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# NEW PRODUCTS

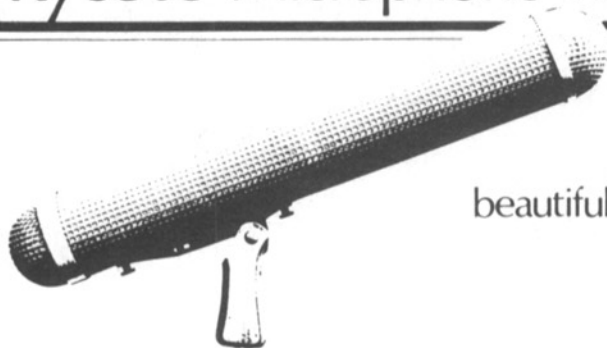


The ACE editing system, a new modular editing system with a full range of editing features, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. Based upon distributed intelligence, the system is modularly expandable to meet production needs for on-line or off-line editing for a variety of audio and video recorders. The ACE can interface with up to 20 machines, including VTRs, audio recorders, switchers, special effects units and a variety of peripherals. It has small, highly sophisticated RAM-based machine interfaces. The ACE offers a selection of human interfaces all of which utilize a sophisticated multi-range joystick and CRT display. It has three distinct human interfaces: the TouchScreen™, dedicated keyboard, and ASCII keyboard.

The TouchScreen editor (shown above) was designed for maximum flexibility. There are no keyboards, no lightpens and no buttons to push. The system has an infrared beam grid which crisscrosses the screen of a 15-in CRT. A fingertip touch to the screen of the CRT breaks the grid and this initiates the edit operation. The dedicated keyboard and TouchScreen configurations are available with an optional ASCII keyboard for edit comments. The basic ACE system is priced at about \$50,000.

The TDF-2 digital noise filter, a unit designed to improve the signal-to-noise ratio of cameras, videotape recorders, microwave/satellite links and other video signals by as much as 18 dB, has been announced by Fernseh Inc., P.O. Box 15068, Salt Lake City, UT 84115. The

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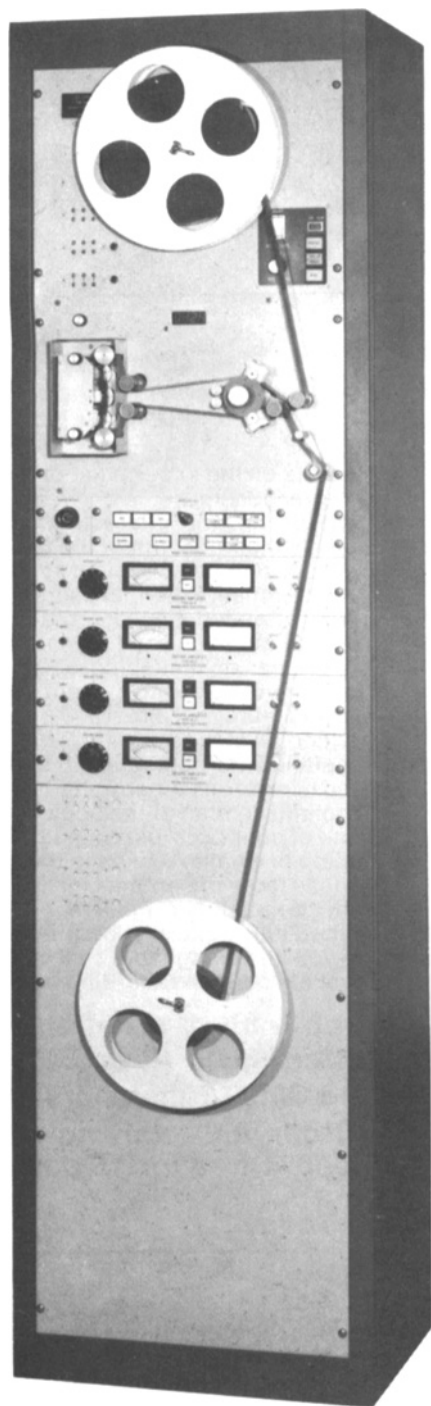
LaVezzi's new "VKF" sprockets are adding life to all 35mm film, CS CinemaScope and standard KS film, by reducing film damage caused by abnormal contact with the sprocket.

Brochure L70-6 tells how you can add reel life to film, reduce costly film maintenance, and minimize projector wear. Call or write for it.

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# ONE-INCH HELICAL VIDEO RECORDING

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## Contents

- An Overview of One-Inch Helical Video Recording, *Frederick M. Remley, Jr., Univ. of Michigan, Ann Arbor, Mich.*
- Proposed SMPTE Type C. Helical-Scan Recording Format: A Subcommittee Report, *David Fibush, Ampex Corp., Redwood City, Calif.*
- The Development of National Standardization of the One-Inch Helical Video Tape Recording Systems, *Alex E. Aiden, SMPTE, Scarsdale, N.Y.*
- BCN Digital Store: Economical Accessory for Production and Post Production, *Hans-Peter Maly, Robert Bosch, GmbH, Fernseh Group, Darmstadt, W. Germany*
- Technical Description of Sony's Portable One-Inch Machine, BVH 500; First Discussion of its Technical Parameters, *M. Morizono, Sony Corp., Tokyo, Japan*
- Mechanical Design Considerations for Helical Scan VTRs, *Dennis Ryan, Ampex Corp., Redwood City, Calif.*
- Outdoor Program Production Utilizing Compact Equipment, *Ichihiko Hishida, Tokyo Broadcasting System, Inc., Tokyo, Japan*
- User's Experience with Type B "BCN Helical" Portable and Studio Editing VTR, *William D. Kelly, WNEW-TV, New York, NY*
- Videotape Program Production at CBS Studio Center, *William G. Connolly, CBS Television Network, New York, NY*
- A New Edit Room Using One-Inch Non-Segmented Helical VTRs, *William C. Nicholls, CBS Television Network, New York, NY*
- Post-Production Experience with One-Inch Videotape, *Denny Fussell, Tricomm, Hilton Head, S.C.*
- Post-Production and Production Using One-Inch Helical Videotape and VTRS, *E. Grey Hodges, Emerson F. Lawson, and Robert W. Dycus, Jefferson Productions, Div. of Jefferson-Pilot Broadcasting Co., Charlotte, N.C.*
- PANEL DISCUSSION—One-Inch Helical Video Recording, *Josaph Roizen, Moderator, Telegen; Panel Members: Howard Steele, Sony Corp.; Charles Urban, BBC/London; William G. Connolly, CBS Television Network; E. Grey Hodges, Jefferson Productions; Denny Fussell, Tricomm Productions; David Fibush, Ampex Corp.; Henry Zahn, Bosch-Fernseh; William Kelly, WNEW-TV.*

One-inch helical video recording promises broadcast quality results using equipment that should prove to be much less expensive than 2-inch quad. The technology has been accelerating toward making one-inch tape recording equipment more readily available, especially now since standardization of one-inch tape equipment has been accomplished.

SMPTE has a great book on this very important subject—a book that will bring the entire subject of one-inch helical recording into focus. The book, titled *One-Inch Helical Video Recording*, contains all the one-inch recording presentations given at SMPTE's February 1978 Television Conference in Atlanta.

## How Can This Book Help?

If you think your operation will eventually go one-inch, this book is required reading. Certainly, if you're contemplating new equipment purchases within the next few years, a survey of one-inch tape capabilities must be made. To make the proper evaluations, you'll need all the information that's available. And most of what's available now on the subject is contained in SMPTE's new book.

Here's a brief rundown of what the book includes.

- An overview of one-inch helical recording.
- A summary of standardization activities.
- Reports from major manufacturers like Ampex, Bosch and Sony.



- Reports on the experience of current users.
- Perhaps the most interesting part of all, the transcript of the panel discussion that was held at the Conference. Potential users who attended the Conference asked questions and revealed what was on their minds. The manufacturers and current users—the real experts—provided all of the answers. This detailed, no-holds-barred discussion forms a particularly helpful section of the book.

That, of course, is just a small sampling of what to expect in the book (see table of contents for specific details). This book is crammed full of information that will make you knowledgeable on the subject of one-inch recording.

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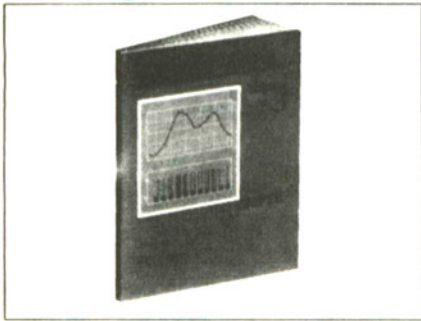
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# Digital Video—Volumes 1, 2, 3



## Digital Video—Volume 3

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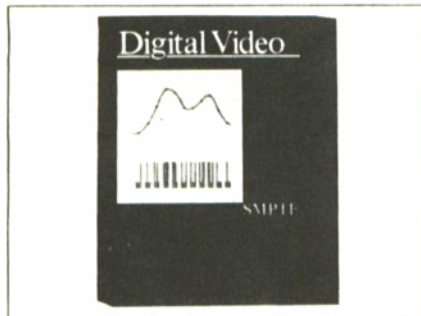
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## Digital Video—Volume 2

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## Digital Video—Volume 1

Published in 1977. Now in its fifth printing, this is SMPTE's most popular book. This book is the landmark volume on digital video, a book that provides the basic information on digital technology. It contains 19 papers, a glossary of digital video terms and bibliography. This book provides the fundamentals you need to understand this rapidly-developing technology.

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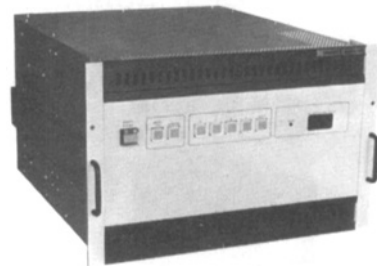
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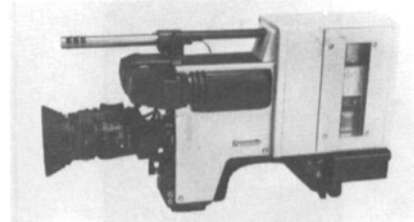
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unit includes a 3.2 megabit RAM memory and can be equipped with freeze frame/field, image enhancement and chroma delay correction options. The noise reduction process is controlled by a programmable read-only memory (PROM) that can be custom programmed to meet specific requirements, after which the unit can be operated continuously without adjustment. The TDF is supplied with four PROMs which correspond to each of the filter switches on the front panel and allow selection of the single best filter formula. Features include 4X subcarrier sampling to provide improved frequency response, transient response and reduced signal distortion.



A video recording and editing system which utilizes a 1/2-in videotape cassette and three-tube color television camera to produce broadcast-quality program material has been developed by Panasonic Video Systems Div., One Panasonic Way, Secaucus, NJ 07094. Powered by a self-contained battery, the main unit houses a videocassette recorder and color camera in a single unit. Also announced was a companion editing system. The single unit configuration eliminates camera-to-recorder connecting cables, thus allowing the operator flexibility and maneuverability. The recording camera weighs about 22 lb. The 1/2-in videotape provides 20 min of recording time on each cassette as the recording medium. The camera has a three-tube prism optics system and 2/3-in pickup tubes.

The editing system consists of two editing videocassette recorders and an editing controller. The VTRs have two audio tracks and a separate time code track as well as two audio meters and a tracking control meter.

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