

new products

(and developments)

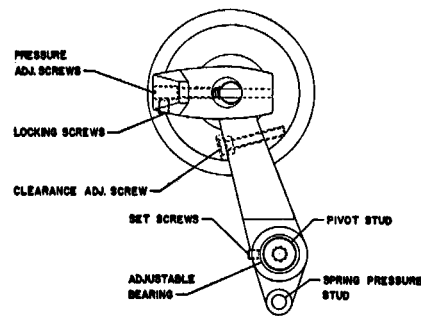
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 Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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

An automatic shutter control and a printer roller gate are among recently announced new equipment of Bell & Howell Co., Professional Equipment and Instrument Div., 7100 McCormick Rd., Chicago 45.

The shutter control has been especially designed to permit the conversion of Model D and J printers for tape-programmed operation without modification of the printer. The control consists of two components: the electro-selector and the tape reader. The selector is mounted to the printer in place of the existing index dial and pointer. The reader is placed on the printer worktable and a few minor wiring changes are

made to prepare the printer for automatic operation.

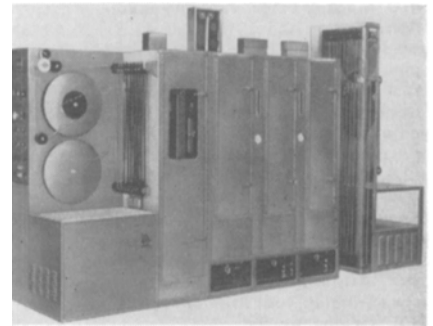
Besides the Automatic Shutter Control Design 6220A, Bell & Howell has announced Design 6170 Program Perforator which uses tape of commercially available 8-hole width to provide scene change information for printer color and density control.



The control makes possible printer light changes every 18 frames of 16mm film at 150 ft/min or every 7 frames of 35mm film at 150 ft/min. Light changes are accomplished through a cam-solenoid arrangement within the electro-selector in response to the coding on a perforated tape. The operating cam matches the 22 exposure positions of the printer and is driven by a 1725-rpm synchronous motor with a gear reduction to approximately 228 rpm. Decoded signals are fed by the reader to the electro-selector and the selected solenoid engages to halt the rotating cam at the proper exposure position. The solenoid remains engaged until the scene notch in

the film releases the exposure information to the shutter. The solenoid then disengages and the reader tape advances to the next set of perforations.

The roller gate, shown schematically above, is designed for economy and ease of installation. Planned to replace the old-style gate shoe on all Design 5205 printers, it is designed to maintain a gentle pressure against the film at the preset position, to allow the roller to ride over splices and to compensate for slight parallel variations between the printer jaw and the gate pivot stud (which may become evident when the roller is used as an accessory on older model printers). It is priced at \$115.00.

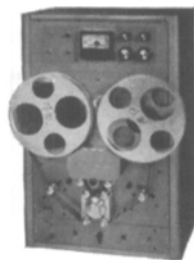


A rapid spray processing machine, Model S-150R, for 16mm and 35mm films has been announced by Filmline Corp., Milford, Conn. The machine processes 16mm or 35mm negative emulsions at 100 ft/min and positive films at 150 ft/min. It can be converted from 16mm to 35mm by moving a film-flange lever. Reported warm-up time is 10 min and dry-to-dry processing cycle 5 min. Speed is adjustable from 25 to 150 ft/min and each processing step can be varied from 48 sec to 5 min. Features include temperature controlled processing for the two banks of film in each chemical cabinet. Each cabinet has its separate refrigeration and heating, recirculation and replenishment systems. The minimum solution requirement is 6 gal. The feed station consists of two 3000-ft flanges, film elevator and alarm with automatic electric brake and a manual brake. Safety features are included. The switch control is on a single panel with separate darkroom section and daylight section operational control. Switches are interlocked. Approximate dimensions are: length, 31 in.; width, 22 in.; and height, 87 in. Dimensions for the daylight section are: length, 105 in.; width, 32 in.; and height, 81 in. It is priced at \$31,700.00 completely equipped, or \$30,900.00 without refrigeration. It is distributed by Camera Equipment Co., 315 W. 43 St., New York 36.

A new antistatic material for cleaning lacquered or magnetic striped film has been announced by Nicholson Products Co., 3403 Cahuenga Blvd., Los Angeles 28. The new cleaner, Tuff Coat 425A, is said to provide maximum protection from scratches and abrasions. Because of absence of softening action it is also recommended for videotape, recording tape and recording heads. It is priced at \$5.50 a qt and \$16.00 a gal.

The new Oxberry Animation Stand (Model S—see the *Journal* for May, p. 360) and other Oxberry animation equipment are now distributed exclusively in

Announcing a remarkable new heavy duty magnetic film recording/dubbing system that makes all others obsolete by comparison. The automatic S-7 is an outstanding engineering feat introducing a new free wheeling clutch driven film magnetic sprocket. One man can operate multiple units. Threads over idler for optical magnetic. Automatic turn-off, rewind, etc. Transistorized electronics. Write to:

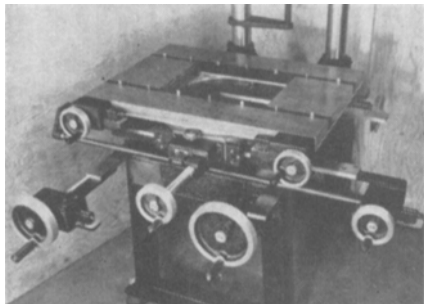


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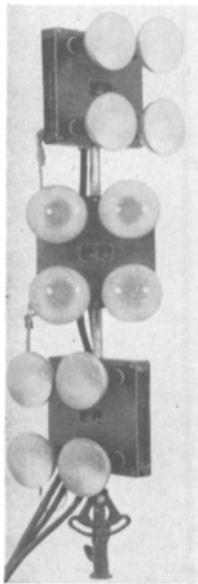
See Cinemiracle (Los Angeles, Chicago, New York, London, Oslo, Munich) — 20th Century-Fox, Convalr, RCA Photophone, Africana TV, Helsinki U., Crawley Films (Canada) and many others specify S-H equipment.

Eastern United States by Camera Equipment Co., 315 W. 43 St., New York 36. Model S which was described earlier in some detail is now marketed at \$3,950.00.

A catalogue of animation equipment is available from Bowlds Engineering, 1507 North Kingsley Dr., Los Angeles 27. The 16-page catalogue illustrates and describes the company's animation stand, accessories and other equipment. The stand features 3 to over 20 field range, a versatile camera mount with full 360° rotation, a 48 by 18-in. table with snap-in-snap-out pegs, self-adjusting electric platen unit and constant argon back lighting. The price of \$12,975.00 includes a 35mm or 16mm Acme Animation Camera.

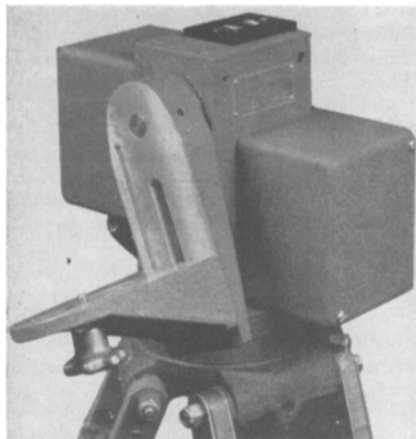


An Animation Compound has been announced by Warren Conrad Portman Co., 41 MacQuesten Pkwy., N., Mount Vernon, N.Y. The compound features 19-in. North-South and 26-in. East-West ball bearing mounted movements. The table top measures 20 in. by 28 in., rotates 360°, has a 9 in. by 12½ in. hole through it for rear projection and is designed for use with any camera stand. It is priced at \$1790.00. A 12-page catalog is available upon request.

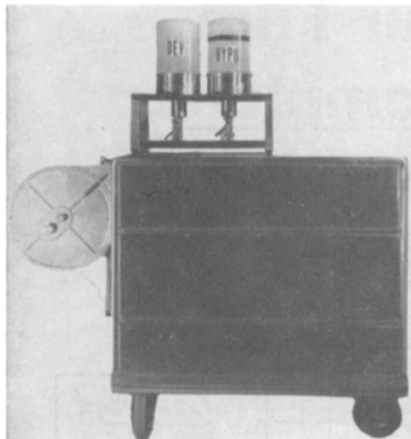


The Quadlite, a 10-in. square floodlight designed to be used in a small space, is a product of Mole-Richardson Co., 937 North Sycamore Ave., Hollywood 38. The unit, which is 2 in. thick, uses reflector globes as a source. It is mounted on a Baby pedestal and may be tilted in any direction by use of a quadrant, supplied as an accessory. Provision is made for stacking one on another

by means of stacking posts. Each socket is controlled by a separate switch. Weight of each unit is 10 lb.



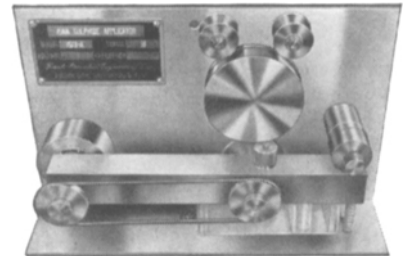
A remote-control pan and tilt assembly has been announced by Camera Equipment Co., 315 W. 43 St., New York 36. Designed for industrial TV and vidicon cameras, suggested uses include high towers, scaffolding, ceilings, areas of intense heat or cold or areas too small to allow manual control of the camera. Pan and tilt can be operated independently or simultaneously. "Dial-stop" limiting switches permit presetting the travel of the pan or tilt movement. Dimensions are 10 in. by 9 in. by 9 in. and the weight is 14½ lb with a 20-lb capacity. The travel speed is 3° per sec in either direction. The motor requirements are 110-v, 60-cycle a-c. The connectors, Cannon, 6 leads, 1 wire.



A mobile film developing machine which has been continuously used during the past two years by CBS news engineers is now available commercially from Motion Picture Enterprises, Inc., Tarrytown 83, N.Y. The machine, Model MM14, operates on 110-v 60-c current. It can be used in any office or room having hot and cold water or it can be permanently installed in a laboratory. Chemical mixing facilities are built in and solutions have provisions for automatic temperature control and replenishment. Films with negative or positive emulsions are developed at speeds up to 3000 ft/hr. Dimensions are 29 in. high, 36 in. long and 20 in. wide. It is priced at \$3980.00.

SOUND TRACK APPLICATOR

MODEL 1513A



This applicator is film driven and is used in applying a redeveloper agent, hypo, or sulphide to the sound track area of color motion picture release film.

The applicator wheel may be set to either side of the film drum to accommodate either head or tail film travel. The distance between applicator wheel and film is adjustable through a calibrated eccentric having 1/1000 of an inch graduations. A spring return is provided to permit passage of splices.

The unit is of stainless steel construction except for details unobtainable in stainless steel. Less than three ounces of film tension is required to operate the applicator.

Prices:

MODEL 1513 (35mm) \$452.70
 MODEL 1513A (16mm) 452.70
 MODEL 1513B (16-35mm) . . 519.80

F.O.B. Culver City, California, and
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For full information, write

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A 5.7mm *f*/1.8 Kinoptic Apochromat lens has been announced by Karl Heitz, Inc., 480 Lexington Ave., New York 17. The new lens completes a series of 12 color matched 16mm lenses ranging from the 5.7mm of the new lens to 500mm. The lens is equipped with both *f*- and T-stops and features 3-color correction and wide angle coverage of 113°. Depth of field at maximum aperture *f*/1.8 extends from infinity down to 6 in. The lens can be supplied in Arriflex, Cine-Special or C-mounts. It is priced at \$495.00.

The meaning of exposure indexes will be a new part of instructions released henceforth with instruction sheets that accompany Eastman Kodak Co. black-and-white films. Two new paragraphs, aimed at advanced amateurs, will read:

"These numbers are for use with meters marked for American Standard Exposure Indexes. They include a safety factor, intended to prevent underexposure due to variations in equipment and use. If you know your equipment is in good working order, you may wish to eliminate this safety factor by using: 2 times the above numbers for subjects of normal contrast, still higher numbers for subjects of low contrast. By thus reducing exposure you will obtain negatives of lower density with less grain and increased sharpness.

"If with normal development your negatives are consistently too thin, increase exposure by using a lower number; if too

dense, reduce exposure by using a higher number."

A photoelectric 8mm camera which permits the use of interchangeable lenses, various types and speeds of films and variable shutter openings has been introduced by Paillard Inc., 100 Sixth Ave., New York 13. The camera is the Bolex B-8L, called the "20-20 compumatic." In this camera the photoelectric cell is placed behind the lens. The light is measured after it has gone through the lens so that only the light that will affect the film registers on the photocell, thus eliminating problems due to stray light. Features include a double indicator system in which a red needle indicates the amount of light needed with whatever coverage of lens, film and variable shutter opening is being used. A black needle indicates the exact amount of light entering the lens and the aperture of the lens is adjusted until the needles are superimposed to get the amount of light needed for the best exposure. The price range begins at \$169.50.

The 398A Special Filmosound is a projector designed especially for audio-visual instruction in churches, schools and industrial organizations introduced by Bell & Howell, 7100 McCormick Rd., Chicago 45. The new projector retains the same mechanism used in higher priced Filmosound units, but has been simplified by removal of clutch and reverse features. The projector has been further simplified by a new rotary dial switch that operates both motor and lamp in one twist, a permanently attached

line cord for faster set-ups, and automatic rewind release to prevent film damage. The new projector is priced at \$459.95.

A transmitter for medium-coverage TV stations has been announced by Radio Corp. of America. Designed for economy and to save space, the transmitter is recommended for VHF stations with effective radiated power requirements ranging from 2 to 20 kw. It can be adapted for remote control operations with the addition of suitable terminal equipment. The cabinet is 7-ft high and 6-ft long. The transmitter, named the TT-2BH, is suitable for both monochrome and color TV. The principal meters are mounted in a sloping panel at the top of the cabinet for easier examination. Exciter and modulator units are adjustable from the front.

The Model 1150 Automatic Picture and Sound Generator, designed for closed-circuit TV applications, automatically transmits pictures with sound from 35mm (2x2) slides as recently announced by B&K Mfg. Co., 3726 N. Southport Ave., Chicago 13. A removable slide magazine which shows up to 28 standard 35mm glass slides can be set for automatic, manual or remotely controlled operation. For continuous automatic showing the slide changer recycles itself after the last slide. A variable timer permits selection of automatic time interval from 5 sec to 75 sec. Two audio input channels are provided. The external audio source can be tape, tuner or microphone controlled by a switch. The power input is 117-v 50-60-cycle a-c. Dimensions are 10½ in. by 25 in. by 16½ in. The price is \$895.00.

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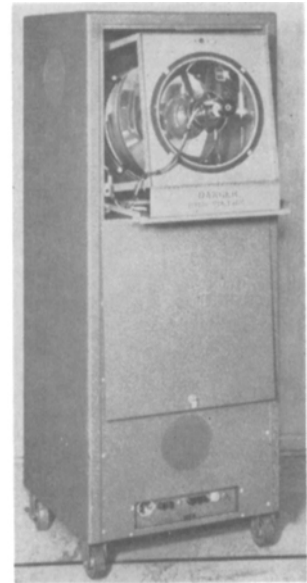
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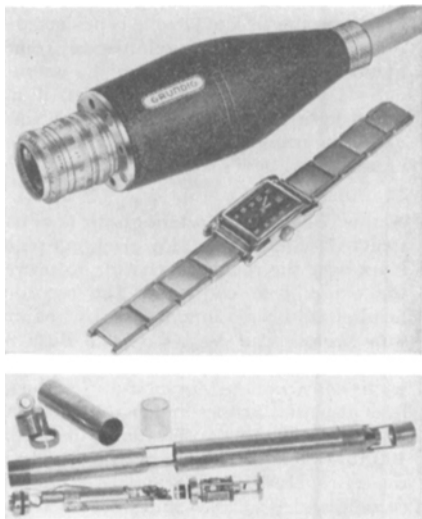
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A TV projector which projects images up to a size of 12 by 15 ft on a flat screen is manufactured by Tela Electronics Div. of the Meilink Safe Co., Ferndale 20, Mich. The projector, called the Giantview, receives and projects pictures from either closed-circuit direct lines or regular station telecasts. Recommended by the manufacturer for use with closed-circuit TV audiences of 100 to 3000, it projects a minimum of 450 scanning lines and can be operated in subdued room light. For off-air pickup, it incorporates a Conrac tuner, and

has two 10-in. speakers for even sound diffusion. Jacks are provided for tie-in to public address systems in larger rooms. It operates off a standard 110-v outlet. Weight, complete with shipping case, is 375 lb. The projectors will be sold or leased through franchised dealers.



The Grundig Miniature TV Camera, designed specifically for interior observation of pipes, is distributed by L. M. Bleackley, 145 Yonge St., Toronto 1, Ont., Canada. The length of the camera, without lens, is $5\frac{1}{4}$ in. and the diameter at the widest part is $2\frac{3}{4}$ in. Approximate weight is 1.1 lb. The camera utilizes an extremely small vidicon. The resolution, both horizontal and vertical, is approximately 300 lines. The camera is equipped with a fixed-focus lens and a mirror with a 45° tilt. Glowlamps serve to illuminate the wall of the pipe. The current is fed over the camera cable. Applications other than that for which it was specifically designed include internal inspection of airframe components for corrosion or distortion and as an underwater camera.

A high pass-low pass filter which permits direct reading of the frequency dial has been developed by Allison Laboratories Inc., 14185 East Skyline Dr., La Puente, Calif. The machine, Model 420P, is a continuously variable frequency filter with separate high pass-low pass sections, permitting the operator to set up any bandwidth within the range of 20 cycles to 20,000 cycles. It is portable and is designed for 600-ohm circuits. Input and output plug-in transformers are available for matching impedance to vacuum tube circuits.

A cable tester with which complex, branching circuits are simultaneously high potted, tested for continuity and measured for leakage resistance between each circuit and all others has been developed by California Technical Industries, Division of Textron Inc., 1503 Old County Rd., Belmont, Calif. The instrument has calibrated front panel controls that allow independent setting of all test parameters. Checking at a rate of five wires per second in automatic operation, the tester stops when a faulty circuit is found. With the basic tester, the total capacity of tests (branches and main wires) is 200, and the maximum number of these tests that can be used for the branches is 100. Auxil-

ary equipment can be provided to extend the test capacity indefinitely.



A Semiautomatic Alignment Kit has been announced by Canadian Marconi Co., 2442 Trenton Ave., Montreal, P.Q. Designed for simplicity of operation, the kit can be fitted to most image-orthicon camera chains. A small printed board generates a square wave at half-field frequency which modulates G4 in the orthicon. Operated by a front panel pushbutton, the effect on the picture is to double-up diagonal lines if the tube is out of alignment. Adjustment of the

X and Y alignment controls can be quickly performed to arrive at the position of optimum alignment.

An improved version of the Photo-Sonics rotary-prism high-speed recording camera has been announced by Traid Corp., 17136 Ventura Blvd., Encino, Calif. The camera, called the 1B, is designed to take full-frame pictures at speeds up to 1000 frames/sec and to operate under extremes of temperature and vibrations. Picture quality is maintained by means of a rotary prism and disk shutter which turns in synchronization with the continuously moving film. The prism provides image compensation and the disk shutter, located between prism and film, produces even exposure and high-image resolution. Provision for magazines of various capacities permits changes in running time. Applications include missile recording, track sled recording, aircraft flight testing and industrial analysis.

Among other equipment made or distributed by Traid and recently described in its publication *Traid Winds* are the Traid 638 Fotoperiscope relay lens for 16mm cameras and the TN-9 Fotodata Aircraft Camera System. The Fotoperiscope is a 90° photographic periscope. The lens portion of the assembly rotates 360° around the metal extension tube, thus permitting the lens to be aligned and locked into place at any position around the tube's axis. New components added to the basic Fotodata aircraft camera include a correlation counter, a 100-ft magazine with a built-in, two-light timing system and Foscope lens.

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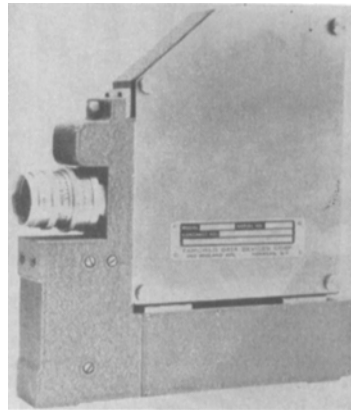
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EOTS Equipment, a 12-page brochure, available upon request from J. W. Fecker Inc., 6592 Hamilton Ave., Pittsburgh 6, Pa., contains a detailed description accompanied by a number of photographs of the Electronic Optical Tracking System developed by Contraves AG, Zurich, Switzerland (*Journal*, p. 238, April 1958). The brochure also describes EOTS accessories. The firm was recently appointed sales and service representative in the United States for the Swiss organization.



A compact and rugged 16mm data camera, called the Thinform Model FDTF-001, has been designed by Fairchild Data Devices Corp., 580 Midland Ave., Yonkers, N.Y. Specifically for flight test research, the camera is 1½-in. thick and adapted to installation in thin airfoils or, without pods, on the external surfaces of aircraft and missiles. It is 8½-in. high and the depth from front to rear is 7½ in. without the connector. It weighs less than 4½ lb without lens or film. The film transport is intermittent type and operates at speeds of 16, 24, 32 or 63 frames/sec. Frame rates are changed by substituting gear sets. Film capacity is 100 ft in the standard darkroom loading magazine. A slightly larger 100-ft daylight loading magazine and a 200-ft darkroom loading magazine are in process of development.

The camera has been tested to operate properly under the following environmental conditions: acceleration of 25 G on the three major axes; vibration of 20 to 25 cycles/sec at 0.060 d.a. and 56 to 500 cycles/sec at 10 G; 100,000-ft altitude and temperatures ranging from -65 to 150 F.

A Compressed Air Loudspeaker (CAL) developed by RCA to test electronic gear for jet planes, missiles and rocket ships can generate noise of 160 db. The device is a plywood box measuring 5 ft by 5 ft by 6½ ft with dual horns projecting from the box attached to metal pipes leading to the mechanism. The first high-intensity noise systems used electrical power alone. The compressed air system is believed to be capable of producing the world's loudest controlled noise. Although designed specifically for testing purposes the loudspeaker is expected to be useful in areas of extremely high noise levels, such as jet air fields and in civil defense work.

The Flip is an automatic microfilm searching machine produced by Benson-Lehner Corp., 11930 W. Olympic Blvd., Los Angeles 64. It is designed to locate and display a desired frame in a reel of specially

processed 16mm photographic film. By means of a self-contained keyboard, appropriate indexing information is established. Following this entry, the SEARCH bar is depressed. Release of the SEARCH bar causes the equipment automatically to transport and scan the film until the desired frame has been located. Information contained on the selected frame is projected on the viewing screen. Simultaneously, frame identification coinciding with the operator entry is digitally displayed on an illuminated light bank indicator. This serves to verify the frame selection and signal the operator that a new search may be instituted.

A new "Scotch" brand magnetic tape constructed with a thin, low-friction, plastic layer over the magnetic coating to prevent the oxide from contacting the recording head has been announced by Minnesota Mining and Mfg. Co., 900 Bush St., St. Paul 6, Minn. Field tests of the "sandwich construction" tape indicate that it lasts at least 10 times longer than standard tapes and, in some applications, from 30 to 100 times longer. There are three tapes in the series, Nos. 186, 188 and 189. They are recommended for AM and phase detection modulation recording applications, and some FM applications. One advantage of the tape is said to be freedom from drop-outs. The new tapes are available in all standard instrumentation widths and lengths.

Microphone Facts, a publication containing practical information and helpful hints about the use of microphones, has been announced by Electro-Voice Inc., Buchanan, Mich. The publication will be mailed, without charge, to operating engineers of radio and TV stations and motion-picture studios.

A News Bulletin issued by the Electro-Mechanical Development Co., 2337 Bissonnet, Houston 5, Tex., announces that the Gevaert Cine Phase "26" 16mm reversal black-and-white film manufactured for use in tissue culture time-lapse microphotography (*February Journal*, p. 124) is now available without processing at a price of \$4.50 per 100-ft roll. Processing may be purchased with the film in the form of processing coupons at a price of \$3.00 per 100-ft. The *News Bulletin* contains an account of the development of this film and other information for persons interested in this special branch of the photographic art.

Subscriptions to the following magazines may be placed with Camera Equipment Co., 315 W. 43 St., New York 36: *American Cinematographer*, *International Photographer*, *Home Movies*, *Film World*, *P.M.I.*, *Educational Screen* and *Business Screen*. This new service is an expansion of the company's policy of making outstanding publications on photographic subjects easily available to its customers. The present book list includes 69 titles of important books such as *Film and Its Techniques* by Raymond Spottiswoode, the SMPTE publication, *Elements of Color in Professional Motion Pictures* and other standard works on motion-picture and television techniques. The book list and order blank is available upon request from the company.