

# 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 manufacturer's statements, and publication of these items does not constitute endorsement of the products or services.

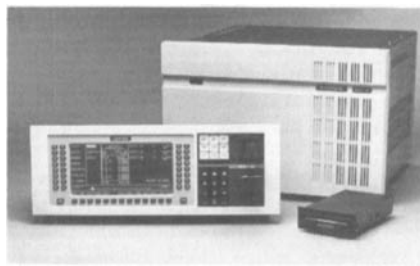
Several new products have been unveiled by Ampex Corp., 401 Broadway, Redwood City, CA 94063-3199. The **VPR-200** (three cassette capability) and the **VPR-250** (two cassette capability) D-2 studio VTRs are optimized for broadcast applications where fast, easy operation, signal quality, cassette play length, and maintainability are key. The VPR-200 supports all three D-2 cassette sizes with play times up to 208 min. The VPR-250 supports the small and medium cassettes with play times up to 94 min. The **VPR-350** (two cassette capability) D-2 studio VTR is a high-performance machine optimized for post-production applications where signal quality, multigeneration performance, and high-speed editing capabilities are desired. It supports all three D-2 cassette sizes with play times up to 94 min.



Ampex Ace 10 video editing system

The **Ace-10** video editing system operates on a standard computer platform. It features a simplified operations keyboard, help text, easy-to-read status display, and list management capabilities. The system is designed to provide practical features essential in newsroom or corporate editing environments, such as a switcher control, sequential auto-assembly, and a 250-event decision list. List output may be in either SMPTE or CMX 340 format.

New 4:2:2 component digital and component analog input/output capabilities for the **ADO<sup>®</sup> 100** digital effects system makes high-quality component digital effects affordable for broadcasters and post-production facilities in a variety of applications. The **CCIR-601 component digital ADO 100 system** is ideally matched for component analog suites based on Betacam format VTRs where it is desirable to maintain the component analog signal path throughout the production process.



Ampex CCIR-601 component digital ADO 100 system

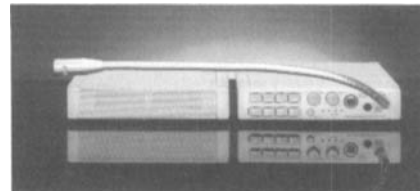
**AutoResolve**, a software designed for the company's ACR-225 digital automated cassette system, allows the video cart system to automatically identify and resolve future playlist conflicts that would prevent the system from executing its on-air playlist. In advance of scheduled air time, the product compares the selected playlist with the contents of its on-line library. During this process, the system will identify any spots which cannot be played as specified by the playlist. To resolve conflicts, the system will pre-cue events and, when necessary, create a buffer copy or break tape automatically. Specific cassettes are designated by the operator for use with conflict resolution. Buffer copies and break tapes can be created during system idle time.

The **CVR-400** has been added to the company's family of Betacam SP camcorders. It features an advanced high-resolution frame interline transfer CCD sensor, which virtually eliminates vertical smear. An optional interface capability allows the product to feed component signals simultaneously not only to its own VTR but to another VTR as well. The stop/start function and viewfinder playback of both VTRs can be controlled from the system.

**Vidlites**, a line of custom designed Videssence studio and ENG/EFP lighting products, come in two compact packages that cover the range of field applications. The products are based on the sustained plasmatic ionic light concept where the lights resemble compact fluorescent fixtures but emit a very bright, flickerless, tungsten-balanced light. The light fixtures are mounted in lightweight, rugged field cases that are actually part of the mounting system. Configurations may be changed in a matter of seconds, giving the field crew flexibility that is not achievable with conventional lighting systems.

**FA-700**, an operationally independent time base corrector that provides full frame S-VHS and 3/4-in. U-matic time base correctors, has been announced by For-A Corp. of America, 320 Nevada St.,

Newton, MA 02160. Each time base corrector provides separate Y/C358 and composite video inputs as well as Y/C358, Y/R-Y/B-Y and composite outputs, requiring only a single input genlock reference. In addition to Y/C358, the product provides clean processing and optimum picture resolution with 1/2-in. and 3/4-in. VTRs due to its wideband CCD comb filter, making it fully compatible with SP 3/4-in. U-matic formats in particular. It also features full color frame memory, automatic picture freeze, and black stretch plus digital dropout compensation.



RTS Systems MCE325 programmable user station

Two new products have been introduced by RTS Systems, 1100 W. Chestnut St., Burbank, CA 91506. **Model MCE325 user station** is a four-channel, user programmable intercom station that features a modular packaging technique. It can be utilized in any one of five package arrangements: rack mount or portable headset station, rack mount or portable speaker station with a modular speaker, and console headset station. With its software and hardware base programming, the station can be operationally and functionally configured in a variety of arrangements to suit individual requirements. It is designed to work as a TX intercom system user station. It can be used in conference-line or talk/listen or four-channel combo talk/listen in two-wire or four-wire line mode. Additional features include a centrally generated remote talk-off signal to turn off all microphones, call signaling, and two-program inputs.

The **Series 2200 Wireless Cue System** is a one-way communication system that features full bandwidth from a single transmitter to multiple receivers. Typical applications include interrupted and non-interrupted program feeds to on-air television and radio commentators, intercom monitoring for behind-the-scene personnel, and sound enhancement for hearing-impaired people. It operates in the VHF frequency range between 72 and 76 MHz and offers a selection of eight frequencies.

A line of lighting and grip products and an advanced camera have been announced by Arriflex Corp., 500 Route 303, Blauvelt, NY 10913. **Model 535 35mm motion-picture camera system** features virtually every mechanical and electronic accessory now in common use, in addition to several unique offerings. Its features include a microprocessor control technol-

ogy that oversees the entire range of camera functions, a swingover viewfinder that pivots 270° left to right and 360° parallel to the lens axis, and a programmable Arri-iglow, which provides eight different illuminated formats, with any three displayed in the finder simultaneously. It also has dual LCD information displays; built-in SMPTE Time Code/Kodak Keycode generator/reader; multilink, nonlubricated movement; a universal aperture plate with interchangeable metal format masks; and a new 24-V DC power system.

Grip products designed to solve a wide variety of recurring problems, include the **Arri Magic Arm**, which is a three-point articulated arm that locks with a single lever in any position to hold small objects in space, the **Double Telescope Hanger** which is used to hang television lighting fixtures from studio grids, the **Sparrow Plate** which is a miniature version of the traditional 3-in. wall plate, the **Mini Flexion™** which is a 6-in. long flexible arm designed to be mounted in the Arri grip head or other clamps and is used for very fine adjustment of dots and fingers, and the **Maxi Flexion**, which is also 6-in. long, but designed to hold much heavier media such as 12x18 flags and nets.

The **1000/3 Fresnel Kit**, which has three 1000-W compact fresnels and a full complement of stands and accessories and

the **2000/2** consisting of two cool-touch, Arrilite 2000 open face lights with barn-doors, scrims, stands, and lamps, are two new heavy duty portable lighting kits.

The pole-operated **1-kW, 2-kW, and 5-kW Studio Fresnels** have been added to the company's lighting line. They outperform traditional lights by 40% and are easier to handle and work with, reducing crew time during rehang and refocusing. Features include cool operating temperatures.

**Electronic ballasts**, built to survive modern on-location video and film productions, are available in 2,500-W and 12,000-W fixtures. They eliminate the concern for density changes or flicker when shooting up to 10,000 frames/sec. Light output is increased by approximately 5% with both constant light output and constant color temperature over the entire life of the lamp. As an added advantage, the ballasts permit fluctuations of up to 10% in both voltage and power supply frequency with a nominal effect on lamp power and no effect on the ballast's flicker-free capability.

Creation of up to five layers of video in a two channel system is now possible via the **DCC-21 Dual Channel Combiner** available from Pinnacle Systems, Inc., 2380 Walsh Ave., Santa Clara, CA 95051. The



*Pinnacle Systems DCC-21 dual channel combiner*

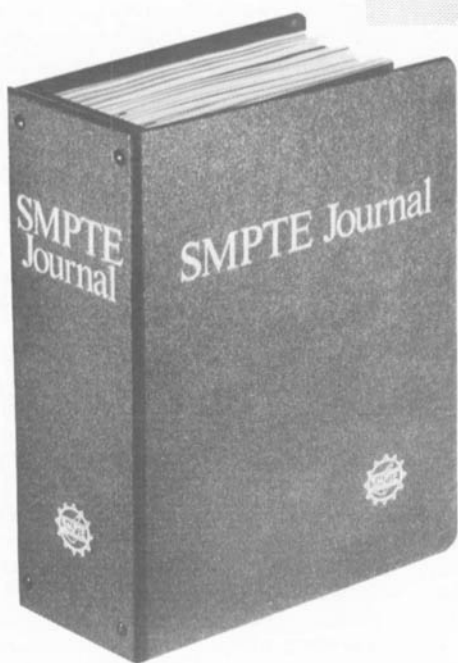
product is designed for use with the 2100 Series Video Workstation™ and allows users to simultaneously manipulate images with input from two separate workstations using a single control panel. Multiple layering is achieved through two live images and two still montages keyed over a background source, which reduces the number of passes needed to complete a project. The product can optimize machine utilization because operators can work in either a dual or single channel mode. In addition, the user can set the priority in which the video from the two workstations will be displayed at the DCC-21 video output.

A family of products has been introduced by Dynair Electronics, 5275 Market St., San Diego, CA 92114. The **LED/PIN fiber optic line of self-contained video transmitters**, is available in three distance/bandwidth options to serve broadcast, education, corporate, and CCTV applications as well as the needs of command and control systems where computer graphics are frequently used.

**Dyna Mite routing switcher**, now available with full alphanumeric source and destination displays, has also been announced. The mnemonic display titles show actual names versus numbers only, so that the operator can make mistake-free selections and easily monitor the current status of the system. It has a 40-MHz capability and is the first system of its size that provides video, audio, and control within one frame. It is designed to handle NTSC, PAL, and SECAM, as well as all proposed ATV and HDTV signals and medium resolution graphics signals.

The **D2 digital switching and distribution system** for broadcast facilities incorporates an approach used for many years in the telecommunication industry to overcome bandwidth, system timing, and cabling considerations. Bipolar AMI-B3ZS coding is used for bringing digital switching and distribution to television facilities. This type of coding results in no system tilt, few cascaded genlocks and clamps for quick transient recovery, easy setup and maintenance, and fast troubleshooting.

**Series 3100** — a line of six output 30-MHz utility video, equalizing video, and pulse distribution amplifiers — is avail-



## SMPTE JOURNAL BINDERS

To keep your Journals easily accessible and in good order. This sturdy, handsomely imprinted rod-binder holds a year's issues (12) plus Directory. Each issue can be easily bound or detached!

Order these durable, high quality binders from SMPTE

Postage and Handling Included: USA—\$21.00 each; Mexico and Canada—\$24.00 each; Overseas—\$39.00 each.

**SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS**

595 W. Hartsdale Ave., White Plains, N.Y. 10607  
(914) 761-1100





# THINK OF US AS A UNITED NATIONS OF SOUND

Anywhere you find MTE sound equipment — that's practically everywhere in the world — you'll find Magna-Tech service readily available. Not only when you buy your equipment, but for as long as you own it. Our service engineers are on the road virtually every day of the year, calling on customers, checking on equipment, working with local service people.

With sales offices on six continents, we can provide the right post production equipment from a full line that includes magnetic film recorders and reproducers,

teletext magnetic followers, video tape-film interlocks, electronic looping systems, dubbing systems, 16-and-35mm electronic projectors. Or, we can provide total facility engineering and consultation.

More awards have been won for theatrical and television films on MTE equipment than all others combined. We're ready to help you win some too.

Magna-Tech Electronic Co., Inc.  
630 Ninth Ave., N.Y., NY 10036  
Telephone 212-586-7240  
Telex 126191. Cable "Magtech"  
Fax 212-265-3638.

## MAGNA-TECH ELECTRONIC

NEW YORK • LOS ANGELES • LONDON • PARIS • BRUSSELS • KEHL (WEST GERMANY)  
STOCKHOLM • ROME • BARCELONA • ATHENS • JOHANNESBURG • HONG KONG • TOKYO  
SEOUL • TAIPEI • MANILA • SYDNEY • AUKLAND • KUALA LUMPUR • MADRAS • CARACAS.



The Sound Heard Round the World\*

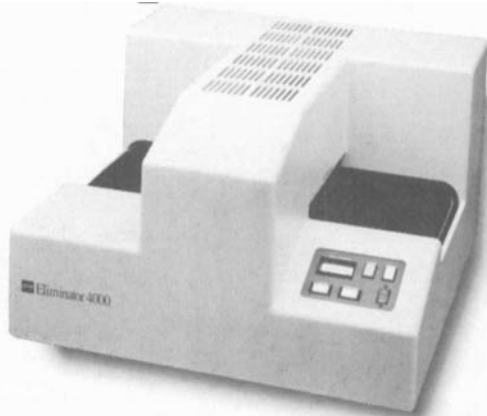
## Did You Know?

SMPTE has a full line of test materials for television and motion pictures. The SMPTE has monochrome TV test patterns, color TV subjective reference films and slides, photographic sound test films, magnetic sound test films, and a complete range of projector performance films. Most TV films are available in 35mm, 16mm and in 8 X 10-inch and 2 X 2-inch transparencies. The sound films are available in 35mm and 16mm (the magnetic sound films are also available in super 8), and the projector performance films are available in 35mm, 16mm, super 8 and regular 8, depending upon the film type. Films are in stock for immediate shipment. All films are guaranteed.

For your free catalog, write to:

SMPTE Test Film Department  
595 W. Hartsdale Avenue  
White Plains, New York 10607

## Leaving the Users of MII, Betacam SP and D2 Tape Speechless.



## The Eliminator 4000

There's no one better at eliminating unwanted information than Garner. So we won't bore you with a lot of impressive talk about our Eliminator 4000. All we'll say is that it's so effective at erasing low-end audio noise, it's the one degausser approved for use by the major television networks and production facilities. And it's the one bulk eraser that guarantees -75 dB erasure of completely saturated 1500 oersted metal particle tape in 12 seconds or less.

If you'd like to know more about everything the Eliminator 4000 can do for you, give us a call. We've got a lot to say.

**garner industries**

4200 N. 48th Street / Lincoln, NE 68504 / Toll-free 1-800-228-0275 / FAX (402) 464-6960

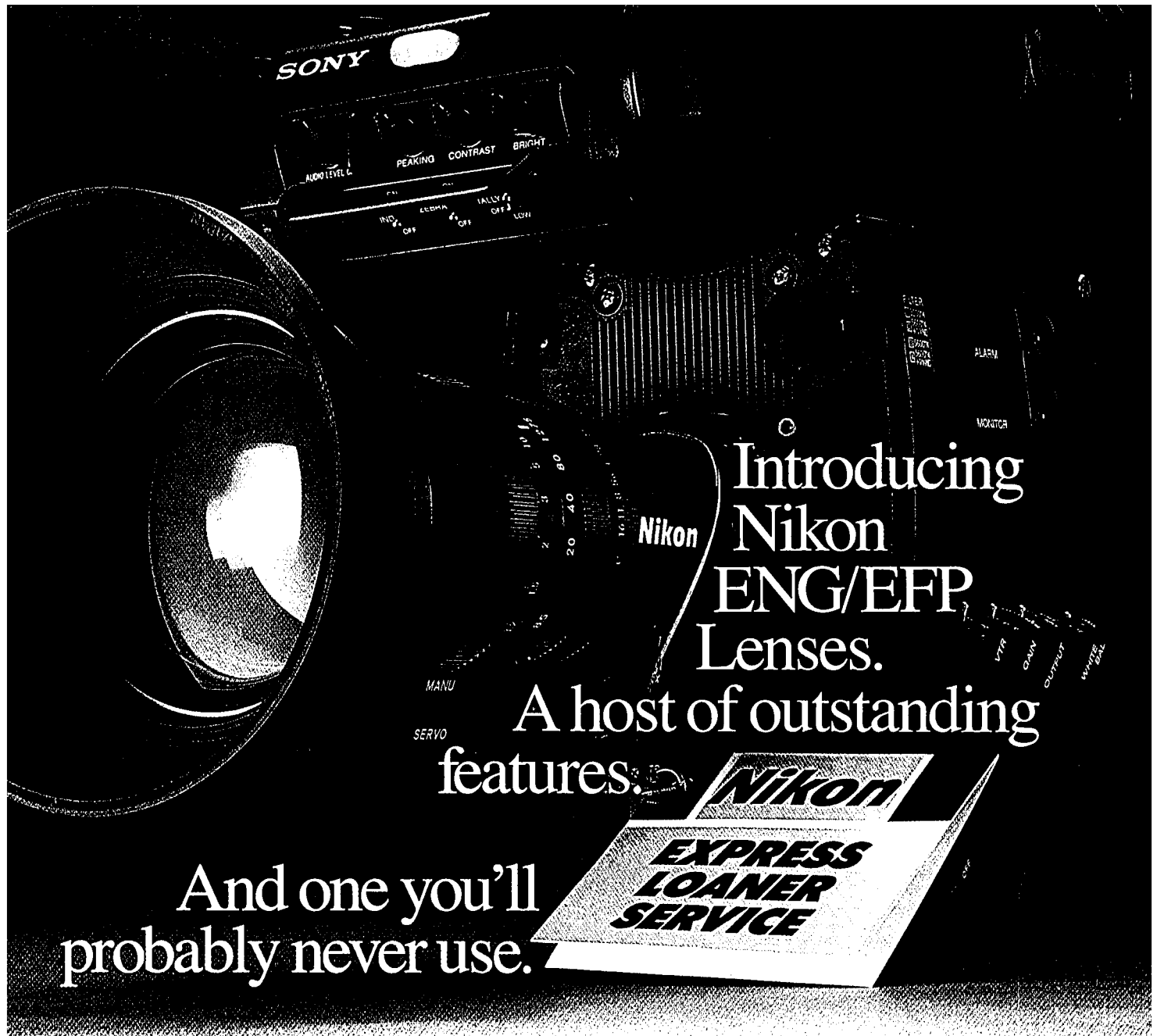
able in a modular design that can be organized into one or two unit packages. The products are designed to meet the requirements of corporate video, including training, videoconferencing and security, and entertainment and broadcasting facilities, such as duplication, production, post-production, and any studio application. The video equalizing modules can compensate for up to 1000 ft of Belden 8281 or equivalent coax cable.

**Postpro™ SD, an integrated workstation** that combines Synclavier® sound design capabilities with Direct-to-Disk™ recording and editing in one enclosure, is available from New England Digital, 49 S. Main St., White River Junction, VT 05001. Offering 8 separate Synclavier outputs and up to 16 tracks of disk recording, the product presents a full array of sound design capabilities and disk recording and editing functions. It is available in 8 or 16-track configurations and offers nearly 30 min/track of continuous recording time at 44.1 kHz. The sound design module is completely integrated into the overall system and is compatible with an Apple Macintosh® interface. The product is available with direct digital I/Os for AES/EBU, ProDigi, and SDIF-2 formats; VITC and SMPTE synchronization; multirate sampling from 1 to 100 kHz, user variable; as well as comprehensive training and service.



Video Post and Transfer dream™ system

An all-digital multifunction audio system designed for television post-production has been unveiled by Video Post and Transfer, Inc., 8036 Aviation Place, Box 53, Love Field Terminal, Dallas, TX 75235. The Digital Real-time Editing and Audio Master system (dream™) is the first system of its kind for the on-line edit suite. It incorporates a 16X4 fully-automated digital mixing console complete with on-board digital effect, digital out-board processing equipment, compact disc playback in the digital domain, A/D and D/A processing for use with analog sources or destinations, digital Foley and sound effects capability, and a digital audio workstation for music editing and dialog replacement. In addition, the system includes a musical instrument digital interface (MIDI) keyboard for real-time entry of sound effects and music stingers,



And one you'll probably never use.

Selecting an ENG/EFP lens for your  $\frac{2}{3}$ " CCD camera is a creative decision. It should be lightweight, responsive and zoom smooth as silk at any speed. Its design should utilize Extra-low Dispersion Glass to minimize chromatic aberration. It should include an anti-reflection coating for improved spectrum transmission ratio. And it should have an advanced design that improves corner resolution and produces a high, flat MTF curve. In short, it should be a Nikon.

But selecting an ENG/EFP lens is also a business decision. And on that score we provide something almost as compelling as Nikon quality – our unique Express Loaner Service. Simply register the Warranty, then in the unlikely event your lens needs service we'll get you a loaner lens overnight. All your investment in equipment and crews is more secure than ever before.

A service like this is remarkable in itself. But not quite as remarkable as our lenses.

As with all Nikon products, our new ENG/EFP lenses have all our renowned quality, tradition and technology built right in. Our growing line is also fully accessorized, including adapters that allow the use of your entire arsenal of Nikkor 35mm SLR camera lenses for special effects.

To find out more, call or write for our complete brochure: Nikon Electronic Imaging, Dept. D1, 101 Cleveland Avenue, Bayshore, NY 11706, (516) 222-0200 Ext. 324. Or call 1-800-NIKON-US (645-6687) for the dealer nearest you.

**Nikon**  
**ELECTRONIC IMAGING**  
© 1990 Nikon Inc.

**F**rom the moment you experience the cutting edge quality of the HK-355, you'll realize that this is no ordinary chip camera. From its lightweight aluminum design to its outstanding specs, Ikegami's premier Studio/Field chip camera is simply the best ever built.

**T**he HK-355 features three FIT 2/3" Chips each delivering 450,000 individual pixels, a resolution of 800 TVL and a S/N ratio of 62dB. A newly developed optical LPF (low-pass filter) insures exceptional response characteristics, while our CCD driving system and 3-DTL enhancer results in dramatic improvements in vertical resolution, and substantial reductions in moire noise patterns. The HK-355 also features Ikegami's exclusive Automatic Colorimetry Correction Circuitry.

**B**reakthrough engineering that incorporates auto level setup functions with chip technology, eliminates various setup functions associated with tube cameras, while triax, multicore, and fiber optics are connected via simple plug-in modules.

**A**dditional features include plug-in board design for easy maintenance, a computer controlled CCU, a 7" viewfinder and optional 7" color viewfinder.

**A** hand-held version, the HK-355P, is available and can operate from the same base station or with any popular recorder.

**O**wners of Ikegami's outstanding HK-323 tube camera can enjoy total compatibility with all HK-355 accessories, allowing them to own the finest studio chip camera at a substantial costs savings when compared to the competition.

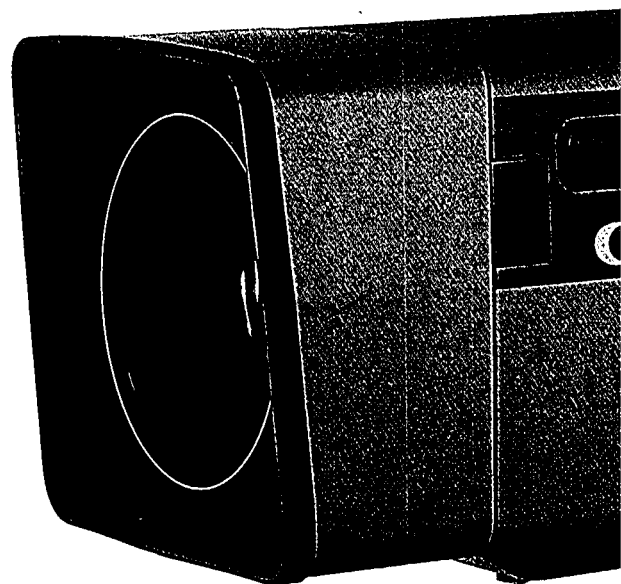
**F**or information on the studio chip that's best, contact your Regional Sales Office or the Ikegami dealer nearest you.

# Ikegami

Ikegami Electronics (USA), Inc.  
37 Brook Avenue, Maywood, NJ 07607  
East Coast: (201)368-9171 West Coast: (213)534-0050  
Southeast: (305)735-2203 Southwest: (214)869-2363  
Midwest: (708)834-9774 Hawaii: (808)946-5955

# AT LAST, A STUDIO

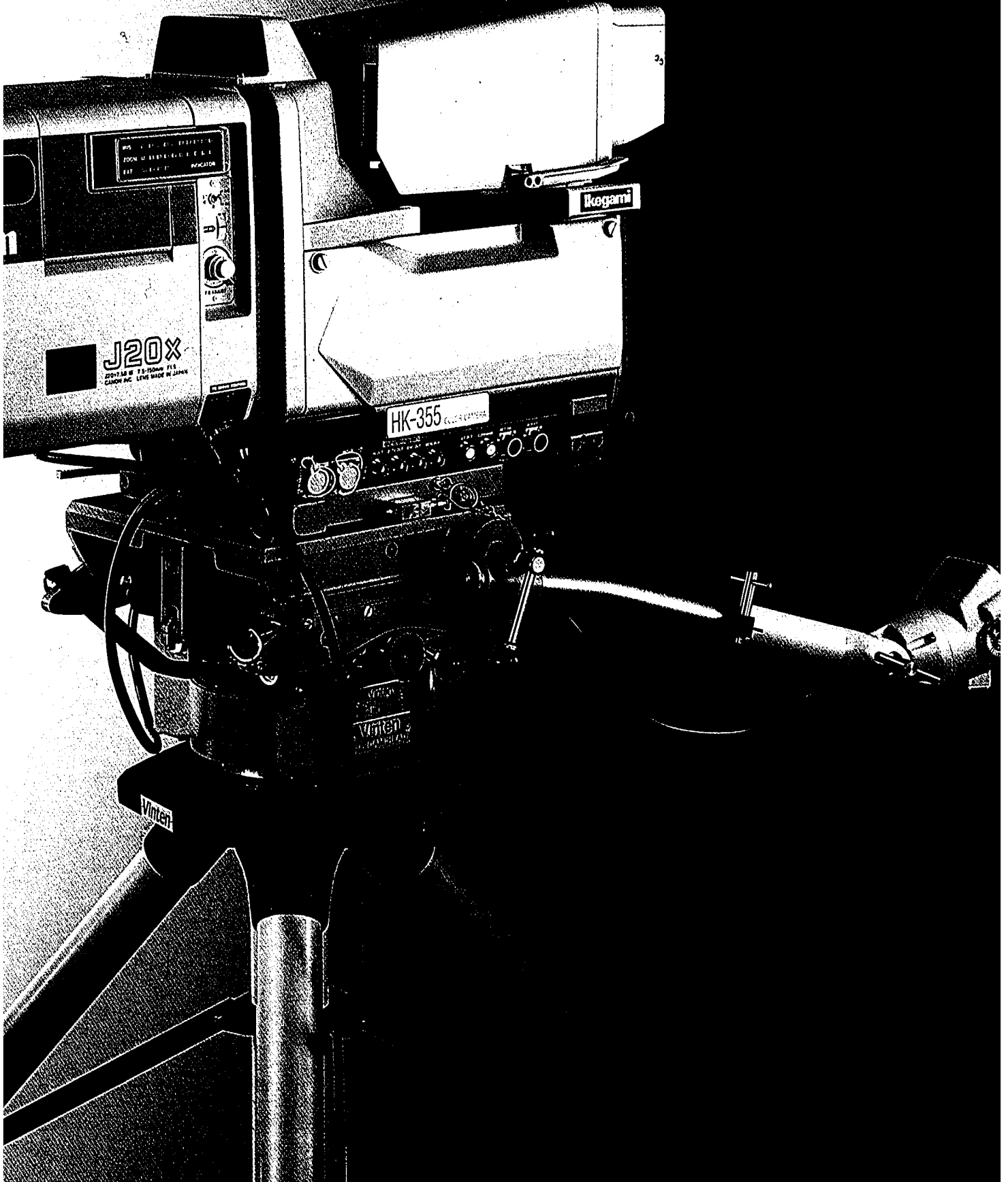
## INTRODUCING IKEGAMI'S HK-355 CCD



**IKEGAMI'S HK-355P PORTABLE COMPANION CCD**

CHIP CAMERA

X Best



as well as compatibility with external MIDI files and equipment. The system operates at 48 kHz and accepts AES/EBU signals in-and-out with an internal resolution of 24 bits.



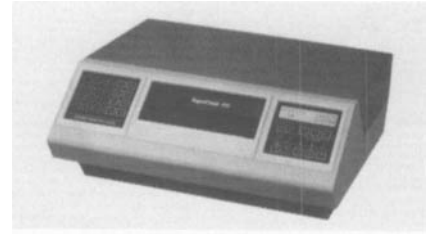
Alan Gordon Enterprises 12-120 Mini Invertor

Two new audio power supply products have been launched by Alan Gordon Enterprises, 1430 Cahuenga Blvd., Hollywood, CA 90078. The **Lavalier Power Supply** is designed for use with Sennheiser MKE-2 or TRAM TR-50 Lavaliers. Equipped with Vega compatible Lemo connector, the unit provides excellent gain for clean audio production. A metal casing protects all sensitive parts from damage and shields against RFI and other electro-magnetic interference. The **12-120 Mini Invertor** is a simple means of powering AC mixing panels and other equipment from 12-V batteries. The unit converts 11 to 15-V DC to clean 115-V AC  $\pm 5\%$  and provides continuous power up to 100 W. The peak output is 200 W

with a 90% efficiency. Other features include low battery alarm-audible warning at 10.7-V input and low battery shutdown at 10.0 V.

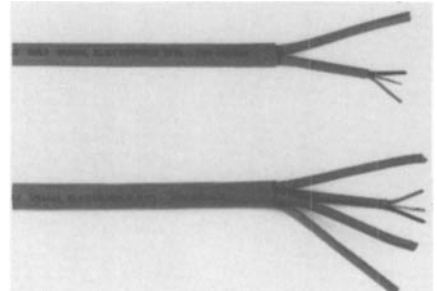
A **double-coated pancake videotape** has been announced by Fuji Photo Film, Magnetic Products Div., 555 Taxter Rd., Elmsford, NY 10523. UH400 is constructed of two separate layers of magnetic particles instead of a single layer, so that audio and video signals are finely tuned to produce quality results. From the bottom, the product features a 14.7- $\mu$  thick base film layer under a 0.3- $\mu$  thick undercoating layer. The third layer is 3.5- $\mu$  thick and consists of Beridox DC-A particles which are specially formulated to optimize the output of the longer wavelength, low-frequency audio signal which reaches farther into the tape structure than the shorter wavelength video signals. The top layer is 0.5- $\mu$  thick and is constructed of new superfine cobalt modified ferric oxide Beridox DC-V particles that are designed to optimize the recording of the higher frequency video signals.

**Professional videotape cleaner/inspector/rewinders** are available from RTI, 4700 Chase Ave., Lincolnwood, IL 60646-1689. Tapechek Series 400 units clean and polish tapes, removing loose oxide and dirt. The units inspect a two-hr movie in



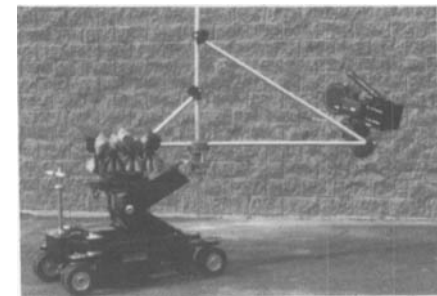
RTI Tapechek 400 Series unit

only two mins, finding tape damage and grading the tape as in A, B, or C condition. A tape information display shows tape length in minutes and the number and location of any physical defects. An optional printer output automatically produces hard copy reports of tape condition.



Nemal Electronics audio snake cables

A line of **multipair audio snake cables** has been made available by Nemal Electronics International, Inc., 12240 NE 14th Ave., N. Miami, FL 33161. The cables are available in 2 through 24 pair constructions, all of which comply with the new National Electric Code CL2 requirements. Each pair consists of two 22-gauge stranded conductors plus a drain wire, foil shield, and individually numbered jacket. They are available in bulk as well as pre-cut terminated lengths.



Mitchell Plate adapter by Kinetic Support Systems

An **adapter coupling** for the Mitchell Plate has been introduced by Kinetic Support Systems, 29210 Pointe O Woods Place, Suite 205, Southfield, MI 48034. The product allows the VCM F189 camera/equipment mount to be used to offset a camera from a dolly farther than a traditional offset device. It attaches to a Mitchell Plate using a giant threaded steel pin and steel nut. Few components are needed to provide rigid support through triangulation and counter weights are used to provide a balanced load.

**IN A HURRY?  
AUTOMATE TIMING  
WITH FASTIME.**

- Automatically adjusts delay for sync timing up to 1575 Nanoseconds.
- Burst timing automatically adjusted.
- Automatically times 16 channels in less than 60 seconds.
- Delay settings are stored during power failure or maintenance, even if cards are removed from rack.
- Manual fine trim is available on each channel.
- Allows manual selection and timing adjustment of each channel.

Call or write for Application Brochures from Allen Avionics and BAL.

**ALLEN AVIONICS, INC.**  
224 East Second Street, Mineola, NY 11501  
Tel: 516-248-8080 Fax: 516-747-6724