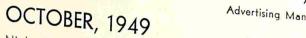
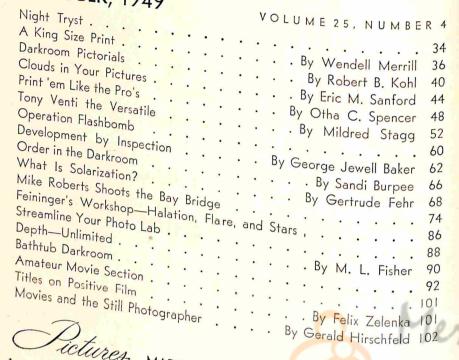
PHOTOGRAPHY PHOTOGRAPHY L. S. Patent Office, No. 342417

Editor: Frank Fenner, Jr., APSA, ARPS Technical Editor: Robert L. McIntyre Eastern Editor: Norman C. Lipton

Associate Editors: John Alden, Thomas W. Blair Assistant Editors: Maurice L. Fisher, Marvin Rubin

Art Editor: Sydney Barker Advertising Manager: Herbert E. Hayden





Pictures MADE IN THE DARKROOM

| COL STANK BY C | | | V 4./5% |
|--|--|--|--|
| CROPPING LOOPER Land. | | | , .,, |
| COLLEGE DV ITA C Senkins | | | |
| CONTROL , and Spring | | | |
| TEVEL By Good | | | -200 |
| TEXTURE CORES CONTRACTOR Ludwig | | | 76-77 |
| BAC DE SCREENS by D. 19 | | | , , , , |
| DAS-KELIFE P | | | 78 |
| MILITING BY James M. I. J. Metz. P | - | • | |
| MOLTIPLE PRINTING IN Hayman C I Konald W C | | | 79 |
| atte George C . Gordon | | | |
| of the Edit | | | 80 |
| less James I Allan Horvath | | | 0.2 |
| agazines M. Peters | | | 82 |
| ools and T | | | 0.4 |
| | | | 84 |
| opko ledse Discussor | | | |
| i lone Man | | | 98 |
| Sadgets 22 Novie Movie Notes | | | 104 |
| ories on the py the Editor | | * | 108 |
| Picture Section 28 Contests and Marie 1 | | * | |
| 32 Camera Club Markets | • | | 110 |
| COVED 2 | | *5 | 130 |
| | MULTIPLE PRINTING, by Bob Monroe; James M. Peterson, Jr. deters to the Editor degazines ools and Techniques opko Description Metz; Ronald W. Gordon Monroe; James M. Peterson, Jr. 10 Photo Tips New Home Macin | MULTIPLE PRINTING, by Bob Monroe; James M. Peterson, Jr. deters to the Editor degazines ools and Techniques opko Deterson, J. Metz; Ronald W. Gordon Hayman; George G. Andrus; Allan Horvath Deterson, Jr. 10 Photo Tips New Home Monitor New Ho | opko Fease Discusses—Darkroom Gadgets 22 andid Shots by the Editor 28 otes on the Picture Section 32 New Home Movies Home Movies New Books Contests and Markets |

POPULAR PHOTOGRAPHY, including Amateur Cinematography, Trade Mark Registered. Combined BRANCH OFFICES: New York Office: Easter State BRANCH OFFICES: New York Office: Empire State Building. New York I, N. Y. Los Angeles Office: St., Los Angeles I4, Calif.



ZIFF-DAVIS PUBLISHING COMPANY 185 N. Wabash Ave., Chicago I, III. WILLIAM B. ZIFF

Chairman of the Board and Publisher B. G. DAVIS



Vice-Presidents: MICHAEL H. FROELICH, Director, Eastern Division H. J. MORGANROTH, Production Director

H. G. STRONG, Circulation Director ARTHUR T. PULLEN, Secretary-Treasurer

ARTHUR T. PULLEN, Secretary-Treasurer

POPULAR MOTOGRAPHY is published to the post of the post of March 3, 111. Enteron as second-case matter, July 30, 1937 is Publishing Company at 185 N. Wabash Ave., of March 3, 112. Enteron as second-case matter, July 30, 1937 is the post of the

Spiratone Money Saving Specialties

Only Spiratone has the super-values in midget cameras, at tremendous savings Latest Model

TONE \$12.50

from fi3.5 to 1:11 for varying light conditions
—Special Loading Feature for easy insertion and removal of film—Genuine Eveready leather case—uses standard Mycro Film which is easily available: 5 rolls for \$1.00.

OTHER TINY CAMERAS AT BIG SAVINGS:

OTHER TINY LANEARS AT BIG SAVINGS (197.95) (197.

Spiratone has low-priced Developing and Enlarging out-fits for films taken with these cameras!

MODERNIZE YOUR REFLEX, GROUNDGLASS CAMERAS WITH A BUILT-IN RANGEFINDER AND AUTOMATIC DIAPHRAGM EFFECT FOR AS LITTLE AS \$3.95

The amazing optical discovery, the Dr. Tydings FOCUS-LIX is simply cemented to the underside of your ground-glass. A \$32.00 coupled rangefinder effect is seen through the brilliant spot. Straight lines in focus, JAGGED lines are out! Accurate focusing in dim light (for flash!), without eye strain, and at small apertures, becomes simple and positive.

Focuslix, ready for simple installation and postpaid,

For Rolleiflex, Ciroflex, Kine Exacta, Graflex, Speed Graphic and all similar cameras.

AN ALMOST UNBELIEVABLE VALUE! DABRITE EDITOR \$9.95

Yes, Spiratone offers you this complete editing outfit, a focusing editing viewer with a built-in notcher, a splicer, and a set of rewinds, all mounted on a folding

board, for less than \$10.00!-less than the usual cos

Deluxe model has Franklin Splicer and top with carrying handle. Your cost \$12.95.

A camera smaller than the palm of your hand with expensive camera features you would norm-

ally expect in a camera at five times its cost! Just compare, point for

Set and release type shutter with speeds to 1/100th and B—Optical Viewfinder plus reflex

finder — Lens openings from f:3.5 to f:11 for

Only Spiratone has this unique buy in imported cameras, the BARGAIN HUNTERS 35MM KONICA \$59.50

The anusual "specials" below are brand new and fully guaranteed—despite our almost

| only other camera h four times the cost 35mm cartridges, cometal body of the 3/16th". | Never before has any 35mm camera incorporating the features of the Konica been sold at less than double our sensationally low price! A precision camera second to none, the Konica has the famous Hexar f:3.5 lens, coated and fully color corrected, a Koni-Rapid shutter with speeds from one full second to 1/500th, B and T, a combined optical viewfinder and superimposed image rangefinder (the aving this unique feature sells for of the Konica!); it uses standard lor or black and white. The all-Konica measures only 51/4"x3"x Eveready Leather Case \$7.50—2X 20—Flash Attachment \$7.22—Lens- | The unusual "specials" below are brand new and fully guaranteed—despite our almost unbelievably low prices. Delur Autocritic Exposure Meter with leather case, reg. \$26.95 |
|---|---|--|
| Telephoto Lens \$22.2 shade \$1.60. | 20—Flash Attachment 97.22—Lens | |

| laneel Trivision Stereo Camera and Viewer, uses 828 film, color or b&w, reg. \$42.00 | elur Autocritic Exposure Meter with leather case, | 1 75 |
|--|---|------|
| s32.50 adget Bag, 10"x3"x7", zipper, large outside pocket Rangeinder, super-imposed image type, ac- curate from 2½ feet to infinity lancel Trivision Stereo Camera and Viewer, uses 828 film, color or b&w, reg. \$42.00 4xel Photographic Silde rule, reg. \$4.95 4xel Photographic Side | reg. \$26.95 | 1.75 |
| ladget Bag, 10"33"x7", zipper, large outside pocket nocket Rangefinder, super-imposed image type, accurate from 2½ feet to infinity laneel Trivision Stereo Camera and Viewer, uses 828 film, color or b&w, reg. \$42.00 | cap 50 | 4.50 |
| pocket Anngefinder, super-imposed image type, accurate from 2½ feet to infinity laneel Trivision Stereo Camera and Viewer, uses 828 film, color or b&w, reg. \$42.00 13.4 Arel Photographic Slide rule, reg. \$4.95 2.9 Hollis 555 Splicer, reg. \$5.55 Genuine Leather Cases for Weston Master, GE PR1 and GE DW58 exposure meters, reg. | adnet Ran 10"x3"x7", zipper, large outside | |
| curate from 2½ feet to infinity | nocket | 2.95 |
| 828 film, color or b&w, reg. \$42.00 | cocket Rangefinder, super-imposed image type, ac- | 2.95 |
| Arel Photographic Slide rule, reg. \$4.93 | 828 film, color or b&w, reg. \$42.00 | 3.48 |
| Benuine Leather Cases for Weston Master, GE PRI and GE DW58 exposure meters, reg. | Arel Photographic Slide rule, reg. \$4.95 | 2.50 |
| PR1 and GE DW58 exposure meters, reg. | Hollis 555 Splicer, reg. \$5.55 | 2.45 |
| ea. \$2.50 1.2 | PRI and GE DW58 exposure meters, reg. | |
| | ea. \$2.50 | 1.2 |

MORTON BETTAR 8MM & 16MM TELEPHOTO \$19.95

with built-in lens shade and tax incl.
ser. VI filter retaining ring



Thousands of Morton Bettar lenses were sold, in fact still are being sold, at \$39.95. Yet Spiratone offers you this magnificent

1" fil.9 telephoto, your I" fil.9 a 2" fil.9 telephoto and so on. Imagine how clear and sharp those distant shots will look on the screen when you use the Bettar, the lens which literally cuts distance into half.

For all Smm and 16mm Revere, Keystone, B&H. Cinemaster, Perfex, Franklin, Brismaster, Perfex, Brismaster, Perfex, Brismaster, Perfex, Brismaster, Perfex, Brismaster, Perfex, Brismast

8-25, 8-60, 8-90, and Maga-

Save on Guaranteed Spiratone 35MM RELOADS

Spiratone 35mm reloads in

exposures and expiration date.

Your choice of Kodak Pana-

tomic X, Plux , Super XX, Ansco Supreme or Dupont No.

20 exposures: Each 50c, 5 for \$2.00, 18 for \$4.00.
36 exposures: Each 50c, 5 for \$2.00, 11 for \$4.00.
Ansocoolor (nitrate base), 20 exp. ea. \$1.25, 5 for \$4.85.

"Anscocolor Processing" \$1.00. 20 exp. roll—incl. mounting—

hour service. Write for free mailer and price

SPIRATONE Telephoto & Wideangle

Exclusive with Spiratone. Not available Elsewhere!

LENSES for



ARGUS C2, C3, A2, 21-MERCURY II -KODAK 35 RF-BOLSEY B. B2-PER-FEX-RETINA-CLARUS

and all other 35mm cameras with f:2.7 or slower lenses

day money-back and a life-time guarantee cover every lens.
The Spiratone Telephoto lens doubles the size of your subject mat-ter on the negative or color silde —eliminates unwanted background

from the start. Yet, no compensation is required in exposure, lens opening,

distance setting. The Spiratone Wideangle lens almost doubles picture area covered by your normal lens, makes shooting in narrow spaces possible. No effect on exposure

camera with f:2.7 or \$35.50 PLUS \$4.50 F.E.T.

Telephoto for Leica Summar and Summitar, Contax Sonnar, Retina 11 f:2 and other f:2 35mm cameras \$29.95 plus \$3.25 f.e.t.

ROLLEIFLEX TELEPHOTO, \$33.45 plus \$3.25 f.e.t., for bayonet mount Rolleiflex and Rolleicord.

TOURIST TELEPHOTO, \$29.95 plus \$3.25 f.e.t., for f:4.5, 6.3 and 8 Tourist cameras.

9 5 Price All Spiratone lenses are color-corrected, coated, individually numbered. A fine leather case is supplied free with each lens. Our ten-

Only Spiratone bas this IMPORTED

TRIPOD \$8.88 WITH CAMLOCK TILTTOP



9 inches

Here, for the first time, is a tripod that you can always carry around with you: It fits into any gadget bag (9" when telescoped) and hardly sticks out of your coat pocket! It
weighs only eight ounces—as
little as four 35mm cartridges!
Yet, its seven ail-metal sections extend to over 44",

Yet, its seven all-metal sections extend to over 44°, 53½° with the extender you receive with the tripod. It sturdily supports almost any but the very heavy professional cameras, and its leg stops and rubber tips prevent it from slipping on any surface. The Cam-Lock Tilttop—a \$2.50 value alone—holds your camera sturdily at any desired angle. Tripod, extender and tilttop, only \$8.88.

35MM PERFEX SPECIALS

WITH COUPLED RANGEFINDER

MERCURY FANS

Only Spiratone offers a complete line of Mercury services only spiratone ones a complete read. Order from listing below or write for complete information MC on Mercury accessories, and ML on Mercury processing

| Rangefinder, slips on accessory clip\$ | 4 70 |
|--|-------|
| Rangefinder, slips on accessory clip | 4.70 |
| Mercury Exposure Meter | 2.80 |
| ensshade and three filters | 3.50 |
| Three-extension tube copying set | 4.78 |
| Box of 50 Jiffy masks for slides | .55 |
| LOOmm f:4.5 Telephoto Lens | 42.00 |
| Mercury 11 20 exposure film | .25 |
| | |
| | |

Accessories for the

KINE EXACTA

| Combination Lensshade and Filterholder\$ | 2.00 |
|--|-------|
| Filterkit, incl. shade and four filters | 4.95 |
| Evereadi Carrying Case | 7.25 |
| Complete Flashunit | 9.95 |
| Reflex Focusing Hood | 1.25 |
| Exacta Guide | 1.75 |
| 135mm f:3 5 coated Schneider Tele-Xenar, a | |
| Spiratone Exclusive at only | 19.50 |
| Set of three extension tubes | |

One year guarantee

| NEW | | | | | | 59.50 |
|-------|--|--|---|--|---|---|
| Koda | k Ekta | f:3.5, | Com | pur R | apid sh | |
| D 100 | | | | | | 40 05 |
| 101, | f:4.5, | Alphax | sh., 1 | NEW . | | 22.50 |
| 55, | 1:3.5, | used | | | | 33 50 |
| 55, I | :2.8, 1 | seu | | | | 39 25 |
| Delux | e, f:2.8 | s, used | | | | 56.50 |
| | | | | | | |
| ea a | ccessorie | s for | any | model: | Everea | dy Cas |
| | NEW Koda 101, 55, 55, f Delux | NEW Kodak Ektar 101, f:4.5, 55, f:3.5, 55, f:2.8, u Deluxe, f:2.8 | NEW Kodak Ektar f:3.5, 101, f:4.5, Alphax 55, f:3.5, used 55, f:2.8, used Deluxe, f:2.8, used ted accessories for | NEW Kodak Ektar f:3.5, Com 101, f:4.5, Alphax sh., I 55, f:3.5, used 55, f:2.8, used Deluxe, f:2.8, used ed accessories for any | NEW Kodak Ektar f:3.5, Compur R 101, f:4.5, Alphax sh., NEW 55, f:3.5, used 55, f:2.8, used Deluxe, f:2.8, used end accessories for any model: | Schneider f:2.8, Xenar f:2.8, Compur Rapi NEW Kodak Ektar f:3.5, Compur Rapid sh 101, f:4.5, Alphax sh., NEW 55, f:3.5, used 55, f:2.8, used Deluxe, f:2.8, used etd accessories for any model: Evered Flash unit \$6.50—Lensshade-4 filterki |

Please add approximate cost of postage to your remittance. 25% deposit required on C.O.D. orders.

SPIRATONE

49 WEST 27th STREET

NEW YORK 1, NEW YORK

32-34 STEINWAY ST. LONG ISLAND CITY 3, NEW YORK

October, 1949

