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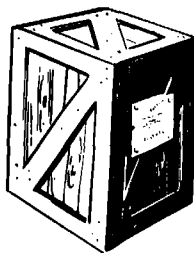
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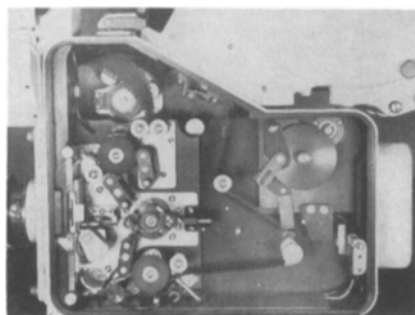
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new products

(and developments)

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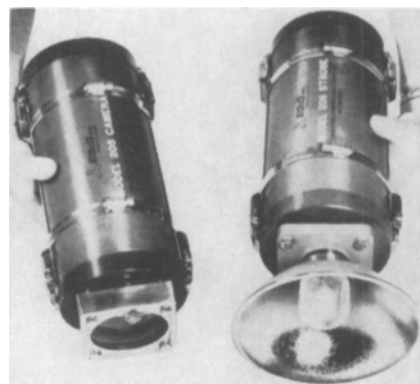
The Flight Research Model 705 Multi-data camera has been introduced by Giannini Scientific Corp., Richmond Div., P.O. Box 1-F, Richmond, Va. A 35 mm, intermittent pulldown camera, the instrument was designed primarily for such photographic application as inflight missiles, ordnance performances, parachute drops and airplane tests. Features include an epicyclic movement balanced to vibration levels below 0.0001 double amplitudes measured at the aperture. The 705 operates on 60 cycles, 115 v and employs a silicon control rectifier camera drive system to provide a variable frame rate ranging from 3 frames/sec to 300 frames/sec. The epicyclic movement contains only simple circular motion so that it can be completely balanced, both statically and dynamically, with no second order or higher unbalanceable modes. The mechanism also contains a pair of counterbalanced registration pins to engage the film perforations just above the top claw immediately prior to complete retraction of the pulldown claws. The pulldown claws enter the perforations just before the registration pins leave. Each perforation is used but once, either for film advance or registration.

To achieve reliable start-stop operation at the rated speed of 300 frames/sec, both the supply and take-up spindles are individually controlled. As the film enters from the camera supply magazine, it passes around a roller attached to a spring-loaded arm. With the camera at rest the arm is moved downward by the spring, thus applying the brake to the supply spindle to which it is positively coupled via a gear and timing belt train. As the supply sprocket begins to pull film, the feeler arm is lifted against the spring, releasing the brake

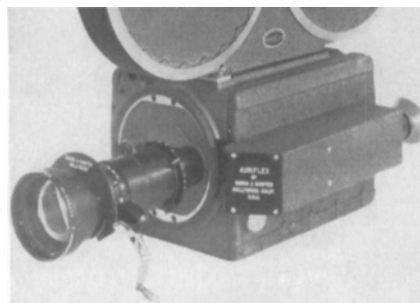
gradually until a balance is achieved, thus maintaining a constant tension on the film.

Film take-up is positively controlled. Power to drive the take-up spindle is taken from the shutter shaft through a planetary differential. The shaft of one of the sun gears of the differential is attached to a brake which is controlled by a spring-loaded feeler arm around which the film passes as it leaves the camera. The other sun gear drives the magazine spindle through a gear and timing belt train. The more the first sun gear is restrained by application of the brake, the more torque is transmitted to the second sun gear, to result in the film's having constant tension from start to finish.

The camera can operate within a temperature range from 0 F to 120 F and relative humidities of 10% to 90%. Any 35mm film emulsion can be used. The processed film can be shown on a 35mm projector or it can be reduced and projected on a 16mm unit. The camera is priced at about \$14,800.



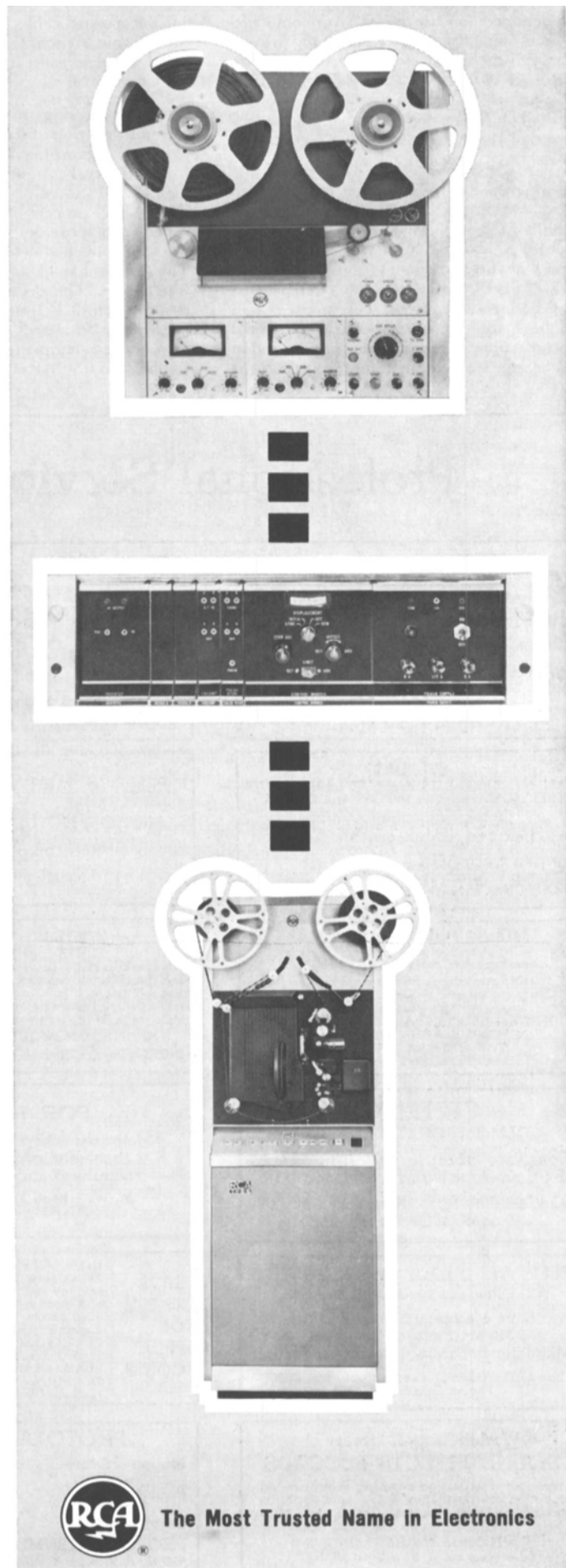
A light source system for underwater photography that weighs only 10 lb in sea water has been announced by Edgerton, Germeshausen & Grier, Inc., 170 Brookline Ave., Boston, Mass. 02215. The system consists of an EG&G Model 205 Camera and Model 206 Light Source. The housing for each unit is 5 in. in diameter and 16 in. in length. Power is provided by self-contained dry batteries and the camera takes 35mm standard film cassettes. Camera shutter control can be by bottom contact, surface remote, or other, depending upon application. The system is designed for such applications as use with coring devices, dredges, fishing trawls, Nansen casts, temperature probes, bottom-grabs and underwater TV systems. The system is priced at \$2,490.



The Auriflex system produced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Los Angeles, Calif. 90038

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is designed for use on all Auricon Cine-Voice and Pro-600 cameras to provide through-the-lens viewing. The device can be used with any "C" mount lens from 5.7mm to 1,700mm without requiring special objective, optical or masking finders. Price of the system, including installation, is \$895.

A new synchronous motor for the Arriflex 16M camera has been announced by Arriflex Corp. of America, 257 Park Ave., South, New York, N.Y. 10010. The motor operates directly from 110-v, 60 cycle a-c power lines. No power supply or step-down transformer is required. The motor is said to be extremely quiet because of special construction including acoustical isolation of the gear train. A small unit, incorporated

in the power cable, houses a capacitor and toggle switch for On/Off and Forward/Reverse operation. The motor is priced at \$325.

AR-2 processing materials for Anscochrome Motion Picture Film are now available, according to an announcement from General Aniline & Film Corp., 140 W. 51 St., New York, N.Y. 10020. The AR-2 process supersedes the AR-1 process to provide greater through-put rates and much shorter total process time. The process has 14 steps and takes 22 min, wet to wet. The decrease in process time is accomplished by modified chemistry rather than elevated process temperature. The process temperature of 80 F is unchanged in the AR-2 process. The AR-2

chemicals are available in 10-gal powder mixes. All Anscochrome camera films as well as Anscochrome Duplicating Film type 2470 can be processed with the AR-2 process.

A new 16mm Ektachrome continuous film processor designated the FE-50 has been announced by Filmline Corp., Milford, Conn. The processor, 12 ft long and constructed of stainless steel, is designed especially for use in television stations to process color emulsions at 50 ft/min. Features include Filmline friction drive with built-in overdrive, tanks with individual bottom drains and valves and transistorized-controlled temperature. The unit also includes a dial thermometer for recirculation pumps, oil-less rotary air

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NEW

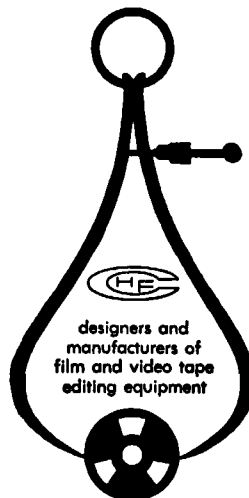
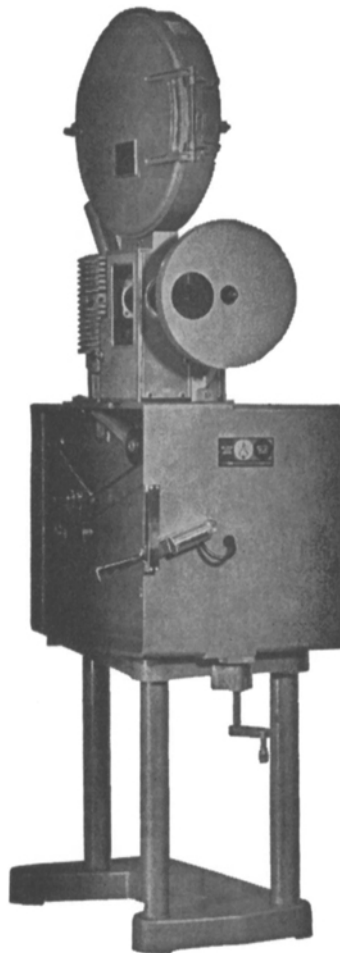
The projector is a converted front shutter Simplex with a two pin intermittent. 16mm or 35/32 film runs at a speed of 144 ft. per minute while 35mm film runs at a speed of 165 ft. per minute.

1. A variac controls the light intensity.
2. A 500 watt lamp is used for 16mm and a 1,000 watt for 35mm (a blower is used to cool the lamphouse).
3. A 2½ inch projection lens is furnished with each unit.
4. A start-stop lever controls the power to the lamp and motor.
5. The magazine and take up core takes up to 3,000 ft. of film.
6. Upper guide rollers are made to handle the film from either direction of the feed reel.
7. A free wheeling take off flange is provided in the magazine.
8. A lamp near the takeup reel permits hand inspection of the film prior to takeup.

NOUVEAU

Le projecteur contient un obturateur Simplex antérieur transformé avec deux clavettes intermittente. Les films de 16mm ou 35/32 tournent avec une vitesse de 144 pieds à la minute, tandis que les films de 35mm tournent avec une vitesse de 165 pieds à la minute.

1. Le regulateur de voltage d'intensité d'éclairage.
2. La lampe de 500 watt est nécessaire pour les films de 16mm, et de 1000 watt, pour les films de 35mm (un ventilateur est mise pour rafraichir la chambre de la lampe).
3. L'objectif de 2½ est installé.
4. La manette de mise en marche et d'arrêt controle en meme temps la lampe et le moteur.
5. La boîte de films avec noyau peut contenir 3000 pieds du films.
6. La roue supérieure est construite de manière de recevoir le film dans les deux directions, nourrie par la bobine centrale.
7. Une roue est installée pour libérer rapidement le film de la boîte.
8. La lampe se trouve pres de la bobine recepteuse, et donne toute facilité pour inspecter le film a main dans le projecteur.



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NUOVO

Questi proiettori sono Simplex trasformati, otturatore al fronte, meccanismo di scatto di due punte. La velocità di proiezione in 16 o 35/32mm è di 144 piedi per minuto, e in 35mm, di 165 piedi per minuto.

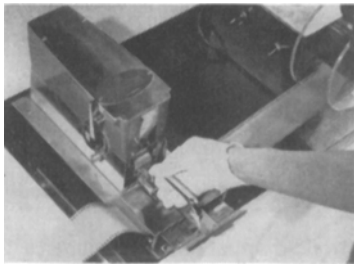
1. Controllo manuale della luminosità della lampada.
2. Lampada di 500 watt per 16mm e di 1000 watt per 35mm.
3. Obiettivo di proiezione di 2½".
4. Maniglia per controllo di motore e lampada di proiezione.
5. La cassetta porta pellicola puo contenere 3000 piedi.
6. I rulli superiori di guida sono costruiti per operare con film proveniente di ambedue i lati della bobina svolgitrice.
7. Disco con montatura sporgente nel magazzino.
8. Una lampadina illumina la bobina avvolgitrice, permettendo l'ispezione manuale del film prima che si avvolga nel proiettore.

NUEVO

Esta máquina es un proyector simplex convertido, obturador al frente y movimiento intermitente a doble grifa. Para 16mm o 35/32mm, la velocidad fija de proyección es de 144 pies por minuto, para 35mm es de 165 pies por minuto.

1. Un reostato controla la intensidad de la lampara de proyección.
2. Para 16mm se usa una lampara de 500 watt, y una de 1000 watt para 35mm (un chorro de aire ventila las lámparas en ambos casos).
3. Cada unidad está provista de un lente de proyección de 2 pulgadas y media.
4. Una palanca de control opera el motor y la lampara simultáneamente.
5. Capacidad de proyección: rollos de hasta 3000'.
6. Los rodillos de guía superiores operan con la película en ambas direcciones.
7. La tapa de la bobina de carga es desenroscable.
8. Una lámpara ubicada junto a la bobina de toma permite la inspección manual de la película antes que se rebobine en la bobina superior del proyector.

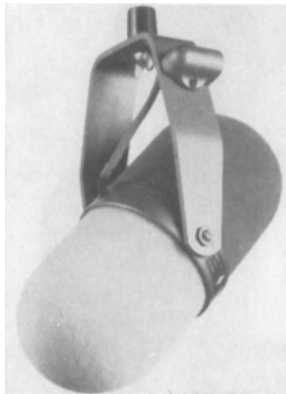
compressor, heat reversal lamps, drive motor and drybox heaters, and time-delay feed-in and take-up elevators. The unit is priced at \$15,000. With extended developing time to extend (ME-4) ASA to 250, the price is \$16,500.



The Fisher Instant Splicer for butt splicing films of various widths without the use of heat or adhesives has been announced by Oscar Fisher Co., P.O. Box 2305, Newburgh, N.Y. The splicer, used with 3M Polyester Tape No. 810, butt splices 16mm, 35mm, 70mm, 120 and 127 films. No adjustments are required for positioning the various film widths. The polyester tape is inert to all photographic solutions. 90mm and 105mm splicers are also available. The firm has also announced a rewind motorized mechanism to be used with various widths of film from 16mm to 70mm. It can be used in combination with the splicer to permit lengths of film to be spliced together into continuous rolls for roll film processing.

The P-D Film-pack, a plastic pack designed for economy and ease of handling and

storage, has been announced by Probe and Develop, Inc., The Whitcomb (Penthouse), 1231 Market St., San Francisco, Calif. 94103. The pack is designed to save space because of its flat surface and no strap design and to provide positive protection against moisture, humidity, temperature and dust. Price range is from \$4.10 to \$4.95 per pack, depending on quantity ordered.



A unidirectional boom microphone has been developed by the Professional Products Div., Shure Brothers, Inc., 222 Hartrey Ave., Evanston, Ill., to permit high-quality reproduction and flexibility of application. Available as Model SM5A with an impedance of 50 ohms and Model SM5B with an impedance of 150 ohms, features of the new microphone include a polar pattern that is cardioid, symmetrical about axis and uniform with frequency; a frequency re-

sponse that is wide range and especially tailored to provide natural dialogue or vocal music pickup with good presence, yet is also suitable for scoring; and an integral windscreen, effective in outdoor locations and for fast boom swings. The microphone also has a mechanical suspension system with a two-stage mechanical filter for any boom application. The suspension elements are inside the windscreen to prevent wind noise generation in the suspension assembly. The microphone is priced at \$225.

The firm has also announced the Shure Model SM33 Professional Ribbon Microphone. Features include a Super-Cardioid pickup characteristic, said to be more directional than the conventional cardioid, to achieve control of unwanted surrounding noise and vibration. The microphone is priced at \$129.

Microphone Calibration Apparatus, Model 4142, designed for precise laboratory calibration of condenser microphones, has been announced by B&K Instruments, Inc., 3044 W. 106 St., Cleveland, Ohio 44111. The apparatus uses the reciprocity method to determine absolute sensitivities under well-defined acoustical conditions. The calibration procedure is for condenser microphones that are reversibly pressure-sensitive. The apparatus is said to be especially adapted to calibration of reference standard microphones B&K Models 4131-32 and W.E. Model 640 AA. The main unit measures 3 by 10 by 7 in. and weighs 4 lb. It is priced at \$540.

SPROCKETS by

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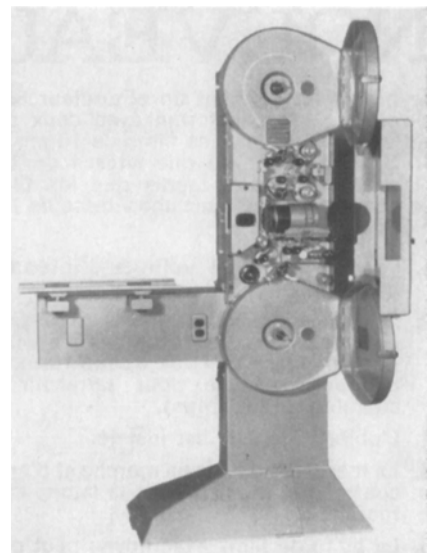
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The Norelco FP-20 series of 35mm motion picture projectors is a product of North American Philips Co., 100 E. 42 St., New York, N.Y. 10017. The FP-20 features a simplified driving mechanism and a geneva movement with 90° pulldown. The disc-shaped, single-blade shutter rotates at twice the speed of the cam shaft (2,880 rpm) and is angled in relation to the axis of the light beam to achieve an efficiency of 54% light transmission. The lamp bracket is dimensioned to allow use of popular arc and xenon bulb lamphouses. The head assembly is arranged for 1- to 4-track reproduction and is equipped with two sound drums provided with heavy flywheels. Driven film sprockets are used before and

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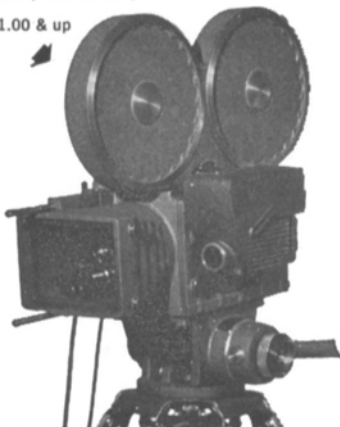


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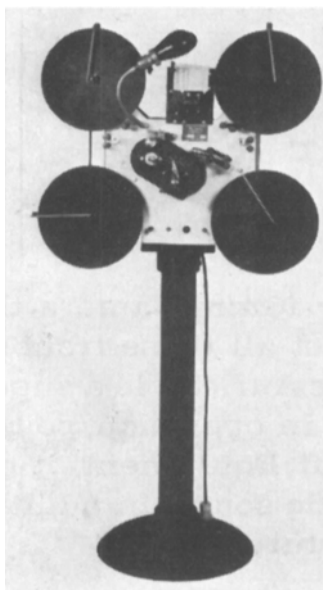
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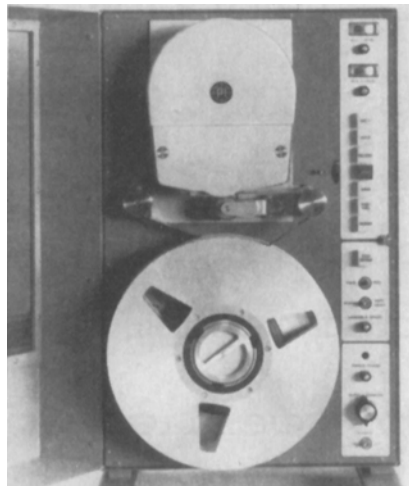
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after the magnetic head. One pulls the film from the reel and the second isolates the intermittent movement from the sound-head. Spring-loaded rollers are used to provide film tension. Specifications and diagrams are available from the firm.



A portable (90-lb) television tape recorder called the PI-7100 has been announced by Precision Instrument Co., 3170 Porter Drive, Palo Alto, Calif. The recorder allows forward and reverse playback at continuously variable speeds from zero to 16-in./sec. A variable-speed and directional control called Variscan is incorporated to permit observation of complex or fast-moving recorded action at any selectable tape speed. Features include an electronic video head signal coupling and demodulation system to remove all mechanical couplings, such as slip-rings and brushes, from the signal path to minimize noise and eliminate switching transients. Designed to be weatherproof, the recorder is field convertible to standard 19-in. rack or shock/vibration mounting and is capable of full remote control.

An electronic stroboscope that operates either from an a-c line or from a rechargeable battery pack has been developed by General Radio Co., West Concord, Mass. 01781. Designated Type 1538-A Strobotac the stroboscope features a flashing rate range of 110 to 150,000 flashes/min and can also serve as a tachometer to measure speeds of up to 1 million rpm. Flash duration is 0.5 to 3 μ sec depending on the flashing rate. It is priced at \$465.

The Colorado Video Model 301 Video Analyser has been announced by Colorado Video, Inc., Box 928, Boulder, Colo. 80301. Features of the analyzer include the provision of the equivalent of line selection at field rates to achieve a high-quality, single trace oscilloscope pattern. The analyzer also has the ability to display video waveforms on the screen of a normally operating TV picture monitor to provide a large, highly visible trace and direct correlation between picture content and video waveform. The unit is priced at \$875.

An Automatic sound level control for public address systems called the Vega

Soundervo has been announced by Vega Electronics Corp., 1161 Richard Ave., Santa Clara, Calif. The small, self-contained unit is fully transistorized. Connected between microphone and amplifier it is designed to regulate automatically the input to a sound system. The instrument has an attack time of less than 1 msec for 50% reduction in sound level, a wide frequency range of 20 to 20,000 cps and low distortion maintained during periods of compression. It is priced at \$125.

Three degaussers designed to erase an entire magnetic recording on a 17-in. reel or a small spot on a piece of tape have been announced by the Hi-Q Div., Cinema Plant, Aerovox Corp., 1100 Chestnut St., Burbank, Calif. A bulk tape eraser, Cinema Type 9205A degausser is designed for complete erasure of program and residual noise from magnetic tape or from films with magnetic soundtracks. The field area is said to be capable of erasing a recorded signal to more than 50 db below saturation. The degausser is priced at \$75.40. A smaller model, Type 64221 for erasing 10 $\frac{1}{2}$ -in. reels is priced at \$49.95. The Cinema Type 8905 magnetic erasing pencil is used for erasing program material, words, sentences, etc.; it is priced at \$15.00.

Two new lines of glass-dielectric electronic capacitors, one for military and one for industrial applications, have been announced by Westinghouse Electronic Capacitor Department, Box 130, Irwin, Pa. The military capacitors, type CY, cover the capacitance range of 0.5 through 300 picofarads with voltage ratings of 300 and 500 v at 125 C. The industrial capacitors, type CYW, cover the range of 0.5 through 1,200 picofarads with voltage ratings of 100 and 500 v at 125 C. In both types of capacitors the glass case and glass dielectric materials are fused together to form an homogeneous mass of glass around and between the aluminum electrodes and leads.

A new line of coaxial switches, called Dynaform, that uses standard modules to produce hundreds of different combinations of bladed-type switches has been announced by Amphenol RF Division, 33 E. Franklin St., Danbury, Conn. The new switches are said to extend the usable frequency range of bladed switches to 6 Gc; VSWR is said to be significantly lower in all frequency ranges than a switch of conventional design. The switches are lightweight, SPDT and transfer switches weighing about 4 oz and DPDT types about 8 oz. Gold-plated beryllium copper bifurcated moving contact blades are used to provide superior performance over a wide power range. Mechanical life for the switches is rated at a minimum of 1 million cycles.

Production forms bound in pads in 11 different styles have been announced by F&B/CECO, Inc., 315 W. 43 St., New York, N.Y. 10036. The forms cover all production details including daily time cards, script breakdown, actors report, call sheets, picture budget, etc. Prices range from 40 cents per pad.