

**Teletext and Videotex
in the United States**

By J. Tydeman, H. Lipinski, R. Adler, M. Nyhan, L. Zurinper. Published (1982) by McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, NY 10020. 314 pp. Illus. 7 1/2 x 9 1/2 in. Price \$34.95.

This book presents the findings of a technological assessment of teletext and videotex, a study to assess the impact of teletext and videotex in the U.S. over the next 10 to 20 years. The project, which was conducted by a research team at the Institute for the Future, was sponsored by the National Science Foundation.

The result is a very comprehensive analysis of the current state of the technology, of future developments possible in the next 10 to 20 years, and of the policy issue and social impact. Both teletext and videotex are rapidly developing technologies. To write a book on any fast-moving development is extremely difficult, and there is a chance that the book would rapidly become obsolete.

By limiting the discussion of the technologies, as they stand, to one chapter in which the main differences (incompatibilities) between the systems are identified, the book avoids being too detailed.

The chapter on "Future Applications"

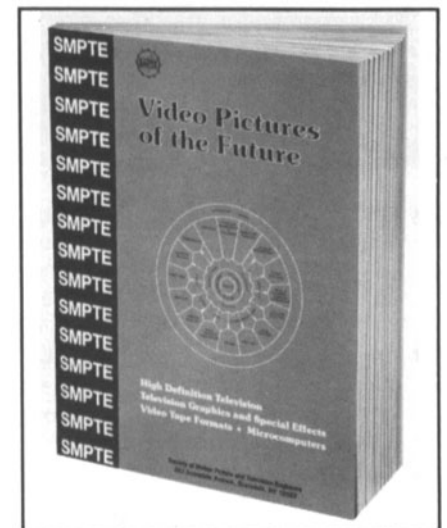
forecasts the alternatives, and the chapter on "Policy and Social Impacts" looks to the future and projects possible developments during the next 10 to 20 years.

In the years to come, it will, of course, be possible to read this book with amazement at how closely the projections have been met, or how far the actual events deviated from the projections.

As it stands today, the book provides a very comprehensive presentation, review, and analysis of the present and the future of teletext and videotex in the U.S. Whether the reader is already in the field or a newcomer to teletext/videotex technology, this book will provide useful reading as all issues relating to the technology are covered in the one volume.

—D. L. Garforth

**BOOKS, BOOKLETS,
BROCHURES**



New Book from SMPTE

A new book, **Video Pictures of the Future**, has been published by the Society of Motion Picture and Television Engineers, it was announced by SMPTE Editorial Vice-President Maurice L. French, Canadian Broadcasting Corp.

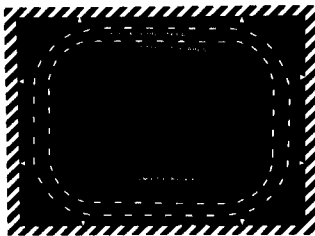
The book is 8 1/2 x 11 in., soft-bound, and contains 296 pages. The price is \$35, less 20% to SMPTE members. The book is available from SMPTE Books, 862 Scarsdale Ave., Scarsdale, NY 10583.

The new book contains 28 papers that were presented at the SMPTE Television Conference held in February, 1983, in San Francisco. The major topics covered in the book are: High-Definition Television, Television Graphics and Special Effects, Video Tape Formats, and Microcomputers.

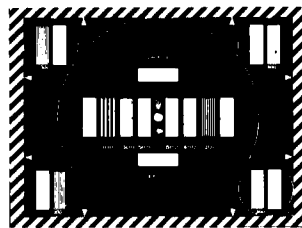
Following are papers and authors listed in the Table of Contents of **Video Pictures of the Future**:

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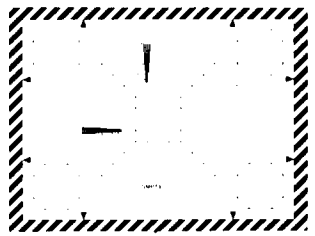
Television Test Films & Slides



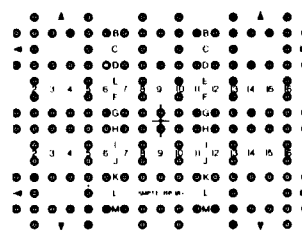
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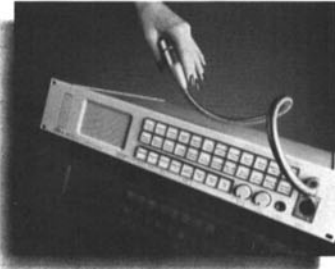
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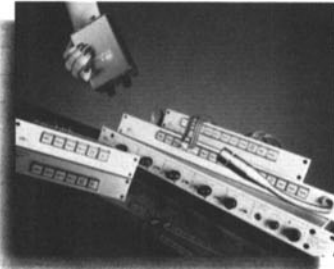
A high performance conference-line communications system featuring over 25 different components and accessories that allow an almost infinite variety of system configurations. It's universally designed for demanding applications in teleproduction and broadcast as well as industrial and commercial installations.

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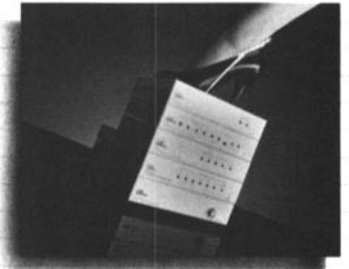
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New Chrominance and Luminance Components for Multiplexed Component Video Signals in HDTV Systems, C. W. Rhodes, *Scientific-Atlanta, Inc.*

The HDTV-Camera — Fighting the Resolution/Noise Battle, U. H. Reimers, *Robert Bosch GmbH.*

A High-Definition Still Frame Television System, G. R. Southworth, *Colorado Video, Inc.*

Extended Definition Television with High Picture Quality, B. Wendland, *Universität Dortmund.*

Compatible Systems for High Quality

Television, M. J. J. C. Annegarn and R. J. Jackson, *Philips Research Laboratories.*

Switching and Distribution of High Resolution RGB Video Signals, P. L. Lewis and L. V. Good, *Ames Research Center.*

Computer Graphics Animation Methods, P. Black, *Xiphias.*

Tools for Interactive Picture Processing Systems, A. L. Bridges, *Via Video, Inc.*

Arithmetic Control Algorithms for Digital Video Effects, J. E. Blecksmith, *Grass Valley Group.*

The Technical Director's Interface to Digital Video Effects, R. Dienhart, *NEC America, Inc.*

Menu-Driven User Interfaces for Videographics, R. G. Shoup, *Aurora Systems.*

The Computer Controlled Frame Buffer as a Production Tool, T. F. Klimek and H. E. Towles, Jr., *Computer Creations, Inc.*

The Type "C" Format . . . A Moving Target, W. F. Carpenter, *Ampex Corp.*

A Second Generation Type "C" One-Inch VTR, H. Tanimura, Y. Fujiwara, and T. E. Mehrens, *Sony Corp.*

Analogue Components, Multiplexed Components and Digital Components — Friends or Foes?, J. L. E. Baldwin, *Independent Broadcasting Authority.*

An Introduction to Analog Component Recording, K. Sadashige, *Matsushita Electric Industrial Co., Ltd.*

Digital Video Recording: New Results in Channel Coding and Error Protection, J. K. R. Heitmann, *Robert Bosch GmbH.*

8-9 Block Code: A DC-Free Channel Code for Digital Magnetic Recording, H. Yoshida, Y. Hashimoto, and T. Shimada, *Sony Corp.*

Broadcast Quality Video/Audio Recording System with VHS Cassette and Head Scanning System, I. Arimura and K. Sadashige, *Matsushita Electric Industrial Co., Ltd.*

Progress Report on EBU-SMPTE Serial Data Control of TV Equipment, M. J. Stickler and R. McAll.

How Not to be Frightened by Microprocessors, E. S. Busby, Jr., *Ampex Corp.*

An Intelligent Time Code Peripheral for Computer Based Video Tape Editing Systems, M. Racelo, *ECCO.*

Diagnostics for a Microprocessor Based Videotape Recorder, M. G. Rose and G. Warren, *Ampex Corp.*

Product Evolution Through Software: The RCA TK-47 Studio Camera — A Case History, B. Hurley, *RCA.*

A Microprocessor Based Camera Remote Control Unit, J. A. Gray, *RCA.*

Microprocessor Control Achieves Design Flexibility for Video Production Switchers, H. P. Butler and D. C. White, *Grass Valley Group.*

The Evolution of a Comprehensive Computer Support System for the Television Operation, J. W. Anderson and M. S. Tooms, *Protel Computer Systems Ltd.*

Digital Diagnostics: How Much Should the Patient Tell?, R. H. Trumbull, *KRON-TV.*

Retroreflection: Definition and Measurement is a report (in English) published by the Commission Internationale de l'Eclairage (CIE Publication No. 54). The report considers four main items:

1. Recommended terminology, including main definitions and units, needed for characterizing the specific effects of retroreflection.

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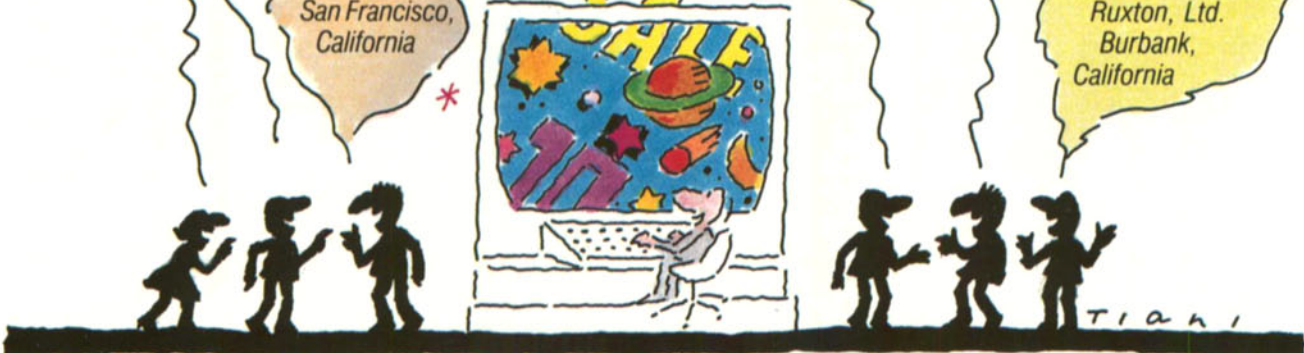
— Peter Caesar, President Caesar Video Graphics New York, New York

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— Tom Werner, V.P. Engineering One-Pass Film and Video San Francisco, California

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Engineered to surpass the most rigorous standards of performance and introducing features that are masterpieces of innovative thinking, the HL-79E's picture quality even exceeds that of other manufacturers' top-of-the-line studio cameras.

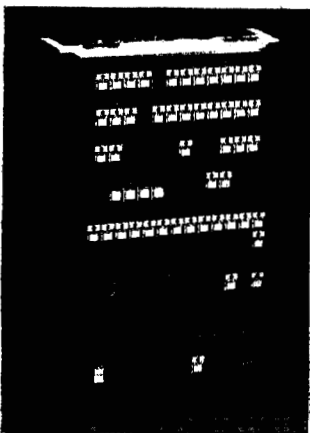
In the fiercely competitive video market where others hope to be as good as the HL-79D, Ikegami is the unquestioned leader. And the HL-79E will soon ascend to a loftier throne as King of the Jungle. Only by seeing this remarkable camera in action can it be fully appreciated.

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Optional accessories include the ADC-79E Auto Set-Up Digital Control, the RDC-79E Remote Digital Control and the VF 45-3 Large Viewfinder. The HL-79E is compatible for use with existing HL-79A and HL-79D lenses, power supplies, VTR cables, and other accessories. Plus, it can

be adapted to the MA-79 Multicore Base Station and TA-79/79C Triax Base Station.

The HL-79E is part of the great and proud family of Ikegami cameras and monitors serving many satisfied users worldwide. For a complete demonstration of Ikegami Cameras and Monitors, contact your local dealer or call Ikegami Electronics.



ADC-79E Auto Set-Up Digital Control

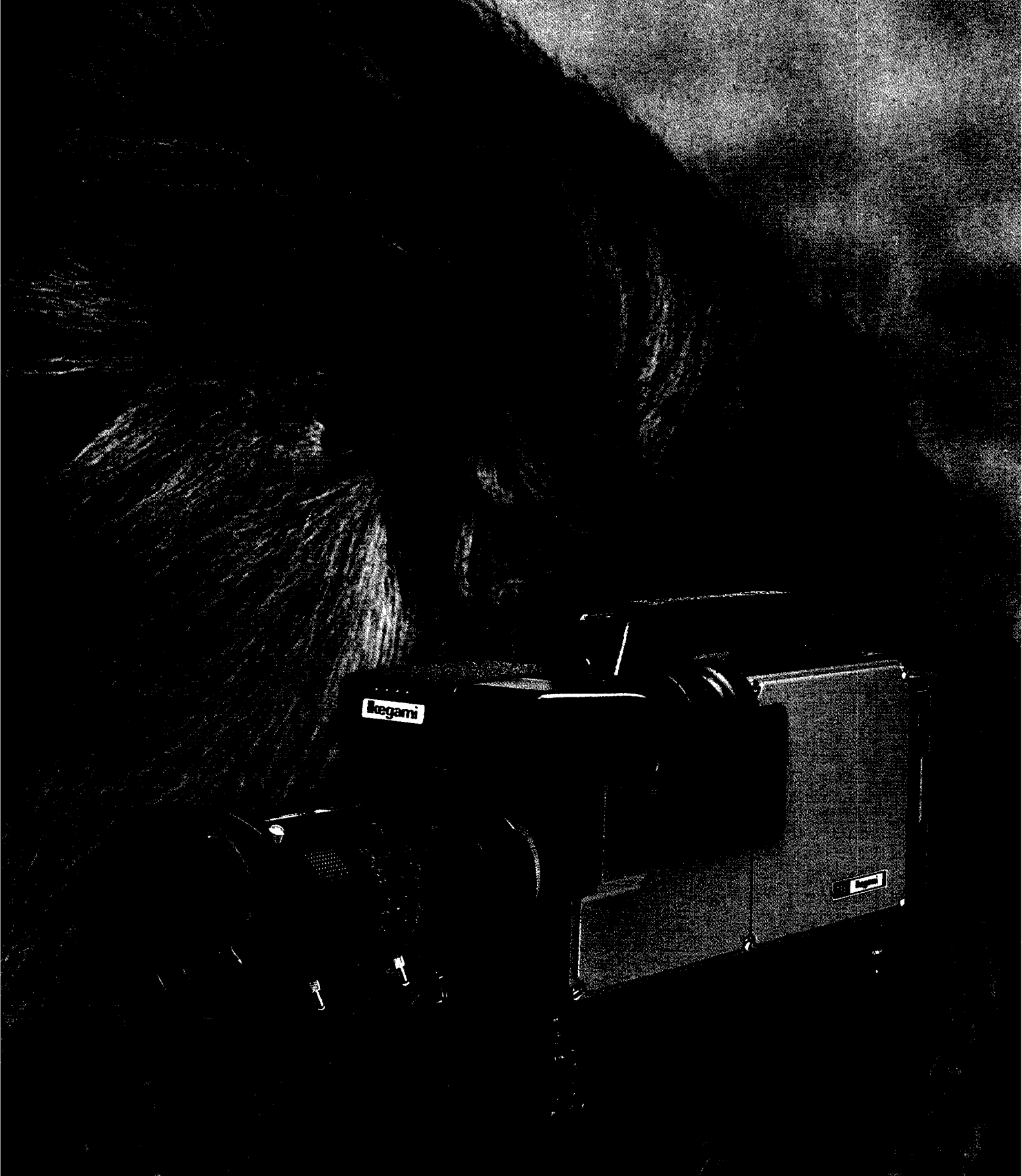
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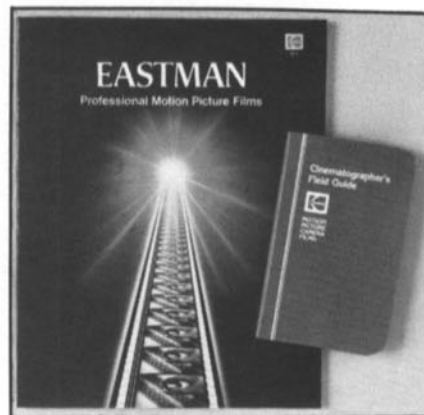


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The report is priced at \$20 and may be obtained from Dr. Klaus D. Mielenz, Secretary, U.S. National Committee, CIE, Room B-306, Metrology Bldg., National Bureau of Standards, Washington, DC 20234.



Eastman Professional Motion Picture Films (H-1), and Cinematographer's Field Guide: Motion Picture Camera Films (H-2) have been revised and updated. They are available from Eastman Kodak Co., Dept. 454, 343 State St., Rochester, NY 14650, at a price of \$2.95 each. Both reference books contain new technical information for professional and amateur filmmakers, processing laboratory supervisors and technicians, film distributors, and librarians.

Eastman Professional Motion Picture Films is designed to help filmmakers select the most appropriate film for any particular job. It contains 120 pages of text, 66 line drawings, and 18 color and 54 black-and-white illustrations.

The Cinematographer's Field Guide is a 102-page, 3½ × 6 in., softcover book containing helpful tips on filters, illumination, and film-can label terms. It also contains ideas on forced processing, essential equipment and accessories for on-location production, and methods for extending the useful life of films.

The Guide to Profitable In-House Production, a 12-page illustrated guide to studio production techniques, is available upon request from MCI/Sony, 1400 West Commercial Blvd., Fort Lauderdale, FL 33309. The guide discusses studio recording techniques that apply to broadcast commercial and program production and on-air work. It is intended for radio and television stations that are re-evaluating

currently used audio hardware and are planning upgrades, particularly in view of stereo broadcast opportunities. The booklet describes in detail the new MCI/Sony Broadcast Audio Production System, a complete customized production facility, including an 8-track recorder, multi-track console, and mix-down stereo recorder.

Instruments for Testing and Design is a 50-page illustrated catalog available from Global Specialties Corp., 70 Fulton Terr., P.O. Box 1942, New Haven, CT 06509. The catalog contains complete descriptions and specifications for Global's electronic test and design equipment. It also includes several new products and product categories.

Precision optical components are described and illustrated in a 32-page catalog available from Optics for Research, Inc., P.O. Box 82, Caldwell, NJ 07006. Technical information, charts, drawings, and photographs illustrate the major product categories which include beamsplitters, deep aspheric reflectors, filters, front-surface mirrors, laser beam expanders, laser components, lenses, polarizers, hardware excimer laser optics, prisms, retarders, infrared optics, windows, and solid etalons.

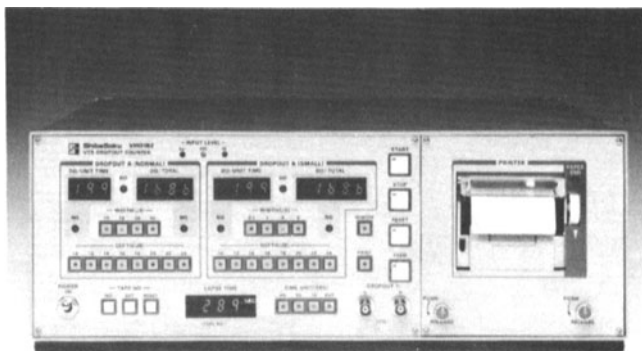
An all solid state, color CCTV system, Model 1610, is described in an illustrated data sheet available from Cohu, Inc., Electronics Div., P.O. Box 85623, San Diego, CA 92138. The camera uses an MOS image sensor to maintain vivid color even in dark scenes. The 1610 has good color resolution and balanced spectral response with no lag or geometric distortion. It has a wide dynamic range and renders all 10 EIA gray shades down to 0.5 lm/ft² on the image face plate.

Xenon bulbs are described and illustrated in a brochure available from Osram Sales Corp., Jeanne Dr., P.O. Box 7062, Newburgh, NY 12550. The five-page foldout contains a selection chart for both horizontal- and vertical-burning bulbs and their operating parameters. A cross-referencing guide matches Osram's lamp numbers to their Christie, Hanovia, ORC, Philips, Tugram, and x-Cel counterparts. Osram's xenon bulbs are adaptable to all makes of housing with conversion kits available for those who are upgrading their operations. The bulbs are reported to have an average life of more than 2000 hours.

Fiber Optics in Broadband Communications; A Technical Overview, is published by The Grass Valley Group, Inc., P.O. Box 1114, Grass Valley, CA 95945. The 16-page illustrated booklet describes the operational advantages of fiber optics and presents system design criteria. It describes in detail the role of The Grass Valley Group in fiber optic communications with reference to the Wavelink™ fiber optic communications system.

SMPTE Journal, September 1983

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