

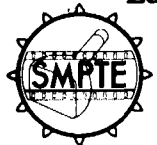
Are you sure  
we're work-  
ing with the  
latest specs  
for those  
production  
switchers?

It's all up-  
dated for us

...thanks  
to TESS!

TESS

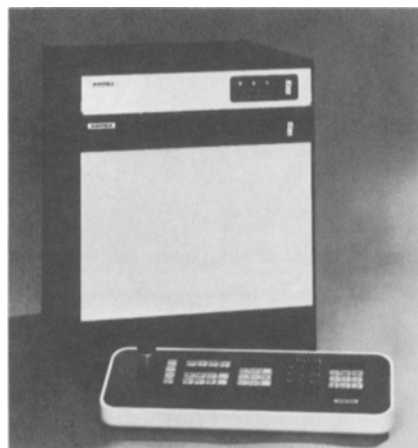
**Memo to Members:  
Have You Signed Up  
A New Member  
Lately?**



As one who has chosen to belong to SMPTE, you are aware of the benefits of SMPTE membership. Among these benefits are the prestige of being associated with the world's premier professional organization in the fields of motion pictures and television, the monthly *SMPTE Journal*, the local section meetings, and the annual conferences and equipment exhibits. If you know someone who meets SMPTE's requirements, you can offer to sponsor him or her for membership. This is the best way to help strengthen the Society and point someone toward increased professional growth. Applications are available from SMPTE Membership Dept., 862 Scarsdale Ave., Scarsdale, NY 10583.

## NEW PRODUCTS AND DEVELOPMENTS

A digital telecine, the B3410, has been announced by Marconi Communication Systems Ltd., Marconi House, Chelmsford CM1 1PL, England. The system can operate on PAL, NTSC, or SECAM standards, or with RGB or digital output. Virtually all video signal processing is carried out digitally, and to ensure accuracy the three video signals use 11-bit sampling before gamma. A microprocessor control system is used to set up gamma correction, matrix correction, aperture correction and other basic parameters, and also supports the automatics. It continuously monitors the control panel states, film transport and automatic controls, and routes the appropriate commands to the video chain and projector light control servos. Built into the system is a resident monitor program permitting rapid checks with diagnostic aids.



A digital optical effect system which gives broadcasters the ability to rotate a three-dimensional picture in perspective has been developed by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The system, called Merlyn, is designed to alter the geometry, size and perspective of video images in real time. The system can also generate picture rotation about all three axes and execute flips, spins and tumbles with digital transparent video processing in up to four separate channels. State-of-the-art computer graphics, advanced digital signal processing design techniques and microprocessor-based control system concepts were combined to develop the digital optical effects system, the announcement stated. Merlyn can be used for both on- and off-line video productions. A joystick can control the picture manipulations. Within a single special effect, the

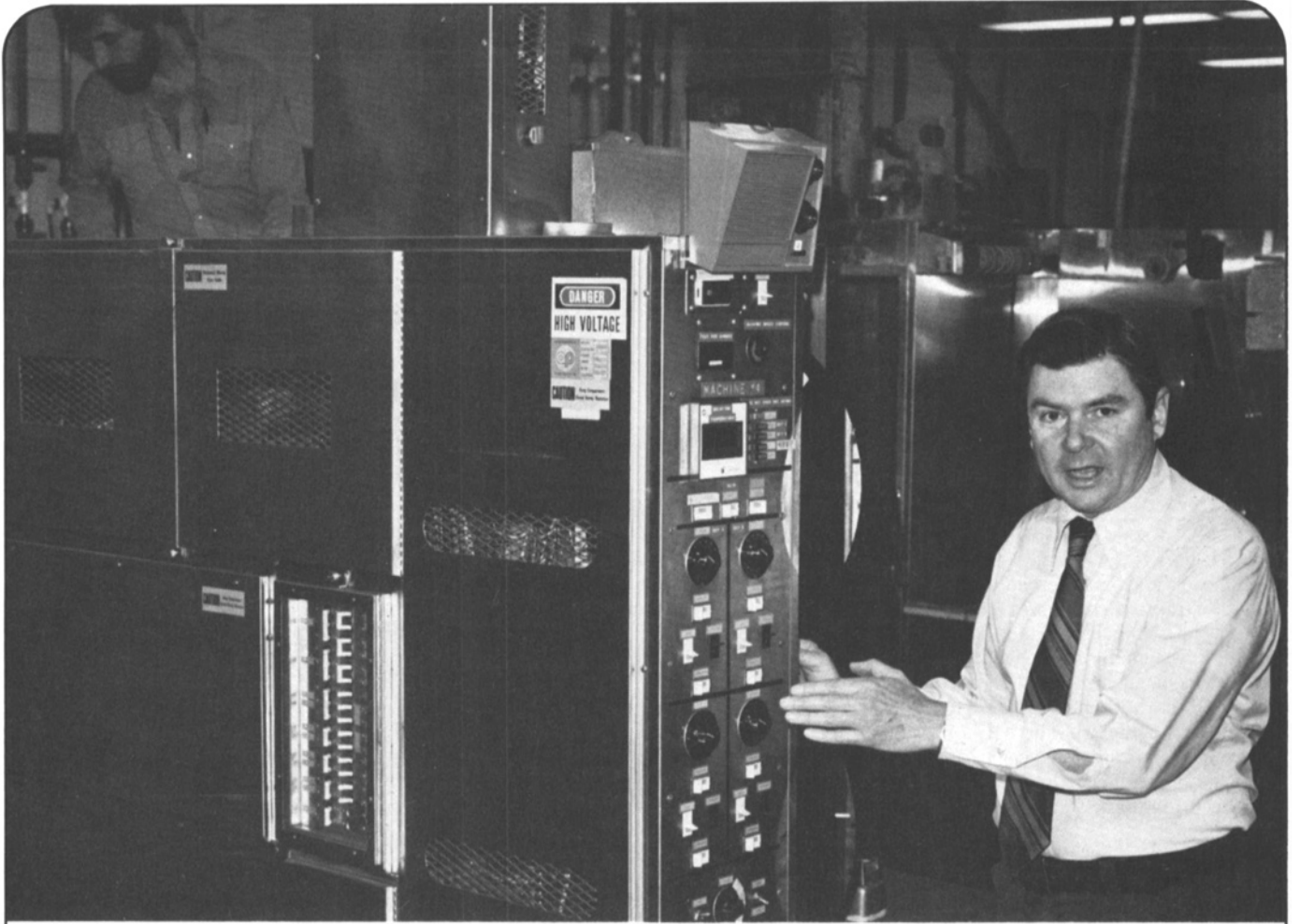
system can accommodate up to 24 different picture manipulations.

Each video image can be positioned to move left, right, up, down or in any combination of movements or positions. Merlyn can reduce or expand video images. Images can be changed continuously and can be positioned anywhere on the screen in any size. Merlyn converts the video signal into luminance and chrominance components. The signals are digitized and stored in random access memories for processing and complex filtering operations. The system has a simple interface between the control panels and signal systems for utilization of several remote panels in a multi-studio environment. The base price is about \$100,000.

An automatic focusing lens for broadcast video cameras has been announced by the Canon Optical Products Div., Canon U.S.A., One Canon Plaza, Lake Success, NY 11042. The lens employs an infrared active-type auto focus system. The system relies on strong infrared emitting light from a diode in the lens. When the lens receives the light as it is reflected from the subject, it automatically adjusts the focusing to the proper position. An advantage of the infrared active system is that it can focus in complete darkness.

A color viewfinder for television cameras has been announced by Link Electronics Ltd., North Way Andover, Hampshire, England SP10 5AJ. It has all standard features of the black-and-white viewfinders, but has an extended range of phase equalized aperture correction to help cameramen focus. Benefits of the new viewfinder include easier coverage of sports where distinguishing color can be vital, and less danger of the discordant color possible when shots are composed through a black-and-white viewfinder and judged on luminance alone. Known as the 127/C, the color viewfinder can be quickly interchanged with the 127 viewfinder fitted as standard on the Link 125 color broadcast cameras.

The ME-248, a wide band video recorder with the capability of recording high definition television signals of up to 14 MHz, has been introduced by Merlin Engineering Works, 1880 Embarcadero Rd., Palo Alto, CA 94303. The recorder is based on a standard Fernseh BCN-50 1-in type B



## OLD FASHIONED CRAFTSMANSHIP

**"We were looking for quality," states Floyd Weber, Jr., of Byron Motion Pictures in Washington, D.C., "so we selected an Allen processor."**

Advanced engineering and good old fashioned craftsmanship are the reasons why Byron specified Allen. You just don't find the Allen standard of quality in any other processor. But it's built into each Allen machine. An example is Allen's exclusive ATA (Automatic Tension Adjusting) film transport system for smooth, fast operation. Solution and energy conservation systems are also standard, as are digital speed and temperature readouts. Automatic load accumulators, 316 SS and titanium throughout, and removable racks are other advantages. All help in keeping cleanup and maintenance to a minimum. But our reputation for manufacturing quality equipment is only part of the story; we are known for good service and technical support, as well. For details, send for literature or talk with an Allen Rep.



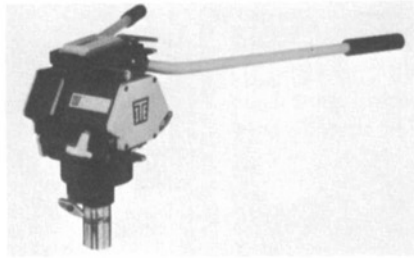
**Allen Products**

180 Wampus Lane, Milford, CT 06460 Tel: 203 878 7454 Telex: 964368  
Southeast Tel: 404 422 0912 Midwest Tel: 312 297 6262 West Tel: 415 681 6541 Europe Tel: U.K. Harlow 36038

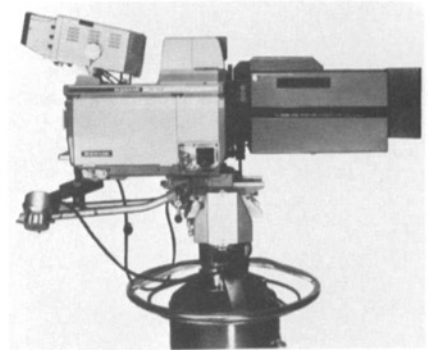


VTR. It uses the standard scanner, standard heads and commercially available tape. The transport and servos are modified to run the scanner and tape at double speed. New signal system electronics are fitted and a bandwidth of 14 MHz at 45 dB signal-to-noise with a 5% response to a  $t/2$  test pulse is achieved. The ME-248 is a single channel recorder and can be adapted to a wide range of encoding standards for color recording. The signal system can be

optimized for varying bandwidths. Applications include electronic cinematography, high resolution X-ray recording, wideband data recording and studio master recording. For applications requiring transfer to other mediums such as disk or film a reduced rate playback can be provided.



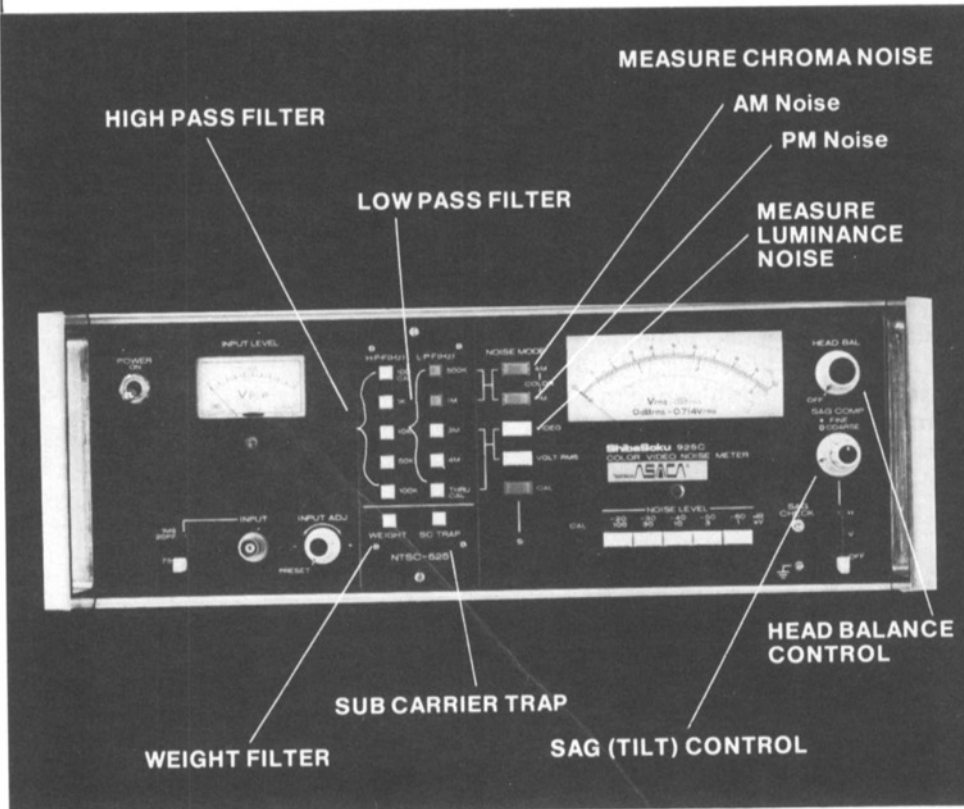
A camera head featuring a viscosity drag control system for both pan and tilt operations has been announced by Innovative Television Equipment, 6445 De Soto Ave., P.O. Box 681, Woodland Hills, CA 91365. Designated the ITE-H10, the new hydro head has an adjustable center of gravity control which permits counterbalanced load control to provide constant camera balance. The lightweight (9 lb) head is adaptable to all ITE tripods and can support cameras weighing up to 40 lb. The price is \$1275.



An automatic field/studio color TV camera, Model HK-322, has been announced by Ikegami Electronics (USA), Inc., 37 Brook Ave., Maywood, NJ 07607. The camera has completely automatic adjustment as well as triax cable operation capabilities. A centralized digital control system permits the setup and operation of up to 100 cameras within a large broadcast center, all from a single control panel. The camera uses a prism-optics system with 1-in XQ-20270 diode-gun Plumbicons or specially ordered XQ-1500 anti-comet-tail pickup tubes said to result in high sensitivity and resolution with minimal lag. A digital registration correction circuit is incorporated. Complete digital shading correction is also provided.

The digital setup control has manual,

## MEASURES CHROMA NOISE AND LUMINANCE NOISE



World's first Instrument to Measure Chroma Noise Generated In Color and Black and White Television Transmission Equipment, TV Cameras, VTRs, Video Disc Units, Digital Image Processors.

Measure the value of this unique instrument\*, Model 925C Video Noise Meter, and you'll see why it has been purchased by a major USA network. It measures chroma band noise with a single color signal of desired level that contains both a sync signal and a color burst signal. Chroma noise can even be split into AM and PM components which can be measured separately. Unbalanced 2 head of VTR can be corrected for proper measurement.

A must for every station and production house in TV. Write for information.

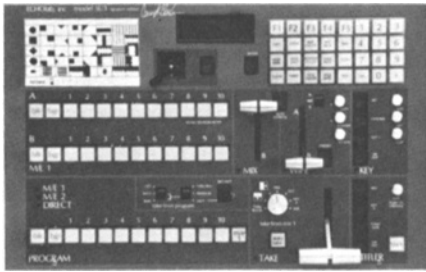
We create change

**ASACA**<sup>®</sup>

ASACA CORPORATION OF AMERICA  
1277 Rand Road, Des Plaines, Ill. 60016  
Phone (312) 298-4380

\*Product of SHIBASOKU—  
sister company of ASACA

fully automatic and quick auto-check modes. In the automatic mode, the complete setup includes adjustment of the green channel. In the manual mode, a digital numerical readout of the correction values applied by the rotary encoders is displayed.



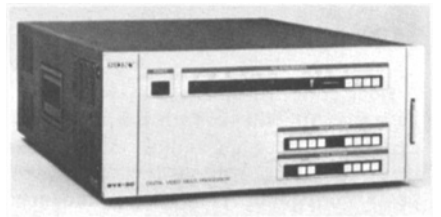
A computer-controlled production switcher featuring transition-centered architecture and offering programming flexibility has been announced by ECHOLab, Inc., 175 Bedford St., Burlington, MA 01803. Designated Model SE/3, the switcher employs a built-in microcomputer that replaces most of the digital logic found in other switchers and controls all switching and effects. It provides for programming, storage and instant re-creation of any desired sequence of patterns, pictures and transitions. The integral solid state memory can store up to 600 shots. The SE/3 has 12

inputs including black and background. Two-and-a-half separate pattern generators and three mix/effects amplifiers can simultaneously air five different sources and three wipe patterns without lock-outs. The SE/3 is priced at about \$20,000.

A video recording and editing system utilizing a 1/2-in videotape cassette and three-tube color TV camera has been announced by Panasonic Video Systems Division, One Panasonic Way, Secaucus, NJ 07094. Powered by a self-contained battery, the main unit houses a videocassette recorder and color camera in a single-unit configuration. A companion studio editing system was also announced. The recording camera weighs about 22 lb including lens and batteries. Dimensions, excluding lens and microphone, are 4.7 in wide, 16.5 in deep and 13 in high. The camera is



equipped with a three-tube prism optics system and 2/3-in pickup tubes.



The BVX-30 digital video multiprocessor has been announced by Sony Video Products Co., 9 W. 57 St., New York, NY 10019. The new multiprocessor provides "infinite window" timebase correction, freeze frame, digital enhancement and noise reduction. An optional BK-31 color processor provides full color correction. Built-in heterodyne color recovery permits full processing of inputs from the U-matic VTRs such as Sony's BVU-200B and the BVU-800 series. It can also process direct color inputs from VTRs such as Sony's BVH-1100A and BVH-500 A.

The noise reduction system is designed to eliminate or minimize after-image and masking effects on low level moving images. Vertical and horizontal image enhancement are separately controlled in four programmed steps by front panel switches. The system can be remotely controlled.

## MEASURES GROUP DELAY IN TRANSMISSION SYSTEMS & LINES

**BUILT-IN SYNC AND BLANKING CIRCUIT**  
Measures Group Delay

**INTERNAL AND EXTERNAL MARKER**  
Has fixed internal marker as well as connector for external marker

**BUILT-IN SWEEP GENERATOR**  
Determines sweep measurement and CW (point by point delay of discrete frequencies)

**SWEEP SPEED IS ADJUSTABLE**

**LARGE CRT SCREEN**

**CW (Point by point delay)**

**EXTERNAL MARKER CONNECTOR**

**At last! The Envelope Delay Measuring Set You've Always Wanted—But Which Technology Couldn't Develop Until now!**

Our envelope Delay Measuring Instruments\* feature large CRT screens, built-in sweep generators and allow spot frequency delay measurements from 200 KHz to 10 MHz. Check out Models 763 NA and the new 201-1. Both are NTSC or PAL compatible. The 201-1 adds a built-in sync generator and blanking mixer.

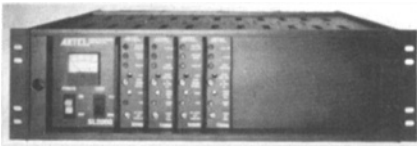
Don't you delay in getting full information. Write.

We create change

**ASACA**<sup>®</sup>

ASACA CORPORATION OF AMERICA  
1277 Rand Road, Des Plaines, Ill. 60016  
Phone (312) 298-4380

\*Product of SHIBASOKU—  
sister company of ASACA



A fiber optic transmission system said to have the capability of transmitting broadcast quality video and audio over more than three kilometers without the need for repeaters or equalizers has been announced by Artel Communications Corp., P.O. Box 100, West Side Station, Worcester, MA 01602. A modular 19-in rack-mounted system, designated the SL-2000, it has built-in LED overload protection and is equipped with self-monitoring, self-testing

and diagnostic features. Automatic video gain control is included to minimize the effect of program input level changes. AGC circuitry is switchable as are the dc-clamping and squelch circuits. Separate audio modulator/demodulator modules allow the simultaneous transmission of video and studio-grade audio over one fiber. Up to nine transmitter or receiver modules can be housed in one SL-2000 rack shelf in any combination. The SL-2000 can operate over any standard fiber optic cable.

A Time Code Generator, Model 716, has been announced by Datametrics Inc., 340 Fordham Rd., Wilmington, MA 01887.



Model 716 outputs time code in the SMPTE format with provisions for 25 frame EBU or 24 frame film standards. Model 716 incorporates sync inputs for composite video or composite sync plus a tach-pulse input for film rates. An internal crystal provides timing accuracy if sync is lost as well as a time base reference for non-synced audio applications. Model 716 has the capability of reconstructing poor quality code. Incorporating an internal code reader, this function regenerates new code in sync and properly timed replacing deteriorated code. Model 716 is priced at about \$1,980.

## Rycote Microphone Windshields

### MAY WE INTRODUCE OUR LATEST IMPROVEMENT

The windshield now slides on and off the suspension assembly without any fiddling with screws or lining up holes. We've cut a slot along the windshield. Hey presto — now you can remove or replace the windshield in seconds. A good improvement — no alteration in price — progress.



*Oh yes—it's beautifully made—as usual*

SENNHEISER  
AKG  
Etc

Rycote Microphone Windshields, New Mills, Slad Road, Stroud, Gloucestershire GL5 1RN, England. Tel 04536 79338



An ENG camera, Model HL-83, weighing less than 10 lb including the viewfinder, has been announced by Ikegami Electronics (USA), Inc., 37 Brook Ave., Maywood, NJ 07607. The camera can be connected to a standard ENG videotape recorder, to a remote studio control unit, or with triax cable to a remote field base station. A miniature VCR may be attached to the camera body to provide one-person ENG operation. The HL-83 uses a prism beam-splitter and 2/3-in Plumbicon or Saticon tubes.

A wide band video recorder capable of recording high definition television signals of up to 14 MHz has been introduced by Merlin Engineering Works, 1880 Embarcadero Rd., Palo Alto, CA 94303. The recorder is based on a standard Fernseh BCN-50 1-in type B VTR. It uses the standard scanner, standard heads and commercially available tape. The transport and servos are modified to run the scanner and tape at double speed. New signal system electronics are fitted and a bandwidth of 14 MHz at 45 dB signal-to-noise with a 5% response to a t/2 test pulse is achieved. Up to a full hour of recording can be provided with 12-in reels. Applications of the ME-248 include electronic cinematography, high resolution X-ray recording, wide band data recording and studio master recording. For applications that require transfer to disk or film, a reduced rate playback can be provided. The ME-248 is a single channel recorder, and it can be adapted to a wide range of standards for color recording.



### premium grade nickel-cadmium "On-Board" Frezzi Battery Packs & "Frezzi-Lites" for ENG/EFP systems

- Direct mount to factory bracket
- Full 4AH capacity • 1-hour re-charge
- Rugged aluminum case

For information call (201) 427-1160

**Frezzolini Electronics Inc.**  
7 Valley St. Hawthorne, N.J. 07506 USA • TWX: 710-988-4142

MADE  
IN  
U.S.A.

precision cine/optics  
A DIVISION OF CENTURY PRECISION INDUSTRIES, INC.

Century  
video  
**SERVICE  
FOR THE 80's**



Home Office: (213) 766-3715  
10661 BURBANK BOULEVARD NORTH HOLLYWOOD, CA 91601  
East Coast: (516) 931-6320  
17 WEST JOHN STREET HICKSVILLE, NEW YORK 11801

Century is the one to look for in the 80's for Video Lens service and sales. Skilled technicians are ready to draw on over 30 years of experience and the right equipment to service your ENG/EFP Video Lenses. All work has the assurance of the highest quality available. And mention this ad to get a free lens test chart.

# We just skipped a generation in animation.

Here's how. The AniVid System brings full color broadcast quality frame-at-a-time animation *direct to video tape*. No more film costs. No more film delays. You save countless, costly hours of production time, and retain the first generation quality you worked so hard to create.

Designed for the cost conscious, yet creative communications industry, the AniVid System is the answer for everyone from broadcasters who need quick, topical animation for news broadcasts, to animation studios and in-house corporate training departments who want to use this entertaining artform in their presentations.

Altogether, it's everything you would want in an animation system. The AniVid System consists of a microprocessor based VTR Controller, a three tube color camera, and a full featured animation stand.

The system accepts any kind of artwork from pencil tests, cel artwork, three dimensional subjects, animatics, pixillation, time-lapse, titling, still storage and filmograph to computer generated graphics.

For further information contact Animation

Video, Convergence Corporation,  
1641 McGaw, Irvine, CA, USA, 92714,  
(714)549-3146, TWX (910)595-2573.

**ANIMATION  
VIDEO**

A DIVISION OF CONVERGENCE CORPORATION

**AniVid...the way animation  
will be produced in the future.**

