

New Products

Cables and Connectors

The Install Plenum cable from Extron Electronics incorporates computer video, composite video, audio, and control in one single-jacketed plenum-rated cable. It includes six mini, high-resolution coax conductors as well as four sets of twisted pair wires. RGBS, audio, video, and control can all be distributed from a wall plate/podium to a rack.

The 7537 digital video cable from Gepco International and CommScope is a 75- Ω miniature analog and serial digital video cable with a 25-AWG stranded bare copper center conductor. The dielectric is constructed of foam polyethylene that provides a 78% velocity of propagation. The shielding consists of a 100% aluminum/polyester foil and a 93% tinned copper braid. Its flame-retardant PVC jacket conforms to NEC article #800 and is UL-listed type CM. The cable comes standard with sequential footage markers for easy identification of cable lengths and remaining reel footage.

Compression Equipment

Leitch Technology Corp. has introduced an **MPEG-2 compression module supporting the 4:2:2 profile at main level**. The single-board unit fits into a 3-RU DigiBus frame and, using IBM's latest MPEG chip set, provides I, IP, IPB, and GOP structure support.

The Dynamo Déjà Vu MPEG-2 time delay system from Viewgraphics, Inc., uses a Silicon Graphics Challenge Server to directly record, delay, and play out compressed digital video data streams. The sys-

tem supports such features as service interruption alarms and redundant configurations with automatic failure mode switchover. Multiple configurations are supported up to a completely redundant multichannel system with RAID-3 storage to ensure the ultimate in high availability and fault tolerance. All material is stored with error correction information so that in the event of a drive failure, the video/audio data is transparently reconstructed on the fly seamlessly and is invisible to the operation of the broadcast system.

Editing Equipment

The Lightworks V.I.P editing system from Tektronix is aimed at replacing conventional multiple-VTR on-line tape-based editing systems in broadcast television and facilities companies, the V.I.P system brings together the Lightworks user-interface, incorporating the dedicated Lightworks editor's console, graphical user interface, and advanced database capability; Tektronix's Profile disk-based technology, providing four broadcasting-quality independent channels; and video manipulation skills from Grass Valley.

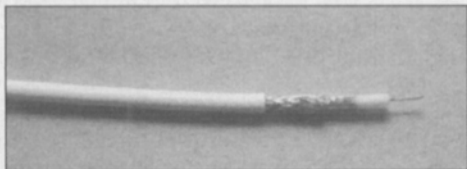
Videonics, Inc., announced its **TitleMaker 3000 character generator**, which offers more than 200 font-size combinations with each individual font numbered for fast access. Users can store over 20,000 characters on hundreds of pages. Other features include one million colors displayed over a wide range of animated patterns and video and character enhancement using several shades of bold, shadows, and outlines. Titles can be placed and removed via 24 special transition effects as well as eight speeds of scroll and crawl.

Lenses/Optics

Century Precision Optics introduced the **4.5-mm double asphere attachment for its 6-mm T1.9 lens**. This slip-on attachment expands the 6mm prime's already wide field of view from 92.4° to 107.9° (measured horizontally). Century's 6-mm lens equipped with the 4.5-mm double asphere attachment effectively gives the user two lenses in one: a wide 6-mm T1.9 or an even wider 4.5-mm T1.9. The attachment features advanced aspheric optics; its single element features two aspheric surfaces for low distortion and lighter weight. The front of the attachment forms a wide-angle lens shade and includes a slot for a Panavision-size filter in a holder.

Fujinon has introduced a **family of 1/3-in., 3-CCD lenses**. These C-mounted lenses, designed for 3-CCD color cameras, include Fujinon's T6X6.5DA-MPX71, T10X6DA-MPX21, and T14XS.SDA-MPX41 1/3-in., 3-CCD zoom lenses, which can be used for teleconferencing and imaging. The 6X6.5 features an iris range of F1.6 to F16 and a focal length range of 6.5 mm to 39 mm. The 10X6 lens also has an iris range of F1.6 to F16 with a focal length range of 6 mm to 60 mm. At the high end of the zoom lenses is the 14X5.5, which has a motorized iris for use with CCD iris cameras, a focal length range of 5.5 mm to 77 mm and an iris range of F1.4 to F16.

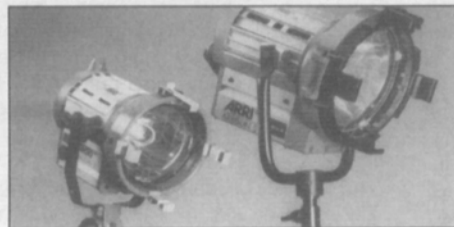
Also from Fujinon is a new line of economical **1/3-in. format lenses**, including a family of four manual iris and four DC auto iris lenses. Manufactured for the widest range of security applications, the family has two groups of 2.8, 4, 8, and 16-mm CS-mount



The 7537 miniature digital video cable from Gepco International.



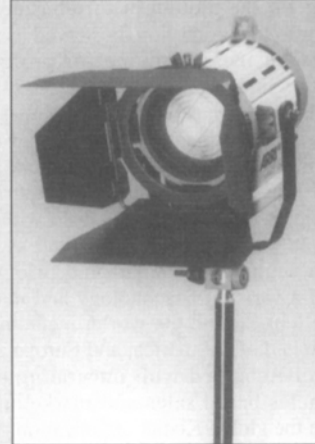
Century Precision Optics' 4.5-mm double asphere attachment for its 6 mm T1.9 lens.



The Arrisun 2 (left) and Arrisun 5 from Arriflex.



Arriflex's Arrilux 125 pocket par.



The ARRI 125-W compact HMI from Arriflex Corp.

lenses, one manual iris group, and one auto iris group. As with most Fujinon lenses, each of these new lenses has a low F number for low light level applications. The 2.8-mm lens is F1.3, the 4-mm is F1.2, the 8-mm is F1.2, and the 16-mm is F1.4.

Fujinon's **lenses for micro-miniature cameras** offer imaging quality in an extremely compact design. The 1/3-in. micro lenses are designed for virtually any application where space is limited. The YF4B-7 is a 4-mm, wide-angle lens, and its counterpart, the YF12B-7, is a 12-mm telephoto lens. The wide angle lens features a focal length of 4 mm and an iris range of F2 to F11. The YF12B-7 has a focal range of 12 mm and an iris range of F2 to F22. Both lenses feature a 10.5-mm screw mount.

The **OpTex OT618 zoom lens** is designed to fit directly on to the Sony XC-999, the Pulnix TMC-X, and, via a lens adaptor, the Toshiba IK-M48PK camera. The lens has a 3:1 zoom ratio in the range of 6 to 18 mm with a maximum aperture of $f/2.8$. It is available in two versions: manual or with motorized zoom, focus, and iris control.

Lighting Equipment

The **Arriflux 125-W daylight pocket par** from Arriflex Corp. uses a specially coated glass reflector for its high-efficiency light output and a snap-on diffusion lenses to control the beam angle. A set of three lenses for spot, medium, and wide angle beam is available. It offers a focus adjustment and is powered by either AC or compact 24 to 30 DC electronic ballast. The pocket par's performance in a spot is 1170 Fc at 10 ft.

Arriflex's **ARRI Compact 200W and 125W HMI Fresnels** use the housing of the Arri 300W and 650W Fresnels, and also share accessories with these tungsten fixtures. A high light output and smooth, even field are achieved through an innovative lens and reflector design.

The **Arrisun 2 (200-W) and Arrisun 5 (575-W)** from Arriflex Corp. are small and portable HMIs, that offer a five-lens set and built-in focus control for a seamless range from spot to super wide angles. Each light was designed with a specially developed computer program to simulate the interdependence of lamp, lens, and reflector to calculate maximum performance. Both fixtures can be powered by an AC or DC electronic ballast.

Projection Equipment

The Corp. for Laser Optics Research has announced **ColorVision**, an imaging system that uses three solid state red, green, and blue pulsed lasers to produce high-resolution large-screen display projection. ColorVision uses multiple timing clocks

and proprietary software to control vertical and horizontal imaging that paints the screen with true colors. It projects images using **Software Pixels**, which enables the user to control each pixel so that images can be manipulated to produce bright, high-resolution images.

Signal Processing/Transmission Equipment

The **Lancia** from Extron Electronics is a high-resolution, digital video line doubler that doubles the resolution of standard video and also eliminates most of the chroma noise found in standard television video signals. Two inputs — one S-Video and one composite video — make the unit a universal line doubler compatible with all video sources as well as a two-input switcher. In addition, a built-in time base corrector (TBC) actually cleans up low-quality videotape noise so that a stable, sharp image is ensured. The Lancia's motion mode compensation feature reduces the "jaggies" commonly found on video line doublers to provide the highest possible image resolution.

Switchers and Routing Systems

The **Matrix 50 series switcher** from Extron Electronics incorporates universal I/O slots for composite video, S-Video, component video, and balanced or unbalanced two-channel audio, ultimately providing users with a switcher/router that meets their specific requirements. With 28 possible switcher combinations, including audio, there is a system configuration to suit every application. The switcher has an 80-MHz (-3 dB) bandwidth and vertical interval video switching. The audio level control allows adjustment of the audio level from any input, balanced or unbalanced, via the front panel buttons.

Test/Masurement Equipment

Boonton Electronics Corp. has introduced the **Expert 7831 universal video field analyzer**, a versatile portable instrument that fully characterizes NTSC, PAL, SECAM, QPSK, MAQ, and D2MAC broadcast signals in the field. It has the ability to measure carrier level, spectral distribution, error rate, CNR, DC volts, and the quality of teletext and page displays. Frequency ranges include 5 to 55 MHz, 86 to 108 MHz, 50 to 865 MHz, and 950 to 2050 MHz. The instrument is powered by a rechargeable 12-V DC 5-Ah NiCd battery pack, which provides operating time of 4 hr. for terrestrial signal measurements and 1 hr., 45 min. with all options invoked.

Video Recording/Playback Equipment

HHB Communications, Inc., has introduced the **PORTADAT DAT recorder with PDR1000TC/master sync**, which provides

extremely accurate jam syncing with time-code film cameras, ensuring that the drift will not be more than one frame in 10 hr. The recorder now has the ability to pull up at the 29.97 frame/sec drop to 30 frame/sec drop via a single switch. LEDs indicate operational status of the 30 frames/sec drop.

Tektronix, Inc., introduced the **PRS200 (Profile raid storage) system** as an option for its Profile professional disk recorder. Developed for the "on-air" broadcast market, the PRS200 provides immunity from disk drive, power supply, and fan failures while increasing the storage capacity of the Profile PDR to 96 hr of broadcast quality video. The PRS200 system's hot swap and redundant drives, power supplies, and fans virtually eliminate mechanical system failures. When a component fails, the system indicates the failure and switches to the redundant unit. For a disk drive failure, the PRS200 automatically rebuilds the data on the replacement drive while the system remains on-air playing out all four channels at Digital Betacam quality.

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

Arriflex Corp., 617 Route 303, Blauvelt, NY 10913-1109, tel: (914) 353-1400, fax: (914) 425-1250

Boonton Electronics Corp., 25 Eastmans Rd., P.O. Box 465, Parsippany, NJ 07054-0465, tel: (201) 386-9696, fax: (201) 386-9191

Century Precision Optics, 10713 Burbank Blvd., N. Hollywood, CA 91601, tel: (818) 766-3715, fax: (818) 505-9865

Corp. for Laser Optics Research, 601 Spaulding Tpke., Portsmouth, NH 03801, tel: (603) 430-2023, fax: (603) 430-2058

Extron Electronics/RGB Systems, Inc., 1230 S. Lewis St., Anaheim, CA 92805, tel: (800) 633-9876 or (714) 491-1500, fax: (714) 491-1517, WWW: <http://www.extron.com>

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

Gepeco International, Inc., 2225 W. Hubbard, Chicago, IL 60612-1613, tel: (312) 733-9555, fax: (312) 733-6416

HHB Communications, Inc., 43 Deerfield Rd., Portland, ME 04101, tel: (207) 773-2424, fax: (207) 773-2422

Leitch Technology Corp., 25 Dyas Rd., N. York, Ont., Canada M3B 1V7, tel: (416) 445-9640, fax: (416) 445-0595

OpTex, 20-26 Victoria Rd., New Barnet, N. London, U.K. EN4 9PF, tel: +44 (0) 181-441 2199, fax: +44 (0) 181-449 3646, e-mail: info@optext.com, WWW: <http://www.optext.com/optext/>

Tektronix, Inc., 14180 S.W. Karl Braun Dr., P.O. Box 500, Beaverton, OR 97077-0001, tel: (800) 835-9433

Videonics, Inc., 1370 Dell Ave., Campbell, CA 95008-6604, tel: (408) 866-8300, fax: (408) 866-4859

Viewgraphics, Inc., 1340 Space Park Way, Mountain View, CA 94043, tel: (415) 903-4900; (415) 969-6388
