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New Products & Developments

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.



Improvements to the RCA TK-76C ENG camera and the TK-760 studio/field production camera, and a new model, the TK-780 production camera operating on triax cable, have been announced by RCA Broadcast Systems, Camden, NJ 08102. Enhancements to the TK-76C ENG/EFP camera and to the TK-760 production camera include a new system for contrast compression and an increased gain mode for operation in low light conditions. The cameras use electronic circuitry to pull detail out of dark areas in high contrast scenes. Details in shadow areas also are enhanced without affecting highlights and without desaturating colors, according to the announcement. For shooting in dim conditions where extra light cannot be provided two different high sensitivity gain modes are available — +9 dB and +18 dB.

Other improvements to the TK-76C portable camera include a reduction in power consumption to 37 W and improved signal-to-noise ratio, achieved through the use of improved pre-amplifiers and special low capacity tubes and associated yokes. The TK-76C can operate by remote control over any standard triaxial cable at lengths up to 5000 ft and in a wireless configuration with a portable microwave unit replacing the cable.

The TK-780 (shown above) is a new triax version of RCA's studio/field production camera. It retains the operational and control features of the multicore cable model while adding the advantages of triaxial cable operation.

Prices are: for the TK-76C, \$41,500; for the TK-760, \$56,000; and for the TK-780, \$70,000.

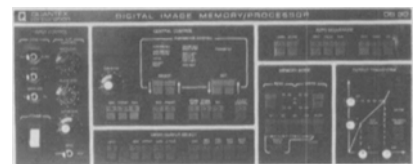
The TK-29 telecine systems, a new series of photoconductive telecine cameras for television station film origination and with features designed to meet teleproduction requirements, have been announced by RCA Broadcast Systems, Camden, NJ 08102. The new units are mechanically interchangeable with the RCA TK-27 and TK-28 telecine cameras. Three TK-29 models are currently available.



All three models have a new pre-amplifier design with excellent signal-to-noise ratio performance achieved by coupling the input semiconductor device directly to the pickup tube target. Newly designed computer-matched deflection yokes provide for repeatable registration and improved focus. The camera is available with a choice of 25-mm vidicon and Saticon tubes or 30-mm lead oxide tubes with integral bias light. Advanced negative-film processing electronics enable the cameras to handle many types of negative film stock. The standard TK-29 model, designed to meet the normal operational requirements of television broadcasters, is priced at \$60,500.

The TK-29B has additional features for broadcast operations demanding higher performance levels. It has precision low-capacity yokes for improved registration as well as a wide band linear aperture correction system. It is priced at \$72,000.

The TK-29C has a built-in dc interface that provides quick access to 29 variable functions in the camera to correct and improve colorimetry, contrast, and exposure for the pickup of all types of motion picture film and slides before transfer to videotape or direct transmission to air. The dc interface can be controlled by an RCA multiple event programmer, by a vendor-supplied computer-controlled color correction system or by a custom-designed corrector built by the user. The TK-29C is priced at \$80,500.



The DS-30 digital video processor providing real time video image processing has been announced by Quantex Corp., 252 N. Wolfe Rd., Sunnyvale, CA 94086. The processor



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can perform nine different video image processing functions in real time without the aid of software. They are: (1) *Sum*, (digital integration) which improves the contrast and signal-to-noise ratio of faint images; (2) *Average*, which reduces noise while continuously viewing an image; (3) *Store Input*, which records a transient image; (4) *Difference*, which displays change, makes comparisons or subtracts background; (5) *Gray Scale Transform*, which expands or compresses desired gray scale; (6) *Edge Enhance*, which performs a one dimensional edge enhancement; (7) *Memory Halving*, as well as *Quartering*, which can independently store and process two 512 × 256 or four 256 × 256 pixel images in memory; (8) *Contour*, which amplifies a selected span of gray levels to full output range while all gray scale levels below that range become black and all levels above that range become white; and (9) *Window*, whereby a selected span of gray levels is amplified to full output range while all gray levels below that range become black and all levels above that range become white.

Applications include astronomy, industrial radiography, optical microscopy, electron microscopy, product inspection, medical fluoroscopy, noise clean-up of videotape prior to computer analysis, surveillance, target identification, and image transmission. Prices for the DS-30 range from \$34,000 to \$48,000 depending on various options.



A 14× high resolution television lens with a built-in 2× range extender (shown above) has been announced by Fujinon Optical Inc., 672 White Plains Rd., Scarsdale, NY 10583. The lens, which includes a built-in 2× range extender, can read 1300 television lines. Because the taking lens moves with the zoom, greater color convergence results. MTF is said to exceed 90% in red, green, and blue. Designed for microprocessor equipped cameras, the lenses incorporate a compact, built-in, three-lamp test pattern projector. The 14 × 16.5, f/2.1 for 1¼-in format and the 14 × 12.5 f/1.6 model for 1-in format offer constant maximum aperture in all zoom and focus ranges. The price range is approximately \$28,500 to \$30,000.

Also announced is a 12 × 9 ENG zoom featuring a fast f/1.7 aperture plus a built-in 2.2× extender. The normal zoom is 9 to 108 mm. With the lever-activated extender in place the range is 19.8 to 237.6 mm. The lens is said to be 20% lighter than the previous model due to a more compact servo unit and the use of magnesium construction. The price

is about \$4200. A less expensive ENG lens without the 2.2× extender but with the other features is available. It is priced at about \$3500.

Fujinon also announced a 22× EFP zoom lens. Weighing only 3.8 kg, the lens offers *f*/2.0 speed plus two zoom ranges. The normal range is 12.5 mm to 275 mm and by moving the lever-controlled built-in 2× extender the range is changed from 25 mm to 550 mm. Other features include servo/manual zoom, automatic iris and adjustable back focus to speed lens changing. The price is approximately \$12,000. Complete conversion accessories are available for conversion to studio use.

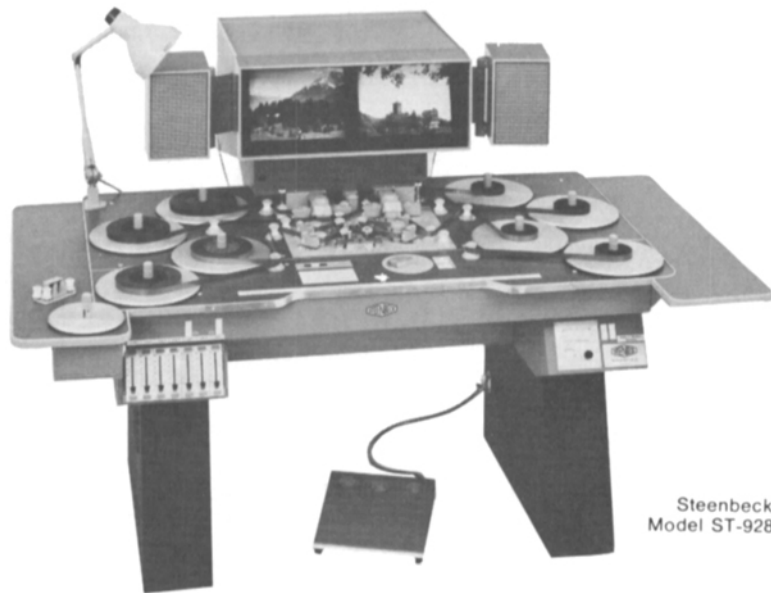


The Harris AM-90 AM Modulation Monitor has been announced by Harris Corp., Broadcast Products Div., P.O. Box 4290, Quincy, IL 62301. Its design features include elimination of the moving coil meter as a display device using instead a neon bar display said to offer distinct advantages over previous designs incorporating electromechanical meters. The AM-90 is designed for continuous monitoring of the amplitude modulation envelope in the 450 kHz to 30 MHz frequency range. With the AM-90 the station operator has a choice of multiple display ballistics including FCC specified or peak reading. An optional remote display panel is available which duplicates most functions for measurements at distant locations. The AM-90 is an all solid state self-contained rack mounted unit consisting of a compact mainframe and two printed circuit cards. All controls are front panel mounted. Connections to a remote unit, primary power and RF inputs are mounted on the rear of the chassis. Other features include an internal AGC which maintains accuracy even with carrier drift, a digitally programmable selectable peak flasher and built-in carrier and modulation alarm units. The price is \$1500.



A 3 1/2-ft light bar audio recording meter intended for motion picture dubbing theater use has been announced by Westrex, 2629 West Olive Ave., Burbank, CA 91505. Designated the RA-1558-B, the device displays the audio signal with 20 sequentially lit color bars. It functions as a PEAK, VU or VI meter and is made for use vertically as well as horizontally. Light levels are fully adjustable and may be set for dim illuminations at all times. Its accuracy is reported at ± 0.25 dB from top bar to bottom bar (40 dB range). The frequency response is 30 Hz to 20,000 Hz, ± 0.25 dB. The unit is 10 1/2 in high, 42 in long and 12 1/4 in deep. The price is \$2300.

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