

Memo to Members:

Have you signed up a new member lately? As one who has chosen to belong to SMPTE, you are aware of the benefits of SMPTE membership. Among these benefits are the prestige of being associated with the world's premier professional organization in the fields of motion pictures and television, the monthly *SMPTE Journal*, the local section meetings, and the annual conferences and equipment exhibits. If you know someone who meets SMPTE's requirements, you can offer to sponsor him or her for membership. This is the best way to help strengthen the Society and point someone toward increased professional growth.

Applications are available from:

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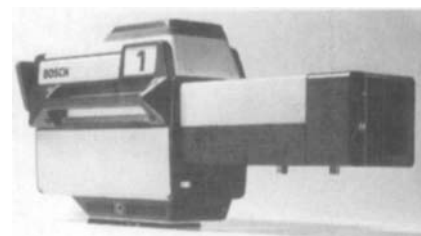


New Products

Further information about these items can be obtained from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

The external Bragg reflecting laser (EBRL), a new laser device developed by RCA Laboratories, Princeton, NJ 08540, is expected to have applications in the fields of space communications, fiber optics, and optical processing. Solid-state diode lasers exhibit wavelength changes because of temperature, power level changes, and the pulsating laser driving currents required to put information on the light beam.

The new EBRL laser is reported to provide wavelength stabilization using an external waveguide containing a reflective grating and made of different material than the laser itself. The advantage of this approach is that it allows optimized and well-developed high-power diode lasers (such as RCA's CDH-LOC) to be combined with optimized waveguide units to achieve stabilization at a desired wavelength. The external waveguides may also be used to shape the light beam and to assist coupling the light onto optical fibers.

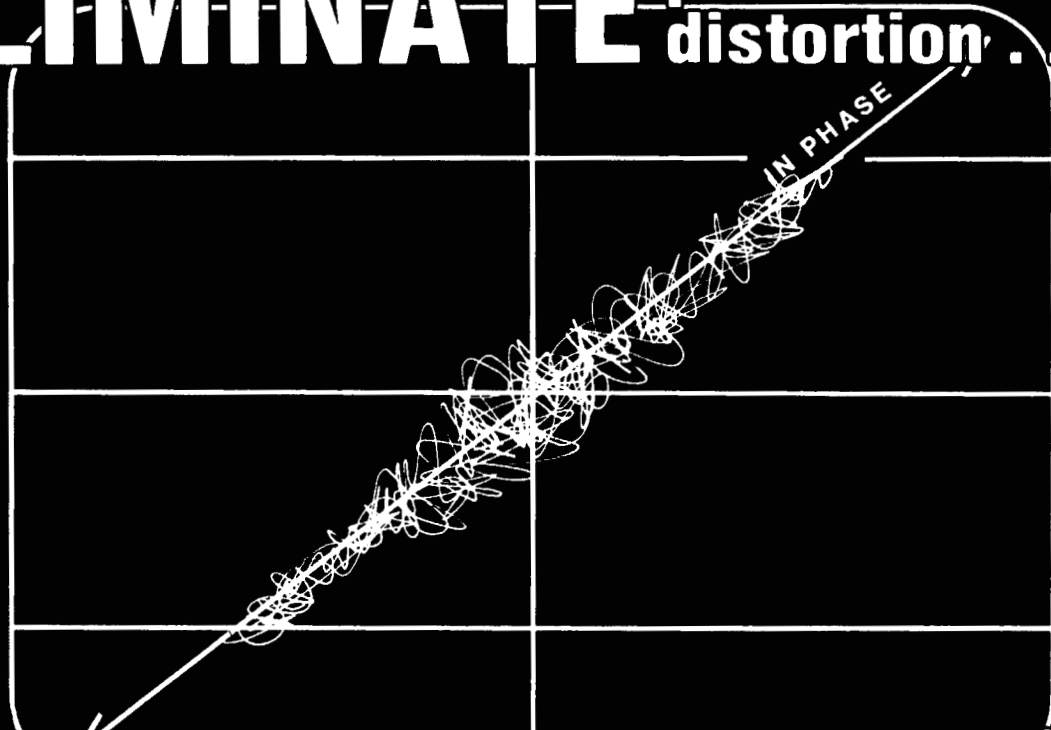


Bosch KCP 60 studio camera

The KCP 60 studio camera, designed to meet the studio and production requirements of regional TV stations, has been announced by Robert Bosch GmbH, Robert Bosch Strasse 7, D-6100 Darmstadt, Federal Republic of Germany. The camera is equipped with $\frac{2}{3}$ -in. Plumbicons with beam current control in case of over-exposure. Even at illumination levels of only 100 lux, high picture quality is achieved with optimum protection against highlights. The camera head can be placed up to 500 m away from the base station; 150 m is the maximum distance between the base station and the master or auxiliary control unit.

Also announced by Bosch were the KCA 110 portable camera and the KCF 1 studio camera. The KCA 110 can be used

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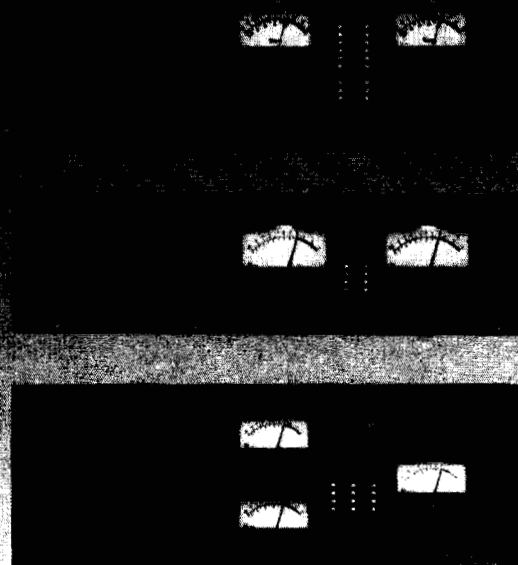


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Weight: 6½ Pounds



Photo: Producers East Media, Inc.
Melville, NY

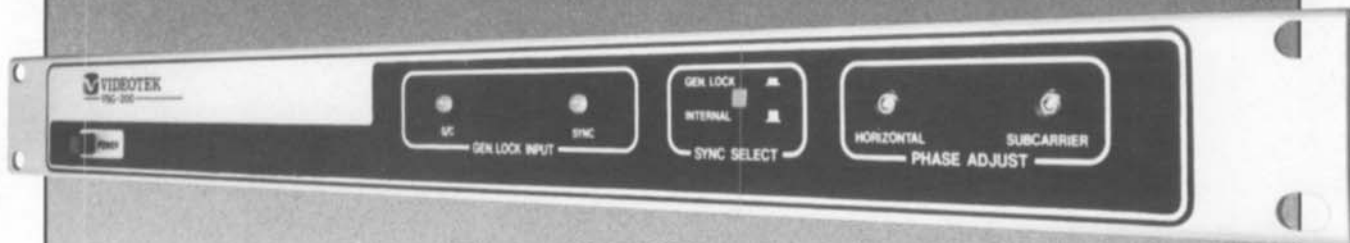


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A DECADE OF PROGRESS

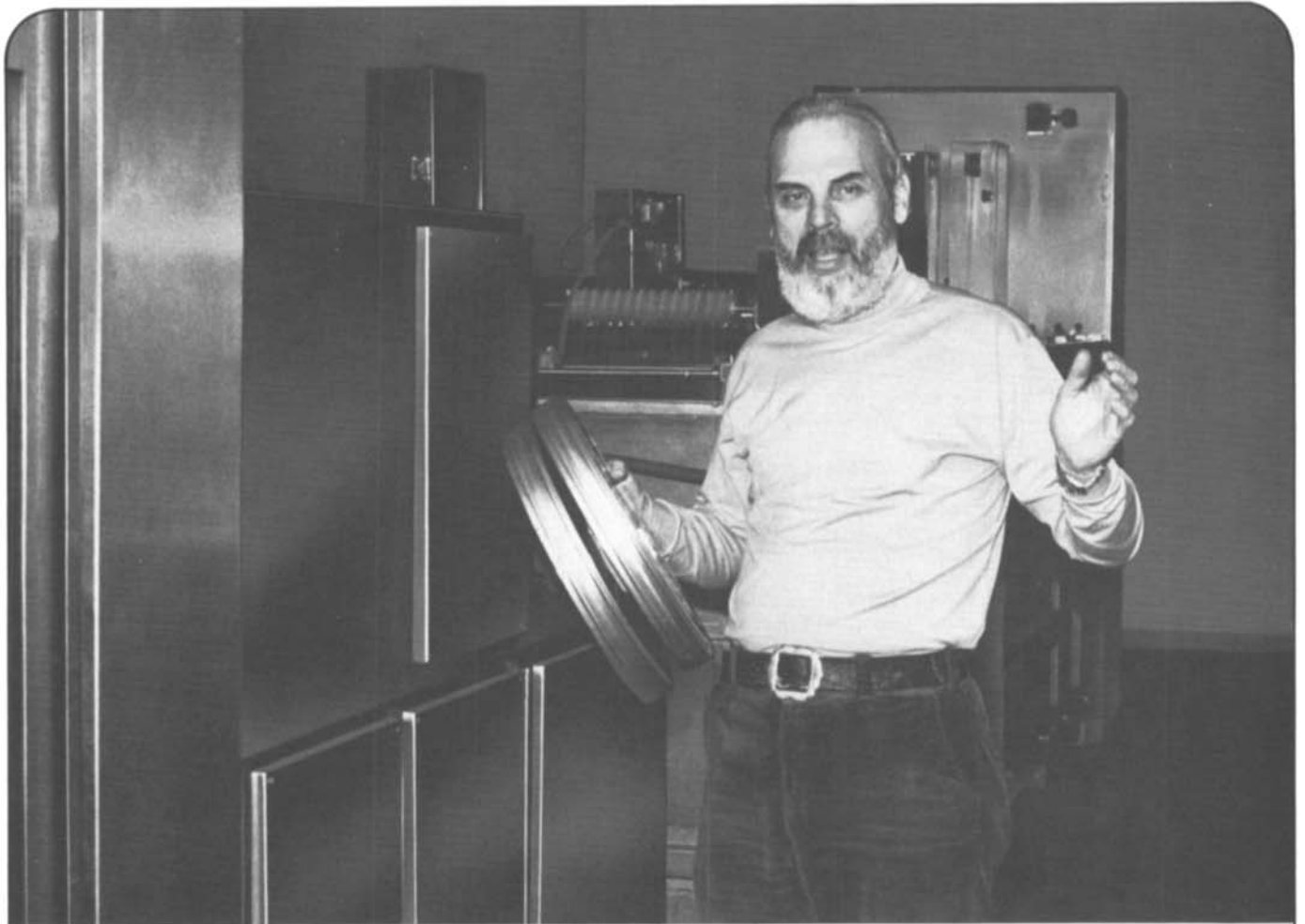


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Take the Guesswork Out of VTR Service

Tentel now has 3 products for quickly and easily diagnosing the mechanical performance of VCR's and VTR's.

The **Tentelometer**® tape tension gauge is the world standard for tape tension measurements to prevent skewing and interchange problems. New **Tentelometer**® models are available for SMPTE 1" Type "C" VTR's and Betacam VCR's.

The TSH gauge series locates problems causing edge damage and binding cassettes, the two biggest causes of tape destruction—available in 3 format sizes for Beta/Betacam, VHS/Recam, and mini/full size U-matic VCR's.

The New HPG head protrusion gauge series represents a breakthrough for an accurate, easy to use method of determining head life; takes the guesswork out of video head replacement. The HPG-1 for Beta/Betacam, VHS/Recam, and U-matic VCR's measures head tip protrusion and drum eccentricity in both microns and ten thousandths of an inch. The New HPG-C is the first universal head protrusion gauge for the SMPTE 1" Type "C" VTR's and measurements conform to the SMPTE measurement specification. These gauges also can be used for measuring drum eccentricity. These 3 products allow the entire mechanical performance of a VTR or VCR to be measured in just a few minutes, with no more disassembly required than the removal of the top cover on a VCR.

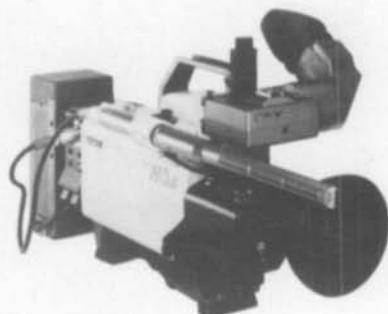
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as a single camera for ENG, or in combination with other cameras for location work or studio productions. The KCF 1 is a lightweight, compact color camera for professional studio applications. It weighs less than 6 kg and can be used for ENG and EFP, and in conjunction with VTRs.



Sony DXC-M3A video camera

The **DXC-M3A 3-tube color camera**, an improved version of the DXC-M3, has been announced by Sony Communications Products Co., Sony Dr., Park Ridge, NJ 07656. The new camera has simplified operating controls and a new viewfinder design that incorporates a tape counter when coupled with the new VO-6800 VTR. The DCX-M3A also has improved resolution, 750 horizontal TV lines, and geometric distortion of less than 0.7%. Also new is the RS-170A sync generator. A color framing pulse output is also available.

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Eastman Kodak MVS-5380 8mm VCR

The **MVS-5380**, a stand-alone 8mm VCR, has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The VCR incorporates pulse-code-modulated technology. Both the dynamic range and frequency response are reported to be close to those of the digital compact disc. Although compact discs can only play back audio, the MVS-5380 system can record and play back both video and digital stereo sound. The main components of the system are an MVS-5000 8mm audio-video recorder and an MVS-380 stereo tuner-timer.

The **KEY-MEM™ effects memory system** for the Model 100 and 100CV (component video) production switchers has been announced by the Grass Valley Group, P.O. Box 1114, Grass Valley, CA 95945. The system provides single button recall for 16 memory registers. Each register

See Frezzi™ products at SMPTE Booth 434



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Grass Valley KEY-MEM™ effects memory system

stores the complete control panel setting of either switcher. Removable storage of effects is in the form of a plastic “key” that contains a read/write memory holding all 16 memory registers.



Colortran zoom mini ellipsoid

A new line of zoom mini ellipsoids has been announced by Colortran Inc., 1015 Chestnut St., Burbank, CA 91506. Features include a new computer-aided lamp and reflector designed for efficiency and high light output.

VID VIDEO

announces

O-FRAME OFFSET ADDRESS TRACK MODIFICATION:

- Update all VO-5850, VO-5800, VO-5600, VP-5000
- Allows third channel time code capability
- Head switch to 2¼ H/V sync (like BVU-800)

SHUTTLE I

- A new remote controller
- Adds shuttle knob to VP-5000 or VO-5600
- Allows same control as VO-5800 or VO-5850
- Variable speed—0 to 5X in forward and reverse
- Great for logging time code numbers
- Control track readout

SHUTTLE II

- A new interface box
- Allows use of VP-5000 or VO-5600 with:
RM-440, ECS-90, ECS-204
- Saves \$2,000 per playback VTR
- Allows for full shuttle and bump commands (like VO-5800)

**Contact:
Russell W. Glenn**

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Strand Century zoom Lekolite

A new 1000-W zoom Lekolite has been announced by Strand Century Inc., P.O. Box 9004, Rancho Dominguez, CA 90224. The new fixture provides a variety of lighting patterns from a hard-edged spot to Fresnel-like softness. The focus



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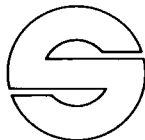
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range is from 15 to 40°, and a new sliding yoke has been added for better balance and ease of operation. The TP-22 lamp socket accommodates axially mounted tungsten-halogen lamps (500, 750, and 1000 W). Four push shutters provide easy light pattern control.



Osram Video 300S studio light

The Video 300S, a 300-W tungsten-halogen studio light has been announced by Osram Sales Corp., P.O. Box 7062, Newburgh, NY 12550. The light was designed by Osram, a German lighting manufacturer. The 300S can use any 110-V ac power source, providing even illumination and enough power for bounce lighting. It operates at a color temperature of 3200°K. A conversion filter can be used to provide a temperature of 5600°K. The light weighs only 14 oz.



Fujinon 20X studio lens

A new wide-angle 20X studio lens has been announced by Fujinon Inc., 672 White Plains Rd., Scarsdale, NY 10583. The maximum aperture of $f/1.2$ remains flat from 14 to 210 mm ($f/3.0$ at 280 mm). Viewing ports on the lens shroud show the f -stop and focal length information. Virtually all adjustments and controls are accessible without removing the shroud. They include back focus adjustment and lock, servo/manual switch for built-in extenders, circuit breakers, tally light switch, and pattern projector operation.

A new series of wide-angle lenses, intended to simplify and improve projection where short focal lengths are required, has been

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SYNCHRONIZER/CONTROLLER**

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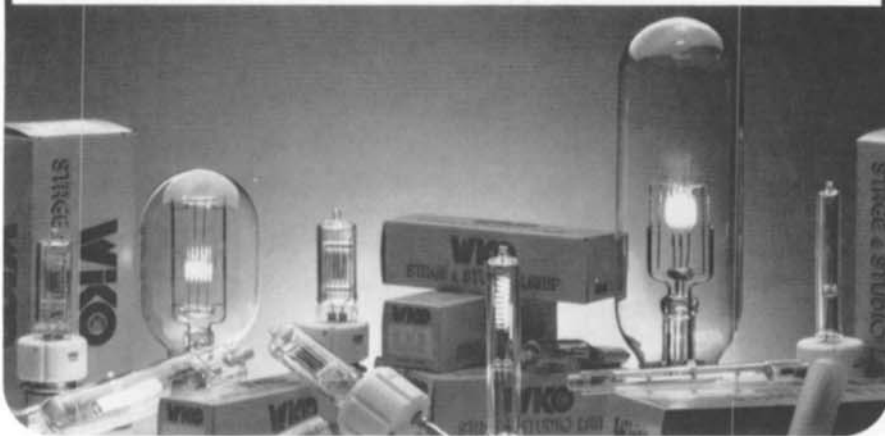
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Schneider wide-angle lens

announced by Schneider Corp. of America, 400 Crossways Park Dr., Woodbury, NY 11797. Available in 30, 35, 40, and 45mm with apertures of $f/2$, the lenses are compatible with all nonanamorphic 35mm formats. Designed for 35mm motion-picture projection, these 7-element retrofocus lenses are air spaced and designed to withstand the high-luminous flux inherent in motion-picture projection.

TV Technology

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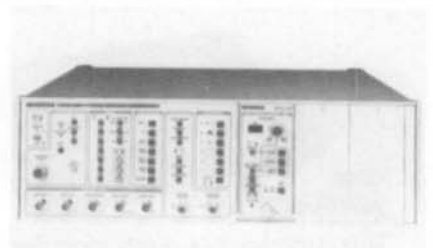
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Leader LCG-420 NTSC sync/test pattern generator

The LCG-420, an NTSC test pattern/signal generator, designed for professional video applications, has been announced by Leader Instruments Corp., 380 Oser Ave., Hauppauge, L.I., NY 11788. The generator's mainframe has a precision sync generator, color bar generator, convergence generator, and routing switcher. Up to three modules can be accommodated: a multi-burst/video-sweep unit, a linearity generator, and a pulse-bar unit.

The 903E space-saving switcher has been announced by Intergroup Video Systems Inc., P.O. Box 1495, Gainesville, FL 32602. The 903E was designed for use in small studios, post-production, and remote vans. The switcher is computer-controlled and has two mix/effects systems and input with full tally.