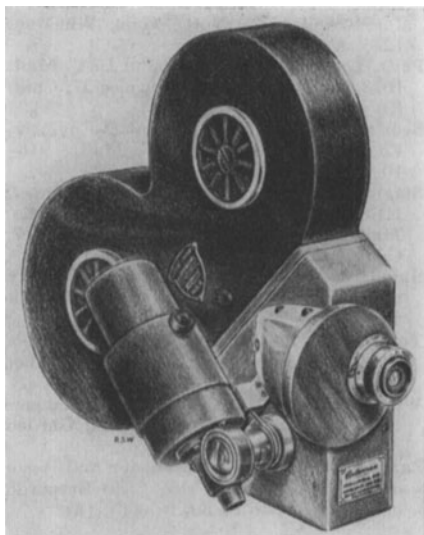


## New Products

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



A 35-mm recording camera to fill the needs of industrial and research analysts has been designed by A. P. Neyhart, Chairman of the SMPTE's Subcommittee on Industrial and Research Photography, and H. G. Cunningham, camera designer, Hollywood. The Automax, as the new instrument has been named, is being tooled for production in the form shown above by the Guild Laboratories, 6264 Sunset Blvd., Hollywood 28, Calif., with which Neyhart is associated.

Neyhart is the designer of the camera for surgical photography which has been described in the *JOURNAL* (p. 747, June 1950).

The Automax can be operated, locally or by remote control, at interval rates from one exposure per hour to five exposures per sec and at pre-set cine rates of from 10 to 48 exposures per sec. Film exposure is the same for both interval and cine operation. An external intervalometer is required for automatic sequence operation. A 400-ft Mitchell magazine is standard in the present design but other capacities may be used. The standard design is for an acceleration range of 10 *g* vertical and

5 *g* horizontal, but a special combination is available for greater acceleration loads. A film-driven switch actuates an electric footage counter and also gives remote indication of camera operation. Several types of motors are available for field or mobile use. Power requirements range from 10 w, d-c, to 115 w, a-c, depending on application. Frame registration is accurate to 0.003 in., adequate for motion analysis and motion picture projection. An intermittent movement pin is used to transport and register film.

The camera is  $6 \times 5 \times 2\frac{1}{4}$  in., with motors extending from 2 to 3 in. on one side. The weight, with aircraft motor, loaded 400-ft magazine and lens, is 12 lb. It is constructed to withstand temperatures ranging from  $-40^{\circ}$  to  $160^{\circ}$ F.

With a new double-function, mercury arc-lamp power supply, manufactured by the Huggins Laboratories, 778 Hamilton Ave., Menlo Park, Calif., either direct-current or single-flash operation of AH-6 or BH-6 mercury-vapor arc lamps may be obtained from 115-v, 60-cps power. Direct-current operation provides steady light, while pulsed operation gives a brilliance about 200 times greater, with a duration of approximately 10  $\mu$ sec. Either mode of operation can be selected from a single switch. With d-c setting, the power supply delivers 1 kw, 1.2 amp at 800 v. Open-circuit voltage of 1700 v is supplied for starting the lamp. Standard d-c ripple is about 5%, but lower values can be supplied in special units. With flash operation, the 10  $\mu$ sec pulse at a power of approximately 2.5 watt-sec is provided by a power capacitor discharging through the lamp by means of a thyatron-controlled spark gap. Maximum repetition rate is 6 pulses per min.

The unit is mounted in a standard relay rack cabinet, and its over-all dimensions are  $22 \times 31 \times 15$  in. The manufacturers suggest its application to high-speed, Schlieren, shadowgraph and interferometer photography.

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