

console for use in sound reinforcement applications. A maximum of 64 channels (48 in/16 out) can be handled by one system. Each audio input channel on the Stage Master has its own high-quality mic pre-amp, phantom power supply, and mic gain/trim pot. The Console Master features a digital throughput, allowing signals to be routed to both the house board and a remote recording console at the same time.

Software

Cinema Graphics, Inc., has announced **Shadetree software**, designed for use with Microsoft/SoftImage's Mental Ray software. This interactive shader language authoring tool allows nonprogrammers to quickly create and edit shaders for Mental Ray. Users begin working with materials, colors, textures, and images, and then mix them with prebuilt macro boxes to form a shader.

Kai's Power GOO from MetaTools, Inc., provides users with real-time capabilities for manipulating images and making movies on standard home computers, as well as with the ability to create liquid images and manipulate them in real time by smearing, smudging, stretching, and fusing. Features include the GOO brush palette, which selectively applies distortion/undistortion effects; the global effects

palette, which distorts with such effects as bulge, swirl, and stretch; and the fusion room, which superimposes and blends parts of one image to another.

Standards Converters

The **GF9105 component digital transcoder** from Gennum Corp. provides multiple format conversions from one device. It is a high-precision, fully programmable, color space converter that offers transparent conversions between Y/U/V and R/G/B color spaces. Other features include 13-bit color space converter and key channel scaling coefficients, ITVR-601-compliant interpolation and decimation filters, support for multiplexed and nonmultiplexed I/O data, and asynchronous parallel interface for writing and reading device configuration words and multiplier coefficients.

The **Model 287** is an RS-232 to RS-422 optically isolated interface converter from Telebyte Technology, Inc. It does not require a separate AC or DC input since the power required is extracted from the RS-232 interface. A DB9 female connector allows it to be directly attached to any PC com port, and a DTE/DCE switch allows reversing the transmit data and receive data signals if the Model 287 should be required to interface to a different type of port. The link interface is implemented in an RJ-12 modular connector.

For further information regarding the new products and developments listed in this section, contact the companies directly at the addresses listed below:

Cinema Graphics, Inc., 22516 Lassen St., Chatsworth, CA 91311, tel: (818) 718-6320, fax: (818) 718-6320, e-mail: info@cinegrfx.com, WWW: http://cinegrfx.com

FrameRate Corp., 3007 S. W. Temple, Ste. H, Salt Lake City, UT 84115, tel: (801) 487-0069, fax: (801) 487-0522, e-mail: info@frl.com, WWW: http://www.frl.com

Fujinon, Inc., 10 High Point Dr., Wayne, NJ 07470, tel: (201) 633-5600, fax: (201) 533-5216

Gennum Corp., P.O. Box 489, Station A, Burlington, Ont., Canada, L7R 3Y3, tel: (905) 632-2996, fax: (905) 632-2055

JBL Professional, 8500 Balboa Blvd., Northridge, CA 91329, tel: (818) 894-8850, fax: (818) 830-7802

MetaTools, Inc., 6303 Carpinteria Ave., Carpinteria, CA 93013, tel: (805) 566-6200, fax: (805) 566-6385, e-mail: kptsupport@metatools.com, WWW: http://www.metatools.com

Optex, 20-26 Victoria Road, New Barnet, N. London, EN4 9PF, UK, tel: +44 (0) 181-441 2199, fax: +44 (0) 181-449 3646

Otari Corp., 378 Vintage Park Dr., Foster City, CA 94404, tel: (415) 341-5900; Fax (415) 341-7200

Schneider Corp. of America, 400 Crossways Park Dr., Woodbury, NY 11797, tel: (516) 496-8500, fax: (516) 496-8524

Sharp Electronics Corp., Sharp Plaza, Mahwah, NJ 07430-2135, tel: (201) 529-8731, fax: (201) 529-9636

Telebyte Technology, Inc., 270 Pulaski Rd., Greenlawn, NY 11740-1616, tel: (516) 423-3232, fax: (516) 385-8184, e-mail: sales@telebyteusa.com, WWW: http://telebyteusa.com

Books, Booklets, Brochures

Multimedia and Communications Technology by Steve Heath explains how multimedia technology is bringing together several existing products, such as the PC, telephone, and television. Organized as a set of tutorials, the book explains in a simple manner the fundamental techniques of digital audio and video; JPEG and MPEG; delivery systems for multimedia (CDs, LANs, and the new ATM and ASDL technologies); and how these key technologies are brought together. Also covered are new interfaces for the multimedia PC, video-on-demand and interactive television, and video conferencing and the techniques behind the latest H.320-based video phones and conference systems. The book is a 320-page, illustrated paperback available from Focal Press, 313 Washington St., Newton, MA 02158-1626.

Television Fundamentals is about the technique and process necessary to create, record, and manipulate television pictures. While this is an introductory book, it does not seek to simplify its subject matter. Although some of the concepts are quite

advanced, each is presented in a logical, easy to follow, step-by-step manner. The 320-page book is comprehensive, covering all aspects of television techniques and processes. Written by independent consultant John Watkinson, *Television Fundamentals* is published by Focal Press, 313 Washington St., Newton, MA 02158-1626.

Fiber-Optic Reference Guide is a 208-page paperback from Focal Press, 313 Washington St., Newton, MA 02158-1626. It is a complete survey of fiber optics as well as a practical look at the fiber-optic industry and its technology. Presented in the most straightforward and intuitive manner possible, the text is not cluttered with esoteric equations; the equations that are presented are those necessary to deal with fiber-optic technology in real-world applications, such as cable TV and telecommunications.

The Camera Assistant's Manual offers complete checklists for camera equipment, filters, and expendables, and features a new section containing useful tables including

footage-to-time and time-to-footage conversions. The book is intended for the experienced cameraperson as well as the beginner. It contains complete descriptions of all aspects of the jobs of First and Second Assistant Cameraman and a chapter on the Basics of Cinematography. The material has been organized to easily find specific information when needed. The 272-page book by David E. Elkins is illustrated and available from Focal Press, 313 Washington St., Newton, MA 02158-1626.

Video Engineering, 2nd ed., was written by Andrew F. Inglis and Arch C. Luther and is available from McGraw-Hill, Inc., 11 W. 19th St., New York, NY 10011. The new edition has been expanded to provide full coverage of the growing nonbroadcast applications of video, such as computer display systems and multimedia. Also available is the most current information on video cameras, television receivers and video monitors, CATV systems, satellite video communications, fiber-optic transmission systems, and video post-production systems.