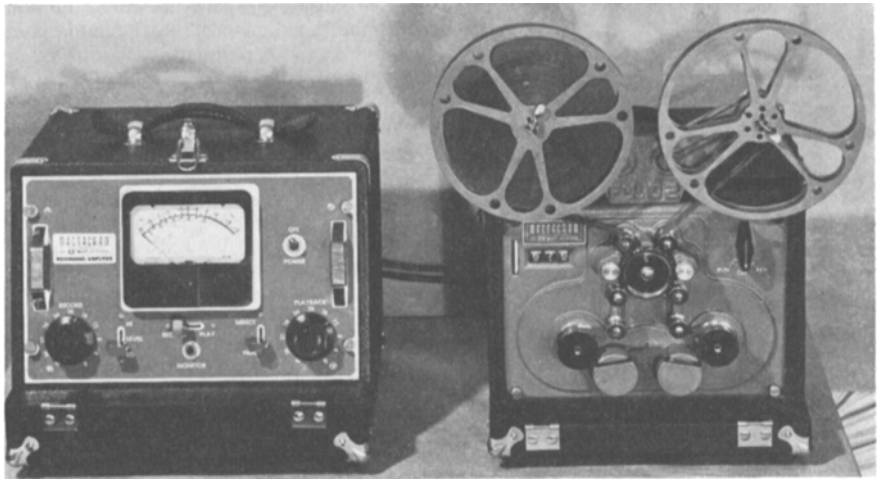
New Products

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.

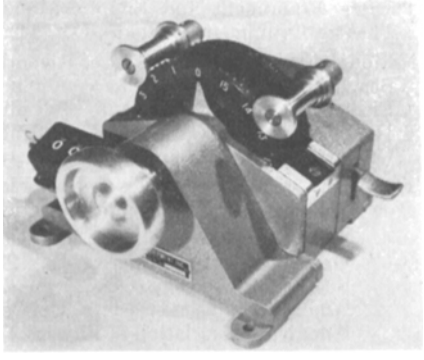


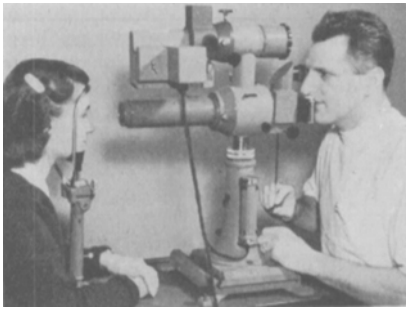
A magnetic film recorder that weighs only 38 lb distributed over two cases, the mechanical-drive case being 11 × 9 × 8 in. and the amplifier case being 12 × 8½ × 8 in., is being marketed by the Magnagram Corp., 11338 Burbank Blvd., P.O. Box 707, North Hollywood, Calif. Known as F-102 Field Unit Sub Miniature Magnetic Film Recorder, it incorporates the Magnagram "Synkinetic" dual-inertia wheel drive with flutter under 3%.

Frequency response is 50 to 10,000 cps within 2 db at 90 ft per min. Film capacity is from 400 to 1200 ft (up to 33 min of recording). Amplifier terminals provide for low-impedence mike and 600-ohm zero-level inputs and 600-ohm zero-level output. There is a 4-in. illuminated V.U. meter, direct, and "off-the-film" monitor. A large, easy-to-read footage counter is interlocked with drive shaft to operate forward and in reverse. The recorder is designed to operate vertically or horizontally. The universal motor drive is readily adaptable to operation with selsyn and other interlock motors. 16-Mm or 17½-mm film drive is optional.

A high-quality instrument for the synchronization and measurement of 16-mm and 35-mm films, known as the Syncrometer, is being produced by National Cine Equipment, Inc., 20 W. 22d St., New York 10. The Syncrometer provides finger-tip roller release and positive roller contact, and prevents film sprocket jump at any rewind speed.

Any combination of 16-mm and 35-mm sprocket assemblies can be made by the manufacturer. The Syncrometer is of the foot-linear type, graduated for 40 frame divisions on the 16-mm sprocket and 16 frame divisions on the 35-mm sprocket. Film stripper shoes prevent film creep under sprockets.





A high-speed still camera for photographing the retina, nerve fibers and other structural elements of microscopic size in the interior of the eye is now being produced by Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N.Y.

Bausch & Lomb developed the camera at the request of the U.S. Public Health Service for studies showing the relationship between enlarged retinal blood vessels and such vascular diseases as high blood pressure and arteriosclerosis. It is being used extensively in the "rice diet" research and treatment of these diseases.

Photographs of the interior of the eye are taken periodically and superimposed so that the diameter and tortuosity of blood vessels may be compared at various stages of treatment.

Eye pathologies such as abnormal condition of blood vessels, location and extent of hemorrhages, pigmentation, and extent of cupping of the nerve head may be studied with the new camera. The last condition is of importance in diagnosing and treating glaucoma, and the photographs may aid in detecting, in addition to those mentioned, such systemic diseases as diabetes, nephritis, and tumors of the central nervous system where changes in the retina occur long before the appearance of clinical symptoms.

Series photographs of these conditions may be used to chart their progress and as a visual aid for teaching medical and optometric students. Photographs may be enlarged many times or projected onto a screen for scrutiny by surgeons before and after operations. Photographs of the anterior segment of the eye—the lids, iris, cornea, sclera, etc.—may also be taken with the camera.

Meetings of Other Societies

American Physical Society, June 14–16, Schenectady, N.Y.

American Physical Society, June 25–28, Vancouver, Canada

American Institute of Electrical Engineers, June 25–29, Toronto, Canada

Illuminating Engineering Society, Aug. 27–30, Washington, D.C.

Biological Photographic Association, 21st Annual Meeting, Sept. 12–14, Kenmore Hotel, Boston, Mass.

Theatre Equipment and Supply Manufacturers' Association (in conjunction with Theatre Equipment Dealers), Oct. 11–13, Ambassador Hotel, Los Angeles, Calif.

National Electronics Conference, Seventh Annual Conference, Oct. 22–24, Edgewater Beach Hotel, Chicago. The conference is sponsored by the American Institute of Electrical Engineers, Institute of Radio Engineers, Illinois Institute of Technology, Northwestern University and the University of Illinois, with participation by the University of Wisconsin and the Society of Motion Picture and Television Engineers.

The American Institute of Physics is holding a twentieth anniversary meeting in Chicago on October 23–27. Its member societies will hold meetings at that time as follows:

Acoustical Society of America, Oct. 23–25
Optical Society of America, Oct. 23–25
Society of Rheology, Oct. 24–26
American Physical Society, Oct 25–27
American Association of Physics Teachers, Oct. 25–27