

The 123rd SMPTE Conference and Equipment Exhibit October 25-30, 1981 Century Plaza Hotel, Los Angeles, California



The Century Plaza Hotel will once again be the site of SMPTE's Annual Technical Conference and Equipment Exhibit.

This 123rd SMPTE Conference promises to rank among SMPTE's best, with a papers program of high quality spanning a wide range of technical subjects which will be of interest to everyone in the film and television fields.

The Equipment Exhibit will be nothing short of spectacular, with every available booth — more than 330 of them — taken by most of the major companies in the film and video fields. Not only will this Conference be spotlighted by an excellent program and a spectacular exhibit, but the Society will provide a series of excellent social activities for SMPTE delegates when they are away from technical sessions or the exhibit. Among the social events planned are a Sunday Evening Party sponsored by Eastman Kodak, the Monday Awards Luncheon, the Friday Evening Banquet, a daily coffee club, and a full week's activities for spouses.

Program Chairman is Julian Hopkinson of Agfa-Gevaert, who has done a fantastic job of hammering out this top-notch program. The Local Arrangements Chairman, Howard LaZare of Consolidated Film Industries, has taken care of every detail to make certain that this will be the best SMPTE Conference ever. The SMPTE Conference is under the jurisdiction of SMPTE Conference Vice-President Charles A. Ahto of Tape-Film Industries. The program part of the Conference is under the supervision of SMPTE Editorial Vice-President Maurice French of Canadian Broadcasting Corporation.

Reduced Rate Advance Registration

Registration in advance is available at lower rates. To avoid waiting in line, and to save money, register in advance by mail. An advance registration form has been sent to all members and should be returned, with payment, to SMPTE Registration, 862 Scarsdale Ave., Scarsdale, NY 10583. Badges and tickets will be waiting for registrants at the conference registration desk. To receive the advance registration rate, your payment must be received by September 21, 1981.

Refunds

Refunds will be given on all requests received at SMPTE Headquarters by Friday, October 23. No refunds will be given after October 23.

Hotel and Motel Reservations

Accommodation reservations must be made on the hotel reservation form that has been sent to all members. Rooms at the Century Plaza Hotel are in limited supply, but arrangements have been made at nearby hotels and motels to accommodate those whose forms arrive too late to obtain rooms at the Century Plaza, or for those who prefer not to stay at the Century Plaza. It is strongly recommended that you send in your hotel reservation form early (with your

registration form). Room reservations must be received by September 25. Reservations received after that date will be subject to availability and the special rates will no longer be in effect. Rooms at the special conference rates are available to conference registrants only. Hotels with rooms available for SMPTE registrants are listed in the table. A \$95.00 first night room deposit must be submitted with the hotel reservation form to confirm your reservations (make check payable to SMPTE). If you prefer, you can use your credit card (Diner's Club or American Express) to guarantee your hotel reservations. (There is a 7½% tax on all rooms.)

Equipment Exhibit

This will be the largest exhibit in SMPTE Conference history, with more than 120 companies signed up to participate. All available space has been taken and the exhibit will occupy the entire conference area of the Century Plaza Hotel. The equivalent of 331 booths will be filled by a full range of the latest professional motion picture and television equipment. For details, see the Directory of Exhibitors and the floor plan following the program.

Awards and Honors Luncheon

The Awards and Honors Luncheon annually features the presentation of the SMPTE Awards and Honors in recognition of outstanding achievements in motion pictures, television, and service to the Society. The luncheon will be held at the Beverly Hilton Hotel on Monday, October 26. The Society will provide shuttle bus service to and from the Beverly Hilton via the Century Plaza Hotel.

SMPTE Banquet

This year the SMPTE Cocktail Party, Banquet, and Dance will be held on Friday evening, October 30, in the Los Angeles Ballroom of the Century Plaza Hotel. The evening promises to be an exciting one with cocktails, dinner, dancing, and entertainment to make this a memorable



Century Plaza Hotel.



123rd SMPTE Conference
Century Plaza Hotel, Los Angeles
October 25-30, 1981

CONFERENCE REGISTRATION FORM

Please print or type all information

Name _____
 Title _____
 Company _____
 Street _____
 City _____ State _____ Zip _____

Spouse's name if registering _____

This form will be accepted only if all information below is provided.

Check primary field of employment
 A Motion Pictures B Television C Other (specify) _____

Check the one job title or responsibility closest to yours.
 A Owner/Corporate Mgmt. F Purchasing/Procurement
 B Engineering Management G Educator/Student
 C Engineering/Technical H Research/Development
 D Production/Post Production I Consulting
 E Sales/Marketing J Other (specify) _____

Check the one company description closest to yours.
 A TV Station/Network F Equipment Mfg./Distrib./Dir.
 B Cable, CCTV Facility G Freelance/Self-Employed
 C Production House/Studio H Educational Institution
 D Post-Production Facility I Gov't/Military
 E Laboratory J Other (specify) _____

Are you an SMPTE Member? A Yes B No

- Advance registrations must be accompanied by check. Make check payable to SMPTE. Do not separate form.
- To obtain the reduced advance registration rate, advance registration must be received by SMPTE by September 25.
- Mail check with complete form to, SMPTE Registration, 862 Scarsdale Ave., Scarsdale, NY 10583

Quantity	Before Sept. 25	After Sept. 25
Member Weekly*	\$150.00	\$175.00
Nonmember Weekly*	175.00	200.00
Spouses Weekly*	45.00	60.00
Member Daily	50.00	65.00
(circle days, M T W T F)		
Nonmember Daily	75.00	90.00
(circle days, M T W T F)		
Student Nonmember	5.00	10.00
Awards Luncheon	23.00	33.00
Banquet	38.00	48.00

TOTAL AMOUNT ENCLOSED _____
 Payable in U.S. Funds. No refunds after Oct. 23.
 *Member, Nonmember and Spouses Weekly registration include the Awards Luncheon.
 Free registration for Student Members, Life Members and Life Fellows will be available at the Conference only.
 Members of BKSTS, FKTG, SPSE, SPIE and AES may register at the member rate.

event. Companies wishing to reserve tables at the Banquet should request the appropriate forms from Headquarters. Tables will be reserved on a first-come, first-serve basis. Cocktails before the Banquet are courtesy of Sony Corporation of America, and the table wines courtesy of Technicolor, Inc. The music and entertainment is being sponsored by Hazeltine Corporation.

Committee Meetings

SMPTE Engineering Committees will be meeting during the 123rd Conference. Committee members will be notified, by letter, of the dates and times of their meetings. Editorial

Registration Rates for the 123rd Conference and Equipment Exhibit

	Before Sept. 25	After Sept. 25
Member Weekly*	\$150.00	\$175.00
Non-member Weekly*	175.00	200.00
Spouses Weekly*	45.00	60.00
Member Daily	50.00	65.00
Non-member Daily	75.00	90.00
Student Nonmember	5.00	10.00
Awards Luncheon	23.00	33.00
Banquet	38.00	48.00

* Member, Non-member, and Spouses' Weekly registrations include the Awards Luncheon. Free registrations for Student Members, Life Members, and Life Fellows will be available at the Conference only.

Hotels with Available Accommodations

CENTURY PLAZA HOTEL

2025 Ave. of the Stars Los Angeles, CA 90067	Single	\$78	\$86	\$94
	Twin/Dbi.	93	101	109
	1-bd. corner suite		180	195
	2-bd. corner suite		250	265
	1-bd. Pent- house suite			290
	2-bd. Pent- house suite			370

RAMADA INN

1150 So. Beverly Drive Los Angeles, CA 90035	Single	\$64
	Double	76

BEVERLY HILLCREST HOTEL

Beverwil Drive at Pico Blvd. P.O. Box 3065 Beverly Hills, CA 90212	Single	\$65-74
	Double	74-86

BEVERLY WILSHIRE HOTEL

9500 Wilshire Blvd. Beverly Hills, CA 90212	Single	\$120
	Double	140

BEVERLY HILTON HOTEL

9876 Wilshire Blvd. Beverly Hills, CA 90210	Single	\$78-96
	Double	94-112

HOLIDAY INN — WESTWOOD

10740 Wilshire Blvd. Los Angeles, CA 90024	Single	\$57
	Double	67

BELAIR SANDS

11461 Sunset Blvd. Los Angeles, CA 90049	Single	\$75-90
	Double	85-100

WESTWOOD MARQUIS

930 Hilgard Avenue Los Angeles, CA 90024	Suites	
	Single and Double	\$120

activities during the Conference include a joint meeting of the Publications Advisory Committee and the Board of Editors.

Coffee Club

The Coffee Club for the 123rd Conference will be open Monday through Friday and will be sponsored by Fuji Photo Film U.S.A.

Association of Cinema and Video Laboratories (ACVL)

ACVL will meet at the Century Plaza on Friday and Saturday, October 23-24. On Friday, there will be a Board of Directors meeting, followed by a reception-dinner for Laboratory and Associate member principals.

On Saturday, the all-day meeting begins with a business meeting of Laboratory members at 8:30 a.m. The Laboratory Equipment and Techniques Forum starts at 9:30 a.m. and will conclude at 5 p.m., with a break at noon for lunch. Papers presented at the Forum will feature topics and equipment of interest to the motion picture and videotape laboratories and their customers.

The registration desk will open at 8 a.m., Saturday for ACVL members and non-members who did not register in advance. Registration fees at the meeting for ACVL members is \$25.00, and for non-members is \$35.00 each. SMPTE members are invited to register and attend the Forum.

Sponsored Social Events

Eastman Kodak will sponsor an evening of food and entertainment on Sunday, October 25. Magnasync/Moviola Corporation is sponsoring the refreshments for the Fellows Luncheon, and Magna-Tech Corporation is sponsoring the Fellows Luncheon for registered Fellows. At the Banquet, Technicolor is sponsoring the table wines, Sony Corporation of America the Pre-Banquet Cocktail Party, and Hazeltine Corporation the music and entertainment. The American Broadcasting Corporation is sponsoring the ABC Pages, JVC is sponsoring the Spouses' Program, and Fuji Photo Film Co. will sponsor the week-long Coffee Club.

Transportation to Hotel

The Century Plaza is approximately ten miles from the airport and may be reached by taxi or airport limosine.

Shuttle Bus Service

For those registrants that will be housed outside the Century Plaza, the Society is again providing shuttle bus service from the various hotels to the Century Plaza. Bus schedules will be available at the hotels.

Outside Activities

The Academy of Motion Picture Arts and Sciences will be holding two evening events at the Academy Theater. On Tuesday evening, a presentation entitled *Color, Wide-Screen, and Sound: A Popular History on Film* is planned and on Thursday evening, a program is planned on special effects. The Academy will be charging a slight fee for each of the two evenings.

Editing starts with CMX

If you think you can't grow from absolute simplicity to total performance look at the world standard for editing.

Editing starts with the CMX 340X because it performs exactly the same simple functions competitors' limited systems do. Two machine cuts editing, for instance, requires the same number of keystrokes. But for you that's only the beginning. The expandability of the 340X will not restrict its simplicity at any point in your growth.

restrict its expandability at any point in your growth.

Editing starts with CMX because every 340X system installation includes basic

training in operation and maintenance. CMX has the world's largest staff of editing system specialists to keep you going. These experts are available to install and train you on new features as they become available.

Editing never ends with CMX because our staff editors provide complete 340X training that never stops. This training is supported by advanced seminars, newsletters, an editors' advisory panel, plus worldwide experience in post-production that only the editors at CMX have.

Editing starts with CMX because it did. CMX built the first simple, practical, computer-assisted editing system

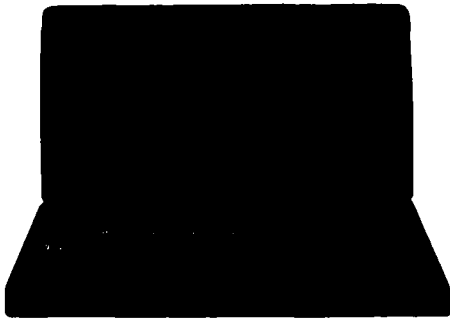
over ten years ago. Along with our original customers we

have continued to grow and to lead. While others have come and gone, CMX continues to be the world standard for editing. We have the ten-year track record to support you now and in the future.

Editing never ends with CMX because your initial investment is protected from absolute simplicity to total performance. Before you invest in post-production, look at the difference

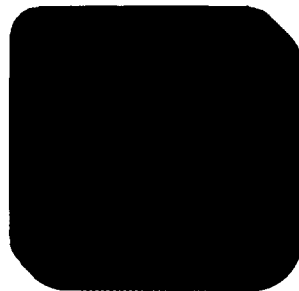
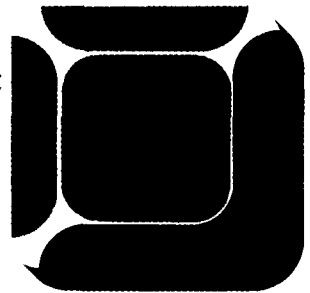
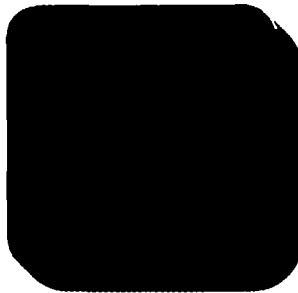
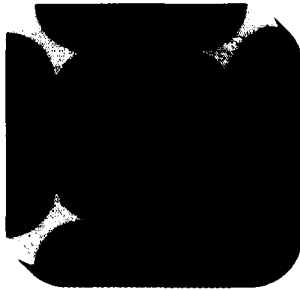
in total investment between competitors' limited systems and CMX.

The 340X has replaced many other systems; and every CMX user has stayed with us when he expanded his system. Editing never stops with CMX when editing starts with CMX.



CMX 340X keys are grouped conveniently, color coded, dedicated and easy to reach. That's one reason it's as easy to operate as most limited capacity editors.

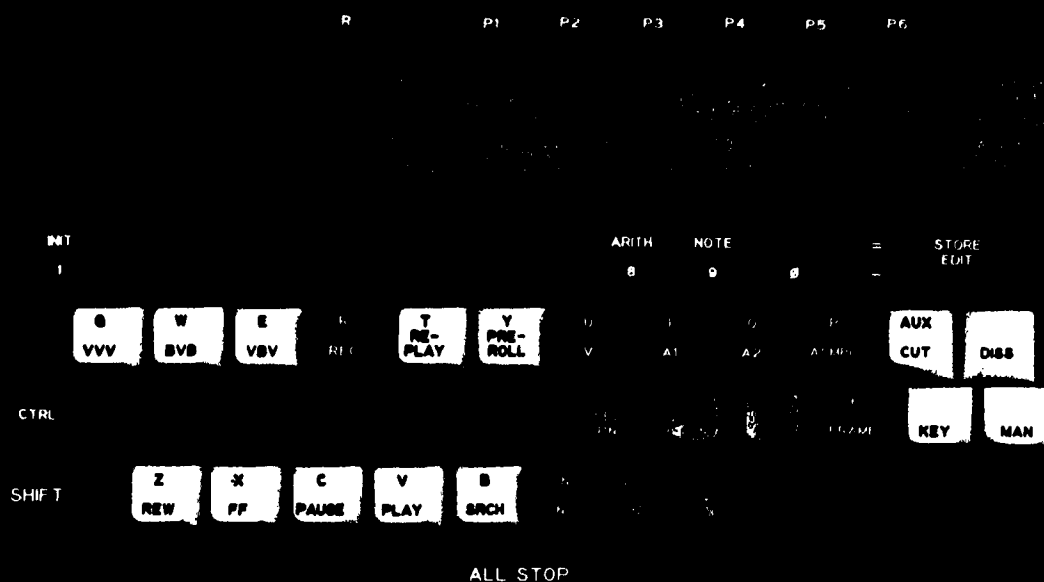
Editing never ends with CMX because the 340X is the most expandable and sophisticated editing system in the world. All the new techniques in post-production developed over its five-year history have been added to the earliest 340X systems. The simplicity of the 340X does not



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CMX
ORROX

"IN TWO YEARS, OUR HICCUPED ONCE OR TWICE.



"Our Sony BVE-5000 editing system is unbelievably reliable," says Randy Cohen, vice president and editor for Broadway Video.

"Amazing that Sony could come up with a state-of-the-art computerized system on its first try," Cohen continues. "And because it's specifically designed for one-inch, it lets me do more with my equipment than other editors."

Broadway Video is both a production and post-production facility in New York City. Its recent credits

include "The Best of Saturday Night Live," major political campaigns, promos for the cable network Showtime, and a variety of industrial shows.

"The BVE-5000 worked right out of the box and has been performing flawlessly ever since. With no problems of any kind. Unlike some other systems, whose manufacturers wait for customer complaints to get the bugs out, instead of thoroughly testing their equipment *before* it's sold.

"With its simplified keyboard, the BVE-5000 is

HUMAN EDITORS MAY HAVE BUT NOT OUR SONY."

Randy Cohen, Broadway Video



easier to use, too. It has saved me 25% to 50% of the time other systems require. And since you don't have to be mechanically oriented to use it, the editors can be artists rather than technicians.

"Other advantages include variable search. Dual audio. Vertical interval time code. And the ability to interface with a wide variety of switchers.

"I'll be buying more Sony equipment in the future. Because there are enough reasons for indigestion in this business without machines that hiccup and burp."

Sony makes a full line of 1" and 3/4" broadcast equipment, including cameras, recorders, editors and digital time base correctors.

For more information, write Sony Broadcast, 9 West 57th Street, New York, New York 10019. Or call us in New York/New Jersey at (201) 368-5085; in Chicago at (312) 792-3600; in Los Angeles at (213) 537-4300; or in Atlanta at (404) 451-7671.

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Broadcast

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The following papers were received as of July 15, 1981, more than three months before Conference time, but have not been officially accepted for the Conference Program. (A more comprehensive program will be published in the October JOURNAL and in the program booklet to be distributed at the Conference.)

Opening Session

The Conference will be officially opened by Joseph A. Flaherty, Executive Vice-President of the SMPTE.

This session will feature the Society's four Affairs Vice-Presidents for Education, Motion Pictures, Photonics, and Television, presenting their progress reports on their respective disciplines.

Lighting and Projection Practices

- The Tucson 35-mm Fisheye Projection Lens*
- Cycscreen: A New Approach to Cyclorama for Television Stages*
- The 3200 K Discharge Lamp Compatible with Existing HMI Equipment*
- "Ruggedized" Double Seal for DAYMAX™ Lamps and its Use in a 6000 Watt DAYMAX™ Lamp*
- Flicker-Free Ballast for Higher Wattage Daylight Sources*
- Recent Developments in Studio Lighting Suspension Systems*
- Xenon Short Arc Lamps for Protection — The State of the Art After 20 Years*

- Xenon Light Collection for Film Protection — The State of the Art After 20 Years*
- The Use of Single-Ended Discharge Lamps in Modified Tungsten Halogen Luminaires*

Laboratory Practices

- Eastman Ektachrome High Speed Daylight Film 7251*
- Persulfate Bleach for Process ECN-2.*

The International Scene

- Nordiska Film and Television Society*
- Overview of a Visit to Various Japanese Broadcast Facilities, Manufacturing Plants, and Research Laboratories*
- Russian Film Industry*
- The History of BKSTS*
- The Silent Revolution*
- State of the Art of Scandinavian Film*
- Graphics Generator ITN Television*
- Video Theaters/Video Projection*
- Dye Stability of Motion Picture Films (Sweden)*

Film Technology: Production and Post Production

- Film Storage and Shipment: Square Solutions to Rolling Problems*

**123rd SMPTE Conference
Century Plaza Hotel, Los Angeles
October 25-30, 1981**



FOR OFFICE USE ONLY

Hotel Reservation Form

Name _____
Last First Initial

Company _____

Address _____

City _____ State _____ Zip _____

Telephone No. _____

- Hotel rooms will be reserved for Conference registrants only.
- Hotel reservations must be made through the SMPTE on this form. Reservations must be received by September 25. Reservations received after that date will be subject to availability. The special rates will no longer be in effect.
- A \$95.00 first night deposit must be submitted with this form to confirm your reservation (make check payable to SMPTE). If you prefer, you can use your credit card to guarantee your hotel reservation.
 payment enclosed credit card (check which one)
 American Express Diners Club
 Card No. _____ Expiration Date _____

- Mail this form to:
**SMPTE Registration
 862 Scarsdale Ave.
 Scarsdale, NY 10583**
- Do not separate form. It should be mailed in the same envelope as the Conference Registration.

Please circle desired accommodations.

	Single	Double/Twin	1BR Suite	2BR Suite
Arrival Date _____	Arrival Time _____			
Departure Date _____	No. of Nights _____			

List below hotels desired

1st choice _____ Rate requested _____

2nd choice _____ Rate requested _____

3rd choice _____ Rate requested _____

Reservations must be received by September 25, 1981.



Ted Churchill on Steadicam: "The results are often unique and miraculous."

"Over the past twelve years—as director of photography as well as director and producer—I have encountered over and over again the persistent problems and limitations of handheld cinematography. It is this experience which precipitated my involvement with and investment in Steadicam," says Ted Churchill, the New York-based Steadicam owner/operator whose numerous credits include documentaries, TV commercials and theatrical features.

"An unthinkable prospect just a few short years ago, Steadicam is that inevitable mechanical/electronic extension of the human body which transcends its physical limitations.

"Instead of the traditional restricted shoulder-mounted camera point-of-view, Steadicam permits an infinite

variation in vertical attitude toward the subject, as well as the ability to assume spontaneously and immediately the point of view of *any* subject.

"Since Steadicam viewing is done on a video monitor, the operator has the added advantage of peripheral vision.



He can observe the action outside the shooting frame. He can safely and smoothly change position. He can walk, run, chase or precede the subject with logistical impunity.

"For the director of photography, in the transition from visual design to logistical execution, Steadicam virtually eliminates compromise: it makes the difficult easy, and the impossible possible.

"For the director, Steadicam becomes a powerful and versatile tool for artistic expression.

"For the producer, Steadicam is an invaluable economic resource: able to perform complex camera choreography with a minimum of set-up, rehearsal and strike time compared with conventional techniques.

"For example, one complex Steadicam sequence for MGM's feature

'Diner' consisted of covering an actor who's walking up a staircase, preceding him through hallways, following him through a crowded dance floor, stepping onto a speed-rail platform mounted on a dolly, and being raised above the dancers' heads to show the principals at the far corner of the room. All this in one smooth, continuous shot!

"Given Steadicam's potential for versatility, the actual results are often unique and miraculous. Exploring that potential has become one of the most exciting and artistically fulfilling challenges of my professional life."



Cinema Products' Oscar-winning Steadicam camera stabilizing system can be used, interchangeably, with most portable 35mm, 16mm and video cameras currently in professional use. For full details on our "state-of-the-art" lease/upgrade program on Steadicam/camera and accessories package deals specifically designed to meet your financial needs, please contact:



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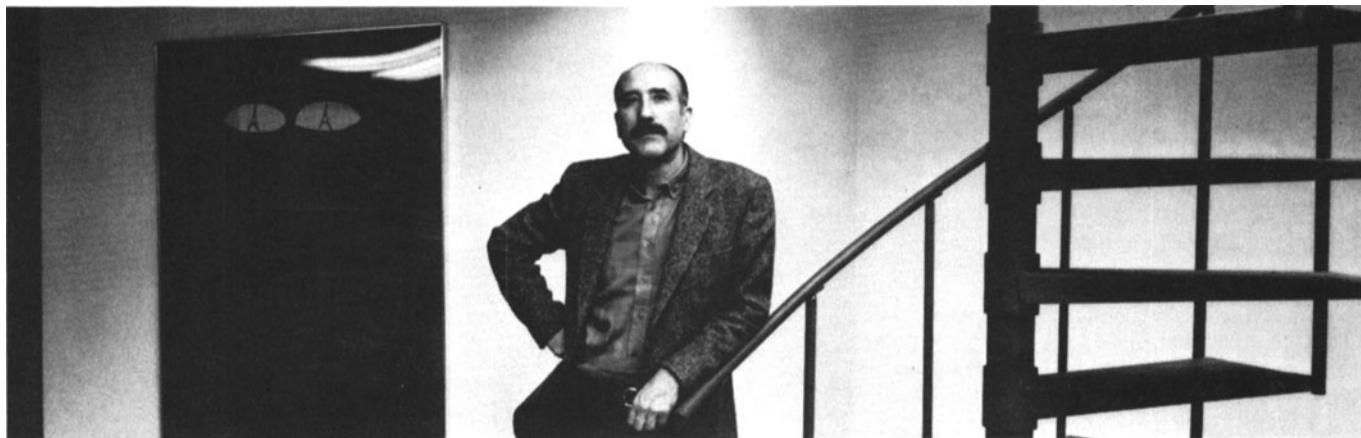
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"See Us In The Encino Room At The SMPTE Exhibit"



ALMENDROS



"One great moment is worth waiting for all day."

Spanish-born cinematographer Nestor Almendros has earned Academy Award nominations for the cinematography of three of his first four major American films — *Days of Heaven*, *Kramer vs Kramer*, and *The Blue Lagoon*—and in 1978 he won the Academy Award for *Days of Heaven*. He has been celebrated for his work with premiere French directors, including François Truffaut, Eric Rohmer, and Barbet Schroeder.

"My background is different from most cinematographers. I never apprenticed with a master, so I never directly copied a master's style or techniques. I just grabbed the camera and started shooting. I merely was infatuated with the avant-garde cinema I had seen—especially in the first films of the French New Wave: those by Jean Rouch and others. That kind of cinema verité, the handheld camera look, was what I was after: show things as they are, with no distortions.

"That is still my approach. I use a minimum of artificial lights. I light sets by my eye, and use the light meter only to set exposures later. Lighting should be logical, not arty. *Days of Heaven* was shot with very little light. Oh, we had lights, even big arcs. But most of the time we weren't using them. I felt I didn't need all those lights. What I wanted was bouncing light, natural light. Rather than create an artificial moment, I'd wait for the real one to happen. One great moment is worth waiting for all day.

"*Kramer vs Kramer*, on the other hand, is an imitation of natural light. It's mostly

done in the studio. I applied natural-light technique: imagining the sun, for instance, outside the Kramers' apartment. It was a realistic approach to an artificial situation. I would not have a back light if it were not justified by a window or light behind. And I refused catwalks and sets without ceilings. In reality, lights don't come from the angles of a room, they come from the center top, table or floor lamps, or the windows. An audience can intuit if lighting is artificial. They sense something is glossy or unbelievable. You can cheat more in black-and-white, but color film especially calls for reality.

"In most movies, including my current film, *Stab*, I have restricted myself to a color or two only. Black-and-white is like a tuxedo, always elegant. Color, if you're not careful with it, can be vulgar. *The Blue Lagoon* is different from any other film I have done. The subject matter called for the use of all colors. It was a challenge to use all the colors to try to produce a beautiful and elegant film. *The Blue Lagoon*, incidentally, was shot entirely on Kodak film and developed in Sydney. The scene where the girl is swimming at night and the boy sees her for the first time as a woman was the result of superimpositions. The Eastman color negative II film 5247 could really take it. *Days of Heaven* was also on the 5247 stock and developed in Vancouver. The prints were done in Hollywood.

"There has been relatively little change in cameras, but film technology has advanced rapidly, especially the possibilities of

pushing and increasing the speed of Kodak color film. I simply could not have shot *Days of Heaven* the way I did on early color stock. The great thing about film is, everything looks better than it is. Tape, on the other hand, is too real. There is no magic, no transposition.

"Cinematography is not an art in and of itself, it is part of an art. For an art to be an art, it has to be independent of anything.

"Since my childhood, I have always been a film buff. So I consider it a great privilege to have shot Charlie Chaplin's last film—a beautiful documentary, scenes with his wife and children. And I was lucky enough to do the last feature by Roberto Rossellini, in Paris, just two months before he died. And my parents didn't want me to be a filmmaker!"

If you would like to receive our monthly publication about filmmakers, Kodak Professional Forum, write Eastman Kodak Company, Dept. 640, 343 State Street, Rochester, N.Y. 14650.

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**America's
Storyteller**

Preliminary Program

Sunday, October 25

Registration, afternoon
Entertainment, evening

Monday, October 26

Opening Session, morning
Awards and Honors Luncheon, noon
Lighting and Projection Practices, afternoon
Laboratory Practices, afternoon

Tuesday, October 27

The International Scene, morning
Laboratory Practices, morning
Fellows' Luncheon, noon
Film Technology: Production and Post-Production, afternoon
Environmental, Safety, and Health Practices, afternoon

Wednesday, October 28

Laboratory Quality Control, morning
Sound, Academy Theatre, morning
Micro-Electronics in Motion Picture Use, afternoon
Sound, Academy Theatre, afternoon

Thursday, October 29

Advances in Television Camera Technology, morning
Digital Videotape Recording Technology, morning
Film/Tape Interface, afternoon
Advances in Television Camera Technology, afternoon

Friday, October 30

International Scene, Television, morning
Computer Graphics, morning
Digital Signal Processing and Transmissions, afternoon
Banquet, evening

*A Film and Procedure to Assess Dynamic Luminance
Reproduction of Film by Television*

*GSMO — A Unique Challenge in Electro-Mechanical
Design*

*The Mitchell Camera: The Machine and Its Makers
Motion Pictures from Another Angle*

*Considerations in the Illumination of Photographic
Darkrooms*

Environmental, Safety, and Health Practices

The Keys to Effective Safety Management

*The Main Design Aspects of YLe's New Film Laboratory
in Helsinki*

Analysis as Required: Why and What

*Conversion of Used R-9 (Bleach) to SR-4aR (Bleach
Replenished)*

Chemical Safety Assurance

Safety Committee Update

Algae Control in Photo Waters

Advances in Television Camera Technology

*A 13mm Saticon Television Camera Tube for Use in
Portable Television Cameras*

*The Development and Manufacturing Process of the
Unique Hitachi Tri-Electrode Saticon Broadcast
Camera Tube*

The Hawkeye Camera

The Hawkeye Recorder

*Standardization of the Television Raster for Non-
Broadcast Applications*

HK-322 Color Camera System

CCD Color Camera Prospects

The LDK-26 Advanced Color Camera

Betacam — A VTR in Camera

*The Use and Implications of Vidicon and Imaging Devices
on Space Probes by NASA in the Exploration of Outer
Space*

Electronics for Motion Picture Use

*Microcomputers in the Film Laboratory (How Film Pro-
cessing Laboratories Take Advantage of the Third In-
dustrial Revolution)*

*Application of Standard Micro-Computers in Negative
Preparation*

Digital Video Television Recording Technology

*Considerations for the Choice of a Digital VTR Format
Digital Video Recording — Composite Versus Component
Encoding*

*Automatic Set-up System for the BCC-20 Using Digital
Video Techniques*

*Editing Digital Audio Signals in a Digital Audio-Video
System*

Laboratory Quality Control

Printer Control

*A Commercial Service for Low Temperature Color Film
Storage*

*The Cost-Effective Approach to the Long Term Preser-
vation of Color Motion Pictures*

*Quality Control in an Australian Laboratory: Some Steps
Towards a Computer-aided Sensitometric Control
System*

*Quality Control of Processing and Printing Using a Low-
Cost Computer*

Quality Control in Photographic Sound Tracks

BARCO's new series Master Control Monitors: tailored to your needs

CTVM 3 Colour monitors.

In order to satisfy the variety of monitor applications the CTVM 3 series allows you to choose your colour monitor corresponding exactly to your specific wishes regarding screen size, CRT type, resolution, special facilities, decoders and mechanical construction.

- Screen sizes: 37 cm (15") or 51 cm (20") screen.
- Cathode ray tubes: delta gun shadow mask CRT or slot mask CRT.
- Resolution (for delta gun): Standard, semi high or high resolution.
- Versions:

The A version incorporates special facilities such as pulse cross mode, notch filter, split screen, RGB switches, RGBS output, R-Y and B-Y output.

B version: without special facilities.

- Decoders: with an optional set of decoder printed circuit boards plugged in, the CTVM 3 accepts composite NTSC; PAL or SECAM signals (Comb-filter or aperture correction optional on NTSC version).

- Mechanical construction: conversion from cabinet to rack, VTR bridge, in-wall or ceiling mounting is easily accomplished without dismantling the monitor through the optional special mounting kit.

TVM 3 monochrome monitors.

The BARCO professional monochrome monitors are measuring instruments for use in broadcasting, industrial and educational applications where quality and reliability are most required.

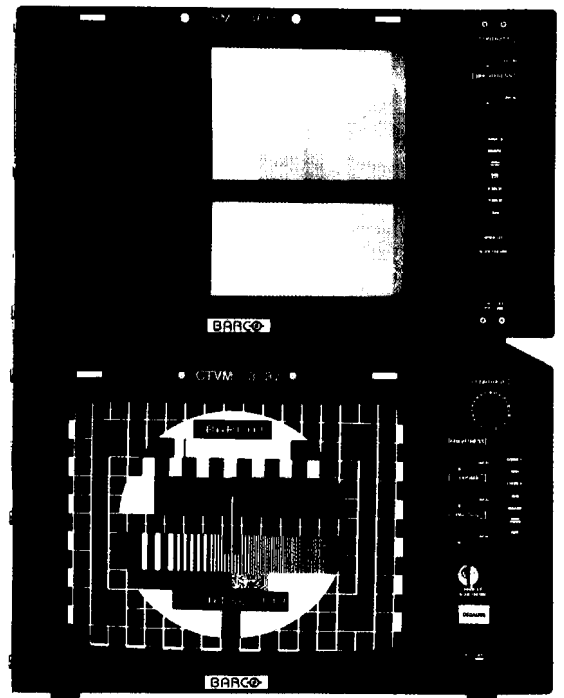
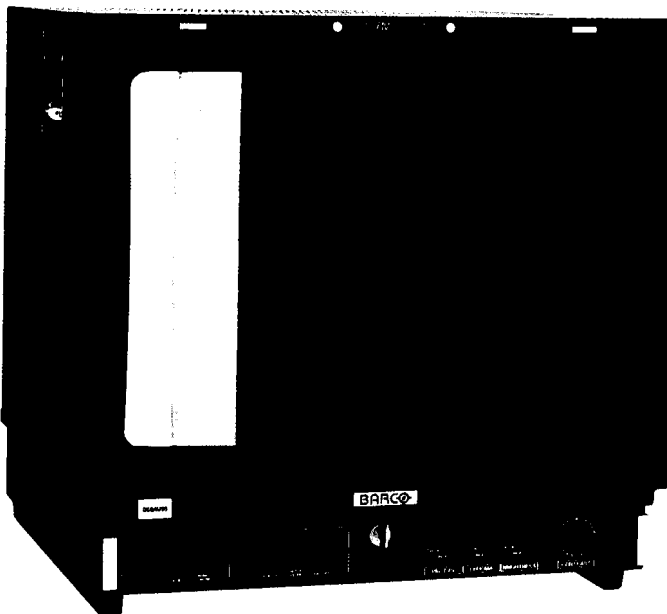
Facilities to be essential including colour subcarrier filter, pulse cross, size switch, remote control, internal/external sync. offer broadcast-oriented operating features and controls.

As regards to the CRT a choice is offered between WA (6500°K illuminant D) and W (9.300°K) phosphors. Screen size and mechanical construction can be chosen as with the colour monitors.

ROHDE & SCHWARZ SALES CO. (U.S.A.) INC.

14, Gloria Lane, Fairfield, NJ 07006
Phone: (201) 575-0750
Telex: 133310

Sole representative for Barco Professional Video Systems Dep. in the United States.

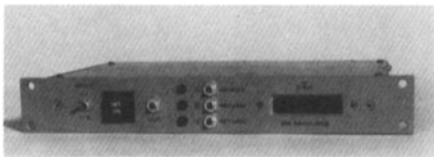


BARCO

"See Us At SMPTE Show, Booths 643 & 644"

The Film Motion From Multi-Track

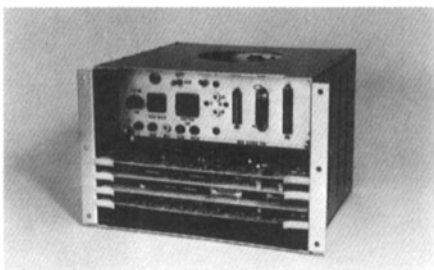
All the components we developed for our own High Speed DC Servo Drive are available in kit form to update any existing film motion mechanism. In other words, no matter what kind of equipment you use, Multi-Track Magnetics, Inc. can provide the equipment and technical support to upgrade your existing system. Our basic drive system is used with your existing reel torque motors for speeds up to 2X sync. And the addition of the #2400 Reel Servo Power Amplifier system provides constant tension, smooth film handling and enables the system to run at 12X 16mm and 6X 35mm sync speeds.



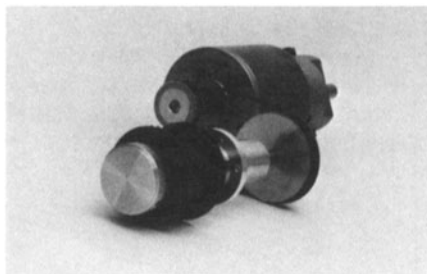
#5500-205 Interlock Panel



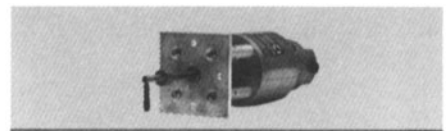
#5500 Motion Control



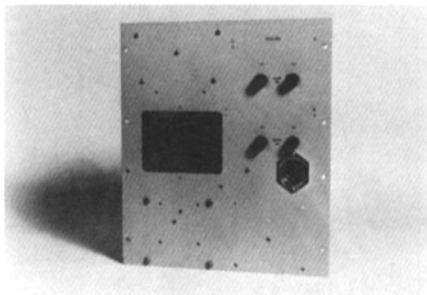
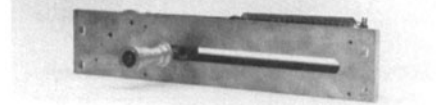
#5500 DC Servo Motor Drive has all electronics on removable cards



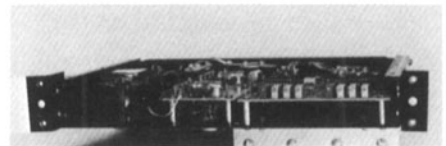
Sprocket/Drive Assembly moves film with total precision



Upper Torque Motor Assembly and Servo Tension Arm



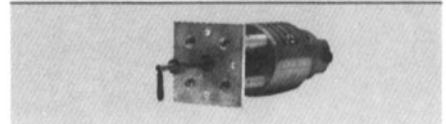
The #5523-100 DC Power Supply provides all power needs from basic system to complete system.



#2400 Reel Servo Power Amplifier



Torque Motor Controls



Lower Servo Tension Arm and Torque Motor Assembly

For additional information send coupon.



MULTI-TRACK MAGNETICS, INC.

3 Industrial Avenue,
Upper Saddle River, N.J. 07458
(201) 327-9400 Telex: 64-2718 MTM USA UPSR

Name _____

Company _____

City _____ State _____

Zip _____ Phone _____

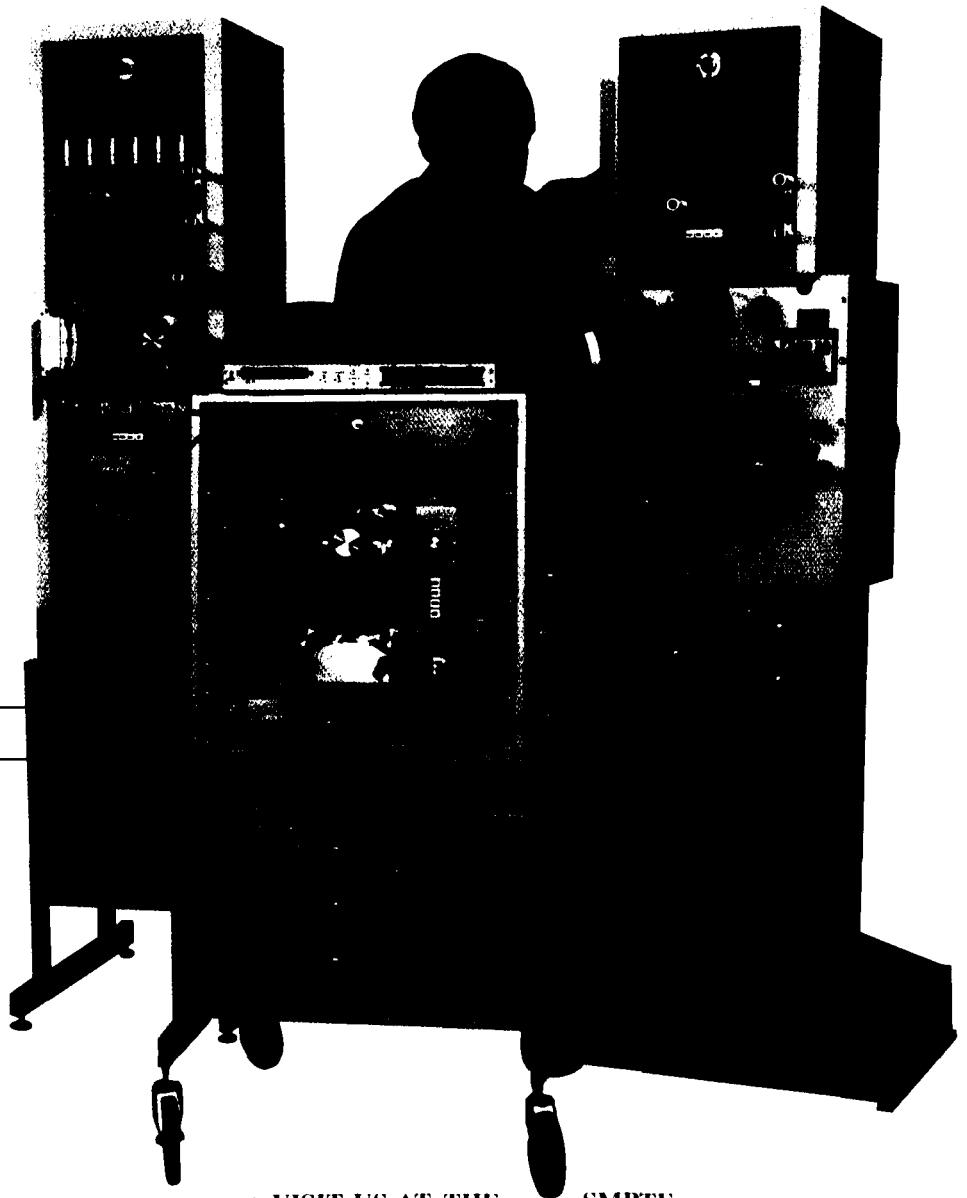
Ultimate Mechanism: Magnetics

"We created Multi-Track Magnetics' complete line of High Speed DC Servo Drive Recorders, Reproducers and Projection Systems with one objective in mind - to provide the film maker with State-of-the-Art technology, flexibility and rock solid reliability. Our High Speed DC Servo Drive is recognized as being the finest film motion mechanism in the industry. In addition, our systems are capable of being updated, so that the equipment you buy today won't be out of date tomorrow."

*Stephen Talian
President*

FEATURES:

- **HIGH FILM SPEEDS:**
12X - 16mm; 6X - 35mm
- **VTR INTERLOCK:**
Can interlock with VTR's,
ATR's Telecine Projectors, etc.
- **SERVO CONTROLLED REELS:**
Provides constant tension
and smooth film handling
- **FILM LIFTERS:**
Save head wear, lifters engage
above 30 fps - Forward or Reverse
- **FLYWHEEL ACCELERATOR:**
Flywheels engage in forward sync only.
Allows rapid acceleration & deceleration
- **HEAD ASSEMBLIES:**
Interchange without realignment
- **DAVIS LOOP:**
Provides the most stable film speed and is quickly
'Tunable' to each film stock
- **ALL FUNCTIONS ARE COMPLETELY REMOTABLE**
- **AVAILABLE AS A RETROFIT KIT**
- **CONVERTS FROM 16mm TO 35mm IN SECONDS**



- **VISIT US AT THE SMPTE
EXHIBIT BOOTHS - 466- 467-468-469**

**MULTI-TRACK
MAGNETICS, INC.**

3 Industrial Avenue,
Upper Saddle River, N.J. 07458
(201) 327-9400 Telex: 64-2718 MTM USA UPSR

Sound

The Optimization of Video and Audio Tape Transport Control
A Modern "Environmental," Stereophonic, Multi-Channel Re-Recording Studio
The Academy Curve from a Psycho-Acoustic Perspective
A Review of Requirements for Motion Picture Sound Systems
Mementos of Early Photographic Sound Recording
Sound Transmission Through Perforated Screens
The Subjectively Perceived Frequency Response in Small and Large Rooms
A New System for Producing Highest Quality Sound Tape-to-Film Transfers

Film/Tape Interface

Data Encoding for Video Assisted Film Editing
A Video Assisted Film Editing System
New Thresholds: The Electronic Optical House, and Its Application to Film and Television Post Production
An Efficient Off-line Videotape System for Film Post Production

Swedish T.V. Centre: Film-to-Tape Transfer Technology
Cinetronics: Problems in Editing Tape for Film
The 19th Hole Framer for the VO 2850 A
An Automatic Insert Edit Cut Out Design for the Sony RM 430 Automatic Editing Controller

Computer Graphics

Graphics V: A New Approach to the Electronic Generation of Quality Graphics for Television

Digital Signal Processing

Programmable Test Bed for Composite Television
Composite Television Coding at 45 Mbits/sec
Systems Aspects of Digital Transmission of Television Signals
A Flexible Approach to Digital Special Effects and Still Storage Using a Bi-directional Video Data Bus
A New Approach to Component Digital Processing Equipment
The All-Digital Studio
Transition from Analog to Digital

Directory of Exhibitors



AATON Cameras, Inc.

1697 Broadway, New York, NY 10019

Exhibiting: 16mm camera, 35mm camera and accessories.

Personnel: Carolyn Brooks, Etienne Ourry, Jean-Pierre Beauviala, Thora Van Male.

Booth 214

1 mil 2-in. high output, low noise, low print mastering tape. Ideal for SMPTE lock-up, PEM 468 1.5 mil high output, low noise, low print mastering tape.

Personnel: Maria Curry, Dave Rubenstein, Ken Wiedeman.

Booths 525, 526, 527, 528, 529

Adda Corp.

1671 Dell Ave., Campbell, CA 95008

Exhibiting: Video image compressor, electronic still processor — digital storage and retrieval system, time base correctors and frame synchronizers.

Personnel: William Borman, Jesse Blount, Bill Hendershot, Dick Strauss, Ed Bolger, Chuck Aronson, Duane Tuttle, Mike Gendron, Sheila Holmes, Ed Sommerville, Frank Alioto, Joe Hering, Marty Frang.



The Allen Products Co.

180 Wampus Lane, Milford, CT 06460

Exhibiting: Several components used in Allen's motion picture processors including pumps, Allen tires, and Allen rollers. Also shown will be examples of Allen's sheet metal craftsmanship.

Personnel: Ron Bailor, Bob Stiles, Bill Bloomingdale, Terry Peterson.



American Data Corp. (see Central Dynamics Corp. listing)

Booth 435



Agfa-Gevaert, Inc.

275 North St., Teterboro, NJ 07608

Exhibiting: PEV 297 1-in Helical videotape for SMPTE type B system, PEV 297 3/4-in. U-matic broadcast videotape, PEM 428

Booths 215, 216



Amperex Electronic Corp.

Providence Pike, Slatersville, RI 02876

Exhibiting: Plumbicon® image tubes for color cameras. Special

Booth 540

FROM EAST TO WEST



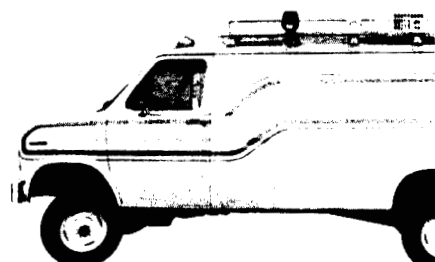
The Compact 19...Priced to keep the competition under pressure from coast to coast.

Our custom engineered and quality built 19-foot EFP mobile unit is so reasonably priced, it has the competition on edge.

They know our reputation for building location vehicles that last. But, never before has the price been so attractive.

The Compact 19 offers three camera, two VTR capacity, plus production capability you just won't find anywhere else.

Wrestle your production budget to the ground. Call us today for more details about this exceptional performer.



Compact Video Sales

LOS ANGELES: (213) 843-3232 / NEW YORK: (212) 265-6203 / DALLAS: (214) 783-0044 / CHICAGO: (312) 369-0714
WEST COAST HEADQUARTERS: 1104 WEST CHESTNUT STREET, BURBANK, CALIFORNIA 91506 TELE: 19-4855 TWX: 910-498-4987

AATON

Does a 16 mm camera need to be quiet, comfortable to hold, and provide ultraluminous and sharp viewing? Should it be reliable and easy to maintain?

The Aäton 7 LTR is all of these, yet that was not enough for Richard Leacock of the M.I.T. : the only thing he was willing to switch for was **better pictures.**

The prime objective in the design of the Aäton was just that : better pictures. A camera that would give image quality superior to that of other 16 mm cameras. The requirements were clear : 35 mm blow-up on the one hand, and high definition TV distribution* on the other.

Massachusetts
Institute of
Technology **FILM/VIDEO SECTION**
77 Massachusetts Avenue, Cambridge, Massachusetts 02139
Telephone (617) 253 1606

February 27, 1981

Jean Pierre Beauviala

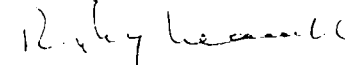
Dear Jean Pierre:

About a year ago my son Robert bought an Aaton camera, and I told him that I thought it foolish to spend so much money on a camera that "doesn't make better pictures than any other camera . . ."

Recently, I had the misfortune to film with two cameras--the other cameraman was Jeff Kreines with his Aaton. A week later, I worked with my son Robert with his Aaton. Two weeks later I saw our rushes. The next day I bought my Aaton, to which I am now fervently married.

This is my confession, and my thanks.

Sincerely,


Richard Leacock
Professor

RL/dlb

The pioneers of «**cinema direct**», as it has come to be known, are a small group of very demanding cameramen-directors — **Michel Brault, Albert Maysles, Jean Rouch and Richard Leacock** —

*High-fidelity TV is coming fast : NHK recently demonstrated the complete system at the 15th SMPTE TV Conference in San Francisco : 1125 lines, 25 MHz bandwidth, and 1:1.66 aspect ratio (the same as Super 16!)

who have, some of them, been making films for more than thirty years. Today they are investing in **high definition 16 mm** with the Aäton, to ensure the future «readability» and exploitation potential of their works. As if, right from the start, they had seen the writing on the wall : future high definition video channels would require exceedingly «clean» originals, such as only film can provide at the present time.



Richard Leacock in Paris.

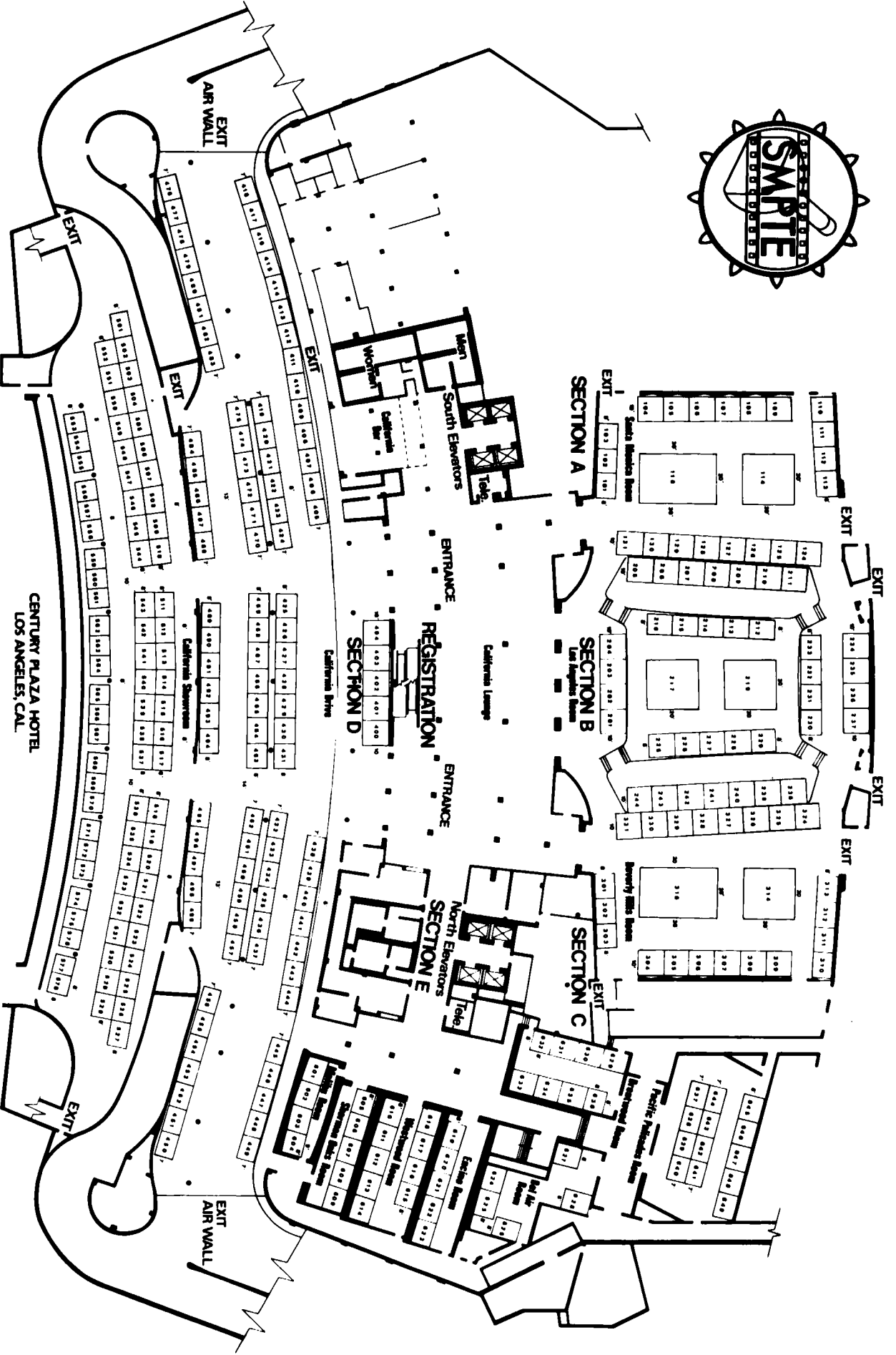
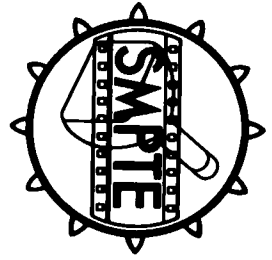
Michel Brault, of National Film Board fame, bought his first Aäton 7 LTR in January 1980. Albert Maysles was one of the first trail-blazers in cinema direct to manifest his interest in the Aäton : mid-1980, he got his own. Jean Rouch now uses the Aäton 7 LTR for all his anthropological work. And Richard Leacock has come around, as shown in his letter reproduced opposite.

The crux of the matter is better pictures.




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

AATON



SOCIETY OF MOTION PICTURE & TELEVISION ENGINEERS

CENTURY PLAZA HOTEL
LOS ANGELES, CAL.



For the second year in a row, Scotch* 479 won the award for the best picture of the year in a test of one-inch video tapes.

We scored well in all of the twelve categories tested, but especially well in the categories that commonly represent picture quality: color dropouts, high frequency dropouts, chroma noise, signal-to-noise ratio and stop motion.

These were scientific, quantitative tests, conducted as you would conduct them yourself, with no room for brand bias. The meters didn't play favorites. The standards were the same for every brand tested. And we tested every brand.

These kinds of test results don't surprise us. We pioneered the invention of video tape. And we've been setting the standard for quality ever since.

Our quality has always been consistent from the first replay to the

last. In fact, our sophisticated binder and oxide coating are more advanced than the binders and oxides on some quad tapes. They had to be advanced to meet the special durability demands of one-inch video production.

So choose Scotch 479 for your one-inch video production. You'll find it looks good from repeated mastering all the way through post production. And we've seen the test results to prove it.



3M



When you buy Panasonic broadcast equipment you're buying award-winning technology.

Panasonic was awarded a 1979-1980 Engineering Achievement Emmy for the introduction of digital techniques in video special effects production.



When one network executive first saw the special effects produced by the Panasonic AV-7000 video squeezer, he couldn't believe his eyes. But then he'd never seen a special effects generator that combines digital techniques with microprocessor technology. The members of the National Academy of Television Arts and Sciences were equally impressed. So impressed, they presented Panasonic with an Emmy.

The same innovative engineering that created the AV-7000 is available in a new line of Panasonic broadcast equipment.

Take the Panasonic 700 B-2 time-code editing system. The AU-700 editing recorder, the AU-A70 programmable editing controller and the AU-J10 multiple source adapter. Together they add speed and accuracy to $\frac{3}{4}$ " time-code editing by letting you do what other systems don't: Per-

form up to 20 automatic insert and assembly edits from multiple sources. How did we do it? By combining microprocessor technology with the precision of direct drive.

Another way Panasonic says innovation is with the AK-760 ENG/EFP camera. With its three diode-gun Plumbicon® tubes and built-in bias light, it offers incredibly high resolution (600 lines center) and extremely low lag. And with its feed-



back beam control, the AK-760 has the necessary beam current to stabilize scene highlights to the point where comet tailing is greatly reduced.

The Panasonic AK-750B also gives you three-tube Plumbicon performance along with a lot of extras that don't cost extra. Like two-line vertical enhancement, a \$2,000* option last year. Plus genlock, rechargeable battery with charger, microphone, and

VTR cable. All for \$16,000*

When it comes to electronic news-gathering, the AK-710 offers broadcast quality at a good news price of \$10,950*. By adding three Saticon* tubes to a high-index prism optical system, the AK-710 achieves horizontal resolution of 500 lines center and a S/N ratio of 52dB.

Panasonic also says innovation with the AS-6100 special effects generator, the AS-2000

chroma key generator and the AS-1000 color sync generator. And, of course, you can look forward to even more Panasonic broadcast equipment in the future. But take a good look at Panasonic broadcast equipment now. After all, you never know: Maybe the same innovative engineering that won us an Emmy can help you win one.

To audition the complete line of Panasonic broad-

cast equipment, call your nearest Panasonic office for dealer locations.

Northeast—(201) 348-7620
Southeast—(404) 923-9700
Midwest—(312) 364-7936
Southwest—(214) 258-6400
West Coast—(213) 655-1111

Plumbicon is a registered trademark of N.V. Philips for TV camera tubes. Saticon is a registered trademark of NHK (Japan Broadcasting Corp.)

*Manufacturer's suggested price (Lenses not included)

Panasonic
VIDEO SYSTEMS DIVISION

emphasis on 80XQ 1/2-in. Plumbicon® for next generation camera/recorder system.

Personnel: John Burrell, Ted Marchner, Gregory Murphy.



**Booths 212, 213, 219,
228, 229**

Ampex Corp.

401 Broadway, Redwood City, CA 94063

Exhibiting: Videotape recorders, studio and portable broadcast cameras, editing systems, digital optics system (ADO), Ampex video art (AVA) system, production switchers, magnetic tape products.

Personnel: R. Sirinsky, T. Nielson, R. Ide, D. Carlsen, J. Leveck, M. Wachtel, D. Clayton, D. Carroll, R. Williams.



Booth 450

Angenieux Corp. of America

120 Derry Rd., Hudson, NH 03051

Exhibiting: The state-of-the-art 16mm cine zoom, the new 12X, 10-120mm, T2 will be displayed, as well as the latest in both cine and video optics. The ultra quality 12X10 will be shown for the first time in the U.S.

Personnel: Gordon Kane, Bern Levy, Bill Turner.



Booths 326, 327

Animation Video (Division of Convergence Corp.)

1315-B E. St. Andrews Pl., Santa Ana, CA 92705

Exhibiting: The AniVid system for recording frame-at-a-time animation directly onto videotape. The system consists of a VTR controller and a full-featured animation stand with a three-tube color camera. The system will animate manually or with computer-generated artwork.

Personnel: Carl Schultz, Steve Price, Frank Hofmeister.



Booth 578

Anton/Bauer, Inc.

66 Center St., Shelton, CT 06484

Exhibiting: Anton/Bauer offers a number of new video power products including: a new universal ac input slow charger, a new universal ac input fast charger and a car fast charger. A new line of battery operated portable lighting heads for use in all ENG/EFP applications along with mounting brackets to fit all major cameras. A full compliment of battery systems for all portable power requirements.

Personnel: George Bauer, Anton Wilson, Joseph Lantowski, John Corrigan.



**Booths 610, 611, 612, 613,
614, 615, 616, 617, 618**

Arriflex Corp.

500 Route 303, Blauvelt, NY 10913

Exhibiting: Full line of Arriflex professional motion-picture equipment, including the new System-3 35mm cameras -- the Arriflex 35BL-3 and 35-3; the new Arriflex 16SR-2 16mm studio

quiet production camera; new Zeiss 10-100mm T/2 super speed zoom lens; Arri daylight HMI lights; Sachtler fluid head tripods; complete range of accessories including new lightweight follow-focus system, servo zoom drive for 16mm, aspheron wide angles lens attachment.

Personnel: Volker Bahnmann, Richard Schreiber, Abbott Sydney, Jurgen Schwinger.



Booth 550

Arvin/Echo

485 E. Middlefield Rd., Mountain View, CA 94043

Exhibiting: Image Maker, discassette recorder for animation, random access, etc. EFS-1A still-store recorder.

Personnel: Vince Kasprzak, George Elsaesser, Jim Crouch, Carl James, Roy Smith, Laurie Audino, Paul Inesco.

Booths 541, 542, 543

ASACA/Shibasoku Corp. of America

1277 Rand Rd., Des Plaines, IL 60016

Exhibiting: For video signal test equipment: video test signal generator, color monitor, portable video switcher, video noise meter, digital video memory, video sweep generator, video signal analyzer, color bar signal generator, white balance checker, envelope delay measuring set, TV channel signal generator, videodisc simulator.

Personnel: T. Shigezaki, K. Ezoe, H. Nishimura, C. Miller, C. Barlow, K. Barlow, Len Dozier.



Booths 445, 446, 447

Belden Communications, Inc.

534 West 25th St., New York, NY 10001

Exhibiting: Lee Filters non-photographic flame resistant color-media and diffusion lines, along with Lee's new resin camera filter line. Also being shown will be the new Lee HMI line of lighting fixtures and JDC's camera blimp.

Personnel: Michael Sheppard, Paula Boxer, Rita Miller, Damian Vaudo, David Holmes, Ralph Young, John Lee, Benny Lee, Bob Jeffs.



Booths 420, 421

Bell & Howell

7100 McCormick Rd., Chicago, IL 60645

Exhibiting: Modular continuous contact motion picture printers and accessories.

Personnel: John Ehrenberg, Jack Lang, Dave Jones, Fabian Pinto, Bruce Rady, Marshall Ruehrdanz, Malcom Darbyshire, Fred Gonzalez.



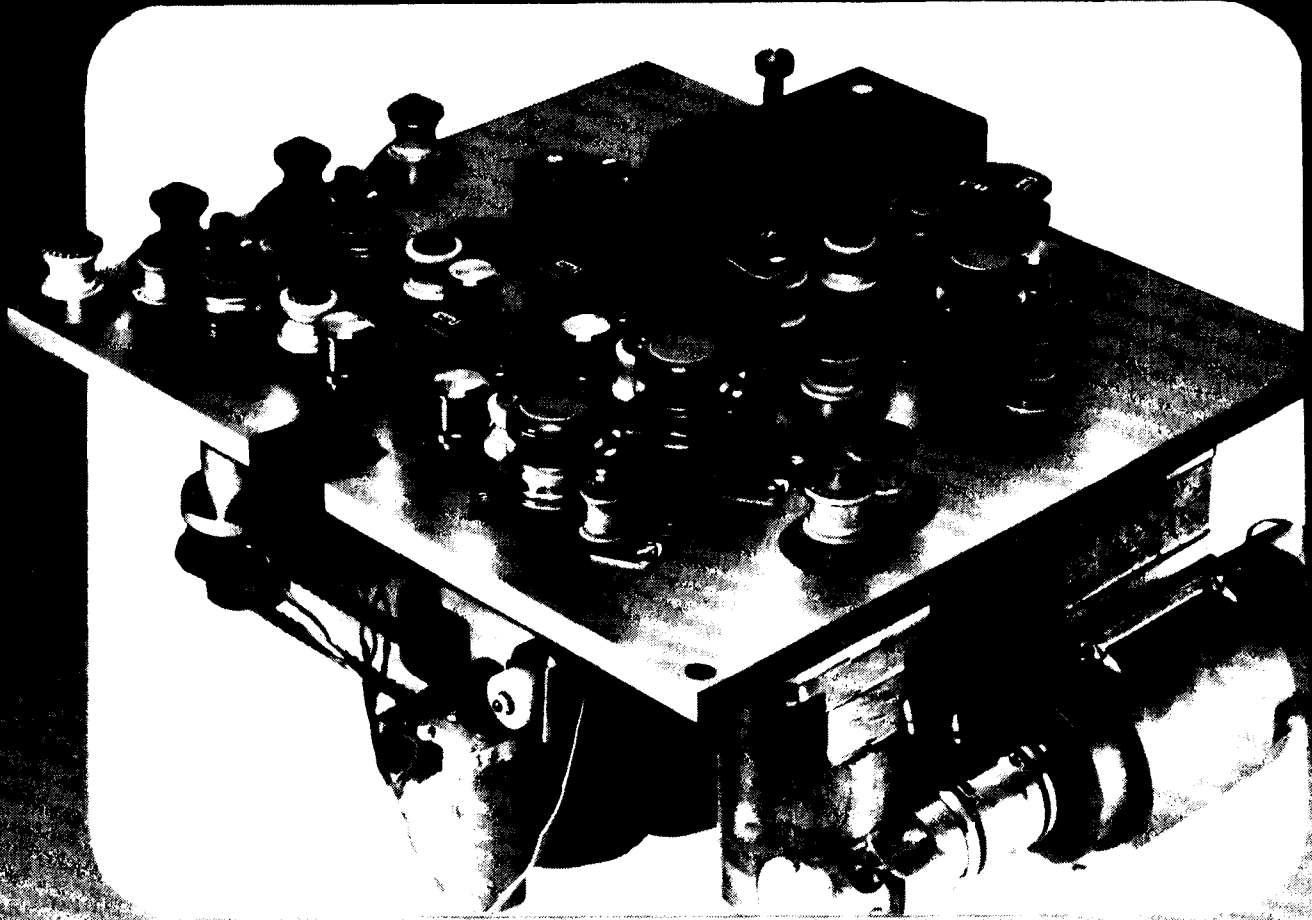
Booths 324, 325

Berkey Colortran, Inc.

1015 Chestnut St., Burbank, CA 91502

Exhibiting: Lighting fixtures, dimmers for studio and location use, manual and memory lighting controls (studio and portable), location lighting kits.

THE HEART



QUALITY is not an accident. Years of experience, superior concepts, modern manufacturing procedures and an experienced team are the basics for **STEENBECK** quality.

Details:

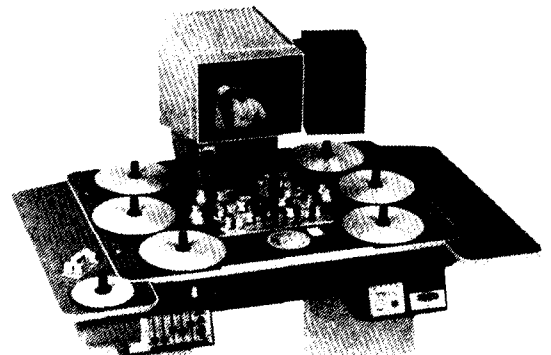
- **TRANSPORT PLATE** precision machined, 16mm thick, assures vibration free operation and precise alignment of components. Anodized for easy cleaning and lasting beauty.
- **PICTURE SCANNING** through 18 sided polygon Prism affords bright and steady picture even under adverse light conditions.
- **THREADING** is simple and scratch free due to strategically placed film guides and rollers. Sync points are provided both right and left on most tables.
- **FILM ROLLERS** of large diameter, and made of stainless steel or polyamide plastic, provide a smooth safe film flow.
- **MAINTENANCE FREE** (Sintered, Oil impregnated) bearings and high precision, sealed, roller bearings guarantee smooth running and long life.
- **FLYWHEELS** combined with air damped tension rollers assure low wow and flutter content.



Steenbeck Inc.

(213) 998-4033 • Telex: 19-4293
9045 Eton Avenue, Suite A
Canoga Park, California 91304

"See Us At Booths 410-414 SMPTE Show"



Personnel: Kenneth Boyda, Tom Pincu, Marion M. Rimmer, Paul Friedman, Jeff Sessler, Franc Dutton, Charlic Hurth, John Ahrens, Chris Martin, Chuck Cambruzzi, Steve McClenaghan, Jay Cywan, Ira McNabb, Ken Vannice, Tom Young, Christel Find.



Booths 506, 507

Birns & Sawyer, Inc.

1026 N. Highland Ave., Los Angeles, CA 90038

Exhibiting: Manufactures and distributes a complete line of accessories for professional motion picture equipment. It is also a competitive source for such major equipment lines as Arriflex, Lowel, Colortran and Ediquip. Products Birns & Sawyer is showing are tripods (regular and claw-ball top castings), director's finders (16-mm and 35-mm), stopwatches, slates, take-one wall clocks, tripod dollies, hi hats, changing bags, technical books. Introducing a line of quartz soft-lights.

Personnel: Marvin Stern, Bill Sutphin, Audrey Stern, Pete Anway.

Booths 603, 604

Bogen Photo Corp.

100 S. Van Brunt St., Englewood, NJ 07631

Exhibiting: Two new fluid heads, two cine tripods, a three-section wind-up stand, a super boom, a full line of lightweight tripods, the B & W filter line, and a wide selection of light stands, super clamps, skyhooks and accessories.

Personnel: Kriss Brunngraber, Bruce Landau, Harry Bender, Ron Bender.

Booth 577

Bolex (USA) Inc.

225 Community Dr., Great Neck, NY 11020

Exhibiting: Bolex 16mm cameras, projectors, lenses, motor drives, tripods and accessories.

Personnel: Fred Onderka, Joe Vasata, Norbert Niessler.

Booth 645

Brumac Industries

5261 Business Dr., Huntington Beach, CA 92649

Exhibiting: Densitometers including models MP-8 and the Brumicro MPST, a microprocessor-enhanced model for reading positive and negative color stock and sound track. Also featured is the new "Auto Lab System," a computer-based system that provides automatic film advance through the densitometer and clear concise data to assure consistent production.

Personnel: W. J. McGarrigle, Carl Bode.



Booths 104, 105

Canon U.S.A., Inc.

One Canon Plaza, Lake Success, NY 11042

Exhibiting: 16mm motion picture camera Scoopic 16MS and zoom lens for 16mm cine cameras. New compact and lightweight J13X9B F1.6 with built-in 2X ext. as well as J20X8.5B and

J25X11.5B for EFP application.

Personnel: J. Keyes, K. Rice, R. Low, K. Saotome, T. Sakurai, T. Okugawa, M. Momosawa.



Booths 482, 483

Carter Equipment Co., Inc.

15430 Condon Ave., Lawndale, CA 90278

Exhibiting: Total immersion wetprinters and attendant accessories including super imposition modules. Electronic laboratory equipment — a new video color analyzer, computerized tape punching system, printing machine photometer, etc. Other professional laboratory hardware and supplies will be displayed.

Personnel: W. D. Carter, Clay Ogletree, Ron Larson, Jack Scarciff, Tara Kearns.



Booths 205, 206, 207, 208, 209, 210, 211

Central Dynamics Corp. (Philips, CDL, ADC)

Box 618, Mahwah, NJ 07430

Exhibiting: Philips equip.: LDK-14S, LDK-25B cameras, LDM-3001 digital noise reducer, PVR 1-in. tape machine, LDK-44 2/3-in. camera. American Data equip.: model 2104 switcher, model 3101 switcher, series 800 distribution amplifiers, series 900 routing switcher system. Central Dynamics equip.: model 480 production switcher, model MC900 fully-automated master control switcher.

Personnel: J. Barkcr, W. Amos, J. Wilson, A. Keil, D. Herring, N. LaBate, J. Nigro, M. Hartt, D. Cadora, M. Mackin, B. Mahoney, W. Anderson, E. Miller, M. Aweau.



Central Dynamics Ltd. (see Central Dynamics Corp. listing)



Booths 566, 567

Century Precision Cine/Optics

10661 Burbank Blvd., N. Hollywood, CA 91601

Exhibiting: Century Precision Cine/Optics has been serving the motion picture and video industry since 1947, providing service for all lenses by major manufacturers and producing its own line of special ultra-wide angle, Tele-Arthenar telephoto lenses, Duplikin devices, and other specialized accessories. The service department can service all makes of prime and zoom lenses, whether for motion picture or video. Both East and West coast facilities have modern projection test equipment, designed with prism optics for video lenses.

Booth 629

Cetec Vega

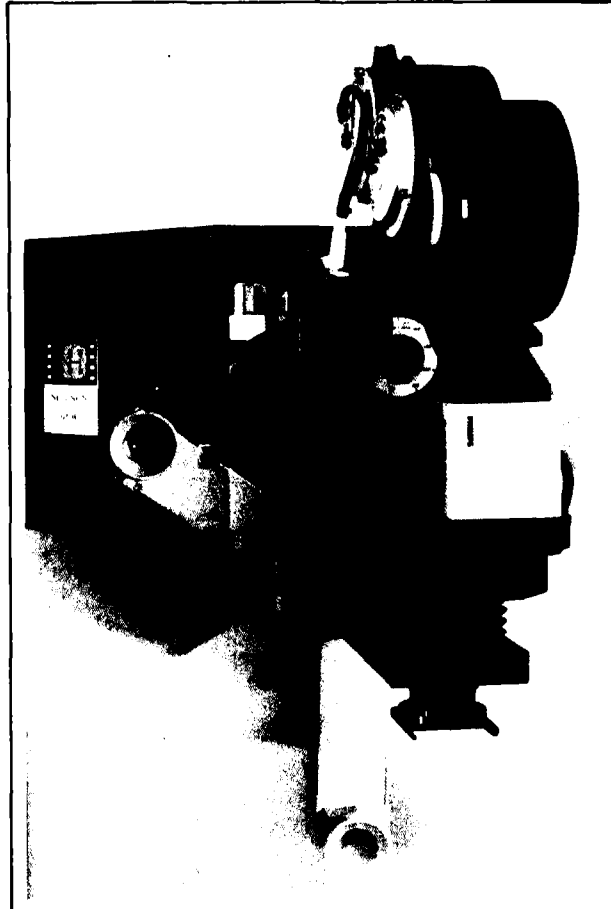
9900 Baldwin Pl., El Monte, CA 91731

Exhibiting: Cetec Vega's wireless microphone and wireless intercom systems — introducing the new wireless intercom master stations which allows up to six full duplex wireless (party line) conversations plus interface to hard-wire intercom systems such as RTS, Clear-Com, David Clark, 4 Wire, etc.

Personnel: Paul Baughman, Ken Bourne, Ernie Pappenfus, Gary Stanfill, Alan Crouch.

UNEQUALED. THE NEILSON-HORDELL MODEL 83:00 ANIMATION CAMERA

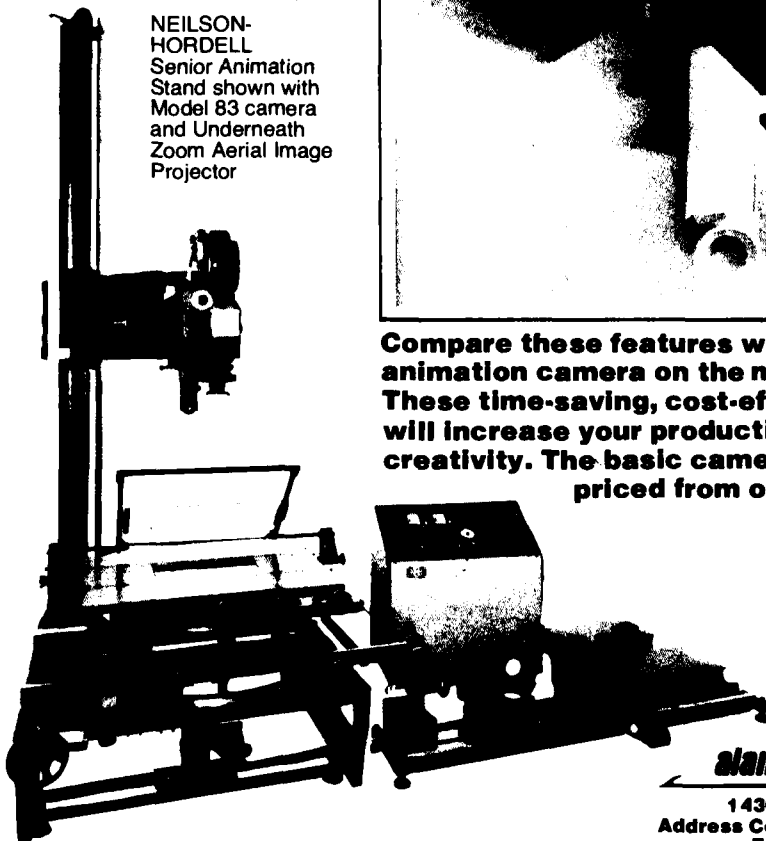
Neilson-Hordell, world-renowned manufacturer of animation, printing and special effects equipment is now making available the famous Model 83:00 Animation Camera, specially modified for use on your animation stand. While their own Intermediate and Senior Animation Stands are perfectly suited for use with the Model 83:00 Camera, you can upgrade your own stand at minimal expense.



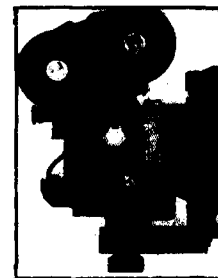
The model 83:00 Camera offers, among others, the following professional features:

- An 8 speed motor with up to 24 frames per second
- Single frame speeds up to 750 frames per minute
- Automatic fade/dissolve from 4 to 999 frames, with a selection of two fade curves and five dissolve curves
- Interchangeable 16mm and 35mm components
- Mechanical counter where each digit can be set and an all electronic control counter
- Automatically controls magazine take-up motors
- 3-way viewing: *reflex mirror* (for viewing without filming), *prism* (for viewing while filming), and *Rotoscope* through the reticle or through the aperture
- Video assist and recording available as optional accessories
- Solid state control
- Fast pull-down and fixed pin registration

NEILSON-HORDELL Senior Animation Stand shown with Model 83 camera and Underneath Zoom Aerial Image Projector



Compare these features with any other animation camera on the market today. These time-saving, cost-efficient features will increase your productivity and creativity. The basic camera system is priced from only \$29,995.00.



Model 83 Camera shown with door open

- For further information on the complete line of Neilson-Hordell animation equipment, the staff of Neilson-Hordell and Alan Gordon Enterprises, Inc. will be available to discuss these products with you.

An exclusive product of:

alan gordon enterprises inc.



1430 Cahuenga Blvd., Hollywood, CA 90028
Address Correspondence to P.O. Box 315, Hollywood, CA 90028
Telephone: (213) 466-3561 ; (213) 985-5500
TWX: 910-321-4826 • Cable: GORDENT

Booth 628

Christy's Editorial Film Supply

135 N. Victory Blvd., Burbank, CA 91502

Exhibiting: CMX film to tape editing system, motion picture editing equipment and supplies.

Personnel: Dick Christy, Dan Christy

Booth 551

Chyron Corp.

265 Bethpage-Spagnoli Rd., Melville, NY 11747

Exhibiting: Chyron IV Graphics and Titling system. RGU-1 graphic unit, U-1A cassette cleaner and evaluator.

Personnel: David H. Buckler, Thomas A. Oliviero, Ron Witko, John Starosky, Joseph Scheuer, William Hendler.

Booths 415, 416

Cine 60, Inc.

630 Ninth Ave., New York, NY 10036

Exhibiting: Nicad battery belts, paks, VTR batteries, on-camera batteries, car fast chargers, battery lights, 12 V, 24 V, 30 V, 100 W, 150 W, 250 W, 350 W, Sun-Gun kits, battery cables, shoulder pods, snaplocks, ENG battery chargers, ENG digital battery chargers, Nicad battery dememorizers.

Personnel: Paul Wildum, Bob Kabo, Don F. Civitillo, Evan Green.

Booth 565

Cinecare International

1044 19th St., Santa Monica, CA 90403

Exhibiting: Film perforation repair machines.

Personnel: Tom Myrdahl, James Stanfield.



Booths 619, 620, 621, 622, 623

Cinema Products Corp. 2037 Granville Ave., Los Angeles, CA 90025

Exhibiting: Co-ax digital remote control for U/F-16 and U/F-35 editing tables. Camraprompter, RDS/HMI lighting. Newsmaker video edit controller, and more.

Personnel: Ed DiGiulio, Don Dunbar, Vern Bushway, Jesse Garfield, Susan Lewis, Peter Waldeck, Ed Clare, Bob Auguste, Charles Lipow.



Booths 569, 570

Cinemills Corp.

2227 W. Olive Ave., Burbank, CA 91506

Exhibiting: Cinemills will be exhibiting the complete line of Daymax™ 5600 K and 3200 K globes for use in all HMI fixtures, including the new 6000 W, 5600 K globe. Also on display will be the complete line of Lee color effect and color correction filters and the complete line of Lee camera filters. Also exhibiting Strand Century/Ianiro lighting.

Personnel: Wally Mills, Sandy Mills, Charles Young, Patrick Visciglia, Steve Mule, Bill Bamberg, David Holmes, Ralph Young.

Booths 504, 505

Coherent Communications, Inc.

13756 Glenoaks Blvd., Sylmar, CA 91342

Exhibiting: Complete time code system for encoding standard SMPTE code on film and tape. Both production and post production equipment will be demonstrated. New battery powered version of the MX-80 film and tape mini-mixer. New Mini-Mac miniature microphone model will be introduced. Also to be shown will be microphone power supplies, Rycote windscreens and shock mounts, Q-Aid induction receivers, TV crystal sync generators and sound accessories.

Personnel: Ivan Kruglak, Steven DeFeo, Steven Bell, Ted Akutagowa.

Booths 544, 545



Commercial Electronics, Inc.

880 Maude Ave., Mountain View, CA 94087

Exhibiting: Modular broadcast quality color television cameras featuring latest state-of-the-art technology, i.e., microprocessor control board for new 310 series and new, economical broadcast-quality Americam.

Personnel: Len Adler, Chuck Headley, Harlan Romsdahl, Al Jensen, Dave Fish, Andrew Mellows, Harvey Ray, Jim Irvine.



Booths 225, 226, 227

Compact Video Sales, Inc. (Skirpan Lighting Systems; RTS Systems, Inc.)

2813 Alameda Ave., Burbank, CA 91505/1100 W. Chestnut St., Burbank, CA 91506

Exhibiting: Compact Video Sales will be exhibiting mobile video production vans, engineering and consultation services for mobile video production vans and fixed television facilities. Skirpan Lighting systems will be exhibiting lighting control system for broadcast studios. RTS Systems will be exhibiting conference line, multi-functional one-way and point-to-point intercom systems. Professional audio products.

Personnel: Carl Kravetz, Bob Manahan (Compact); Steve Skirpan, Bob Benson (Skirpan); Doug Leighton (RTS).



Booth 438

Comprehensive Service Audio-Visual, Inc.

Box 881, Times Square Station, New York, NY 10036



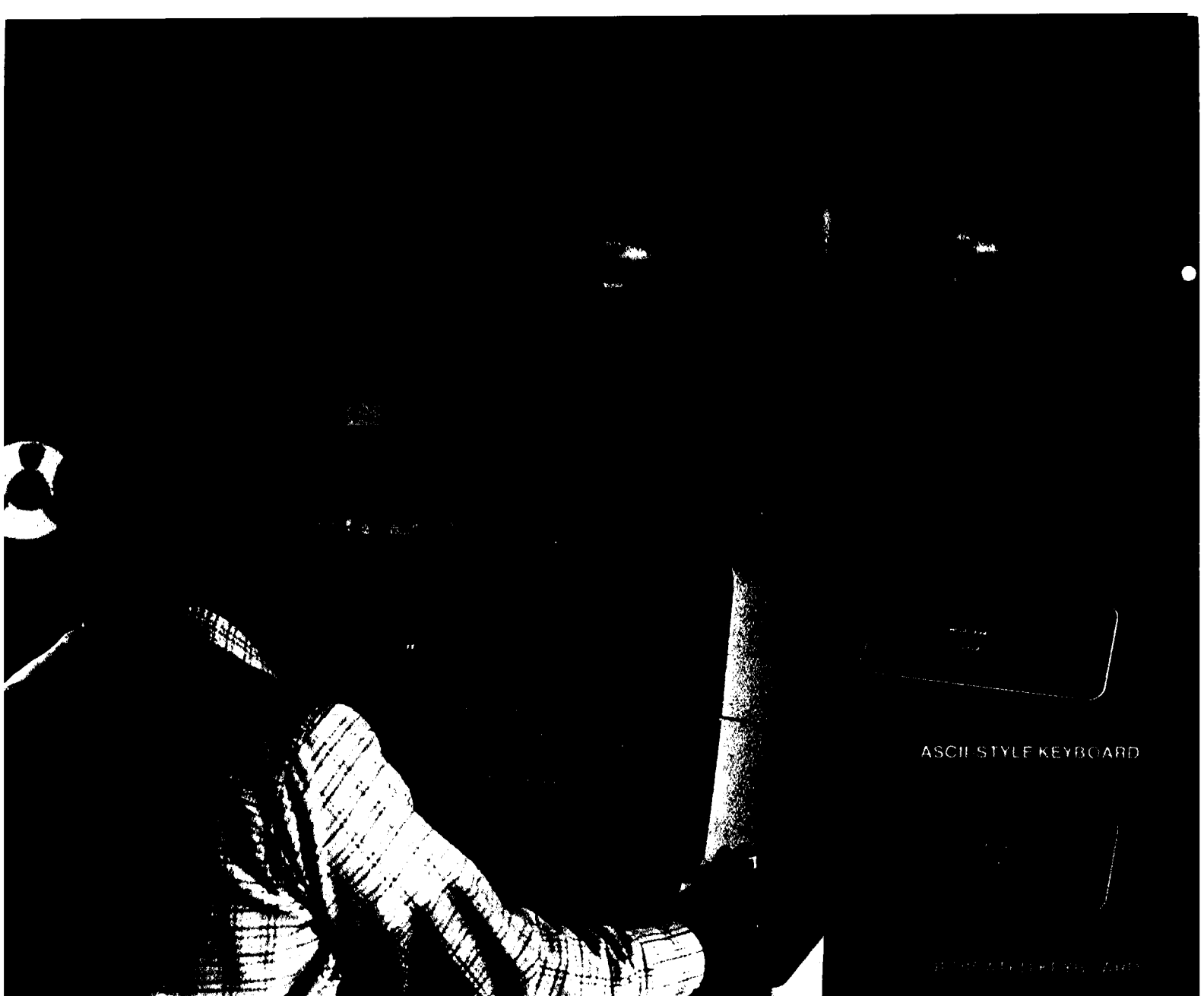
Booth 552

Comprehensive Video Supply Corp.

148 Veterans Dr., Northvale, NJ 07647

Exhibiting: Video accessories and supplies, featuring CVMM broadcast quality mike mixer, VTC-100 Video Test Center, PAG and Comprehensive battery belts, replacement Nicad batteries, and Bilora tripods.

Personnel: Jules Leni, Skip Dunn, Tedd Jacoby, Len Dozier, Rayma Dozier, Doug Kanczuzewski.



ASCII STYLE KEYBOARD

AMPEX CORPORATION

ACE. The Editor's Choice. With more choices for editors.

This is the most adaptable, most flexible, most fully human-engineered editing system ever.

This is ACE. Ampex Computerized Editing.

TouchScreen™. The Ultimate In Editing.

No keyboard. No buttons. No lightpen. That's ACE's unique TouchScreen.

As your finger gently touches a particular command on the screen, ACE instantly senses the location of your finger, compares it with the command on the screen, then executes the function or sequence.

All you do is touch and edit. It's that simple.

Standard Options With Uncommon Flexibility.

If you're accustomed to working with the

simplicity of a dedicated keyboard, ACE offers one with exciting new flexibility. We've added eight soft keys that increase available functions. Without increasing complexity. They're even programmable to perform repetitive operations, so you don't have to.

Rather work with the familiar ASCII typewriter keyboard? ACE has that, too. Plus programmable soft key operation.

ACE also complements each editing mode with an improved version of the popular joystick control to make finding edit points easy.

Modular Design for Today. And Tomorrow.

Once the basic ACE system is installed, its modular design allows you to make enhancements economically. The advanced thinking that went into ACE assures that, as your needs grow, ACE

can grow with you.

To find out how ACE can start taking care of your editing needs today, get in touch with your Ampex representative for more information.

ACE. It Lets the Editor Make the Choice.

AMPEX

Ampex Corporation,
Audio-Video Systems Division
401 Broadway, Redwood City, CA 94063
415/367-2011
Sales, Spares and Service Worldwide.



Convergence Corp.

1641 McGaw, Irvine, CA 92714

Exhibiting: Regularly-scheduled demonstrations of the more complex editing techniques will be given, using Convergence ECS-104 list management video editing system with other new products — DD-100 dual disk drive, ME-110, editing mix effects system, CP-110 remote control panel for ME-110, and CG-100 command generator. An ECS-103C multi-source, auto-conforming edit controller and the versatile, low-cost ECS-90 edit controller will also be shown.

Personnel: Deborah Harter, Don Thorkelson, Frank Jackson, Steve Pequignot, Meryl Altman, Diane Talsma, Bob Lawrence.

Booths 328, 329, 330, 331



Eastman Kodak Co.

343 State St., Rochester, NY 14650

Exhibiting: New film products.

Personnel: Richard K. Schafer, John F. Teahan, George D. Winter.

Booth 217



EEV, Inc.

7 Westchester Plaza, Elmsford, NY 10523

Exhibiting: Leddicon and Vidicon TV camera tubes character display tubes.

Personnel: Paul Plurien, Tom Soldano, Charles Shellenberger, Don Rose.

Booth 637

Booth 647

Cool Light Co., Inc.

5723 Auckland Ave., N. Hollywood, CA 91601

Exhibiting: The Cool Nine-Light (5400W), Single Handi (600W), Double Handi (600W two Single Handi heads), Cool Star (2K 200W), and Mini-Cool (250W and with change of the bulb can work on simple house current or 12 and 30 volt battery packs).

Personnel: George Panagiotou, David Gill, Florence Tucker, Bill Boutsikakis, Tina Gardiner, Rodney Rader, George Halverson.



Eigen Video

P.O. Box 1027, Grass Valley, CA 95945

Exhibiting: Slide storage disk recorder, 10 sec. slow/motion disk recorder, digital frame recorder.

Personnel: John Romanko, George Foster.

Booth 539



Datatron, Inc., Video Systems Div.

2942 Dow Ave., Tustin, CA 92680

Exhibiting: Datatron will display their computerized videotape editing systems, the Tempo and the Vanguard with its "Smart Scan"™ option together with video production switchers and controllers and various SMPTE code readers, generators, jam-sync generators, time code inserters and synchronizers. Additionally they will feature their new multi-purpose Station Automation Systems (S.A.S.) and a new off-line editing system called Editt/Plus™. Datatron will also introduce up to four of their family of new SMPTE time code peripherals.

Personnel: Herbert M. Perkins, Frank Logan, Larry J. Pepper, Gary Rosenzweig, Joe Horning, Diana Curtin.

**Booths 518, 519, 520
534, 535, 536**



F&B/Ceco — Bardwell & McAlister

7051 Santa Monica Blvd., Hollywood, CA 90038

Exhibiting: New HMI spotlight and new grip stands, will be exhibited in addition to their standard line of Fresnel spotlights, quartz lights, accessories and grip equipment.

Personnel: Sharon Evans, Arthur Florman, John Strong, Ted Bentley, Carl Bureson, Zoltan Korosi.

Booths 436, 437



Dolby Laboratories

731 Sansome St., San Francisco, CA 94111

Exhibiting: Dolby Laboratories will exhibit single and multiple track A-type noise reduction units for magnetic recording, Telco lines, etc. Dual channel A-type noise reduction modules which plug into VTRs. Cinema processors to the reproduction of conventional and Dolby encoded film formats.

Personnel: Ioan Allen, Clyde McKinney, Bob Peterson, Tim Prouty, Stacey Rehm, David Robinson.

Booths 102, 103



Fernseh, Inc. (Video Corp. of Bell & Howell and Robert Bosch)

P.O. Box 15068, Salt Lake City, UT 84115

Exhibiting: Graphics system (Compositor I™), Telecine system, digital slide store system (BCN-15), TDF-2 noise filter, and color monitors.

Personnel: W. Butler, R. Pfannkuch, A. R. Pignoni, H. McClure, C. Gardner, T. Magliocco, R. Ferguson, M. Wilmering, D. Harrison, H. Pernotsky, H. Geise, E. Hippe.

Booths 241, 242, 243, 244

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Your Image Is
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Registered Trademark of
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IMAGE

Leddicons assure you dynamically faithful pictures over a long life, and they are rugged.

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If you want to improve your image, call or write for all the facts about our 25, 27, and 30mm **Leddicon** tube family.

Also ask about our **Videomic**™ — the image standard for color telecine.



EEV, INC.

7 Westchester Plaza, Elmsford, NY 10523, 914 592 6050, TWX 710 567 4215

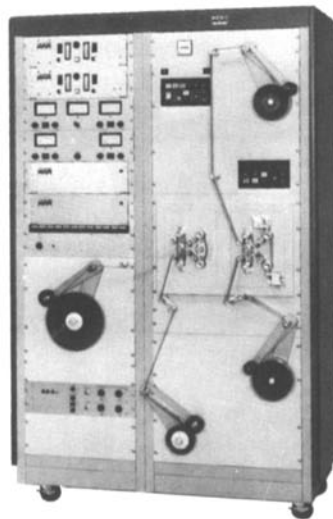
In Canada: EEV CANADA LTD., 67 West Beaver Creek, Richmond Hill, ON, L4B 1N1, Tel: (416) 882-4100, Telex: 5200-1000
In Europe: English Electric Valve Co. Ltd., Chesham, Bucks., HP8 4JF, UK, Tel: (0494) 51111, Telex: 94015

See Us At SMPTE, '81 Booth 637



Magnetic and Optical Sound Systems

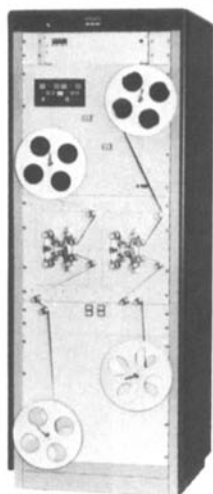
Including:
Our New 350-E Optical Electronics
with Time Delay (GNR) and
Cross Modulation Signal Unit



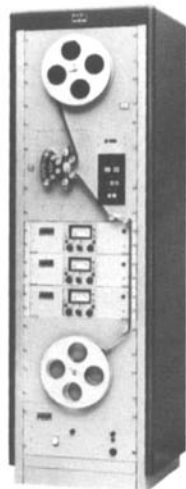
SUPER 8 TRANSFER SYSTEMS



AUTOMATIC DIALOG REPLACEMENT SYSTEMS



DUAL DUBBERS



PICK-UP RECORDERS



WRE-MAURER GALVANOMETERS



OPTICAL RECORDER TRANSPORTS



OPTICAL RECORD ELECTRONICS



OPTICAL SOUND RECORDER SYSTEMS

Complete Packages for Magnetic & Optical Recording

- Standard WRE dubbers and recorders are available in 16mm, 35mm, and combination 16mm/35mm versions. All units provide ease of operation and quality performance featuring advanced-design film transports and electronics.
- 6000 Series Pick-up Recorders feature silent selective head switching that eliminates noises, clicks or level changes when switching into and back out of record/erase mode. 16mm, 35mm or 16mm/35mm combination units.
- Model 600 Optical Sound Recorders and components provide the ultimate in professional 16mm optical sound recording. WRE-Maurer galvos, solid state electronics and transports available.
- Super 8 High Speed Sound Transfer Systems feature the preferred "on the drum" recording technique, 10 times real speed operation and high speed drop out detection electronics. From single strand to Quad Rank 35.
- An Automatic Dialog Replacement unit utilizing a built-in micro-processor control system to achieve a high degree of versatility in rerecording or adding sound to motion picture film without manual looping.
- WRE also produces transfer units designed specifically for the S-8 and 16mm single system user.
- DC Servo Interlock Motor Systems. Optical shaft encoders for driving dubbers and recorders. E-Prom microprocessor control systems.
- All WRE systems are designed and manufactured to give you the highest quality sound. You want a sound track to produce ALL the sound, with minimal noise and the least possible distortion. At WRE we are dedicated to providing equipment that meets your exacting requirements and quality standards.



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WEST COAST REPRESENTATIVE
Sprocketech • 6110 Santa Monica Blvd. • Hollywood, CA. 90038
Phone: 213 464-6007

ACCESSORIES:

- 3 Phase Interlock Distributor Systems and Motors.
- Also 1 Phase and Electronic Interlock Systems.
- Digital Footage Counters including Automatic Looping.
- Bulk Tape Degaussers.

To our line of field-proven sound recording equipment we add

THE NEW 690 SERIES OF OPTICAL RECORDERS

The 690s are new for the '80s. They offer the motion picture industry major advancements in the art of optical sound recording. Models are available to accommodate 16mm film, 35mm film, and 16/35mm film in combination. All are housed in standard 19-inch cabinets.

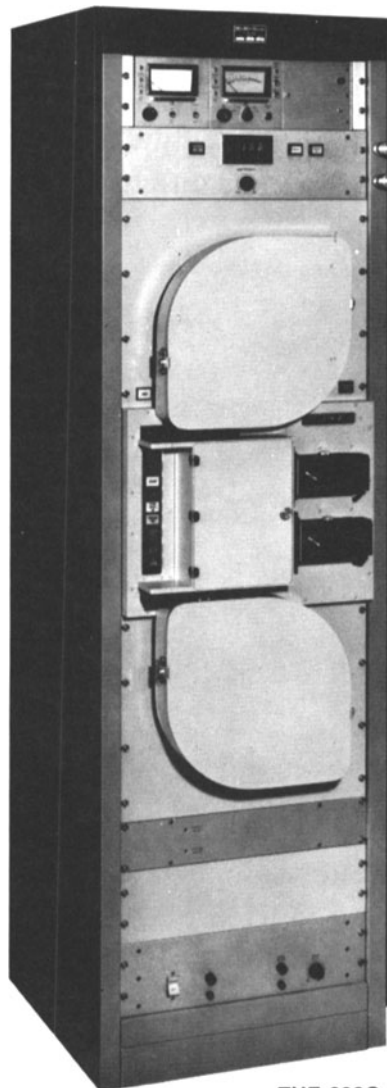
Because they feature a completely new design in optical sound recorders, the 690s provide the user with a combination of capabilities not previously available in any other manufacturer's product. The combination includes:

- A new DC servo drive to provide exceptionally smooth film handling. This servo drive, featured on all models, also permits the user to interlock with a variety of different types of equipment when interfaced with a WRE shaft encoder.
- Split magazines, offered for the first time in a U.S.-built sound recording system. These make film loading and unloading faster, easier and more convenient than ever before.
- Positive to negative or negative to positive film track change with the simple flip of a switch.
- Field-proven solid state electronics that includes a cross modulation test unit, fixed low pass filter, and an anticipatory time delay circuit (GNR).
- A built-in playback system for high performance reproduction

capabilities as well as for aligning and testing purposes.

690C COMBINATION RECORDER

Model 690C is pictured below. It is the 16/35mm Combination Op-



THE 690C
COMBINATION RECORDER

tical Recorder offering all of the new systems latest innovations. In addition, the 690C features two WRE-Maurer F-Prime Galvanometers, recognized world-wide for high quality and performance. Both galvanometers can be switched to or from either 16 mm or 35 mm sound tracks.

WALK-AWAY FEATURE

The new 690 system's unique and exclusive microprocessor based counter counts both feet and frames. Its microprocessor memory can be preprogrammed to turn cross modulation unit and test exposure on and off automatically at any predetermined footage and, at command, at the end of each roll of film. It also shuts off the film transport automatically.

Because preprogramming with microprocessor accuracy is possible, most major recording functions can be automatically monitored and controlled. This walk-away feature permits virtual unattended operation of all models in the 690 series.



Technical details and information on production and delivery schedules as well as prices are available upon request from Wide Range Electronics Corporation, 2119 Schuetz Road, St. Louis, Mo. 63141.

INTERNATIONAL REPRESENTATIVE

Carter Equipment Co., Inc.

15430 Condon Avenue • Lawndale CA. USA 90260

Phone: 213-772-1177 • TWX: 910-325-6204

"Visit Us At Booth 419 At The SMPTE Exhibit"



Booth 429

Frezzolini Electronics, Inc.

7 Valley St., Hawthorne, NJ 07506

Exhibiting: Frezzi On-Board and In-Board battery packs, Frezzi power belts, Frezzi lite heads, Frezzi-Flex 16mm camera and new Frezzi multiple battery charger.

Personnel: James Frezzolini, James Crawford, Jack Frezzolini, Jack Zink, Bill Birdsall.



Booths 239, 240

Fuji Photo Film USA, Inc./Magnetic Tape Div.

350 Fifth Ave., New York, NY 10118

Exhibiting: H701E 2-in. videotape, H621 1-in. videotape, 3/4-in. U-matic videocassettes, VHS and Beta videocassettes.

Personnel: John Dale, Al Bedross, S. P. Henderson, Don Jackson, Marty Brehm.

Booths 111, 112, 113

Fujinon Optical Inc.

672 White Plains Rd., Scarsdale, NY 10583

Exhibiting: A complete line of ENG/EFP lenses including the A10X11RM, A12X9ERM, A14X9.5ERM, A17X9ERM, A22X12.5ERM and an A30X11ESM. Also, a group of special lenses including the A3.5 X 6.5 short wide angle zoom and the new A17 X 8.5 high quality wide angle lens for studio use.

Personnel: F. Nakajima, J. Dawson, M. Russin, D. Cooper, K. Tindall, J. Geiger, M. Ebisawa, Y. Hayashi, D. Bastello, R. Russin, J. Newton, T. Washburne, R. Morabito, G. Squires.



Booths 130, 131

General Electrical Co./Lighting Business Group

Nela Park, Cleveland, OH 44112

Exhibiting: Light sources for television and motion picture production.

Personnel: Bob Rovegno, Ed Trout, Charlie Clark, Dave Graham.



Booths 405, 406

Goldberg Bros., Inc.

P.O. Box 5345 T.A., Denver, CO 80217

Exhibiting: Reels, cans, cases, editing equipment and supplies, splicers.

Personnel: Norm Goldberg, Jim Frank, Joe Paskal, Chuck Ehrman, Chuck Sacks, Dom Capano.



Booths 605, 606, 607, 608, 609

Alan Gordon Enterprises, Inc.

1430 Cahuenga Blvd., Hollywood, CA 90028

Exhibiting: Motion picture camera and support equipment, Elemack dolly, Swintek wireless mic systems, Zeppelin shock-mount and windscreen, B and H Filmo series 70 cameras and accessories, super grip, Simplex projector, MP-30 projector, Mk

IV director's viewfinder, NCE II animation motors, and many production accessories.

Personnel: Grant Loucks, Ted Lane, K. Ferrell Forehand, Frank Kelly, Tom Zaza, Pat Singh, Mike Kelly, Terry McCarthy, Ken Knipe, Pam Harris, Don Sahlein, Bob Kuhagen.



Booths 127, 128

The Grass Valley Group

13024 Bitney Springs Rd., Grass Valley, CA 95945

Exhibiting: Television production and routing switchers; digital video effects system; television line and terminal equipment.

Personnel: Doug Buterbaug, Chuck Clarke, Randy Hood, Jay Kuca, Tom Sleeman, Bob Webb.



Booths 553, 554

Gray Engineering Labs., Inc.

504 W. Chapman Ave., Suite P, Orange, CA 92668

Exhibiting: SMPTE Edit Code generators, readers, character generators, and user bit products. SMPTE Vertical Interval Time Code (VITC) products. Video-assisted film editing products. Safe area generator products.

Personnel: T. C. Clark, Phillip McFadin, Scott Gray, John Gray, Pete Reitz, Jim McAtee.



Booths 548, 549

Harris/Farion Video

1680 Bayport Ave., San Carlos, CA 94070

Exhibiting: Farion Video will display the FV2CR central receiver for ENG systems. The revolutionary new Global IX ENG transmitter will also be shown. This unit is capable of covering any 2 GHz plan in the world. Selection of up to 55 channels in each of 16 different plans can be done locally or remotely.

Personnel: Jorgen Bistrup, Cliff Fields, George Maier, James Murray, Don Littleton, Bob Schneider, Lal Basu, Ray Colby, Dave Northen.



Booths 546, 547

Harris Video Systems

1255 E. Arques Ave., Sunnyvale, CA 94086

Exhibiting: TBC's synchronizers, video editing systems, video-assisted film editing system and digital still storage devices.

Personnel: Frank Santucci, Steve Smith, Jim Burger, Mike Lang, Dave Brack, Clay Selthum, Bob Ridge.



Booths 439, 440

Hazeltine Corp.

500 Commack Rd., Commack, NY 11725

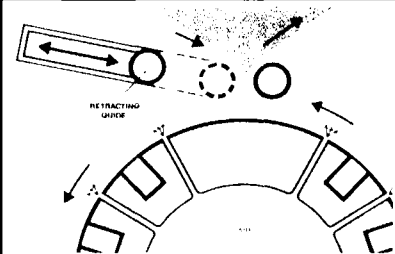
Exhibiting: The series 200 color film analyzer featuring a model 245 memory tape punch system for preparation of frame count cueing and exposure tapes for single or A and B roll timing. In addition, a new previewing system which allows previewing scene color correction prior to printing the tapes. A model 116 color film analyzer and model 240 stand alone tape preparation duplicating equipment.

Personnel: A. Eisenhuth, S. Nardella, S. Osgood, R. Cassara, F. DeSanto, N. Recber, K. St. John, G. Pezzullo, A. Arbeeney.

Competition-0

That's the score in one-inch VTR technology.

We've gone the first generation of TYPE C machines *five* better...to help you get all the potential of one-inch out of your video installation. Here's what the competition *doesn't* give you.



• Tape guide retracts for threading ease • Air drum eliminates head contact in shuttle/standby modes

1. Retracting Tape Guide

Retracts for unequalled ease of threading; repositions with one micron accuracy for up to two million threadings. Provides the reliability of a quad thread system in a one-inch format.

2. "PRO" Tape Path

The protective reverse oxide ("PRO") configuration of the tape path means *only* the video and audio heads touch the oxide surface. All other transport mechanisms guide the tape by its reverse side. Result: noticeably reduced dropouts; longer tape life.

3. Instant Head Replacement

Pre-aligned head design permits easy replacement of video heads in three minutes. No adaptors or jigs; no adjustments required.

4. Audio and Video Confidence

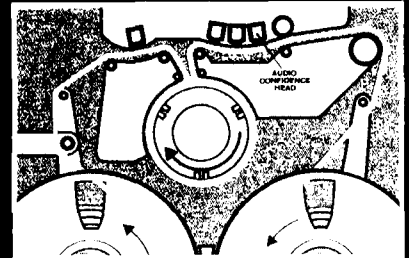
The others only let you *see* what you're taping. We let you *see* and *hear* everything being recorded...simultaneously.

5. Non-contact Tape Shuttle System

In shuttle and standby modes, tape rides on a cushion of air. Increases head and tape life immeasurably. Cuts frictional

resistance, yielding shuttle times of only 80 seconds end to end.

We could go on. With impressive features like microprocessor control; broadcastable slow motion; one-touch shuttle and jog; front access circuit boards; audio spot erase; and on and on. But why run up the score, when it's already no contest? See the Hitachi HR-200, it's equally impressive portable HR-100 model, and companion TC-200 Time Base Corrector.



Full audio and video confidence
"PRO" tape path reduces dropouts



HITACHI
Hitachi Denshi America, Ltd.

Tomorrow's Technology Today

175 Crossways Park West, Woodbury, N.Y. 11797 (516) 921-7200

• New York • Chicago • Los Angeles • Atlanta • Cincinnati • Dallas • Denver • Seattle • Washington, D.C.



**Booths 308, 309, 310,
311, 312, 313, 314**

Hitachi Denshi America Ltd.

175 Crossways Park West, Woodbury, NY 11797

Exhibiting: Broadcast 1-in. type C portable and console, and 3-hour type C VTRs. ENG/EFM cameras, studio cameras and auto set up studio cameras.

Personnel: Mr. Muto, B. Munzelle, J. Russell, T. Califano, F. Scott, J. Morrison, H. Rainey, G. Carter, R. Chelsi, K. Bass, T. Yamashita, T. Yokomichi.



Booths 461, 462

Hollywood Film Co.

3294 E. 26th St., Los Angeles, CA 90023

Exhibiting: Special effects printer, bi-directional printers, total immersion film handling items.

Personnel: Harry Teitelbaum, Nick Mastrogiovanni, Mark Levine, Henry Stemke.



Booths 516, 517

Houston Fearless 76, Inc.

833 E. Walnut St., Carson, CA 90746

Exhibiting: Advanced colormaster film processor, film and chemical handling accessories and chemical storage tanks.

Personnel: Dennis Liddell, Derrill Macho.



**Booths 400, 401, 402,
403, 404**

Ikegami Electronics (U.S.A.), Inc.

37 Brook Ave., Maywood, NJ 07607

Exhibiting: HL-79D ENG/EFM portable production camera; HL-83 ENG/EFM new generation, compact color camera with capability for attachable VCR and other systems configurations; EC-35, the world's first electronic cinematography camera; HK-322 highly advanced, fully automatic television camera system; TKC-970 high quality telecine camera; series 8 broadcast quality standard resolution, series 9-in-line gun high resolution, and series RH high resolution monitors.

Personnel: N. Nishi, H. Schkolnick, H. Schloss, S. LaConte, C. H. Sloss, Jerry Kraus, John Chow, Harvey Caplan, L. Wolff, Bud Mills, Y. Sato, S. Yana.



Booths 201, 202, 203, 204

JVC, Professional Video Div.

41 Slater Dr., Elmwood Park, NJ 07407

Exhibiting: KY-2700 professional 3-tube color camera. Single-tube color camera, 3/4-in. editing systems, professional VHS systems. Portable VCR's, monitors, and accessories.

Personnel: Dan Roberts, Ron Suttle, John Brown, Mike Messerla, Logan Enright, Don Carter.



Booths 441, 442, 443, 444

KEM Editing Systems, Inc.

7237 Santa Monica Blvd., Hollywood, CA 90046

Exhibiting: K-800 4-plate tables electronically locked together and slaved to tape with SMPTE time code. The modular interchangeable KEM Universal 4- and 8-plate tables. The compact RS-2 8-plate with flicker-free twin 16mm picture.

Personnel: Peter Weibel, Michael Denecke, Ludwig Schneider, Kiriakos Spentzos, Kathleen Schroeder.

Booth 238

Kliegl Brothers

32-32 48th Ave., Long Island City, NY 11101

Exhibiting: Fresnels, 1550 series Klieglights, Kliegpac 9 portable dimming system, Performer II and Command Performance memory lighting control consoles.

Personnel: Dr. Joel E. Rubin, Michael F. Connell, Michele Hinrichs, Frank Scarlata, Dave Stuart, Tom Hays, Ed Peterson, David Thurrow.



Booths 514, 515

Lab Methods Corp.

7900 Alabama Ave., Canoga Park, CA 91304

Exhibiting: Computer tape punch, synchronizer automatic data collection system, analyzer data collection system, demand drive loop cabinets, developer demand drive components and break alarm, multi-format sprocketless projector.

Personnel: Marvin Roberts, M. V. Chewey, Joe Wary, Helene Caruthers, Judith A. Chewey.



Booth 484

LaVeZZi Machine Works, Inc.

900 N. Larch Ave., Elmhurst, IL 60126

Exhibiting: Sprockets for all film sizes, including Posi-Trol, and the Award winning VKF sprockets; Geneva intermittent movement assemblies and components; high precision machine components for all film equipment.

Personnel: Worth Baird.



Booths 537, 538

Lenco, Inc., Electronics Div.

300 N. Maryland St., Jackson, MO 63755

Exhibiting: Videoscope to verify SCH phase, RS170A sync generator, Genlock, NTSC encoder, pulse and video distribution, system timing, monochrome and color monitors.

Personnel: Richard Lawrence, Robert Henson, Ken Tiffany, Bruce Blair, Gary Stephens, Mert Knold, Ron Wells.



Booths 473, 474, 475

Lipsner-Smith Co.

4700 W. Chase Ave., Lincolnwood, IL 60646

Exhibiting: Full line of film cleaning machines. Featuring all new CF-100 low cost ultrasonic film cleaner. Also showing compact

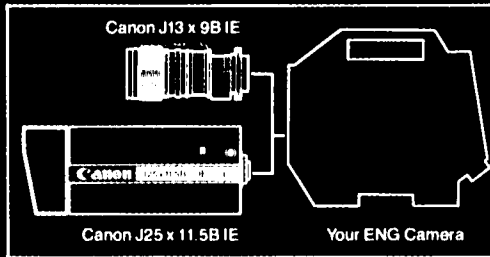
Two Assignments

Canon J13x9B IE plus Canon J25x11.5B IE and your camera

Two assignments, one location. For example, get great action shots of a football game and also get player interviews at half-time. You can do it with one cameraman and *one camera*—like the one shown here—with Canon's amazing E.F.P. lenses. Here's how:

Mount our J25 x 11.5B IE on a tripod at your principal location. It's 2/3" system was designed specifically to work with ENG cameras, yet this lens provides a 25-to-1 zoom ratio, power zoom and focus, automatic iris and the image quality you'd expect from a Canon broadcast lens. Another choice is the Canon J20 x 8.5B IE, with a 20-to-1 zoom ratio. (Both these lenses have built-in extenders, too!) With your ENG camera attached, you've got full capability.

Detach your camera from the fixed lens, mount the famous



Canon J13 x 9B IE and head for the locker room!

You've got a 13X, f1.6 lens now and can move about freely for your interview shots.

The J13 x 9B IE is unsurpassed as an ENG lens, with Cable Drive and auto iris capabilities

plus built-in extenders and auxiliary wide-angle and telephoto accessories available as well.

Electronic Field Production is a reality. A practical reality because you don't have to send two crews or even two cameras to a single location if all you really need is one ENG camera and two Canon lenses. And, costs notwithstanding, sometimes you just don't have enough cameras to go around. Selecting the right combination of Canon lenses could actually double the utility of the ENG cameras you already own. And that's something even your accountant can appreciate!

Find out more. Use the coupon or write on your letterhead for the facts on the Canon J25 x 11.5B IE and J20 x 8.5B IE lenses, as well as our popular J13 x 9B IE. We'll also be happy to arrange a practical demonstration for you. A very practical demonstration!



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Canon Optics & Business Machines, Canada Ltd. 3245 Avenue Road, Mississauga, Ontario L4V 1R9, Canada (416) 291-2100
Canon Amsterdam N.V., Industrial Products Division, De Boelelaan 8, 1077 XX Amsterdam, The Netherlands (20) 511-1111
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The name to know in broadcasting.

CF200 and CF3000 model that includes built-in solvent recovery system. Lipsner-Smith now has four separate lines of standard models that meet every film cleaning requirement.

Personnel: Tom Tisch, Dick Hughes, Ray Short, Howard Bowen.

Booths 574, 575

Listec Television Equipment Corporation

4529 San Fernando Rd., Unit A., Glendale, CA 91204

Exhibiting: Vinten camera mounting equipment, Digivision prompting.

Personnel: Jack Littler, Joanne Camarda, Mike Stechly, Howard Stucker, Cliff Guice, Melanie Littler, John Bart.



Booths 495, 496

Lowel-Light Mfg., Inc.

421 West 54th St., New York, NY 10019

Exhibiting: Lowel location lighting systems, including the Omni-light and 'D' light focusing spotlights, the Tot-light broad light, the softlight 1500 folding softlight, the original Lowel-Light, Lowel sun and artificial light reflectors, the Link system of modular support and lighting control equipment, and additional location lighting equipment.

Personnel: Ross Lowell, Art Kramer, Marvin Seligman, Roy Low.



**Booths 422, 423, 424,
470, 471, 472**

LTM Corp. of America

1160 N. Las Palmas Ave., Hollywood, CA 90038

Exhibiting: LTM features four different types of HMI fixtures in all five different wattages. Luxarc (Fresnel spotlights) 200/575/1200/2500/4000; Ambiarc (open face floodlights) 200/575/1200/2500; Soft "D" (wide shadowless lighting) 575/2X575/1200/2X1200; Spotarc (one degree spot) 575/1200/2500. The basic portable lighting system by LTM includes three models: 30V Sun Gun (250W or 350W) focusable, 12V SunGun or camera mounted weighing 10 ounces, 12V/24V/30V/120V/220V focusable lite, stand clamp or camera mounted. Incandescent Fresnel lites — 1K/2K/5K/10K in standard and mini sizes plus cyc-lites (striplites).

Personnel: Herbert W. Breitling, Gilles Galerne, Jean Galerne, Claude Crevet, Guy R. Fischer.



Booth 451

L-W International

6416 Variel Ave., Woodland Hills, CA 91367

Exhibiting: Athena 6000 and 4000 16mm Telecine film transport systems; slow motion, stop motion, Athena 6000 is multi-frequency, multi-voltage, automatic cueing, lamp change-over and loop restorer; handles 50 to 5000 feet of film. 224-A MK VI photo-optical data analyzer and Athena 224-ES analytical sound projector. Automax 16mm data recording camera.

Personnel: R. H. Lawrence, Pat Smith, William Fink, David Fellingner.



**Booths 114, 425, 426,
427, 428**

Magnasync/Moviola Corp.

5539 Riverton Ave., N. Hollywood, CA 91601

Exhibiting: The new Videola film-to-tape transfer systems utilizing unique flickerless prism optical system. Models exhibited are the V-2000 double system deluxe, V-1000 double system and V-500 single system. The new Moviola portable 16mm six-plate low-cost flatbed, M-77AH, and M-35BHC flatbeds and series 3000 recorder/reproducer transfer system.

Personnel: Daniel M. Zinn, Gerry D'Almada, Rick Dial, Holmes Ives, Anders Madsen, Carl Nelson, Bill Arasmith, Stu Mann.



Booths 432, 433, 434

Magna-Tech Electronic Co., Inc.

630 Ninth Ave., New York, NY 10036

Exhibiting: High speed 16/35mm combination electronic projector, new 9F digital counter system, high speed dubbers and recorders, video interlock equipment for film mixing.

Personnel: N. T. Prisament, Robert W. Eberenz, Marc S. Prisament, Alex Jepson, George Szegiti, Ernesto Aguilar, C. R. Fine.



Booth 101

Marconi Instruments, Div. of Marconi Electronics, Inc.

100 Stonehurst Ct., Northvale, NJ 07647

Exhibiting: Automated VTR test system, Vits analyzer, 'H' and 'V' blanking analyzer, broadcast audio test system, low distortion audio oscillators, wow and flutter meters.

Personnel: Ken Harrison, John Robinson.



Booths 110, 452

Matthews Studio Equipment, Inc.

2405 Empire Ave., Burbank, CA 91504

Exhibiting: Matthews will display two new products, the revolutionary 'Tulip Crane', a portable crane system for location and studio applications, and the new 'Mini-Vator', a lightweight, yet rugged, crank-up stand designed for lighting fixtures up to 125 lbs. In addition, many of the remaining 550 products of the Matthews family will be on display.

Personnel: Edward Phillips, Carlos D. DeMattos, Ron Prociw, Fred W. Gerhart.



Booths 480, 481

MCI/Quantel

2483 E. Bayshore Rd., Ste. 100, Palo Alto, CA 94303

Exhibiting: DPE 5000/plus — digital production effects system; DLS 6000-digital library system; T 7000 — digital fine arts system; digital framestore synchronizer; digital synchronizer.

Personnel: M. Connell, D. Dever, P. Fletcher, G. Grasso, G. Hamilton, J. Hanf, C. Martin, D. Prather, L. Biehl.

9100 Digital Video Processor

The new Thomson-CSF 9100 Digital Video Processor. It's a lot more than a noise reducer. It's three capabilities in a single system.

We developed noise reduction technology that delivers up to 15 dB of S/N improvement in six presettable settings. So satellite signals become clearer. Film-to-tape transfers are less noisy, less grainy. And for ENG applications, signals come out sharper. Without the excessive low-frequency chroma noise identified with $\frac{3}{4}$ " and $\frac{1}{2}$ " VTR's.

And that's not even half of it. We've also added a frame

synchronizer with freeze-frame capability. A built-in, optional, time-base corrector for $\frac{3}{4}$ " or $\frac{1}{2}$ " VTR's. And a convenient 4×1 switcher that makes available valuable crosspoints. While a processing amplifier provides complete output signal control.

Only Thomson-CSF gives you so much versatility and signal improvement in a single video processor.

The new Thomson-CSF 9100 Digital Video Processor

beats competitive noise reducers three to one.

Call or write today for complete specifications, and/or a demonstration at your facility.

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Mid-Atlantic:
Al Audick
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Southwest:
Marty McGreevy
(713) 933-1700

Southeast:
Frank Benson
(404) 487-6756

West:
Mike Clayton
(213) 849-2188



THOMSON-CSF BROADCAST, INC.

37 Brownhouse Road, Stamford, CT 06902



Merlin

1880 Embarcadero, Palo Alto, CA 94303

Exhibiting: Ultra-wide band video recorder. Extended play conversions for 1-in. C and B VTRs. Refurbished quad VTRs. VTR accessories.

Personnel: Al Sturm, John Streets, Bud Rees, Ken Zin, Dan Dusel, Chin Wong, Bill Laumeister.

Booths 556, 557, 558

Booths 571, 572, 573

Microtime, Inc.

1280 Blue Hills Ave., Bloomfield, CT 06002

Exhibiting: T-120 time base corrector and 2100 video image processor; 2525 video signal synchronizer and smart proc amp; 2020 video signal processor; 2520 TBC frame synchronizer.

Personnel: Gilbert R. Kesser, R. Roger Watson, Daniel J. Sofie, Alan Kartes, Gary Armour, Gene Sarra, Robert Wickland, Norman Pinette.

Booth 634

Miller Professional Equipment, Inc.

10816 Burbank Blvd., N. Hollywood, CA 91601

Exhibiting: Fluid heads and ball leveling top tripods, camera support equipment.

Personnel: Vince Pincetich, Eva Pincetich, Maria Pincetich, Joseph Pincetich.

Booth 627

Millimeter Magazine

12 East 46th St., New York, NY 10017

Exhibiting: Millimeter Magazine.

Personnel: Peter Jablon, Kevin Condon, Alice Wolf, Robert Rivlin, Lillian Spina, Linda Trefz, Ed Monk, Stan Kreshower, Linda Adrain, Patrick Ferrara, Eleanor Angone.



Mitchell Camera Corp.

11630 Tuxford St., Sun Valley, CA 91352

Exhibiting: Professional motion picture cameras and accessories.

Personnel: H. L. Wittrock, Charles Mallory.

Booth 513



Mole-Richardson Co.

937 N. Sycamore Ave., Hollywood, CA 90038

Exhibiting: New 600-W Tweenic Mole Solarspot. New Mole Focal-Spot for 1000-W Baby Solar Spot. New 6000-W Molequartz Super-Cyc Light, 4 circuit. 5400-W Molequartz Nine-Light Molecool. One-light and two-light Molecool. 575- 1200- 2500- and 4000-W HMI Solarspots. 1000- 2000- 5000- and 10,000-W Baby Solarspots family. 750- 1000- 2000- and 4000-W Molequartz Softlites. Many more of the Molequartz fixtures, lighting kits, grip equipment, hangers and adapters will be on display.

Booths 457, 458, 459, 460

Personnel: Howard R. Bell, Michael Hodgins, Michael Parker, Debbie Parker, Lawrence Mole Parker, Vicki Parker, Michael Martin, Joanne Hodgins, Arleen Bohte, Fred Gemigniani, Glenn Weiner, Nanette Bond, Warren K. Parker, John Robertson, William Krokauger, Robert Gaston, Doris Bell, Dennis Parker, Frank Della Ripa.



Multi-Track Magnetics

3 Industrial Ave., Upper Saddle River, NJ 07458

Exhibiting: Computer-operated Automatic Dialogue Replacement (ADR) system, high speed 5500 series DC servo drive film recorders and reproducers. 'New' ST-35-E/DCS high speed DC servo 35mm studio projector with electronic intermittent, "New" high speed PH-16/DCS 16mm, holoscope projector with DC servo drive and 2000 watt Xenon. MTM offers a complete line of film sound recording, reproducing and projection equipment. In addition, MTM will be unveiling their newest developments as well as their newly designed SETC-III — Shaft Encode/SMPTE time code generator.

Personnel: Stephen Talian, Nancy C. Salvatore, Franklin Bishop, Saul Fermaglich, Tom Sokira, Michael Gaeta, Tom Manuel, Bruce Scott, Bub Dennett, Vincent Mosdar.

Booths 466, 467, 468, 469

Booth 465

Nagra Magnetic Recorders, Inc.

19 W. 44th St., New York, NY 10036

Exhibiting: Nagra 4-2L, Nagra SNN — Nagra Stereo Synchronizers, Recorders.

Personnel: Dom Notto, Manfred Klemme, Danny Grimes, Gerald Kearns, J. J. Broccard, Steve Cook.



NEC America, Inc. (Broadcast Div.)

130 Martin Lane, Elk Grove Village, IL 60007

Exhibiting: NEC's DME Digital Mix Effects System featuring full range of compression, expansion and positioning capabilities with exclusive Posterization, Mosaic and Multi-Freeze effects. FS-16 Frame Synchronizer, full frame synchronization, processing amplifier control 9-bit, 4 tsc sampling. MNC-81A Field Production ENG camera.

Personnel: Dennis Fraser, Bob Curwin, Rick Dienhart, M. Mitsui, Ken Bylsma, Rick Segil, Marty Jackson, Don Bodish, John Nutting, Shirley Jackson, Gerri Bodish, Frank Yurasek, M. Imai, M. Tajima, S. Ishii.

Booths 508, 509, 510

Booth 624

NL Film Products

516 N. Larchmont Blvd., Los Angeles, CA 90004

Exhibiting: The Flatbed — a new concept in horizontal editing and laboratory viewing equipment. Uses 2 to 8 plates with up to 4-picture or magnetic sound head combination. Bright 10-in. viewer for use as a projector. Various interchangeable 16mm and or 35mm formats. View originals, CRI's internegatives. Will accept damaged film, masking tape, or bad splices. Screen up to 4-optical release prints in interlock.

Personnel: J. Lampert Levy, Lois Levy, Dwight Anderson.



Introducing

a showbiz family that maintains its ratings for life.

Sylvania Brite-Arc™ studio lamps are taking center stage for their long-running performance in film, theatrical and television applications. They maintain daylight color temperature throughout their rated life.

And they perform with high efficiency, too. Up to 92 Lumens/watt. That's about

four times the efficiency of standard incandescent or tungsten halogen lamps.

A medium-arc-length light source, Brite-Arc lamps come in 575, 1200, 2500 and 4000 watt ratings. They're designed for follow-spot, broad and Fresnel applications. Because of cooler operating temperatures, Brite-Arc saves costly en-

ergy used to run cooling equipment. And high light output per lamp means fewer fixtures are required.

For full information on Brite-Arc lamps or any other member of our full line of studio lamps, write or call Sylvania Lighting Center, Danvers, MA 01923. Phone: 617-777-1900 Extension 2650.

SYLVANIA

Industrial/Commercial
Lighting

GTE

Booths 476, 477

Nurad, Inc.

2165 Druid Park Dr., Baltimore, MD 21211

Exhibiting: Equipment for microwave television/ENG/EJ/EFP including Airborne TV systems. Mini Pod™, Minipac™, Copter Pod™, Superquad™ and Supertrack™.

Personnel: Les Lear, Steve Neuberth, Vince Rocco, Fred Hock.



Booths 455, 456

O'Connor Engineering Labs., Inc.

100 Kalmus Dr., Costa Mesa, CA 92626

Exhibiting: Complete line of O'Connor fluid camera heads (model 30-B, model 50-D, model 100-C and model 150) and wooden tripods and featuring the O'Connor model 102-B Hydro-Ped and accessories.

Personnel: Chadwell O'Connor, Tamara Geist, Jon L. Loeffert, Debbie Thompson, Jeff Geist.



Booths 485, 486, 487, 488

Oldelft/KLM Associates, Inc.

5161 River Rd., Bldg. 20, Bethesda, MD 20016

Exhibiting: Cinemonta editing consoles with crown optics, sound pitch corrector and electronic counter. Machine will be in 4- 6- and 8-plate models 16mm and 35mm.

Personnel: Martin Ten Wolde, Bill Kras, Desmond McElroy, Mae McElroy, Milton Schoch.



Booths 106, 107, 108, 109

Orrox/CMX

3303 Scott Blvd., Santa Clara, CA 95050

Exhibiting: Computer-assisted film and videotape post production systems.

Personnel: Bill Orr, Al Behr, Jack Behr, Murray Bevit, Darrel Vincent, Don Reynolds, Jerry Fontenot, Gary Youngs.



Booth 555

OSRAM Sales Corp.

R.D. #3, Jeanne Dr., P.O.B. 7062, Newburgh, NY 12550

Exhibiting: OSRAM Academy Award winning HMI and introducing an exciting new line of studio tungsten halogen lamps (3200 K) in the OSRAM tradition of high quality.

Personnel: Keith Gillum, Larry Carr, Jim Malicki, Russell Liddell.



Booth 129

Oxberry Div. of Richmark Camera Services, Inc.

180 Broad St., Carlstadt, NJ 07072

Exhibiting: Animation and optical printing equipment.

Personnel: Richard McCarthy, Mark Ackerman, Alfred I. Thumin, Jim Aneshansley.

Booth 576

Pace International Corp.

3727 So. Robertson Blvd., Culver City, CA 90230

Exhibiting: Water recycling and regeneration equipment; laboratory bacteria control supplies; water test units for chlorine and pH residuals and water hardness.

Personnel: Robert T. Kreiman, John J. Hewitt, Shirley G. Kreiman, Melvin Hunt, Fred H. Detmers, Leo Vlach.

Booths 230, 231, 232, 233, 234, 235, 236, 237

Panasonic

One Panasonic Way, Secaucus, NJ 07094

Exhibiting: Broadcast quality video cameras and recorders. Professional 3/4-in. editing systems. Color video monitors. Console systems.

Personnel: Paul Bona, Bob Karadizian, Jim McGinnis, John Rose, Morris Washington.



Booths 511, 512

Peterson Enterprises, Inc.

1840 Pickwick Ave., Glenview, IL 60025



Philips (see Central Dynamics Corp. listing)



Booth 626

Pioneer Marketing Corp.

7702-4 Balboa Blvd., Van Nuys, CA 91406

Exhibiting: Video animation stand, Pioneer cine model 4400 animation stand, Pioneer cine model 7600 aerial image optical printer, telecine projector.

Personnel: Donald E. Stults, Rick Trebes.



Booths 497, 498, 499

PRC of America

7165 Willoughby Ave., Hollywood, CA 90046

Exhibiting: Plio-Magic film shipping cases, cans and reels. Cores, processing rollers, bushings and bearings. Film and video editorial supplies.

Personnel: Vince Carabello, Frank Giglio, Robert A. Miller, Pat Baccarella, Milt Blutter, Carole Pinker, Heinz Ernst, Jack Stewart.



Booths 407, 408, 409

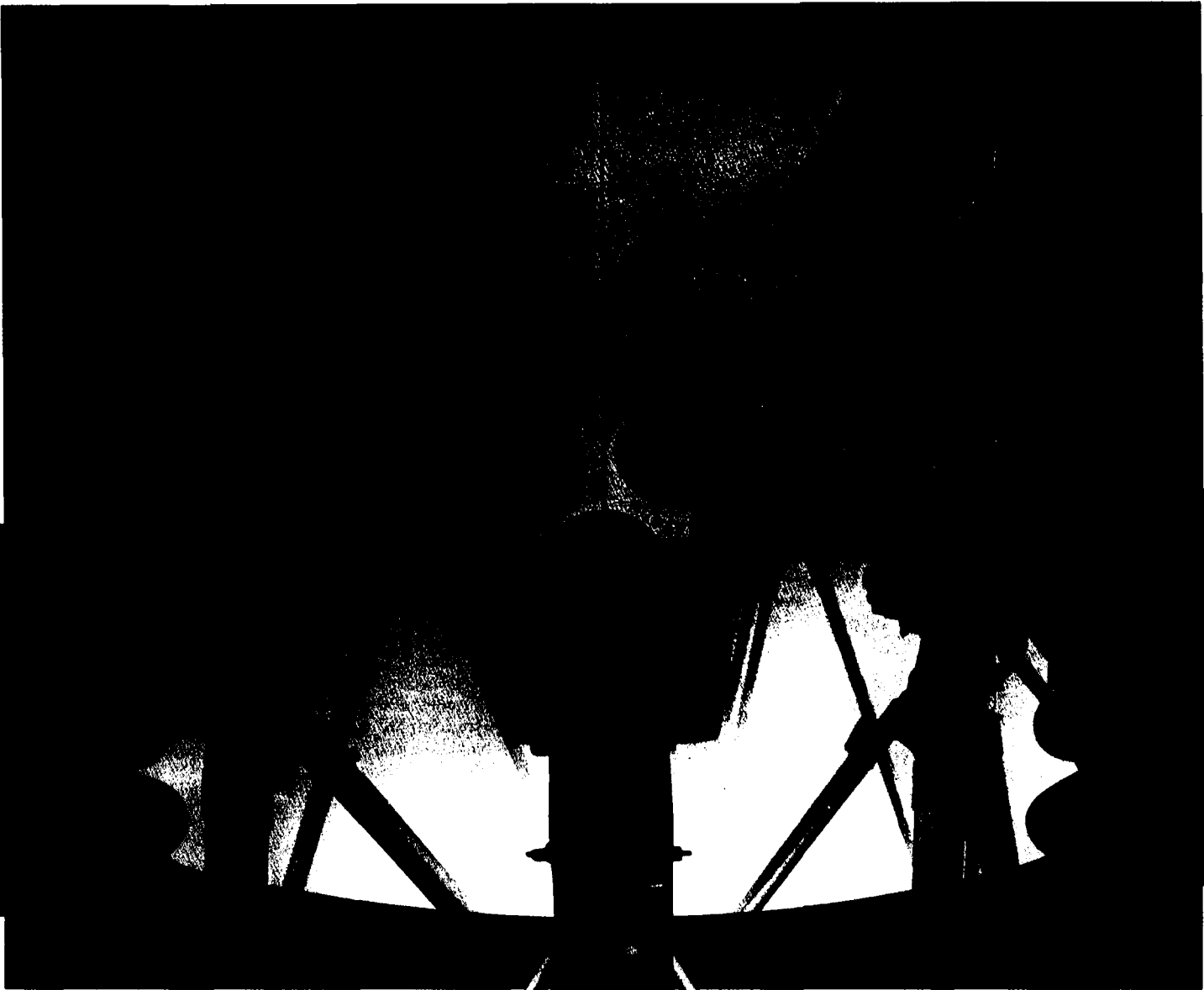
Rank Precision Industries

260 North Route 303, W. Nyack, NY 10994

Exhibiting: Range of Cooke zoom lenses for professional 16mm and 35mm cinematography. MK 3B Flying Spot Telecine with NTSC/PAL dual capability, X-Y zoom plotter, Topsy, Vidigrade color corrector.

Personnel: Kish Sadhvani, Brian Newman, B. Oyen, N. Kempt, F. Bundesmann, J. Campbell, D. Corbitt, S. Fell, J. Etheridge, C. Waldron, A. McIlwaine, J. Rodgers.

Compare



JVC's Professional Video Dealers want you to compare the newest member of the KY family of 3-tube color cameras to any other camera you may be thinking of... and to others you may have eliminated because of their high prices.

COMPARE PERFORMANCE:

The KY-2700 holds registration specs to a tight 0.1, 0.2, and 0.4%, for crisp clean pictures. That's stability!

The KY-2700 has dual-edged vertical and horizontal contour correction for the detail and sharpness you require, 500 lines resolution, and for virtually noise-free video, 54db signal to noise. That's performance!

COMPARE FEATURES:

A fast, 14:1 Servo zoom lens, Automatic Beam Control (ABC), Automatic White Balance with memory, Automatic Black Stabilizer circuit (ABS), a low 18 watt power consumption for extended battery operation, "Instant On"

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The new KY-2700



performance. And much more. That's a lot.

COMPARE VALUE:

No other professional 3-tube color camera can match these specifications at a price even near the KY-2700.

That's a pleasure.

Compare it at your JVC Professional Video Dealer NOW!

For more information,

call toll-free 800-821-7700, Ext. 7005.

(in Missouri, 800-892-7655, Ext. 7005.)

Or write US JVC Corp., Dept. SMPTE 9/81
41 Slater Drive, Elmwood Park, NJ 07407.

Available in Canada from JVC
Canada, Inc., Ontario.

**Your choice.
Now. JVC®**
US JVC CORP.

**RCA Broadcast Systems**

Front and Cooper Sts., Camden, NJ 08102

Exhibiting: Telecine equipment and broadcast electronic recording systems.**Booth 116****R-Columbia Products Co., Inc.**

2008 St. Johns Ave., Highland Park, IL 60035

Exhibiting: Wireless intercom headphones—self-powered intercom headphones—base station to interface wireless intercom headphones to existing hard-wired systems.*Personnel:* I. Rozak, L. Rozak, S. Rozak, R. Rozak, E. Hill.**Booth 648****Research Technology International**

4700 W. Chase Ave., Lincolnwood, IL 60646

Exhibiting: Complete line of automatic film editing and cleaning machines. Featuring TV-120 broadcast model plus Conescan Previewer with "Quik Trac" speech processor. Also showing VEC videotape evaluator/cleaners for 1/2-in. and 3/4-in. cassettes. Complete line of film handling supplies including splicers and rewinds.*Personnel:* Tom Boyle, Steve Little, Ray Short, Howard Bowen.**Booths 473, 474, 475****Rohde & Schwarz**

14 Gloria Lane, Fairfield, NJ 07006

Exhibiting: Rohde & Schwarz will display the complete line of Barco professional TV monitors featuring both in-line and ultra high resolution CRTs and multi-standard capabilities. Also being shown, will be Barco multi-standard, multi-channel demodulators. The special highlight will be the Barco complex two-line comb filter.*Personnel:* Ulrich L. Rohde, Kristine Perry, Len Dozier, Alan Davis, Doug Kanczuzewski.**Booths 643, 644****Rosco Laboratories, Inc.**

36 Bush Ave., Port Chester, NY 10573

Exhibiting: Largest supplier of color media for special effects and color correction in the television industry. Also will be showing front and rear projection cyc screen.*Personnel:* Stan Miller, Stan Schwartz, Mike Miehenke, Richard Dunham, Jim Meyer.**Booths 639, 640****Sennheiser Electronic Corp.**

10 West 37th St., New York, NY 10018

Exhibiting: Full line of professional microphones, wireless microphones and headphones, including related accessories.**Booth 633****Skotek Corp.**

1445 Provencher Blvd., Brossard, Que., Canada J4W 1Z3

Exhibiting: Portable time code generator-reader with jam sync, film and video rates, color field ID, user bit entry. Digital metro-nome for synchronization of original music to pre-recorded film or video material. Time code readers and generators with capability for color field identification, vertical interval code format, and other features.*Personnel:* Stephen Scott, Tom Montgomery.**Booth 625****Sony Corp. of America**

9 West 57th St., New York, NY 10019

Exhibiting: Broadcast and professional teleproduction products. Video recorders, cameras, editing units, tape and related products.**Booths 301, 302, 303,
304, 305, 306, 307, 316****Soremec Eclair USA, Inc.**

905 N. Cole Ave., Hollywood, CA 90038

Exhibiting: ACL II lightweight self-silent 16mm motion picture camera, equipped binary and clear code including crystal controlled motor speed from 8 to 75f/s, HC 360° viewfinder Led 7-exposure guide, 200- and 400-ft. coaxial snap-on magazines. NPR camera equipped video viewfinder. SFAT editing recording mixing compact transportable studios 16mm and Super 8mm. FTG fluidheads, tripods, and accessories.**Booths 448, 449***Personnel:* Regis LaDerriere, Dieter Scheafer, Nancy Shazri.**Steenbeck, Inc.**

9045 Eton Ave., Suite A, Canoga Park, CA 91304

Exhibiting: Steenbeck, Inc. will be exhibiting a complete line of film editing consoles including the new ST-6001C combination 16/35 and ST-721C two picture 35mm. All units equipped with new Z5000 Universal counter. A film-to-tape transfer console and the ST-1 film recorder will also be shown.**Booths 410, 411, 412,
413, 414***Personnel:* Mrs. H. McCall, R. McCall, W. Bass, W. Otto, K. Dommel, C. Macaulay, D. Macaulay, W. Engstler, Jerry Miller, Ted Diamond.**Strand Century, Inc.**

5432 W. 102nd St., Los Angeles, CA 90045

Exhibiting: Complete line of studio and location lighting and dimming control equipment. Featuring Ianiro HMI and Bambino fresnelites. Pulsar 30V/120V fiberglass units, lanebeam kits. Mantrix/CD80 pack portable dimming system.**Booths 430, 431, 463, 464***Personnel:* Marvin Altman, Mario DeSisti, Brian Edney, Bill Liento, Robert Schiller, Frank Marsico, Leonard Wittman, Bob Dente, Archie Fletcher, Mark Bauserman, Susan Dandridge.

DATAMETRICS TOOK THE TIME TO LISTEN TO YOUR TIME CODE NEEDS

TIME

AFTER TIME.

AFTER TIME.

AFTER TIME.

Nobody knows better than production engineers how important equipment flexibility is in the efficient use of SMPTE Time Code. So Datametrics listened to engineers, and designed a comprehensive line of time code equipment to meet every need.

Rugged portable code readers. Highly legible displays. Low-profile readers and generators. Even comprehensive systems that incorporate complete generate, read and video display capabilities in one compact case. Datametrics has the package you need, but that's only the beginning.

Even our most cost-effective units incorporate features you'd expect to find on higher priced models.

For example, Datametrics' lowest cost studio code reader offers video insertion capabilities for monitor viewing and code burn-in to work prints. And we added options that offer even greater flexibility ... at lower cost.

But we didn't stop there. Datametrics leads the industry in innovative features that greatly extend the potential of time code. Our newest code reader offers automatic segment duration calculation. Video titling capabilities. And it decodes and displays Time and User data ... simultaneously.

Contact Datametrics. From basic time code management to the most technically advanced

computer-compatible systems, we make time code work to your advantage. Time after time after time.

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Booths 453, 454

Sylvania Lighting Products/GTE
Sylvania Lighting Center, Danvers, MA 01923

Exhibiting: Incandescent, tungsten halogen, and Sylvania Brite-Arc lamps for studio, stage, theatre and motion picture and television lighting.

Personnel: Robin Witt, Dave Scioli, Mike Skerry, Tom Holland, Sally Hammer, Paul Abrams.



**Booths 530, 531,
532, 533**

System Concepts, Inc.
2440 S. Progress Dr., Salt Lake City, UT 84119

Exhibiting: Quantafont microcomputer based, software intensive teleproduction graphic titlers. Models: Q-6/M mass memory information display system; Q-7A studio titler; Q-8 font loadable studio titler; QST automatic subtitling system with EBU/SMPTE time code interface.

Personnel: Ray Unrath, Roy Romijn, Gene Leonard, Hale Pickering, Gordon Hofhine.



Booths 124, 125, 126

Tektronix, Inc.
P.O. Box 1700, Beaverton, OR 97075

Exhibiting: Tektronix will exhibit 690SR 19-in. color picture monitor with comb filter decoder, 1900 digital generator, 2200 series portable oscilloscopes, 1980 ANSWER with NTSC transmitter monitoring software.

Personnel: Larry Kaplan, Joe Hallett, Larry Harrington, Mark Gray, Bill Montgomery, Dunc Doane, Marshall Pryor, Linda Sample, Warren Beals, Stuart Fox.

Booths 521, 522

Tele-Cine, Inc.
5434 Merrick Rd., Massapequa, NY 11758

Exhibiting: Schneider TV zoom lenses (ENG, EFP, studio field) large lens adaptors for 2/3-in. cameras. New diascope lenses for automatic cameras and new lightweight ENG lenses for 2/3- and 1/2-in. cameras. Rentals and service available. Schneider taking, enlarging, CCTV, AV and theatre projection lenses.

Personnel: Robert Jones, Donald R. Collins, Gunther Hess, Dave Paskin, Dwight Lindsay.



Booth 568

Teledyne Camera Systems
131 N. 5th Ave., Arcadia, CA 91006

Exhibiting: The new Sideline camera. 16mm high speed (24-300 F.P.S.) portable reflex camera, using standard 35mm camera lenses. 12 VDC operation.

Personnel: Roc Deterville, Dermot Mathews, Cliff Redd.

Booth 638

Telescript, Inc.
20 Insley St., Demarest, NJ 07627

Exhibiting: Telescript, a complete design/manufacturing company, will exhibit lightweight 15- and 17-in. 1000 line monitor prompters; precision script transports, the Telecue and Telescriptor. Portable 12V Prompting system. Contrast enhance for outside prompting. The Teledigital electronic prompting system. Text processing for script preparation, storage, display and control.

Personnel: Rick Crommett, Kay Hyde, Tom Jackson, Bill Muster, Bob Perry, Jim Strong, Bob Swanson.

Booths 501, 502, 503

Television Equipment Associates
Box 260, S. Salem, NY 10590

Exhibiting: Elcon tape cleaner/evaluators for 2-, 1-, and 3/4-in. tape; Racial acoustics headsets for broadcasting and intercom; BCA intercom and interphone systems and wireless IFB cueing; Avitel video distribution amplifiers; Drake audio distribution amplifiers; Seiwa dual monitor receivers for field ENG; Matthey video and pulse delays, video filters.

Personnel: Bill Pegler, Chuck Michel, Bill Walters, Dick Campbell.



**Booths 489, 490, 491
492, 493, 494**

3M
3M Center, St. Paul, MN 55144

Exhibiting: Photogard is a unique coating system that applies an optically clear protective coating to processed release positive or negative film. Photogard coated films feature extremely high resistance to abrasion, static electricity, fingerprints, and most solvents. These characteristics result in significant improvements in both projection and printing.

Personnel: John Lupo, Kurt Wulliman.

Booths 523, 524

Thomson-CSF Broadcast, Inc.
37 Brownhouse Rd., Stamford, CT 06902

Exhibiting: Signalmax 9150 — combines digital noise reduction system with image enhancement and manual color correction systems for the ultimate in post-production control. Vidifont Graphics V — graphics generator.

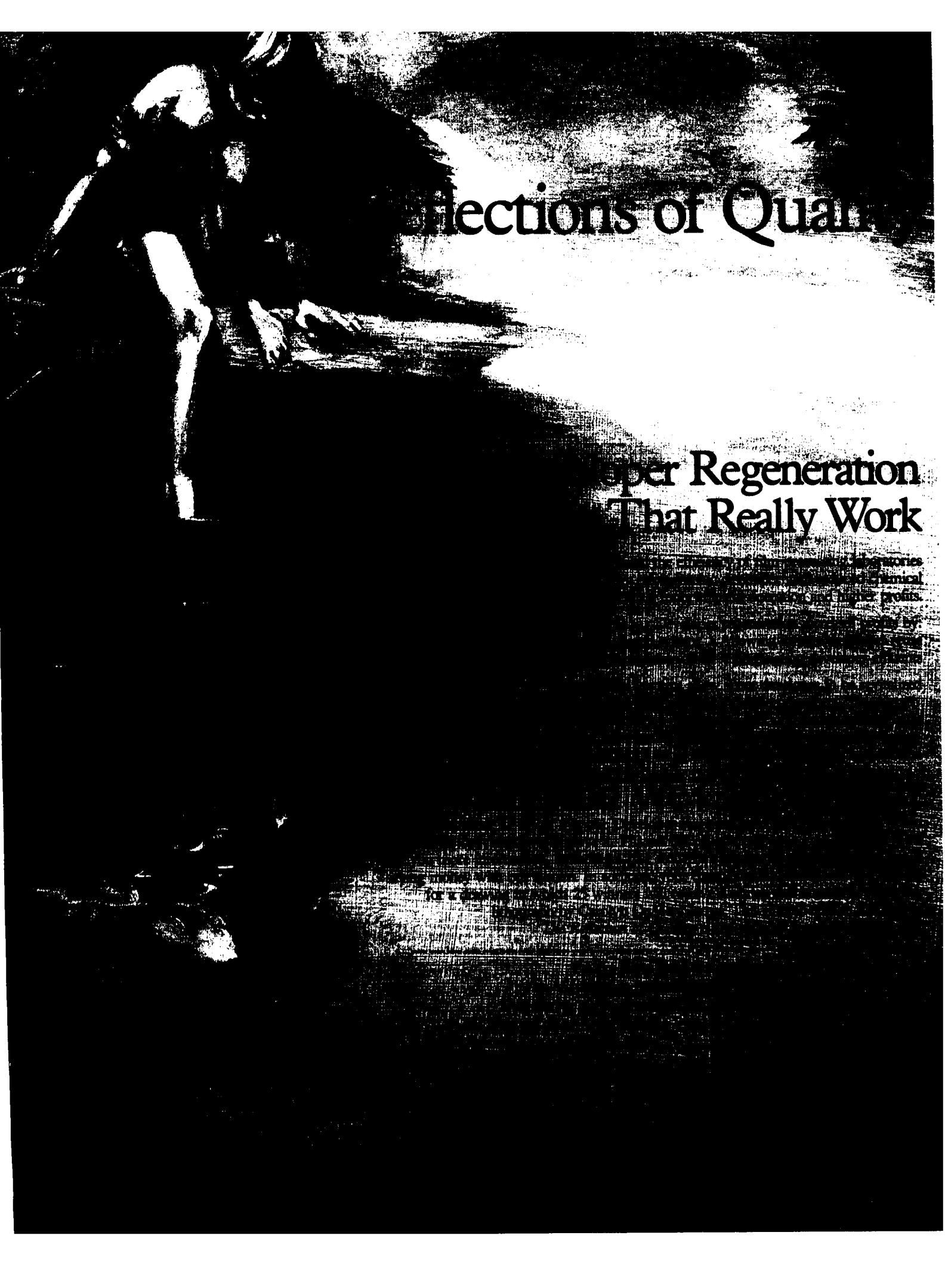
Personnel: Mike Clayton, Tom Callahan, Tom Hindle, Abbey Miller, Terry Brown, Steve Kreinik, Richard Sanford, Ben Van Benthem.



Booths 478, 479

Toshiba America, Inc.
292 Gibraltar Dr., Sunnyvale, CA 94086

Exhibiting: The Toshiba PK-60, the world's smallest and lightest (9.2 lbs.) broadcast color camera, is ideally suited for a variety of remote broadcast situations because of its innovative digital and analog circuitry. In its digital configuration, the PK-60 features a separate digital memory (Digital Data Loc™), and automatic



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...chemical
...profits.

setup unit and a digital base station. In addition to the digital system, the PK-60 is available in analog and Triax wireless remote systems.

Personnel: Ron Fried, Joy Wenzlaff, Dave Seedall, Bub Schneider.

Booth 649

Unidek

Route 1, Box 113, Sterling, VA 22170

Exhibiting: American-made 16mm 8-plate dual picture film editing systems. Interchangeable modular components eliminate maintenance and down time. Heavy duty quality construction. Safe handling of film. Unidek editing systems incorporate full professional editing features at substantial price advantages. Low cost leasing plan available. Distributors in major film areas and Canada.

Personnel: Bruce Adkins, Rebecca Elston, Ray Fincke, Andy Meyerson, Frank Minicucci, Lou Vadino.



Booths 635, 636

Union Connector Co., Inc.

149 Babylon Tpk., Roosevelt, NY 11575

Exhibiting: The only distribution systems UL listed and OSHA acceptable for indoor and outdoor use. Single and three phase 600 amps (72000 V amps). Will service lamps from 1W to 10W. Power plugs and connectors 100, 125, 150 amps, 4 pole/5 wire grounding.

Personnel: R. W. Wolpert, C. M. Wolpert, J. Kalbfeld.

Booths 630, 631, 632

Videomedia, Inc.

250 N. Wolfe Rd., Sunnyvale, CA 94086

Exhibiting: Z6000D — low cost AB roll editing system with distributed intelligence. KR6000 high resolution character generator with downstream keyer/colorizer and fade to and from black. VP6000 — high resolution video printer. Produces full color prints or slides from any video picture.

Personnel: Bill Stickney, Dick Dorsa, Hank Wilks, Nick Adams, Ken Royer, Jim Thibodeaux.

Booths 559, 560, 561

Vital Industries, Inc.

3700 N.E. 53rd Ave., Gainesville, FL 32601

Exhibiting: The Saturn series production switcher. Available with one, two, three, or four complete M/E systems, the Saturn is

completely microprocessor based, offering unprecedented versatility for production operations. The 250 P/N is an economical and versatile production switcher providing automation and preview capabilities unique to a switcher its size. It is totally self-contained, 12V powered, easy to operate and economical to maintain. The incredible Squeezoom® with new optical effects. Features video expansion and compression, 123 preprogrammed patterns, chromakey tracking, flip and tumble, posterization, mosaic and much, much more, all in easy-to-operate control console.

Personnel: Christopher S. Donoyan, Jim Moneyhun, Gordon Peters, Jim Romeo, Barry Enders, Morrell Beavers.



Booths 417, 418

Westrex

2629 W. Olive Ave., Burbank, CA 91505

Exhibiting: Westrex model 9235 photographic two-track recording system for SVA or dual language; ST6100 type high speed dubbing system with automatic controls and interface capability; RA-1558C type giant light bar meters for the dubbing theatre; RA-1717 cross-mod analyzer; RA-1718 and RA-1719 cross-mod reader and generator.

Personnel: Frank E. Pontius, Ron L. Bennett, Raul D. Colvin, Simon Daniel, Rob LaViolette.



Booth 419

Wide Range Electronics Corp.

2119 Schuetz Rd., St. Louis, MO 63141

Exhibiting: Model 690 optical recorder; model XR-4000-F 16/35 recorder; model XD2000-FF 16/35 dual dubber; model UD-400-3A counter; model 9205A-110 degausser; model TCR-114 SMPTE time code reader and display; model TCG-112 SMPTE time code generator and display; model TCS-110 SMPTE time code synchronizer including 6802 microprocessor.

Personnel: Bruce Scott, Charles Fox, Otto Rauhut.

Booth 646

Zellan Enterprises, Ltd.

250 West 57th St., New York, NY 10019

Exhibiting: AATON Camera and support equipment. Sales, rental and service.

Personnel: Les Zellan, Guy Genin, Barbara Lowry.

See floor plan on page 828

