

KINOPTIK
LENSES

THE ONLY COMPLETE SERIES
20 lenses from 5.7mm extreme wide-angle (113°) up to 500mm super-telephoto

OF PERFECTLY COLORMATCHED
All lenses have T-stops (as well as f-stops)

AND HIGH SPEED
Apertures from f/1.3, see below

APOCHROMATS

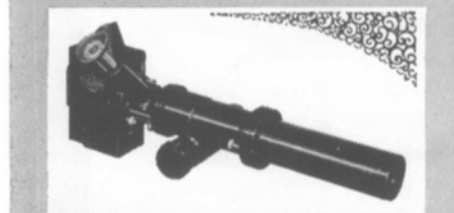


Exclusive 3-color correction, critical sharpness & highest contrast, even at full aperture.

FOR ANY 16mm, 35mm MOVIE AND TV CAMERA

C. Cine-Special, Arriflex, Cameraflex, Eyemo, Mitchell, barrelmounts, etc.

EACH HANDPICKED



Every lens is scrupulously bench tested on Kinoptik Collimator.

AND 100% GUARANTEED

Each Kinoptik APOCHROMAT carries an unconditional guarantee for finest mechanical precision and highest optical performance.

5.7mm f/1.8*	32mm f/1.9	75mm f/2
12.5mm f/2.5*	35mm f/2	100mm f/2
18.5mm f/2	40mm f/2.8	150mm f/2.5
20mm f/1.9*	40mm f/2	210mm f/2.8
25mm f/2	50mm f/2.8	300mm f/3.5
28mm f/2	50mm f/2	500mm f/5.6
32mm f/2.8	50mm f/1.3	

Collimator-Reflex w/275mm and 485mm lenses support *for 16mm only

See your franchised KINOPTIK dealer or write for free illustrated brochure SMK-3.

karl heitz inc.

480 LEXINGTON AVE., NEW YORK 17 • YUkon 4-4920

Section, Date and Place

New York, Jan. 14, Carnegie International Endowment Center, New York City

Canadian, Jan. 15, Shelly Films, Toronto

Dallas-Fort Worth, Jan. 15, American Telephone & Telegraph Exchange Bldg., Dallas

Hollywood Section, January 20, ABC Studio, Hollywood

San Francisco, Feb. 10, Ampex Corp., Redwood City, Calif.

Hollywood, Feb. 11, Stage 6, Motion Picture Center Studios, Hollywood

Hollywood, Feb. 16, Douglas Aircraft Co., DC-8 Jet Assembly Plant, Long Beach

Atlanta, Feb. 17, WAGA-TV Studios, Atlanta

New York, Feb. 18, Carnegie International Endowment Center, New York City

Rochester, Feb. 19, Dryden Theatre, Eastman House, Rochester

Program

"The Future of Film in Television" a panel conducted by *Ethan M. Stifle*, Eastman Kodak Co., New York; *Joseph T. Dougherty*, E. I. du Pont de Nemours & Co.; *William Van Praag*, Van Praag Productions; *Clay Adams*, CBS-TV; New York; *George Hankoff*, Screen Gems Inc., New York

Film — "Supersonic Sentinel" produced by Avro Aircraft Ltd., Toronto

Report of Subcommittee on Laboratory Standards of the Canadian Section, by *Rodger Ross*, Canadian Broadcasting Corp., Toronto

"TV Studio Practice" by *Harold Wright*, Canadian Broadcasting Corp., Toronto

Tour of AT&T facilities. Description of equipment by *Walter Allen*, AT&T

"New Horizons for Motion Pictures and Television" by *Norwood L. Simmons*, Eastman Kodak Co., Hollywood

Film — "Our Islands of Hawaii," presented by *Ed McGlone*, produced by Cate & McGlone for Hollywood Airlines, Hollywood

Film — "The TV Workshop," presented for *Warren G. Smith*, J. Walter Thompson Co., New York

"Recording Color Video on Tape" by *Joe Roizen*, Ampex Corp., Redwood City, Calif.

"Editing and Splicing of Videotape" by *Glenn Pew*, Ampex Corp., Redwood City, Calif.

Demonstration of Ampex Videotape Cruiser by *Hal Mohr* and *Robert Day*, Ampex Corp., Redwood City, Calif.

Tour of the Douglas DC-8 Jet Production Plant

"Production Use of Ampex Videotape Recorder" by *Bob Marshal*, WAGA-TV, Atlanta

"Problems of Taping a Weekly Show" by *Skip Thomas*, Peachtree Production Assoc., Atlanta

"A Program-By-Program Billing System for Pay-TV" by *Kenneth A. Simmons*, Jerrold Electronics Corp., Philadelphia, Pa.

"Stereophonic Sound" by *W. W. Dean*, General Electric Co., Syracuse, N. Y.

current literature



The Editors present for convenient reference a list of articles dealing with subjects cognate to motion-picture engineering published in a number of selected journals. Photostatic or microfilm copies of articles in magazines that are available may be obtained from The Library of Congress, Washington, D.C., or from the New York Public Library, New York, N.Y., at prevailing rates.

American Cinematographer vol. 39, Dec., 1958
Tomorrow's Photographic Assignments (p. 684)
Automatic Electronic Focusing (p. 686)
Cinematography—Vital Tool in Rocket Motors Production (p. 688) *J. J. Lipper*
Animated Film Techniques, Pt. V. (p. 694)

Single-System Magnetic Sound—New Trend in TV News Film Photography (p. 696)
 New Lenses for the 16mm Professional (p. 698) *F. Foster* vol. 40, Jan. 1959
Animated Film Techniques Part VI (p. 38)
Importance of Variable Shutter (p. 40) *J. Forbes*
Exposure Meter for High-Speed Photography (p. 43)
Camerette Double-System 16/35mm Sound Camera (p. 45) *J. Henry*
Wide Screen in Sixteen (p. 48) *E. Wildi* vol. 40, Feb. 1959
Ultra-Widescreen Movies with One Camera, One Projector (p. 104)
 "The Hanging Tree" (p. 112)
Animated Film Techniques Pt. 7 (p. 114)
 Assignment "Frostbite" (p. 117)
 "Visual Squeeze"—New Technique for Commercials (p. 118) *A. Boyars*
Multiple Reel Film Editing Aid (p. 120) *F. Foster*
British Kinematography vol. 33, Nov. 1958
Automatic Devices in Cinematography (p. 123) *F. N. G. Leevors*

INSURE QUALITY

in your motion picture processing—

USE HUNT Quality Controlled photo chemicals

All Hunt photo chemicals for both black and white and color processing conform to the following American Standard Specifications:

Acetic Acid, Glacial.	PH4.100-1958	Potassium Metabisulfite, Granular	PH4.277-1957
Ammonium Thiosulphate, 60% Solution.	PH4.252-1953	Potassium Persulfate.	Z38.8.181-1949
Anhydrous Sodium Thiosulphate	PH4.250-1953	Sodium Acetate, Anhydrous Granular	PH4.176-1958
Benzotriazole, Photographic Grade	PH4.204-1955	Sodium Bisulfite, Photo Powdered.	Z38.8.276-1949
Benzyl Alcohol	PH4.181-1954	Sodium Bromide, U. S. P. Granular	PH4.207-1954
Borax, Photo Granular.	PH4.230-1954	Sodium Carbonate, Mono- hydrate.	PH4.227-1954
Boric Acid, Photo Granular	Z38.8.103-1949	Sodium Hydroxide, N. F. Pellets	PH4.225-1956
Citric Acid, U. S. P. Granular.	Z38.8.102-1949	Sodium Metaborate, Octa- hydrate.	PH4.231-1954
Formaldehyde, N. F. Solution 37%.	Z38.8.152-1949	Sodium Sulfate, Anhydrous	Z38.8.175-1949
Graphol (Metol)	PH4.125-1956	Sodium Sulfite, Anhydrous Photo.	PH4.275-1952
Hydroquinone	PH4.126-1955	Sodium Thiocyanate, N. F. Crystals.	PH4.177-1956
Potassium Alum, U. S. P. Granular	Z38.8.150-1949	Sodium Thiosulphate, Rice Crystals.	PH4.251-1953
Potassium Bichromate, Photo Granular	PH4.300-1958		
Potassium Bromide, U. S. P. Granular	PH4.200-1955		
Potassium Ferricyanide, Fine Granular	PH4.302-1958		

American Standard Specifications for Photo Grade Chemicals are available from the American Standards Association, Incorporated, 70 East 45th Street, New York City 17, N. Y.

Manufacturing
Chemists



Established
1909

PHILIP A. HUNT COMPANY

PALISADES PARK, N. J.

Chicago • Cleveland • Cambridge • Brooklyn • Atlanta • Dallas • Los Angeles • San Francisco

Printing Motion-Picture Films Immersed in a Liquid. Part III. Evaluation of Liquids. *D. A. Delwiche, J. D. Clifford, W. R. Weller* (for complete paper, see *Jour. SMPTE*, 67: 678-686, Oct. 1958)

Electronics vol. 32, Jan. 16, 1959
Transistorizing 16-mm TV Remote Film Camera (p. 58) *E. M. Tink*

International Projectionist vol. 33, Dec. 1958
Handling and Projection of 16-mm Sound Motion-Picture Film (p. 5) *R. A. Mitchell*

Color Temperature: What Is It? (p. 10) *W. W. Lozier*

vol. 34, Jan. 1959
New Insights into the Carbon Arc (p. 5) *R. A. Mitchell*

Ampex Mag-Optical Converter for Theatre Sound Systems (p. 8)

Kino-Technik vol. 13, Jan. 1959
Verstärkerketten und Pegeldiagramme der Film- und Fernseh-Tontechnik (p. 2) *P. P. Süther*
Verbesserte Magnetton-Bänder auf Polyesterbasis (p. 8) *A. Kastle*

Fortschritte in der Herstellung von Hör- und Sprechköpfen (p. 11) *W. Dziekan*
Grundlagen für Planung und Bau moderner Fernsehstudios (F1) *P. P. Süther*
Einsatz des Fernsehens in der Spielfilm-Produktion (F6) *E. v. G.*

RCA Review vol. 29, Dec. 1958
On the Quality of Color-Television Images and the Perception of Color Detail (p. 495) *O. H. Schade* (also *Jour. SMPTE*, 67: 801-819, Dec. 1958)

Drive Factor and Gamma of Conventional Kinescope Guns (p. 564) *R. D. Gold* and *J. W. Schwartz*

Automatic Control of Video Tape Equipment at NBC, Burbank (p. 642) *R. W. Byloff*



books reviewed

Photosensors

By W. Summer. Published (1958) by the MacMillan Company, New York. XVI + 585pp. illus. diagrams + 90 pp. references and index. 5½ by 8½-in. Price \$21.00.

The book is titled by the generic term, photosensors, which the author has coined to cover any type of photoelectric element. It deals with the elementary characterization of various photoelectric devices and discusses a large number of industrial applications.

The introductory chapters describe the action and characteristics of photosensors and will be most helpful to those wishing to familiarize themselves in this device field for the first time. The treatment provides engineers and technicians with basic device fundamentals for applications engineering. Device physics is appropriately discussed only in elementary terms. An elementary background in associated optics is also provided in four chapters.

Some 20 chapters are devoted to the detailing of principles and numerous applications of photosensors in industry ranging from protective devices to automatic door openers. One is struck by the exceedingly large number of applications which are uniquely assembled in some detail for ready reference. Designers should find *Photosensors* a valuable guide which charts the present state of the art and provides the background and inspiration on which new controls may be developed.

The bibliography is monumental. A total of 1960 literature references are listed, ranging from the year 1635 to 1952. Six hundred and eighty-seven United States, British, French and German patents are listed in the photoelectric device and applications field. The bibliography and patent sections make this book of great value for both technical and patent reference.—*R. W. Sears*, Bell Telephone Laboratories, Murray Hill, N.J.

Practical Electroacoustics

By Michael Rettinger. Published (1955) by Chemical Publishing Co., 212 Fifth Ave., New York, 271 pp. Illus. Graphs. 5½ by 8½ in. Price \$10.00.

(Edit. Note: Through no fault of the present reviewer, this book has far too long awaited attention in the Journal.)

This little book is of particular interest to those whose specialty is sound recording or the pickup of music and speech for broadcast. The text is easy to read and it is not intended to be mathematical. The

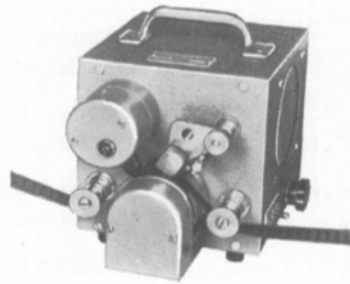
PRECISION SOUND READERS

your guarantee of the finest in sound editing equipment

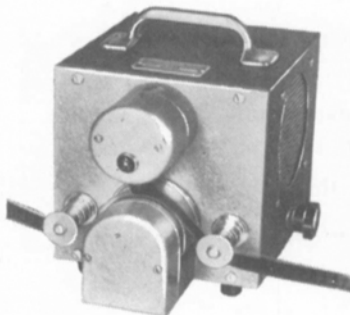
OPTICAL-MAGNETIC

Model 800 RL, 16mm, 35mm and ¼" tape.
NET PRICE \$269.50

Features: Simple threading; SMPTE Standard machined film rollers with oilless bearings; precision-ground shafts; polished stabilizer drum with needle bearings (surface cannot damage film). Soundtrack is read by placing it towards the operator and reading from right to left. (May also be read from left to right.)



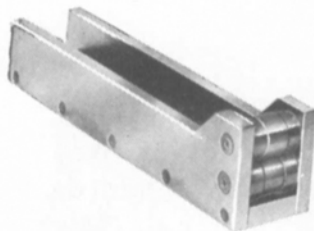
Complete
Sound
Reader
Guide
Free
on
Request



OPTICAL

Model 600 RL, 16mm and 35mm.
Net Price \$195.00

The ultimate in a precision optical track reader! Compact 6" x 6" x 8½" in size; 117-v 60 cyc. AC amplifier, 4-watt output; heavy-duty Alnico V speaker; safety fused; prefocused socket; pilot light; 6-ft heavy duty cord.



CUSTOM MADE FILM SLITTER

Built to SMPTE Standards or your own specifications. Features nickel chrome steel slitting blades, mounted in needle bearings. Base is constructed of ground steel with a black gun metal finish to protect from rusting.

WRITE FOR LITERATURE

All Prices F.O.B. Factory, Brooklyn, N. Y.

Designers and Manufacturers of Equipment for the Motion Picture and Television Industries

Come and see us at Booth 25 at the SMPTE Convention

Look for this trademark



PRECISION LABORATORIES

1037 UTICA AVENUE

BROOKLYN 3, N. Y.