

Industry News & Educational Activities

Film '77, this year's repeat of the international film and television conference held biennially by the British Kinematograph, Sound and Television Society, had a most successful run 10-16 July at the Grosvenor House Hotel in London. Always a cosmopolitan meeting, this one too was attended by delegates from every continent.

The technical program covered a wide range and included quite a few papers from the U.S., among them "The DuArt Frame Count Cueing System," by Irwin Young and Paul Kaufman, Du Art Film Laboratories, Inc.; "The Development of Wet Printing Systems," by W. D. Carter, Carter Equipment Co.; "The ABC-Photomec Custom Film Processor," by Gideon Fiat and Isaac Hersly, ABC-NY; "The Application of Microprocessors for Large Negative-Loop Printing Systems," by M. G. Michelson, Technicolor, Inc.; "The New Cinema Products GSMO Camera," by Ed DiGiulio, Cinema Products; "The Hollogon Skanner™ — A Rotary Reflective Polygon (Image Immobilizer)," by Ulrich M. Fritzler, Hollogon Optical Systems Corp.; and "Inflight Movies," by Derrick O'Connor, Inflight.

There was a great deal of interest in the opening address on the first day of the conference, given by Sir Charles Curran, Director General of the BBC. So much is being said and written about electronic picture generation (he said) that film might be thought to be becoming obsolete. The world's television services consumed very much more film than the motion-picture industry, and though television engineers are always looking for quicker and more effective production methods, there is little probability that their consumption of film will be diminished. He proceeded to discuss the efforts being made in both the electronics and film areas to meet the demands of the rapidly advancing technology.

Another highlight was a paper by David Sa-

muelson, Samuelson Film Services Ltd., entitled "An Illustrated Survey of New Production Techniques." This covered new methods, equipment and ideas in lighting, camera work, optics, sound and video and electronic aids, illustrated by screened examples or practical demonstrations.

Both Sir Charles and Mr. Samuelson have agreed to make similar presentations at the 119th SMPTE Conference in Los Angeles.

SMPTE was well represented at Film '77. President Bill Hedden, Past President Ken Mason, Executive Vice-President Bob Smith, Engineering Vice-President Rollie Zavada, Conference Vice-President Harry Teitelbaum, Sections Vice-President Herb Pilzer, and Governors Ed DiGiulio, John Ehrenberg, Bob Gale, Frank McGeary, Fred Scobey, Al Williams and Irwin Young headed a group that must have amounted to some 50-60 SMPTE members from the U.S.

As usual, the social side of the meeting was not neglected. Official social events included a reception by the Rank Organisation; another for foreign delegates held in the Guildhall crypt, where guests were greeted by the Lord Mayor of London; a Night Club Evening with dancing; and the Banquet, for which the guest speaker was Former Prime Minister Harold Wilson. In addition, Bill Hedden, Rollie Zavada and Denis Courtney were present at the annual BKSTS Fellows' Luncheon, where Rollie was awarded a BKSTS Fellowship and President Hedden presented Dennis Kimbley, President of the BKSTS, with an inscribed gavel in token of the friendship between our two Societies.

Wives of American SMPTE members had a most interesting week of tours and visits in London and its surroundings, including Knole in Kent (a great house, 16th century and earlier), Windsor Castle, and a boat trip on the Thames.



Albert A. Conte
SMPTE Television Engineer

Albert A. Conte has joined the staff of the Society of Motion Picture and Television Engineers as Television Engineer assisting Alex E. Alden, Manager of Engineering Services. Conte is well qualified for the responsibilities of his new post, his previous experience having included four years with CBS in New York and a number of short-term engineering assignments as sub-contractor with various prestigious firms.

His most recent post was that of Television Engineer for the Board of Cooperative Educational Services (BOCES) where he had the full responsibility for the operation and maintenance of closed-circuit systems and studio facilities in the component school districts. Two or three evenings a week as a project of his own under the auspices of the BOCES he taught adult education courses in Electronics, Radio and TV.

Conte was born in Ponza, Italy, in 1933 and came to the United States with his family when he was four years old. He received a degree in Electrical Technology from New York Community College in June 1953, and in December 1953 he joined the U.S. Army and was assigned to Germany as Radio Station Attendant, Specialist, 4th Class. He received an Honorable Discharge in November 1955 and after visiting his native Ponza he returned to the United States. Later he matriculated in New York University and received the degree of Bachelor of Science in Electrical Engineering in 1965.

At SMPTE Headquarters he will provide TV engineering expertise and will act as technical liaison among television engineering committees.

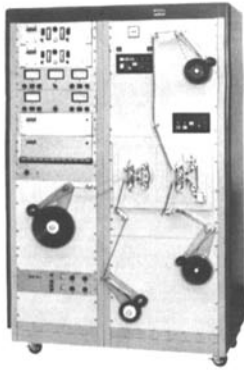


BKSTS President Dennis Kimbley receiving a gavel from SMPTE President **W. D. Hedden** at the BKSTS Fellows Luncheon.

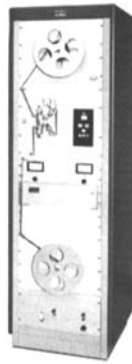


Roland J. Zavada, SMPTE Engineering Vice-President accepting his award as a Fellow of the BKSTS from President Kimbley.

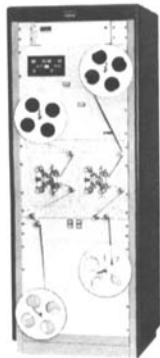
WRE SERVES THE WORLD WITH QUALITY MAGNETIC AND OPTICAL SOUND SYSTEMS



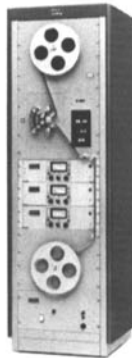
SUPER 8 TRANSFER SYSTEMS



**SUPER 8 SOUND QUALITY
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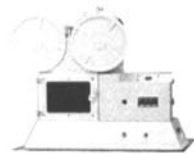
DUAL DUBBERS



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RECORDER SYSTEMS**



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COMPLETE MAGNETIC RECORDERS & REPRODUCERS AND OPTICAL SOUND RECORDER SYSTEMS

- Standard WRE dubbars 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.

- As a companion to the Super 8 Transfer System, the Super 8 Sound Quality Monitor System is a dedicated unit for audio and meter monitoring of sound transfers before slitting. Single strand to Quad Rank 35.

WRE also produces transfer units designed specifically for the S-8 and 16mm single system user.

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.

Write for complete information on these products.

INTERNATIONAL REPRESENTATIVES

Hoel Sangyo Co., Ltd.—Nihonbashi Bldg., 4,
Kobunacho 2-Chome, Nihonbashi, CHUO-KU, Tokyo 103, Japan
G.T.C. Film-und Fernseh—Studiotechnik GmbH,
207 Ahrensburg, Rosenweg 7a, West Germany
Alex L. Clark, Ltd.—30 Dorchester Avenue,
Toronto, Ontario Canada M8Z 4W6

EASTMAN

5247 FILM

EASTMAN COLOR NEGATIVE II FILM 5247

*Recently we asked
some motion picture
industry leaders who
had used Eastman*

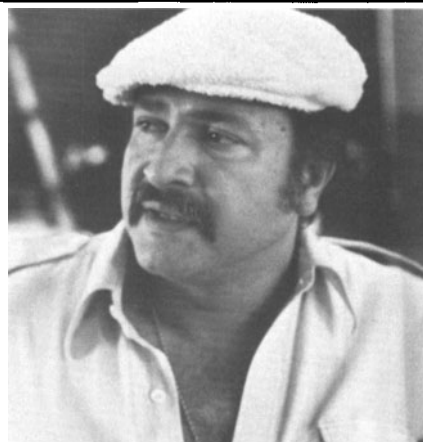
*color negative II film
5247 to tell us some of
their experiences with
it. What they had to
say should interest
anyone who has ever*

*had to establish a pro-
duction budget—or
live with one.*



Lester Shorr, A.S.C.:

I was the first to use the modified 5247 on a TV series (Laverne and Shirley). The difference? Lower degree of contrast, better color rendition, better reproduction of colors, more flexibility in use. I've reduced the light level on the set by twenty-five percent. We save energy by reducing the amount of lumens and this saves money for the company. When we reduce the light, we reduce the heat. This has a tendency to make both the audience and the performers more comfortable. And allows the actors to give a better performance.



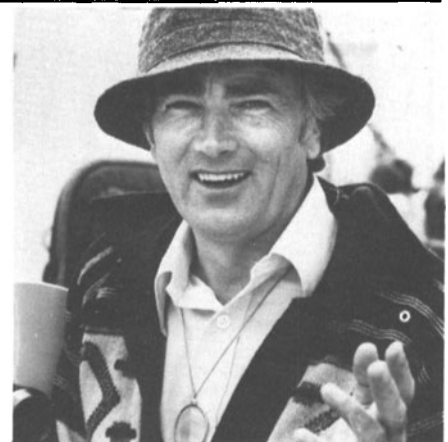
John A. Alonzo, A.S.C.:

The impact of Eastman 5247?

Primarily the impact is economic. It gives the producer a time and money-saving tool!

In the Rastar production of "CASEY'S SHADOW" we used fewer heavy units for lighting. Not only did that cut down the budget for the producer, but the actors felt more comfortable, less aware of the lighting. The arc light does a lot more than it used to. It can be backed off, and because the film requires less light you get a larger coverage from that one single arc. We finished the film about seven days ahead of schedule and the electrical budget was probably about 15% or less than what it normally would have been.

Yes, the impact of 5247 is a significant one to our industry.



Bill Butler, A.S.C.:

When you push 5247 to ASA 400, you're getting very close to what the eye sees. Then you can photograph something as it is naturally without faking it. Then each light can be used for an artistic purpose rather than just to get the necessary exposure. Economics are also involved. I'm never unaware of the fact that a producer would like to get a film shot in a hurry. It's dollars whenever you're standing out there with a camera. If you have a film that needs less light, it's an economic saving to use that film if it means you have to put up less lights. Eastman 5247 film is exceptional.

If you would like more information about Eastman color negative II film 5247, ask your own questions of your Kodak sales and engineering representative, or write: Eastman Kodak Company, Dept. 640, Rochester, New York 14650.

If requested, we will be happy to add your name to the Kodak Professional Forum mailing list.



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right **FUN** to read, written by Professionals
within the Industry.

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A 16mm sound-on-film processing system enabling two different language tracks to be played simultaneously through one 16mm projector while one single sound film is displayed has been developed by Byron Motion Pictures, 65 K St., N.E., Washington, DC 20002. The only 16mm projector capable of playing the dual track currently available is the Elmo 16mm stereophonic sound projector manufactured by Elmo of Japan. Using this projector an audience comprised of persons speaking two different languages can watch and listen to the same film at the same time. One of the languages can be piped through the standard speaker system while the other is passed through earphones or both can be played through separate earphones. According to the spokesman for Byron Motion Pictures, a major projector manufacturer in the United States is currently working on plans for an inexpensive bilingual adapter for existing single-track 16mm projectors. The announcement noted that dual-language prints can be produced for about the same cost as single-language prints.

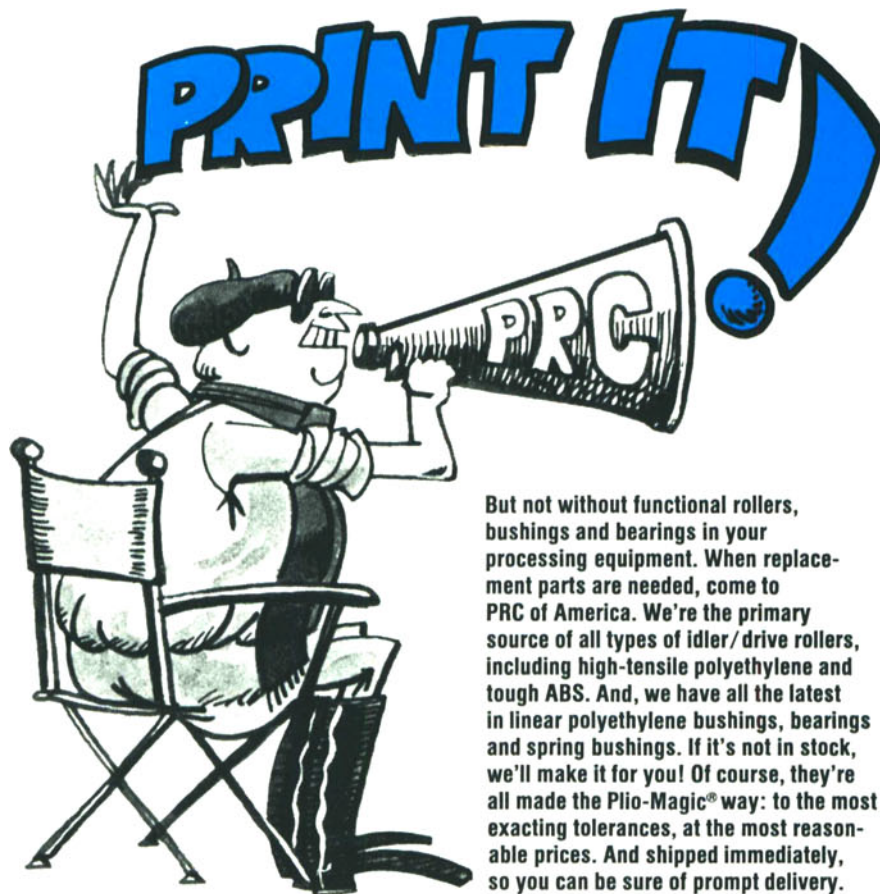
The audiovisual events clearinghouse, a new telephone service, has been announced by Hope Reports, 919 South Winton Rd., Rochester, NY 14618. The service is intended to avoid conflicting and overlapping conferences and conventions. Hope Reports publishes a master calendar of major national and international events. Tentative dates for events are listed so that organizations can avoid a direct conflict when planning an important conference. A planning calendar is maintained to 1982, the announcement stated. Heads of organizations may call Hope Reports before making the final commitment for a national meeting so that they can avoid overlaps. There is no fee for this telephone service. The Hope Clearinghouse number is (716) 244-6630.

Audiovisual product sales and services bounced back in 1976 after a weak showing in 1975, according to the *Hope Reports Quarterly* published by Hope Reports, 919 South Winton Rd., Rochester, NY 14618. Gross income from sales of products, sponsored productions, film rental and dealer services came to \$2.21 billion in 1976 compared to \$1.98 billion in 1975.

In terms of units the greatest gain was in sales of super-8 sound projectors up 48%, reaching 53,800 projectors from 36,400 the previous year. Sales of 16mm projectors increased to 79,750 from 67,500 in 1975, an increase of 18%. Sales of videocassette players/recorders were active but not with the vigor of several years ago.

Strongest gain in dollar sales for 1976 was sponsored film, slide, filmstrip and video production, dominated by the heavy output of slide programs. Total sponsored income of \$471.6 million was up 21% over 1975. Weakest segment of the audiovisual industry was that of audiovisual materials, both educational and training software. Total sales for 1976 were estimated at \$372.9 million, down 4% from 1975. Other market segments were up including dealer services up 18.5%; audiovisual equipment, 13.2%; exports, 13%; and film and videotape rental, 7.3%.

The Linsman Film & Tape Productions, 7340 Scottsdale Mall, Scottsdale, AZ 85251, is a new firm founded by William Linsman to produce television commercials and sponsored films for new clients throughout the country as well as for local clients. Linsman was formerly Vice-President and General Manager of Swartwout Productions of Scottsdale.



But not without functional rollers, bushings and bearings in your processing equipment. When replacement parts are needed, come to PRC of America. We're the primary source of all types of idler/drive rollers, including high-tensile polyethylene and tough ABS. And, we have all the latest in linear polyethylene bushings, bearings and spring bushings. If it's not in stock, we'll make it for you! Of course, they're all made the Plio-Magic® way: to the most exacting tolerances, at the most reasonable prices. And shipped immediately, so you can be sure of prompt delivery. PRC also offers color-coordinated reels, cans and cases for film handling.

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Private Television Communications: An Awakening Giant, a report on nonbroadcast television by Judith and Douglas Brush of D/J Brush Associates, has been published by the International Industrial Television Association, 26 South St., New Providence, NJ 07974, and is available from the publishers at a price of \$40 for nonmembers and \$25 for ITVA members. The report predicts that by the end of 1977 more than 46,000 corporate video programs totalling some 15,000 hours will be produced by some 700 business and nonprofit organizations. The book also states that the overall size of the corporate video market has doubled since 1973 and will pass the half-billion-dollar mark in 1977 and at the present rate of increase should reach \$1.6 billion by the end of 1980.

RCA American Communications, Inc., 201 Centennial Ave., Piscataway, NJ 08854, has relocated its San Francisco area central telecommunications office to One Market Plaza, a new twin-towered office building. The new location provides for advanced telecommunications facilities and ready access to new local distribution lines. A ultra-high-performance microwave antenna is installed on a 50-ft specially designed, self-supporting communications tower. From its site on top of the 580-ft high office building, the antenna links the central office with RCA Americom's earth station at Point Reyes on the northern peninsula enclosing San Francisco Bay. The central telecommunications office and the Point Reyes station link the Bay area with the rest of the United States via high-capacity satellites. RCA Americom provides television, private line telephone and high-speed data communications to business, government and the media.

Warner Cable Corp., 75 Rockefeller Plaza, New York, NY 10019, a subsidiary of Warner Communications Inc. has announced a new name and identifying symbol — QUBE — for its new division formed to introduce an interactive communication service for some 100,000 homes in Columbus, Ohio. The two-way service makes it possible for television viewers to participate in a variety of video programs via a home terminal connected to the television set. The home terminal acts as a command post for an on-line computer system. By touching buttons on the terminal subscribers can receive 30 different channels of video and other information, select programs, play interactive games, take tests, register their opinions and participate at home in television programs and events.

Lufthansa German Airlines, 1640 Hempstead Turnpike, East Meadow, NY 11554, has announced a series of special interest tours called Profitours to various cities in Germany. Tour 2096 is intended for persons interested in film, photography, optics and/or precision instruments. The tour, extending from Monday through the following Sunday would include visits to various firms including the ISCO Optische Werke in Göttingen; Ernst Leitz in Wetzlar; Afa Gevaert in München; and other well known manufacturers. The tour would also include various sightseeing excursions. The tours are by arrangement only. In other words, a group desiring such a tour should consult with Lufthansa Airlines with the price of the tour, exact itinerary and other details to be arranged with Lufthansa. Further information is available from Jutta Cremer, Sales Consultant, Lufthansa German Airlines, 680 Fifth Ave., New York, NY 10019.

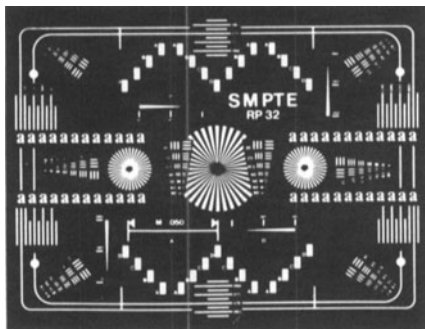
The **Sight and Sound** series of instructional videotape produced by 3M Company's Magnetic Audio/Video Products Division has four new titles, it was announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. The new titles are: Portable Videotape Production Techniques (designed to inform the beginner about the basic techniques of remote production); Preparation of Titles and Artwork for Videotape Production; Audio Techniques for Videotape Production; and Program Formats for Instructional Videotapes. The videotape programs are priced at \$200 each.

A **general price increase** on all videotape products has been announced by John Dale, General Manager of the Magnetic Tape Division, Fuji Photo Film U.S.A., 350 Fifth Ave., New York, NY 10001, who said the price increases are necessary because of sharply increased costs. Among these costs, Dale noted the increased price of raw materials used in the manufacture of magnetic products, higher prices of plastic used in shipping containers, increased labor costs and higher freight costs.

Berkey Colortran, Inc., 1015 Chestnut St., Burbank, CA 91502, has extended its line of Gelatran color filter media to 60 by the addition of 30 new colors, according to a recent announcement. Gelatran colors are composed of through-dyed (as opposed to surface-dyed) DuPont Mylar®. They contain a special ultraviolet inhibitor allowing them to be used with hot, tungsten halogen fixtures and making them highly resistant to fading. Berkey Colortran manufactures lighting equipment and control systems.

Does Your Super 8 Equipment Run Properly? Find Out With An SMPTE Test Film.

If proper presentation of your Super 8 films is important to you, then your equipment must be in perfect condition. To learn how well your Super 8 system performs, you'll need an SMPTE Test Film.



Frame from SMPTE Super 8mm Registration Test Film.

There are two basic types of test film. The first, for projection performance — picture only, is the **SMPTE 8mm Registration Test Film** (50 or 100 ft). This film has no sound track. Its purpose is to measure and help you adjust the optical and mechanical performance of your projection equipment. The patterns are designed to measure and adjust aperture size and position, jump, weave, travel ghost, lens focus, and film buckling.

The second type is for Super 8 Magnetic Sound. There are four all together, each of which was recorded on full-coat magnetic stock with a Super 8mm .1667-in pitch, and contains a 24-mil record in the edge track position.

The four films now available are:

- 1. Azimuth Alignment Test Film** (50 ft) which is used to align the azimuth position of the recording and reproducing heads on magnetic sound equipment.
- 2. Flutter Test Film** (50 ft) to measure flutter introduced by sound reproducers, contains an original recording with extremely low flutter content.
- 3. Signal Level Test Film** (50 ft) helps measure and balance the power level output from motion picture sound reproducers. The recorded level does not in itself indicate a program level, but provides a reproducible reference from which a recommended program level can be determined.
- 4. Multifrequency Test Film** (100 ft) is used for testing and adjusting motion picture sound reproducers and projectors. It is calibrated, and correction factors are supplied with each film.

SMPTE Test Films provide simple equipment performance checks without the use of expensive, complicated test equipment. The films can be used when adjusting the equipment to determine

when the equipment is again within specifications, and with the sound films, you can tell when the projector and sound system are operating properly.

For further information, please mail the coupon immediately.

Important News! Now SMPTE Super 8 Test Films are available in both 24 frames/sec. and 18 frames/sec.

SMPTE Test Films

Society of Motion Picture and Television Engineers J10
Test Film Dept.
862 Scarsdale Ave.
Scarsdale, NY 10583
Please send me information on:
 Registration Test Film
 Flutter Test Film Azimuth Alignment
 Multifrequency Signal Level
 24 frames/s 18 frames/s

Name _____

Co. or organization _____

Address _____

City _____

State _____ Zip _____

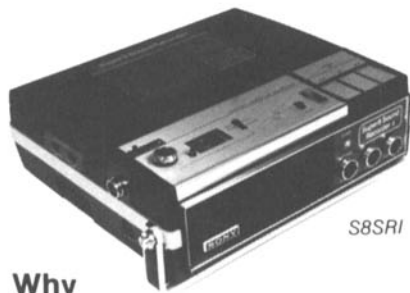
Re-Introducing the Super8 Sound Recorder

In 1973, just six months before Eastman Kodak introduced single-system sound to Super 8, a group of filmmakers, scientists, and engineers in Cambridge, Mass. formed Super8 Sound, Inc. and introduced the Super8 Sound Recorder, the first fullcoat magnetic film recorder for Super 8.

Today Super8 Sound, Inc. is pleased to offer **two** Super8 Sound Recorders.

Super8 Sound Recorder I is an improved version of the world's most widely used Super 8 full-coat magnetic film recorder. It now includes a built-in sync meter and reel extenders are optionally available to provide one hour of running time.

Super8 Sound Recorder II is smaller and lighter than Super8 Sound Recorder I, yet with a metal case, instant start/stop/pause control, and higher fidelity: better signal/noise ratio and frequency response.



S8SRI



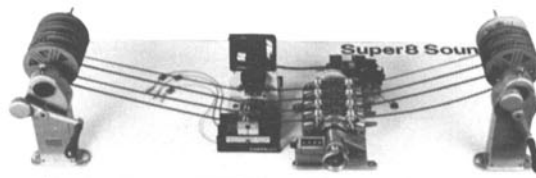
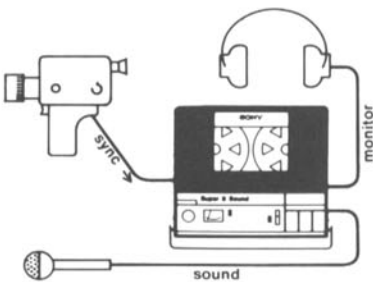
Optional Reel Extenders increase the 19-minute running time of Super8 Sound Recorder I to one hour.

Why You Need a Super8 Sound Recorder

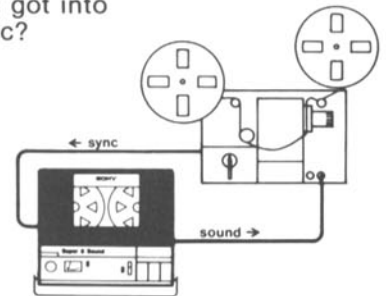
The Super8 Sound Recorder puts into your hands all the capabilities of a 16mm or 35mm film sound studio. You can transfer your own location sound to magnetic film, you can dub your own music and narration tracks, you can cut separate tracks and mix them without the high labor charges of the sound studio engineer, and because you do it yourself you keep direct creative control of your own sound track.

that of comparable 16mm equipment, isn't it time you got into Super 8?

Whether you're just entering filmmaking, or a veteran 16mm filmmaker trying to lower your film stock and equipment costs, you should be working in Super 8. And if you're already using Super 8 as a silent film — isn't it time you got into sync?



Super8 Sound multiple-gang motorized editing benches allow frame-for-frame editing of sound and picture.



Both Super8 Sound Recorders combine all the functions of location recorder, laboratory resolver, sound studio dubber, and transfer recorder for stripe-to-fullcoat, fullcoat-to-stripe, and fullcoat-to-video sync transfers.

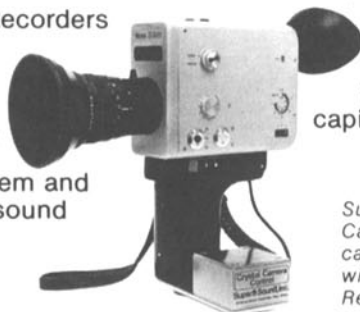
The Super8 Sound Recorders are compatible with all sync sound systems, including crystal and pilotone, and with nearly one hundred double-system and single-system sync sound Super 8 cameras.

Unlike 16mm where optical sound is normally prepared by a laboratory, with Super 8 you can then transfer your finished composite master sound track to the edge stripe of release prints, or to the sound channel of a video tape recorder.

Now that Super 8 offers all the professional techniques of sync sound filmmaking at a capital cost one-fifth

How to Get into Sync

1. **Send us your name.** We'll put you on our mailing list and send you technical brochures on our Super8 Sound Recorders and Editing Benches.
2. **Send us \$3.** We'll send you the User's Manuals for both Super8 Sound Recorders, and our 80-page comprehensive equipment Catalog.



Super8 Sound Crystal Camera Controls provide cableless sync filming with both Super8 Sound Recorders.



S8SRII

From the Super 8 Professionals. . . . **Super8 Sound, Inc.**TM
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The BVH-1000.

Consider the advantages.

Last year, Sony Broadcast introduced the prototype of a new 1" high band video recorder. The BVH-1000.

The BVH-1000 produced picture quality difficult to believe. In fact, broadcasters didn't believe it. They had to see it for themselves. And they snapped up every prototype we could deliver.

Since then, we've made some changes. Added more features. Expanded the BVH concept to include a portable model, the BVH-500, for professional 1" production in the field.

And we've sold a lot of machines.

If you're considering the move to 1", consider the advantages of the BVH-1000.

1. The Advantage of Shared Sector Scanning. The Sony Broadcast BVH-1000 and BVH-500 both use an exclusive system of scanning that records video and sync (lines 1-17) with separate heads. Which means the entire vertical interval is captured and available for encoding any signal required in the future by the FCC.

Color banding is eliminated. And generation after generation, the BVH-1000 picture retains incredible clarity and precision.

2. The Advantage of BIDIREX. Film editing techniques, with a professional video recorder?

That's what you get with the BVH-1000. Not one, but two control modes are provided to give editors a true "film" feeling. In shuttle mode, the tape can be moved in either direction, from stop to 30 times normal speed. With a recognizable picture, so you can make fast editing decisions.

In jog mode, the BVH-1000 lets you move the tape as though you were positioning the reels by hand—while you monitor a fully locked picture.

3. The Advantage of Interchangeability. 1 dB down is the specification. Need we say more?

Sony's interchange is guaranteed by a gimmick-free devotion to precision mechanics and supported by the experience of building several hundred thousand video recorders.

4. The Advantage of Color Framing. Some high end production recorders don't offer color framing. Others make it available as an expensive option.

But both the BVH-1000 and BVH-500 provide color framing capability as standard equipment. Add that to a logic system ideally suited for computer assisted editing, and the Sony BVH-1000 is your best bet to produce that "word from our sponsor."

5. The Advantage of High Fidelity Audio. Not one, not two, but three isolated audio tracks with frequency response from 50 Hz to 15 kHz. With over 50 dB isolation between tracks.

Never before has any production recorder offered the level of audio quality found in these two new Sony Broadcast machines.

And a special wide band amplifier is automatically switched onto the cue track in search mode, to accommodate SMPTE code playback in high speed.

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Radiometric and Photometric Characteristics of Materials and Their Measurements is a new publication of the Commission Internationale de L'Eclairage (CIE). The report (No. 38) in German, English and French, is a survey of the processes that occur if a material is irradiated and of characteristics that are important in determining the material's behavior in general and also in a few special cases. The report also clarifies the definitions of the materials and processes. Certain correlations among various characteristics are described.

For the most important characteristics, practical methods of measurement are given to ensure that measurements in different laboratories yield similar values. The processes and characteristics described in the report apply to optical radiation, particularly light. The report is available from Jack L. Tech, Secretary, U.S. National Committee, CIE, National Bureau of Standards, Washington DC 20234, at a price of \$20. Checks should be made payable to U.S. National Committee CIE.

CEI (Commercial Electronics Inc.), 880 Maude Ave., Mountain View, CA 94043, will manufacture the EMI 2008 broadcast color television camera according to terms of an agreement between CEI and EMI Sound and Vision Equipment Ltd. The EMI 2008 is a field production television camera system nearly identical to the CEI-310. CEI will manufacture the 2008 for EMI Sound and Vision who will market it primarily in Europe.

Sony Corp. of America, 9 W. 57 St., New York, NY 10019, has announced a major realignment of its top executive officers. Harvey L. Schein, who has been President and Chief Executive Officer for the past five years, has been promoted to Chairman of the Board and will continue as the company's Chief Executive Officer. Raymond J. Steiner has been promoted to President and Chief Operating Officer. He was formerly Executive Vice-President. Kazuo Iwama, President of the parent company in Tokyo, has been named Chairman of the Executive Committee of Sony Corp. of America, and Akio Morita, Chairman and co-founder of Sony, is now Chairman of the Finance Committee of the American subsidiary.

Hitachi Denshi America Ltd., 58-25 Brooklyn-Queens Expwy., Woodside, NY 11377, has announced a series of setup and maintenance tape programs for several of its television cameras. The series covers the complete setup procedure for the Hitachi color cameras. The tapes currently cover the SK-70, SK-50 and FP-1212 systems. They are priced at \$90.

Bebell, Inc., 416 W. 45 St., New York, NY 10036, has announced a major addition to its facilities. All super-8 film cartridge, boxing, shrink-packaging, labeling and film library services have been moved to a newly designed area in an adjacent building internally connected with the original laboratory. The processing section of the laboratory thus has more space for increased production of super-8 release prints and related activities.

DeLuxe Laboratories, 1546 North Argyle Ave., has announced a major expansion and relocation of its video duplication and film-to-tape transfer facilities. The new expanded video facilities are located at the company's Argyle Ave. address as part of its ongoing program of providing single source film and video services.

Books, Booklets, Brochures

The 1977-1978 Audio-Visual Equipment Directory (23rd edition) is available from National Audio-Visual Association, 3150 Spring St., Fairfax, VA 22030, at a price of \$17 (if prepaid) or \$18.50 if invoiced. The new *Directory* (506 pages) has been completely revised and includes a new section on headphones and handsets. It is the single source of information for more than 2000 currently available audiovisual equipment items including uniform specifications on price, model, weight, capacity, accessories and technical details. All major categories of audiovisual equipment are included. The *Directory* also contains more than 2000 photographs.

Other than information on equipment the *Directory* has charts for screen size, film and tape running times, indexes to industry trade names and a full NAVA membership directory.

NAVA is the trade organization of the audiovisual industry representing audiovisual dealers, manufacturers, nontheatrical entertainment and religious film distributors and education and trade publications.

The Catelgram, a newsletter about applications and technical developments in coaxial cable communications is available upon request from Catel, P.O. Box 1389, Mountain View, CA 94042. A recent issue contains a review of applications ranging from data transmission to fiber optics for AM, FM and television modulators and modulators.

The Camera Craftsman, May/June issue, in addition to information on still photography equipment, contains a report on the GAF SS 250 XX super-8 sound camera and a paper entitled "Basic Course in Digital Electronics." A sample issue of *The Camera Craftsman* is available upon request from Dept. QRR, The Camera Craftsman, 2000 West Union Ave., Englewood, CO 80110.

A single-tube color television system, the 1400 series, is described in an illustrated data sheet available upon request from Cohu, Inc., Electronics Div., Box 623, San Diego, CA 92112. The system consists of a Model 1410 television camera and a Model 1490 color control unit. The system is said to provide clear and crisp video with maximum detail information and flatness of field. Applications include microscopy, and other medical, pathological, biological, scientific and industrial instrumentation uses.

Computer Methods in Image Analysis, a book of selected reprints, has been announced by the IEEE Press, 445 Hoes Lane, Piscataway, NJ 08854. The collection was edited by J. K. Aggaswal, R. O. Duda and A. Rosenfeld. This collection of 31 papers, drawn from various sources, focuses on digital image analysis, i.e., the use of computers to extract useful information from digitized pictures. The book provides engineers with a ready access to papers supplying key information. It is divided into seven major parts: Correlation and Matching; Segmentation, Regions; Region Representation and Description; Scene Analysis, the Blocks World; Scene Analysis, the Natural World. Each part is preceded by detailed introductory discussions by the editors. An extensive bibliography for further reading is included. The book contains 472 pages. The price is \$29.95 (\$22.45 for IEEE members). A softbound copy is available at a price of \$14.95.