

# 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.



The Bolex H-16 Reflex, a product of Paillard Products, Inc., 100 6th Ave., New York 13, represents a further development of the company's H-16 Cameras in the area of viewing and focusing. In this camera the image is picked up behind the lens in front of the shutter by a semi-reflecting prism, and can then be viewed right side up and six times enlarged from behind the camera through the eye-level focus. The eye-level focus is equipped with an adjustment for various eyesights. The new camera requires specially designed lenses, also produced in Switzerland, because the reflex prism affects the optical correction of short focal length lenses. The special lenses are engraved RX on the barrel to distinguish them from the regular line of Kern-Paillard 16mm lenses. Prices for the Bolex H-16 Reflex range from \$419.50 to \$535.50, depending upon the lens.

A new model of the Line Densitometer has been produced by the Baldwin Instrument Co., Brooklands Works, Dartford, Kent, England. The instrument is basically a transmission densitometer with special



facilities for accurately locating the sample under test. It was originally designed for measuring density of soundtracks on 35mm film. With the new model, all sizes of motion-picture film can be tested for both density and color analysis.

The optical unit of the densitometer comprises a tungsten filament lamp which illuminates, by means of a lens system, the sample under test. The light passes through the sample and is projected onto the photocell through the defining aperture and color filters if required. The instrument is reported to have an accuracy of 0.02 up to density 3 and 0.02 to 0.1 for densities between 3 and 4.

The output from the vacuum photocell is fed into a highly stable d-c amplifier the output from which is indicated on a moving coil meter. A 3-position switch enables the selection of the appropriate density range. A desirable feature is the linearity of the density scale.

Color Television Incorporated has been renamed California Technical Industries but the CTI registered trademark remains unchanged. The firm was organized to develop and promote a line-sequential system of color television, but its activities in this field ended five years ago when the Federal Communications Commission designated another type of color system as the national standard. The firm recently moved from San Carlos to Belmont, Calif. Its chief products are specialized test instruments for the electronic, aircraft and missile industries.

A single-cable Industrial Television Control System which combines both visual observation and remote control throughout a plant over a closed-circuit television system, has been introduced by the Jerrold Electronics Corp., 23d and Chestnut Sts., Philadelphia 23. One use of the system is that of protection. For example, a watchman can scan the faces of visitors or employees on a TV screen and examine identification from a considerable distance, while opening or closing the gate by means of a remote-control switch. This system is reported to carry all functions, 2-way communications, 2-way pictures and remote control over a single coaxial cable.

The Optical Industry Directory has just been issued for 1956-57 by the Optical Publishing Co., Huntington, N.Y. The 307-

page *Directory* lists American and foreign manufacturers and distributors of optical supplies and equipment. The names of more than 300 companies have been added to those appearing in the previous issue. The *Directory* also contains a list of optical products and services and an area listing of the companies that supply the items. One of the new sections lists the names, titles, affiliations and specialties of industry personnel. The *Directory* is available from the publishers and is priced at \$5.00.

Complete sound studios and other rental services are described in a new brochure from the Rolab Photo-Science Laboratories, Sandy Hook, Conn. Located on Connecticut's Routes 6 and 202, the sound stage building is one mile from the state highway. Studio rental per day, including electric current from 9 A.M. to 6 P.M., is \$60.00. The rental includes complete lighting equipment. Also available are cameras including Cine Specials, Arriflex, Mitchell, DeVry, Debric Parvo and Bamberg-Ascania at rentals ranging from \$7.00 to \$25.00 a day. The laboratories are equipped for chemical, biological, industrial and general experimental work.



Twelve special cameras, with one of the most difficult-to-produce optical systems ever attempted, will soon go into production for a unique task — that of photographing an object the size of a basketball traveling at twice the speed of sound 250 miles distant.

The object is the earth satellite to be launched during the coming International Geophysical Year. The 10-ft cameras will be placed in carefully selected locations throughout the world to photograph the man-made satellite at various points in its orbit. Two of the cameras will be set up in the United States, one at White Sands Proving Grounds, N.M., and the other at Patrick Air Force Base, Fla.

The production of the optical system for the cameras is being undertaken by the Perkin-Elmer Corp., Norwalk, Conn. Dr. James Baker, President of Spica, Inc., designed the 20-in. aperture, ultrafast  $f/1.0$  apochromatic lens for the camera. The cameras have a 30° field of view. The lens design calls for three aspheric corrector plates with a total of four aspheric surfaces

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and a 32-in. mirror. The mechanical portion of the cameras has been designed by Joseph Nunn and Associates, Los Angeles, and will be manufactured by Boller and Chivens, Pasadena, Calif.



A 3.45mm wide-angle lens designed for compactness has been announced by Traid Corp., 17136 Ventura Blvd., Encino, Calif. Known as the Traid 720, the lens covers an area 165° both horizontally and vertically and is available either in a gun camera mount or a C mount. It is equipped with an iris ring adjustment from  $f/1.5$  to  $f/8.0$ . With the gun camera mount, the lens protrudes 4½ in. from the front plate of the camera and measures 4 in. in diameter at its widest point.

Traid Corp. has announced the opening of its new plant at 17136 Ventura Blvd., Encino, Calif. The new structure is of modern design, built around an open patio with a reflector pool. All the offices have outside windows. In addition to showrooms and offices the plant provides facilities for engineering activities, especially in the fields of research and development.



Arthur S. LaPine & Co., 6001 S. Knox Ave., Chicago 29, is distributing a new apparatus for operating laboratory water baths, manufactured by Technic (Cambridge) Ltd., Duxford, England. The case dimensions of this compact unit are 5½ × 4½ × 3½ in. and the overall length is 10 in. It weighs 5½ lb and is attached to any size container by a rubber-cushioned clamp. It acts as heater, controller, stirrer and circulator with a built-in pneumatic control system sensitive to within ±0.05 C.