

New Products

Audio Equipment

JBL Professional has introduced the **EON 15PAK system**, designed specifically to provide keyboard-based combos with everything they need in one speaker enclosure. The system is internally bi-amped, with a 130-W low-frequency amplifier and a 50-W high-frequency amplifier. The 15-in. woofer uses neodymium magnets and JBL's Differential Drive motor structure, which reduce the weight of the unit without compromising its thermal capability. The EON 15PAK incorporates an angled enclosure that allows it to be tilted back to a monitor position without the need for additional stands or hardware.

JBL's **EON Series of performance microphones** all feature a cardioid-type polar pattern, a large "pop"/wind filter, a rubberized shock ring, an on/off switch, and low impedance output. **The JBL M90S** has a dual-density-type diaphragm and offers a frequency range of 60 Hz to 18 kHz. **The JBL M70S** has a frequency range of 70 Hz to 16 kHz, and like the M90S, has a neodymium magnet structure. **The JBL M50S** has a frequency range of 70 Hz to 16 kHz. All three microphones are housed in black matte cases made of diecast zinc.

Computer Equipment

The PC-9080 from Sharp Electronics is an Intel-based Pentium notebook computer capable of displaying XGA format images. Among its other features are a removable, lightweight, six-speed CD-ROM, MPEG-1 software for video com-

pression, a built-in sound board with 16-bit Sandblaster Pro, and a removable 3.5-in. floppy drive that can be replaced with a second lithium battery.

Lenses/Optics

Fujinon's Broadcast & Communications Products Division has introduced the **18X handheld zoom lenses**. **The A18X9** is for 2/3-in. cameras and has a focal length range of 9 to 162 mm and a maximum aperture of F1.8. **The S18X6.7** for 1/2-in. format cameras has a focal length range of 6.7 to 121 mm and a maximum aperture of F1.4. Both lenses have a minimum object distance of 0.9 m and are available with or without an extender.

The Optex Super Cine 100mm macro lens from Optex has a light transmission factor at 1:1 magnification. It requires no calculations or manual adjustment of the iris or shutter to compensate for light losses that occur at short focusing distances because the linked iris automatically maintains an even exposure as the user pulls focus through the various magnifications encountered in macro work.

Schneider Corp. of America has introduced "**rear-mount**" filters for motion picture lenses. These filters screw directly to the rear of most Canon, Nikon, or Angenieux telephoto lenses and are supplied in either antireflective or multicoated glass. They are mounted in brass rings that prevent them from binding or locking to aluminum threads. They are made from superior quality Schott glass, free of any

color cast, and are ground and polished for absolute thickness to give the cinematographer consistency of color and filter performance.

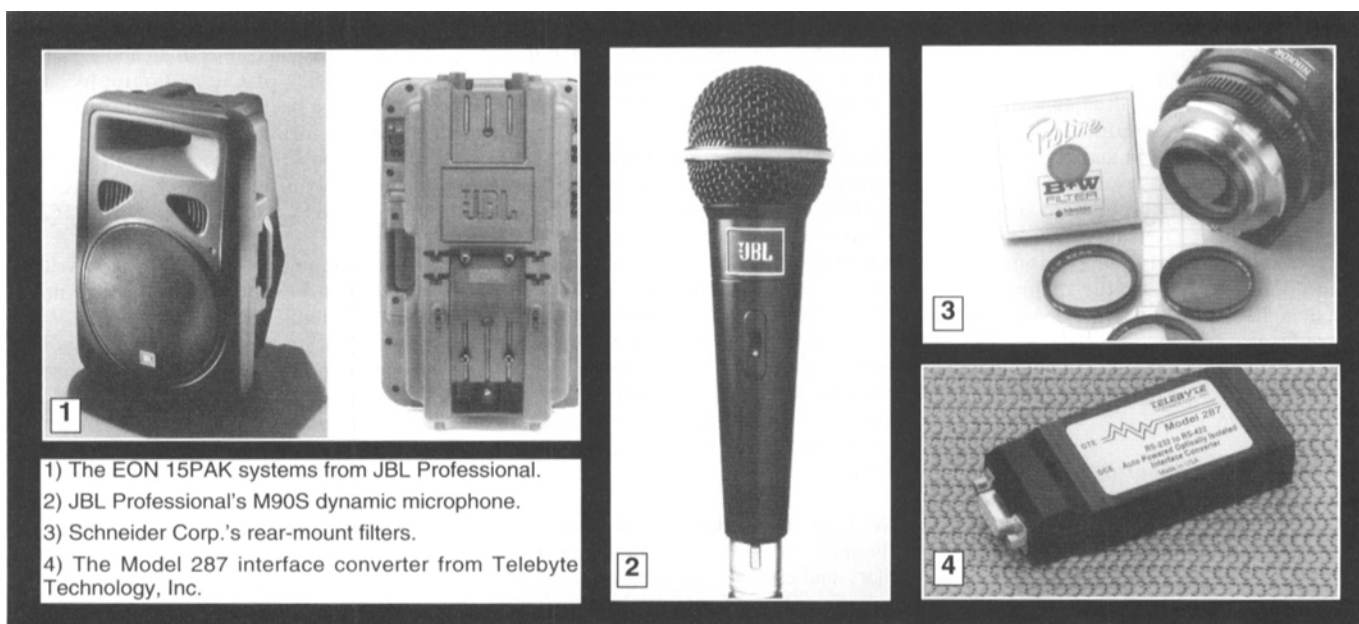
Projection Equipment

The XG-E670U is an LCD all-in-one projection system from Sharp Electronics Corp. that allows users to project computer images in 800 x 600 resolution, SVGA format. It features 250 ANSI lumens of light output and a 350-W metal halide light source, and it has a 6.4-in. 16.7 million-color TFT active matrix LCD with 307,200 RGB pixels in an in-line stripe configuration. The XG-E670U was designed to accommodate a variety of computer and video sources, including VCRs, camcorders, and laser disks.

Signal Processing

The Chameleon information display system has been introduced by FrameRate Corp. The unit is fully contained in a single computer assembly and is designed for commercial cable operators; public, education, and government access channels; enterprise-wide cable systems; and other situations requiring information display. Chameleon has the ability to create, schedule, and display multimedia content over broadband cable television networks.

The Lightwinder system from Otari Corp. consists of a multichannel Stage Master and Control Master connected by fiber-optic cable and provides an optical digital link between the stage and mixing



- 1) The EON 15PAK systems from JBL Professional.
- 2) JBL Professional's M90S dynamic microphone.
- 3) Schneider Corp.'s rear-mount filters.
- 4) The Model 287 interface converter from Telebyte Technology, Inc.

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@frc.com, WWW: http://www.frc.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.