologies, 3877 S. Main St., Santa Ana, CA 92707. The DA-108 has a single-rack-

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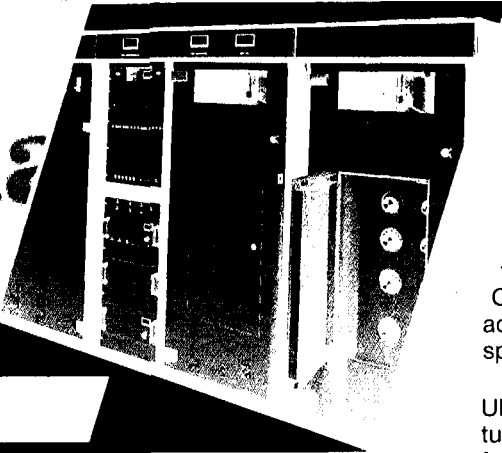


Quality

Quality

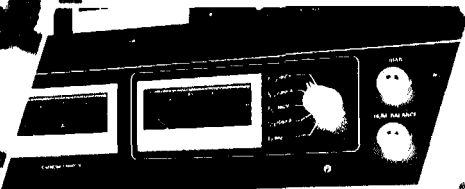
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unit design that houses both stereo audio and video amplification. Features include SNR of 115 dB with separately buffered 33- Ω unbalanced outputs to provide clean audio inputs to all duplicating VCRs. Also standard are separate isolated power supplies for both audio and video sides; shielded audio input section; and isolated audio, video, and chassis grounds with three separate grounding terminals.

The TEL/45 audio polarity tester, for testing the polarity of stereo lines, has been developed at the BBC, Broadcasting House, London W1A 1AA, England. The tester generates a sawtooth waveform at the sending end. At the receiving end, two LEDs indicate normal polarity, reverse polarity, or invalid signals. An audible bleep provides confirmation of the measured conditions. The sawtooth waveform can pass through transformers and amplifiers, allowing complete signal paths to be checked. The device is self-powered from 9-V batteries.

System One, an audio testing device, has been announced by Audio Precision, Inc., P.O. Box 2209, Beaverton, OR 97075. Using the system, common audio tests can be run automatically by selecting the test from a menu. Results are graphed while the test is being made. Level measurement

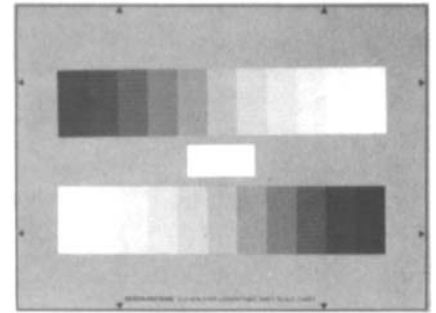


Audio Precision System One audio testing device

accuracy is 0.1 dB; generator output level is 26.6 V, open circuit, +30 dBm into 600 Ω ; and flatness is 0.05 dB.

A stereo heterodyne processor has been announced by Phasecom Corp., 6357 Arizona Cir., Los Angeles, CA 90045. The unit combines stereo sound capability, modular input/output converter, and surface-acoustic-wave (SAW) filter with other advanced circuit components for CATV head-end systems. Excellent adja-

cent channel performance and linear cascading capability are provided.



Porta-Pattern gray-scale test chart

An 11-step gray-scale test chart has been announced by Porta-Pattern Inc., P.O. Box 38945, Los Angeles, CA 90038. The new test chart is intended for use with the latest color TV cameras, which can handle brighter whites and darker blacks than older models. The chart contains an 89.9% high-reflectance center white bar for use in color-balance adjustments, with two gray scales of 11 steps each running in opposite directions above and below the center white bar. These scales range from 83% white down to 2.7% black. Its reflectance range is considerably wider than that of the standard 9-step logarithmic gray scale (60% peak white to 3% black).

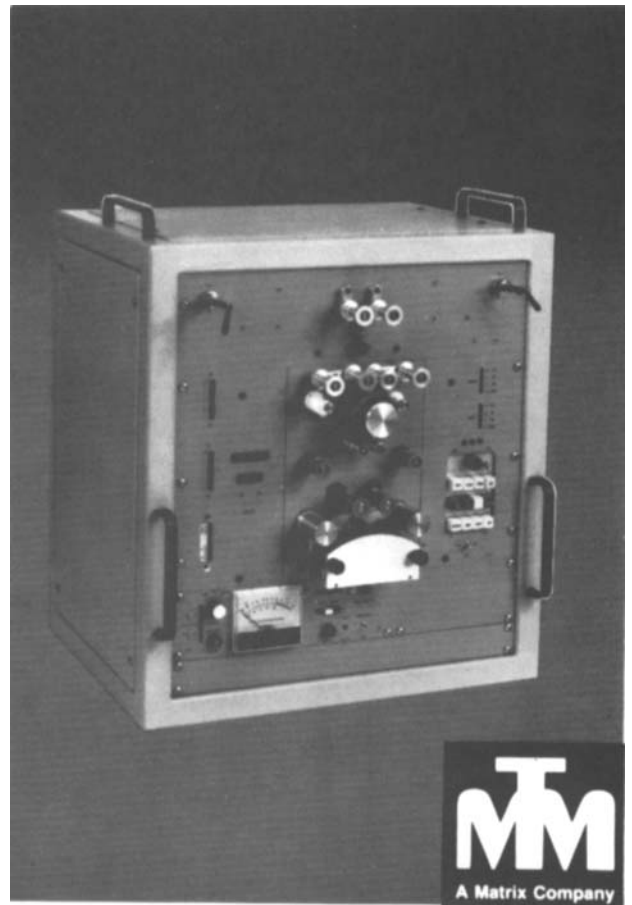
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Vii Model 251 test generator

The Model 251 bar/dot mixer and line finder has been announced by Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385-0033. The device is de-

signed for use in video camera setup, routine maintenance, and repair. Bar or dot patterns are mixed into the camera signal as a reference in scan linearity, size, and centering. Front panel controls provide horizontal and vertical bar position and spacing. Also included is a 7-in. display for viewing the camera image during performance analysis so that a separate monitor is not required.

An automated portable oscilloscope measurement system has been announced by Tektronix Inc., P.O. Box 500, Beaverton,



Tektronix MP 2903 measurement equipment

OR 97077. Designated the MP 2903, the system includes an enhanced version of the Tektronix 2465 DVS oscilloscope, the 4041 system controller, and the 4105 color display terminal. The TEK Ez-Test software, a test program generator, is included in the new measurement package.



Recortec tape evaluator

Two videotape evaluator models have been announced by Recortec, Santa Ana Ct., Sunnyvale, CA 94086. The VTE-102 and VTE-103 are designed for the evaluation and conditioning of 1-in. tape. Both models produce a computer-generated listing of surface defects and edge damage conditions detected by the evaluation procedure. The tape is cleaned, using the Recortec vacuum grid method, before reaching the evaluation stage. The equipment can clean tapes with recorded program material, thus providing improved playback quality.



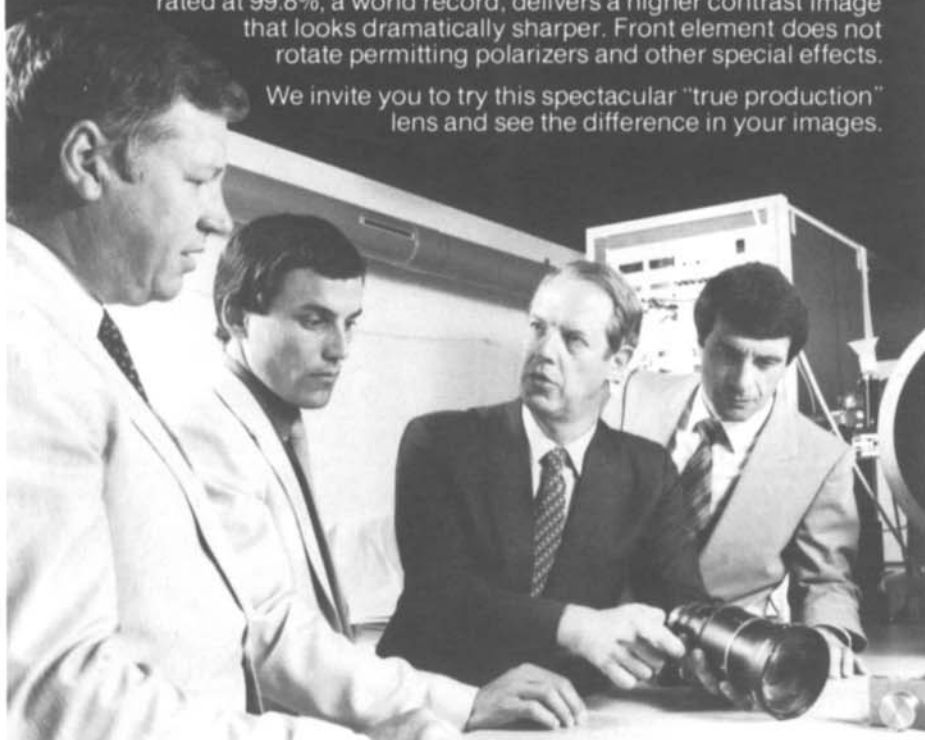
Research Technology TapeChek™ 320

A VHS videotape inspector/cleaner has been announced by Research Technology International Co., 4700 Chase Ave., Lincolnwood, IL 60646-1689. Called the TapeChek™ 320, the unit can complete a T-120 tape in less than 2 min. Tapes are opto-electronically inspected for wrinkles, creases, and damaged edges. It cleans magnetic oxide automatically, removing the dust, dirt, and loose oxide that can clog

It took three years to optically design, engineer and field test the new Angenieux 12x10 T2. It's ready for you now. The results are spectacular.

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VCR heads and cause dropouts and glitches. An LED display reports the number of defects detected.



Panasonic WV-EX1 portable color camera

The WV-EX1, a charged primary device (solid-state) color camera, has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The camera has a single-chip construction. A solid-state CPD image sensor provides pictures free of blemishes caused by direct light overload, such as reflections from spotlights or the sun. Because there are no magnetic or electrostatic focusing elements, the camera is free from beam scattering.



Panasonic AG-2400 VCR

A portable videocassette recorder, the AG-2400, has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The VCR is 2 in. high, 8 in. wide, and weighs 4.84 lb without the battery. The small size and weight result from the use of a computer-designed aluminum diecast chassis, solid-state epoxy printed circuit boards, and a short direct-drive video head cylinder. The recorder uses four video heads and four ultra-thin, flat direct-drive motors to drive the capstan, cylinder, and supply takeup reels. A wired remote control enables variable slow-motion playback. A video-add function enables rough insert editing. The deck has audio dubbing capability, a memory function, and auto-rewind.

The Kinoptik mini-collimator has been announced by Karl Heitz Inc., P.O. Box 427, Woodside, NY 11377. The device has a soft lens adaptor ring and is intended for field testing of video, cine, and photographic lenses, on film, mirror, ground

IMAGINE OUR EFFECTS ON YOUR EFFECTS!

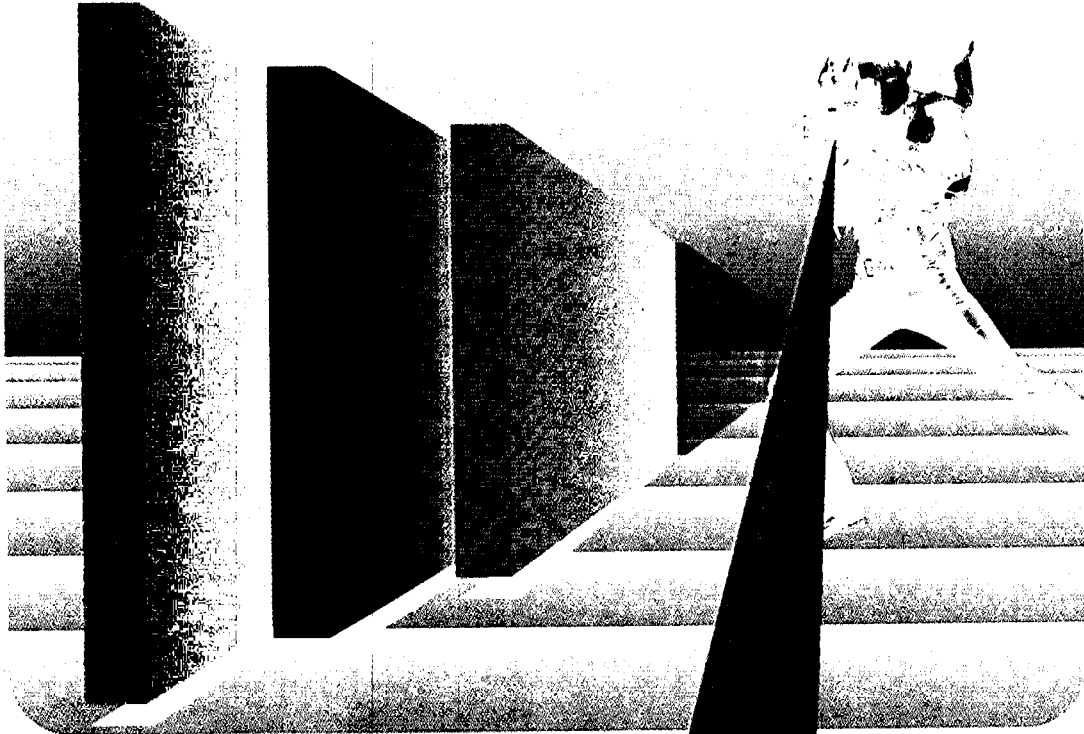
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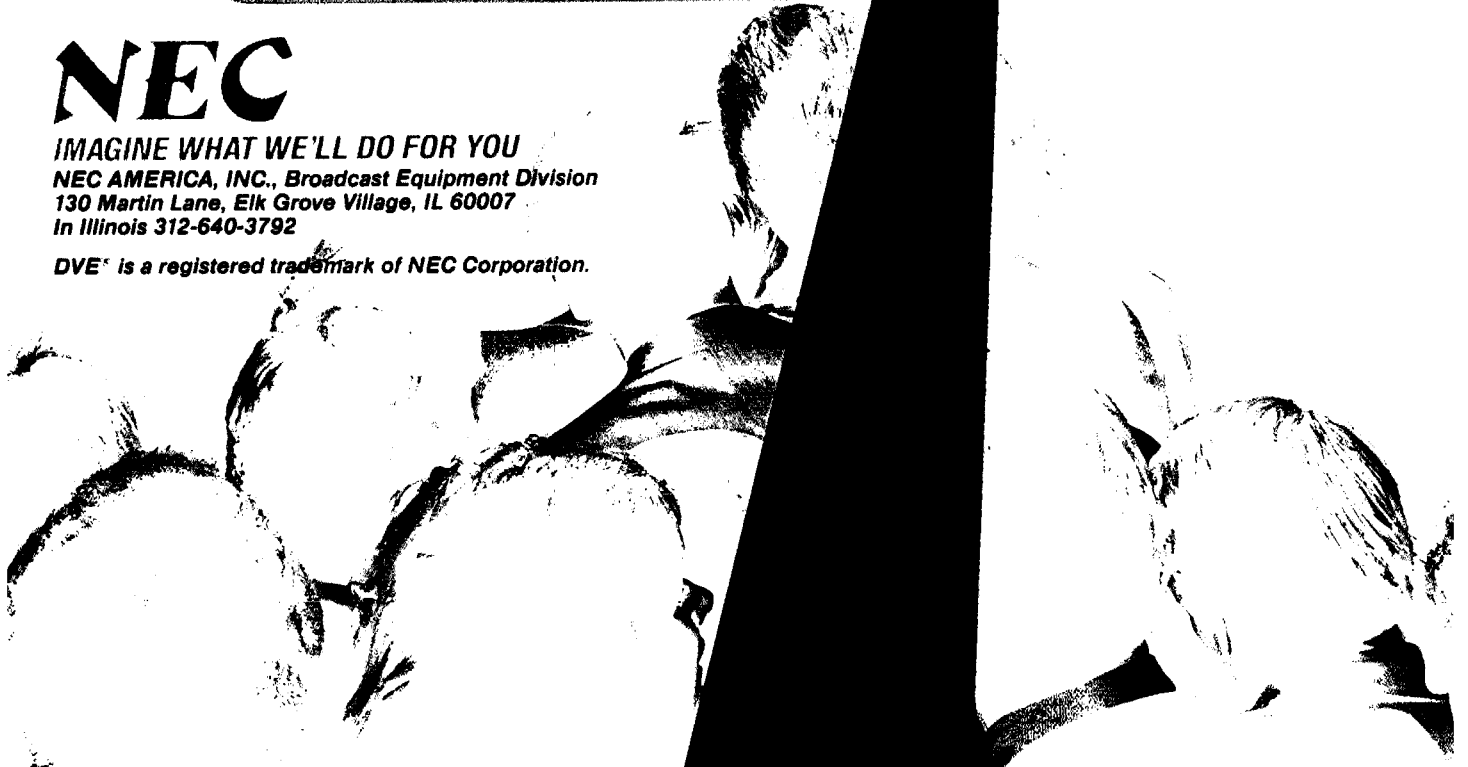
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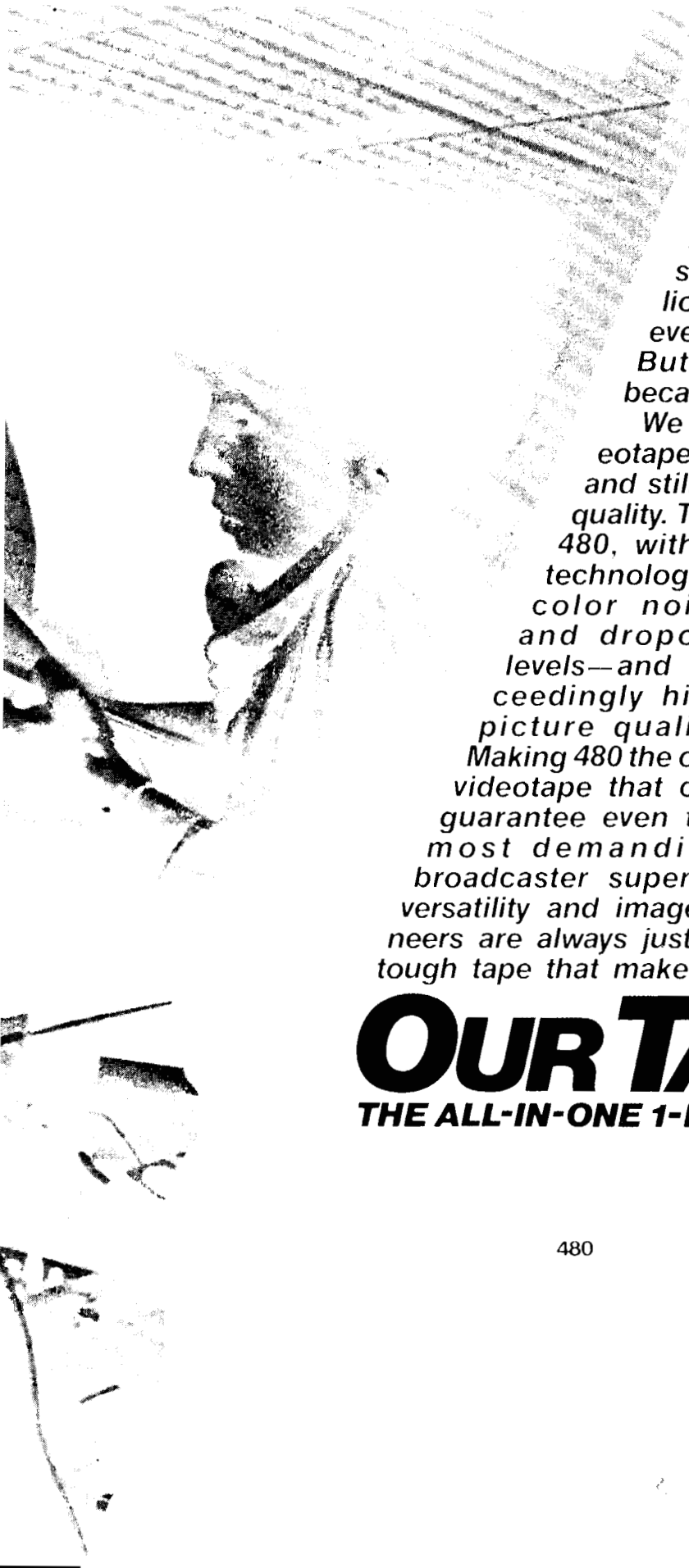


YOUR WORLD



Photographed at WNET-TV, New York

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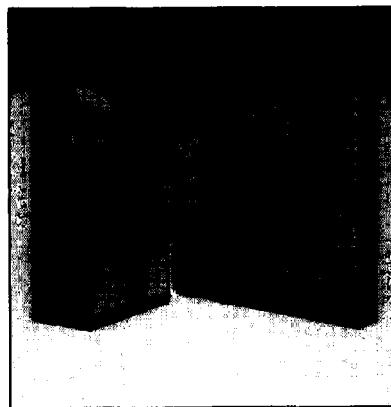
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Karl Heitz Kinoptik mini-collimator

glass, etc., even while using the camera. Precision ground, coated prisms, optics, and 274mm lenses with 35mm diameter provide for control of focus, astigmatism, and filter effects for lenses from 9 to 75mm. The device can be mounted on a table or tripod.



Film/Video Equipment J-6 zoom control modification

The Cinema Products J-6 zoom control has been modified by Film/Video Equipment Service Co., 1875 S. Pearl St., Denver, CO 80210, for use on ENG/EFP lenses as well as studio cameras. Providing a wide range of variable zoom rates, from 2 sec to 30 min or more, it can be operated remotely or mounted directly to a tripod handle by means of a special grip.



Century Precision Optics wide-angle lens attachment

A wide-angle attachment for video zoom lenses has been announced by Century Precision Optics, 10713 Burbank Blvd., North Hollywood, CA 91601. The attach-

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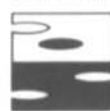
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ment consists of two elements. Use of one element increases wide-angle coverage of the zoom lens by 30%. If two elements are stacked, the coverage is increased by 50%.



JVC Nikon lens adaptor

Lens accessories, developed by JVC Co. of America, 41 Slater Dr., Elmwood Pk., NJ 07407, to expand the potential of JVC's KY-210U camera, include the HZ-CA23U C-mount adaptor and the HZ-NK23U Nikon lens adaptor. The Nikon lens adaptor allows the use of a variety of photographic lenses, making possible wide angles, extreme close-ups, and numerous special effects.

The Gyrozoom 60/300, a compact micro-processor-based lens, has been announced by Schwem Technology, 3305 Vincent Rd., Pleasant Hill, CA 94523. The lens, which fits most portable ENG cameras, stabilizes the image internally instead of using a bulky external apparatus. It eliminates high-frequency vibration resulting from planes, cars, and other vehicles, as well as platform vibration. The zoom capability ranges from 60 to 300mm.

The DLF 270 EL daylight fixture, manufactured by Kobold Lighting in Germany, has been made available by Satnews, Inc., P.O. Box T, Manchester, MD 21102. The fixture uses an electronic ballast and is said to have twice the efficiency of a 575-W HMI Fresnel unit. The square-wave electronic ballasts operate at 300 Hz. The lights can be dimmed up to 40% at either head or ballast and still maintain optimal color temperature. Features include instant restrike at any time, including hot restrike.

The VIS-1200, a 12X1 vertical-interval routing switcher, has been announced by Videotek Inc., 125 N. York St., Pottstown, PA 19464. Features include 12 video inputs with bridging, two buffered video outputs, vertical interval switching between all inputs, 24-hour channel memory, and internal fuse protection.

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The latest electronic and mechanical technology has played an important role in the design of the BCN 21, making it the perfect successor of Bosch's unrivalled BCN 20.

Small and light-weight

The BCN 21 weighs 9.2 kg; that's less than half the BCN 20. And it's 50% smaller.

Long operating periods and low power consumption

The BCN 21 can record and playback for 20 minutes with the lid closed; up to 60 minutes with the lid open.

With a power consumption of only 25 W the built-in battery allows up to 80 minutes operation.

Professional audio facilities

Three inputs per channel, graduated basic gain for fine level adjustment, switchable LF filter,

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It is also possible to mix two audio inputs without any additional equipment - important for fast dubbing of a commentary. The BCN 21 contains an audio generator for exact adjustment of the levels, as well as audio monitoring for headphones or an active monitor for listening to the tracks separately.

Integrated automatic editing including simulation

The microprocessor controlled editing system enables EDIT IN and EDIT OUT points to be set and used for simulation and automatic editing, with an accuracy of two frames.

Plus: search to cue position, back space edits with only 1.5 seconds return, parallel connections for VTR remote control.

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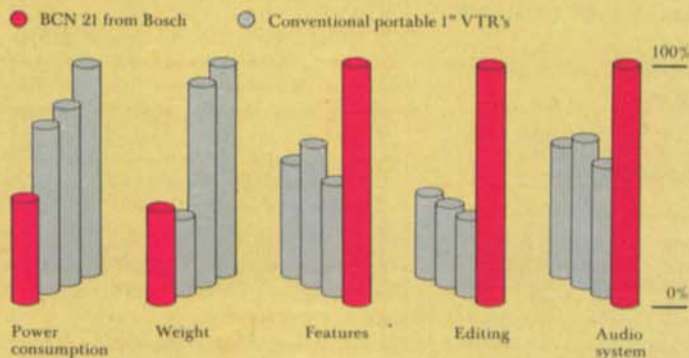
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