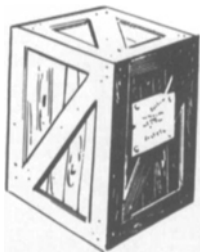


new products

(and developments)



.....
 Further information about these items can be obtained direct 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.

A nuclear device, developed at 3M Company, 3M Center, St. Paul, MN 55101, has been installed at Consolidated Film Industries, 959 Seward St., Hollywood, CA 90038, to solve the "dirt problem" in the processing of 8mm film. The device, called a 3M 210 Static Eliminator (Figs. 1, 2 and 3), is a self-powered, portable unit that needs no electrical connections. It produces ionized air which neutralizes both positive and negative charges. The ionization is done by nuclear isotopes caged in hollow ceramic beads that prevent migration of the isotopes and make them harmless to personnel. The device is leased from 3M on a yearly basis and does not require a license from the Atomic Energy Commission.



Fig. 1. 3M 210 Static Eliminator.

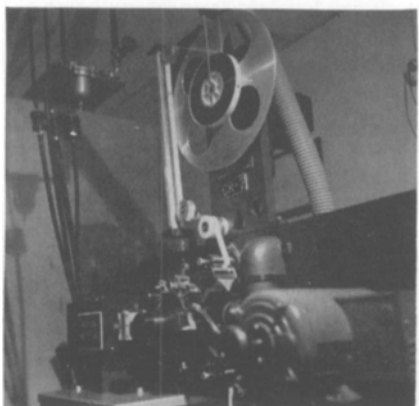


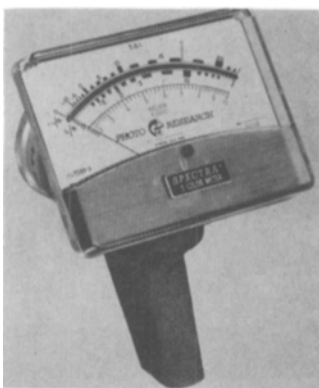
Fig. 2. Static Eliminator on quad printer at Consolidated Film Industries.



Fig. 3. State Eliminator mounted on super-8 dual rank printer at Consolidated Film Industries.

The 3M 210 Static Eliminator is used in the 8mm department at Consolidated Film because micron-size dirt particles are more visible during projection of 8mm film than 16mm or 35mm film on account of the higher magnification. Since using the Static Eliminator, Consolidated reports that rejects have been substantially reduced and the number of film reprints required because of minute dirt particles on the negative film have been cut in half. Procedures for assuring clean negative film include the use of a small and powerful vacuum cleaner which draws air across the surface of the negative film just ahead of the aperture. When the negative film is passed over the Static Eliminator on its way from the reel to the vacuum cleaner, it kills all static charges on the fast-moving film and releases the dust particles, making the vacuum cleaner operation more effective.

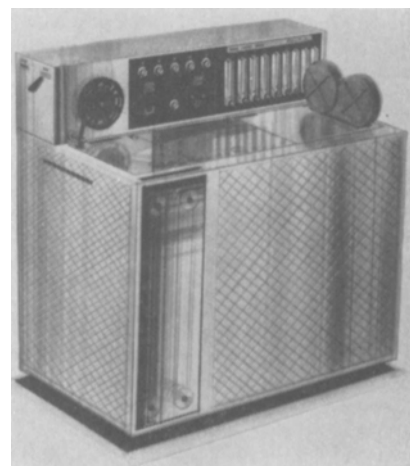
The standard unit is $\frac{1}{2}$ in thick and $1\frac{1}{2}$ in wide and is supplied in even lengths. The device used at Consolidated Film is 2 ft long. It snaps into a bracket that spaces the active surface of the Static Eliminator at a distance about half an inch away from the negative film as it passes from the payoff reel into the optical system.



The Spectra Film-Balanced Three-Color Color-Temperature Meter has been introduced by Photo Research Corp., Div., Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91502. The instrument is described as "seeing light just as the film

does." The instrument was described in a paper by Petro Vlahos and Richard A. Walker, "A New Film-Balanced Three-Color Color-Temperature Meter," presented at the Society's 108th Conference in New York.

A new color positive release print film, Type 650, has been announced by 3M Company, Photographic Products Div., Box 3050, Dept. PhO-12, St. Paul, MN 55101. The film is reported to produce high quality release prints from first and second generation 16mm and 35mm negatives in both color and sound. The emulsions are the thinnest possible and have been optimized and balanced for high-speed printers and desired projection contrast. The base is a cellulose ester with anti-halation backing. The film was described in a paper by L. Franchi and P. Bonelli ("A New Color Positive Film") presented in October at the Society's 108th Conference in New York.

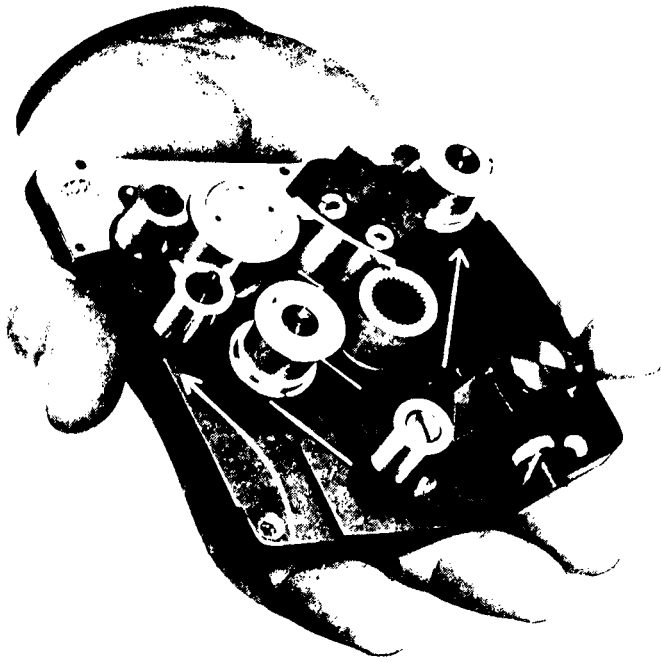


A new line of super 8 and 16mm film processors for microfilm and color reversal film called the FILMOpette processors has been introduced by Bell & Howell Photo Products Group, 7100 McCormick Rd., Chicago, IL 60645. Features include daylight loading, compact size, silent operation and economical processing. The processors range in size down to 48 in long by 54 in high by 24 in deep. Prices range from \$6,000 to \$18,000 depending upon the speed required and the specific film process involved.

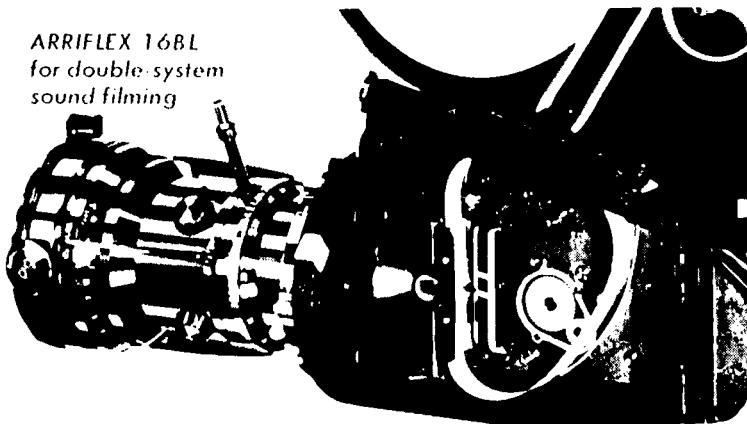
A new color TV camera, the RCA TK-44A utilizing the RCA ChromaComp, has been announced by RCA Corp.'s Commercial Electronic Systems Div., Camden, NJ 08102. The ChromaComp is a device used to allow the camera to be set to a universal color standard in respect to skin tones and product colors to eliminate further adjustment of the camera. Other features include calibrated color balance controls and full video output at 150 lux incident light. A typical TK-44A system is priced at about \$84,000.

A new ultra-high-resolution camera capable of providing horizontal resolution of over 1200 TV lines center and 1000 lines at the corners has been announced by Riker Corp., 142 Central Ave., Clark, NJ 07066. The camera, called the TC-55OSC, has a vertical resolution of 700 TV lines at 1029

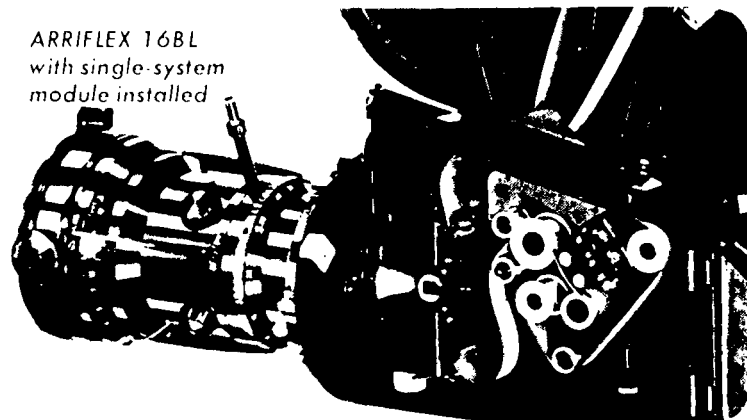
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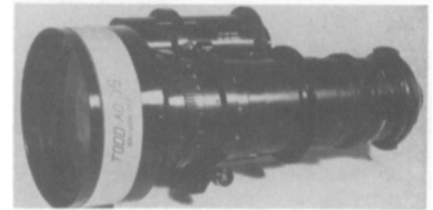
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lines/frame. The camera has fully automatic light compensation and is capable of handling scene illumination changes greater than 10,000 to 1 with the video output held constant at ± 6 dB. SNR is 40 dB with a minimum of 1-fc faceplate illumination. Features include silicon semi-conductors, modular glass epoxy printed circuit board construction, dual isolated video outputs, continuously variable gamma control and automatic sweep protection and pedestal control. The camera is priced at \$3,950.

A new heavy-duty automatic panner capable of supporting TV cameras weighing up to 100 lb has been announced by Vicon Industries, 13 Stepar Pl., Huntington Station, NY 11746. The panner, called Model V310 Auto-Pan can be programed to sweep any indoor or outdoor area on a horizontal plane. Features include heavy-duty aluminum construction and roller bearing support throughout. A dual motor system has been incorporated so that one motor winding is resting while the other is working. The panner is priced at \$275.



Todd-AO 35, a new anamorphic lens system for 35mm photography has been announced by Todd-AO, 1021 N. Seward St., Hollywood, CA 90038. The new lenses incorporate several new computer-designed concepts. The lens system is for anamorphic "scope" photography, providing a 2.35:1 aspect ratio. Focal lengths of 38mm, 50mm, 75mm, 100mm, 200mm and a motorized 10:1 zoom lens of 50mm to 500mm are available. The 200mm telephoto lens also serves as an insert or macro lens with a 1:1 close-up capability. An extreme wide-angle lens and several telephoto lenses up to 3000mm are available for special purposes. Existing "scope" projection lenses are used for exhibition of films photographed in Todd-AO 35. Features include a constant compression ratio at all focus distances from close-up to infinity. The lenses mount on BNC, BNC-R, Arriflex and Mark II cameras and are supplied with interchangeable mounts. The lenses and accessories are available from Todd-AO on a rental basis.

Two new automatic filmstrip sound projector combinations have been announced by Standard Projector & Equipment Co., 1911 Pickwick Dr., Glenview, IL 60025. The Model 40 automatic combination, for audiences up to 75 people, features a 6-in remote speaker with a 25-ft cable built in a detachable cover. The Model 60 automatic combination has a built-in screen with a detachable cover for use with small groups or study carrel applications. Both models have solid-state circuitry with silicon transistors for wide-frequency response. Features include a 4-speed gear-driven turntable, a dynamically balanced tone arm with a safety lock and an all-speed flip-type cartridge. The built-in receptacle



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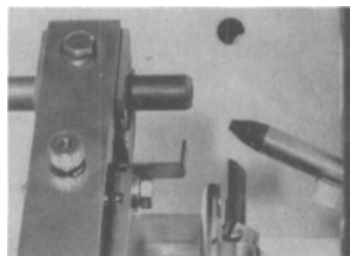
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for the projector includes switch, cord and connectors for remote control operation. With the 333RC 150-W projector the price is \$253.50. With the 666RC 300-W projector the price is \$264.50.



The Kombi 3 Kit, which combines in one lighting kit equipments from the Lowell Quartz and Lowell Link systems, has been announced by Lowel-Light Photo Engineering, 421 W. 54 St., New York, NY 10019. The equipments have been selected to provide numerous combinations of lighting set-ups, including booms, background supports, floor to ceiling poles, flags, diffusers, etc. Included are three Lowell Quartz "D," three 4-leaf barndoors, a specular reflector, a gold reflector and other equipments. The Kombi 3 Kit is priced at \$545.

The Lowell Soft Light, a portable 7-lb unit designed for location work, has been announced by Lowel-Light Photo Engineering, 421 W. 54 St., New York, NY 10019. The unit folds into a fraction of its working size. It opens in seconds and there are no separate lights to attach and balance. The reflecting surface is quickly removable. Accessory barndoors are available to shield the camera lens. The Lowell Soft Light can also be used as key or fill. It provides 70 fc at a 10-ft distance from two 500-W lamps. It is priced at about \$118. A set of four accessory barndoors is priced at \$24.



The Auto-Strike automatic arc ignition system for medium and large motion-picture theater projection has been introduced by C. S. Ashcraft Mfg. Co., 36-32 38th St., Long Island City, NY 11101. The system uses a polarity-charged third-electrode, supplied by Union Carbide's Carbon Products Div., that is automatically impulsed to ignite the arc. The igniter is electronically activated by the control system built into the 12-phase Ashcraft rectifier supply and triggered by a pre-set pulse in the booth automation system. If, for any

reason, the arc requires re-ignition, the striking mechanism is automatically operated instantaneously to re-establish the high-intensity carbon arc. The Auto-Strike system will be offered as optional equipment by Ashcraft on new Super Core-Lite and Super Cinex arc lamps to operate only with the Ashcraft S-1712-RS special high-reactance 12-phase heavy duty rectifiers.

A new line of audio control consoles designed for AM/FM/TV broadcast and recording studio applications has been announced by McMartin Industries, Inc., 605 N. 13 St., Omaha, NB 68102. Each of the B-801 monaural, B-802 stereo and B-803 dual channel models has eight input mixing channels with preselection of three sources for each mixer. Plug-in modules are used throughout. The basic modules accommodate three microphones, four unbalanced high-level and one balanced high-level mixing channels. A total of 27 input sources may be controlled. The consoles are self-contained and include complete, selective intercom facilities for three studios, four remote lines and a general paging location. The B-801 is priced at \$2,350; the B-802 at \$3,200 and the B-803 at \$2,650.

A new recording studio console, Model 9300A, has been announced by Altec Lansing, 1515 South Manchester Ave., Anaheim, CA 92803. The console is a modular, plug-in type. Features include the Altec Modulite volume level meter, a device which follows the audio envelope with a sequential pattern of colored lights to give the mixer a true picture of modulation. Other features include a channel check which provides individual check of all input lines without disturbing the program; a pre-cue pushbutton to transfer signals from the output buss to the cue buss; and echo facilities which permit selection of internal or external reverb devices and a bright or soft timbre.

A portable cassette rewind module has been announced by Telex Communications Div., 9600 Aldrich Ave. South, Minneapolis, MN 55420. The device has been designed for easy, rapid rewind of cassettes in classrooms and in conjunction with all cassette duplicating equipment. A single ON-OFF switch controls the entire unit which provides for simultaneous rewinding of three cassettes. A friction clutch and low torque drive system are incorporated to prevent tape damage and provide maintenance-free operation. The module is priced at \$124.95. It is available for either 115- or 220-V operation.

New FCC color filters to control visible and near infrared radiation for silicon and other radiation detectors have been announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, NY 10802. With a gallium arsenide emitter, an RG-780 filter (3 mm) blocks visible light and transmits the invisible 900-nm beam and thus improves security or reduces interference from visible sources. In an outdoors, daytime optical link using a modulated xenon source, an RG-N9 filter (3 mm) transmits principally the intense infrared lines and reduces interference noise due to sunlight by transmitting less than 1% be-

low 700 nm and above 1200 nm. Other filters are available for various requirements.

A high-speed gated photomultiplier that makes possible the tracing of single-pulse lasers on real-time oscilloscopes has been announced by Nucleonic Products Co., 6660 Variel Ave., Canoga Park, CA 91303. It is manufactured by Instrument Technology Ltd., 67 Lower Rd., Kenley, Surrey, England. The instrument has a current density at the anode of 100 mA and it also provides sub-nanosecond time response, low dynode noise and gating facilities in the nanosecond region. The dynode arrangement enables transit time spread to be reduced to give a rise time of only 0.5 ns while the secondary emission yield of about three secondaries per primary is adequate to reduce dynode noise to negligible proportions.

Under pulsed conditions the photocurrent may be as high as 100 μ A which improves SNR by avoiding the effects of shot noise. The gate allows the instrument to be shut off during the unwanted portion of the signal thus eliminating fatigue and saturation. The ultraviolet transmitting window allows operation from 2,000 Å to 1 μ m wavelength with the correct spectral response. The instrument is capable of delivering 5 V into a 50- Ω load. The coaxial design has matching impedance allowing the temporal response to be realized and displayed on a real-time oscilloscope without a signal distortion. Gain, which is not less than 1,000, may be increased at the expense of rise time by adding further dynode stages. The photomultiplier can be operated with or without the gating mesh. The instrument weighs about 2 lb. It is priced at about \$1,500.

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