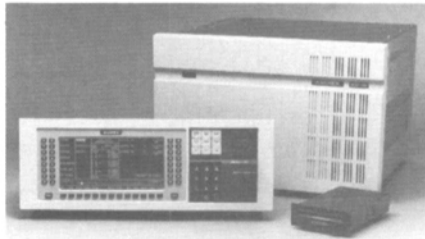


# New Products

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.



Ampex ADO 100 digital effects system

A digital effects system, called the ADO 100, is available from Ampex Corp., 401 Broadway, Redwood City, CA 94063-3199. It is intended for small broadcast, post-production, and corporate video facilities and delivers high-end picture quality, artifact-free compression/expansion in two-dimension or optional three-dimension. Like other ADO units, the ADO 100 can be used as an effects device or as a tool to invisibly clean up problems that occur during production. When used with

the Ampex Vista switcher, the ADO 100 can be operated from the Vista control panel. The integrated package produces a separate range of effects: wiping and keying inside the ADO image, combination wipe/pull page turns, resizing and flying chroma keys, or new pattern wipes.

The basic two-dimensional system can be upgraded to full three-dimensional perspective. A variety of system options will be offered in the future.

Also new from Ampex is the **DST-300 family of digital signal translators**. The translators digitally convert video segments produced in the component digital domain to composite digital video without image degradation. They bridge D-2 systems with equipment that can accept or output 4:2:2 component digital signals.

A **CCD camera**, from Sony Corp. of America, 9 West 57th St., New York, NY 10019, can capture color images in virtual darkness through the use of image intensifiers. Although image intensifying is not a new concept, its use had previously resulted in bulky cameras that were hard to operate. The BVP-7000 camera has a horizontal resolution of 370 lines with almost no lag and a signal-to-noise ratio of 59 dB.



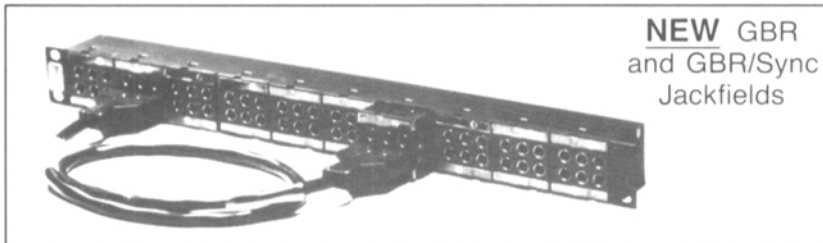
Sony BVP-7000 CCD camera

It can be used with a Betacam SP recorder to function as a camcorder.

Also new from Sony is the **BVP-70 CCD camera**. It retains the characteristics of its predecessor, the BVP-7, but uses the frame interline transfer chip array which eliminates vertical smear. By immediately transferring charges at high speed from the sensor registers to second storage arrays, the frame interline system leaves almost no time for any build-up of contamination that would normally result in vertical smear. This ability to handle intense highlights makes the BVP-70 suitable for applications where lighting conditions can vary from extreme darkness to brightness. It can be coupled with a Betacam SP videotape recorder for camcorder use. This camera contains a newly developed microphone that is highly resistant to vibration.

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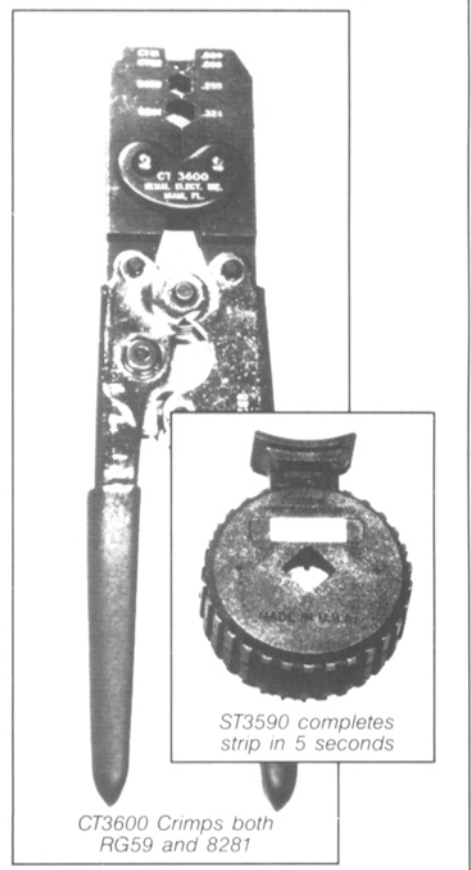
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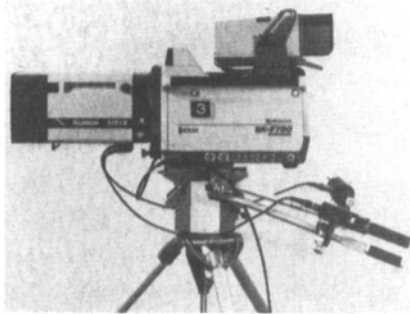
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Hitachi SK-F700 studio/field camera

A studio/field camera, the SK-F700, has been introduced by Hitachi Denshi America, Ltd., 175 Crossways Park West, Woodbury, NY 11797. The camera contains a 2/3-in. 400,000 pixel CCD and horizontal resolution of 700 television lines. A built-in linear matrix-masking amplifier ensures high-fidelity color rendition. There is also a six-speed, built-in electronic shutter. The camera can be remotely controlled from as far as 2400 m from the base station using RGB triax.

Also new from Hitachi is the SK-F1 CCD camera. The camera uses frame interline transfer (FIT) technology and has a horizontal resolution of 650 television lines and virtually no smear. The lightweight camera is dockable and compatible with all of the manufacturer's SK Computacam systems. It is designed for both multicore and triax operation and functions as a recording camera, a stand-alone unit, or a remote electronic field production system.



Ampex Corp.'s CVR-300 camcorder

Two video recorders have been introduced by Ampex Corp., 401 Broadway, Redwood City, CA 94063-3199. The Betacam SP CVR-300 one-piece camcorder weighs just over 15 lb, including battery and cassette, and has a resolution of 670 television lines. The one-piece design eliminates the main harness connection between the camera and the videotape recorder. CCD sensors are bonded directly to the prism block for a permanently aligned, shock-resistant system. They eliminate lag, burn-in, and microphone noise and are not affected by outside magnetic or electrical interference. The camcorder accepts cassettes up to 30 min long; a rechargeable battery provides up to 55 min of continuous operation.

Also new from Ampex is the CVC-70 high-resolution camera. The CVC-70 generates pictures with 700 lines of resolution for studio quality indoors or out. An interline transfer CCD microchip produces

420,000 pixels. A sensor absorbs undesirable electronic charges on the chip's surface that cause dark current. As a result, it produces low dark current, reduced fixed pattern noise, and a high SNR. The camera automatically adjusts for high-brightness, high-contrast scenes; no registration adjustment is needed. The CVC-70 has an electronic shutter; selectable shutter speeds range from 1/100 to 1/2000 sec. Available options are a 19-in. rack-mountable camera control, 5-in. studio viewfinder, camera adapter, hand remote control, and a variety of batteries and cases.



Barco Industries broadcast monitor

A line of intelligent color broadcast monitors, the CVS series, from Barco Industries, Inc., 472 Amherst St., Nashua, NH 03063, incorporates a microprocessor that controls all monitor display parameters and functions. The manufacturer has taken full advantage of the microprocessor-based design by separating the major system components into modular function boards for easy maintenance. The open architecture allows for the addition of function boards to adapt to future technology; three expansion slots are provided. Both monitors accept the manufacturer's Light Probe, which automatically calibrates display parameters to SMPTE or EBU standards in less than one minute. Absolute color temperature accuracy and stability regardless of picture tube aging or changing environmental conditions is also common to both monitors. Up to 48 CVS series monitors can be controlled remotely.

An audio for video mixer, from For-A Corp. of America, Nonantum Office Park, 320 Nevada St., Newton, MA 02160, adjusts audio effects with the same level of control with which video effects are produced. The AFV-500 mixer allows for keyframe programming of audio mixes as well as external control by a computerized editing system. Programming is via the Machine Bus Memory System, which has a capacity for storing up to 90 configurations. A separate fader for manual transitions of both channels is provided; auto transitions are triggered by an external device through the standard GPI interface.

With the AFV-500 the operator can program source assignments, levels, equalization, and panning with smooth transitions between keyframes. The mixer interfaces with the company's video production switchers and can also be used with switchers from other manufacturers.