

Because of its continuous beam we could see its effect on shadows—something you can't do with much certainty when using flash. Naturally, the Cinema Light can also be used indoors for still snapshots with color or b & w.—M.A.M.

## 105MM F/2.5 SPIRATONE FOR 35MM SLR CAMERAS

**MANUFACTURER'S SPECIFICATIONS:** 105mm f/2.5 Spiratone Tele with interchangeable T adapters for most 35mm focal plane shutter SLR cameras. **FEATURES:** Preset apertures to f/22, focus 3½ ft. **PRICE:** \$34.95. **IMPORTER:** Spiratone Inc., 135-06 Northern Blvd., Flushing 54, New York.

While the quantity of moderately priced 135mm and longer preset lenses for SLR has been multiplying like rabbits, there has been little manufacturing activity in the very popular, shorter 100-105mm range. The tiny four-element Spiratone Tele, only 3½ in. long and 2½ in. in diameter, should go far in filling out the menu.

105mm F/2.5 Spiratone		
Aperture	Center Sharpness	Edge Sharpness
2.5	Good	Acceptable
2.8	Very good	Acceptable
4	Excellent	Acceptable
5.6	Excellent	Good
8	Excellent	Very good
11	Excellent	V.g. excel.
16	Excellent	Very good
22	Excellent	Very good

It's extremely well finished in satin black with chrome highlights on the smooth turning, broad, knurled focusing ring. The preset ring with a special white dot to indicate f/2.8, has positive click stops which cannot be accidentally overrun by the smooth turning preset ring. All numerals are large and legibly engraved in white except for the red metric scale, the color of which clearly differentiates it from the white footage scale. The lens's ability to be focused down to 3½ ft. makes extremely close portraiture a snap. Optical ability? The lens test speaks for itself.—H.K.

## 4 DIFFERENT ROLLEIS, 4 DIFFERENT LENSES

**MANUFACTURER'S SPECIFICATIONS:** Rolleiflex 2.8 and 3.5 twin-lens reflex cameras for 2¼ x 2¼ and smaller formats. **LENSES:** 80mm f/2.8 Xenotar or Planar, or 75mm f/3.5 Xenotar or Planar taking; 80mm f/2.8 or 75mm f/2.8 Heidosmat viewing. **SHUTTER:** Synchro-Compur between-lens with speeds from 1 to 1/500 sec. plus B, MX sync, self timer. **VIEWING:** Full Focusing screen, automatic parallax correction; interchangeable folding hood with magnifier, sportsfinder. **OTHER FEATURES:** Combined shutter cock, film advance crank; automatic film loading and frame counter; double exposure prevention

with provision for intentional double exposures; adjustable pressure plate for 35mm film (with adapter); built-in exposure meter, E.I. 12 to 1600, coupled to lens aperture wheel. **PRICE:** 2.8: Xenotar, \$336; Planar, \$349. 3.5: Xenotar, \$269; Planar, \$279. **IMPORTER:** Burleigh Brooks Inc., 420 Grand Ave., Englewood, N.J.

80mm f/2.8 Xenotar		
Aperture	Center Sharpness	Edge Sharpness
2.8	Acceptable	Acceptable
4	Good	Acceptable
5.6	Excellent	Good
8	Excellent	Good
11	Excellent	Good
16	Excellent	Very good
22	Very good	Very good

80mm f/2.8 Planar		
Aperture	Center Sharpness	Edge Sharpness
2.8	Acceptable	Acceptable
4	Good	Acceptable
5.6	Good	Good
8	Very good	Good
11	Very good	V. g. excel.
16	Excellent	V. g. excel.
22	Very good	Very good

75mm f/3.5 Xenotar		
Aperture	Center Sharpness	Edge Sharpness
3.5	Good	Acceptable
4	Good	Acceptable
5.6	Very good	Acceptable
8	Very good	Good
11	Excellent	Good
16	Very good	Good
22	Very good	Good

75mm f/3.5 Planar		
Aperture	Center Sharpness	Edge Sharpness
3.5	Good	Acceptable
4	Very good	Acceptable
5.6	Excellent	Good
8	Excellent	Good
11	Excellent	Very good
16	Excellent	Very good
22	Very good	Good

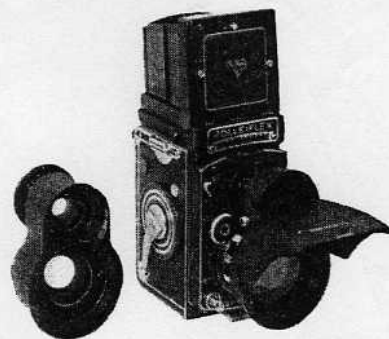
Catching up with some overdue homework which means completing our test reports of the Rolleiflex. Although we've already put some models of this journeyman twin-lens reflex through our usual performance torture tests (see

MODERN PHOTOGRAPHY'S unbiased test reports are based on actual field work and measurements carried out in our own laboratories. Only production equipment and materials similar to those available to the reader are tested. Readers are warned, however, that our tests, particularly of lenses and cameras, are often far more critical and specific than those published elsewhere and cannot therefore be compared with them. In all lens tests, unless specifically noted, where and cannot therefore be compared with them. In all lens tests, unless specifically noted, some of the sharpness fall-off at the edges can be traced to curvature of field, most noticeable at close focusing distances; at distant settings this effect would be minimized. Note too that the standards for center sharpness are higher than for edge sharpness, so that no comparison should be made between center and edge ratings. No MODERN test may be reproduced in whole or in part for any purpose in any form without permission.

"Modern Tests" July, 1959; Jan., 1960; Oct., 1961), we've never given the lenses our newer, fuller tests.

Now we've gathered up a quartet of the latest Rolleis, with both the Planar and Xenotar lenses, and in both f/2.8 and f/3.5 models. The reports, herewith, of these four lenses bring the record up to date.—D.L.M.

## MUTAR MEANS MORE LENSES FOR ROLLEI



**MANUFACTURER'S SPECIFICATIONS:** Carl Zeiss Rolleiflex-Mutar 0.7X and 1.5X supplementary lenses for all 2¼ x 2¼ Rolleiflex twin-lens reflex cameras. **FEATURES:** four element (.7X), five element (1.5X); bayonet mount; distance scale; focus to 22 in. (.7X), and 6 ft. (1.5X). **PRICE:** 0.7X, \$199.50; 1.5X, \$245. **IMPORTER:** Burleigh Brooks, Inc., 420 Grand Ave., Englewood, N.J.

For years Rolleiflex owners have been screaming for some sort of lens interchangeability, short of having to carry another camera around (there are both wide-angle and telephoto models—each, like the normal Rolleiflex, with one fixed lens). And the manufacturer has periodically tried to meet them halfway with such gadgets as a long stovepipe-type lens that had to be fitted on the viewing lens. Then after you had composed and focused you transferred it to the taking lens in order to shoot the picture. This, like the efforts of other companies, was a more or less successful answer—generally less.

Frank and Heidecke set out to develop a first class system to increase the Rolleiflex's versatility without the need to resort to the mechanical complexities found on cameras with interchangeable lenses. And so, enter the Mutar, a double-barreled piece of glass made by Carl Zeiss that fits right over the camera's lenses. The 0.7X Mutar converts it to a wide-angle camera; the 1.5X to a telephoto.

As the name suggests, the net effect of the Mutars is to change the focal length of the lens on the camera. Thus

(Continued on page 120)

# COMPARE & SAVE LOW, LOW PRICES

on Quality-Guaranteed  
Color Film Processing

## KODACHROME ANSCOCHROME EKTACHROME

Kodachrome II, X  
Super-Anscochrome  
Hi-Speed Ektachrome, X  
DEVELOPED AND MOUNTED

**35mm** 20 exp — **85¢**  
36 exp — \$1.50  
Stereo 20 exp — \$1.85  
36 exp — \$2.95  
120, 620, 127 — \$1.25  
(All sizes unmounted—75¢)

**MOVIE FILM PROCESSING**  
**8mm** Magazine — **65¢**  
Roll — \$1.00

**COLOR PRINTS**  
**2x** 2½ x 3½ from 35mm and 828 transparencies . . . . . **15¢**  
**3s** 3½ x 3½ from stereo and square transparencies . . . . . **25c**  
**3x** 3½ x 5 from 35mm and 828 transparencies . . . . . **30c**  
From any transparency —  
**5x** — 5 x 7 in Studio Mount **85c**  
**8x** — 8 x 10 in Studio Mount **\$1.75**

**DUPLICATE TRANSPARENCIES**  
35mm Mounted — 16c

**KODACOLOR  
KODACOLOR X**  
Developed and Printed  
**8 exp** — 3½ x 5 . . . . . **\$2.00**  
**12 exp** — 3½ x 3½ . . . . . **2.50**  
**16 exp** — 3½ x 5 . . . . . **3.75**  
**35mm 20 exp** — 2½ x 3½ **2.75**  
**35mm 20 exp** — 3½ x 5 . . . . . **4.50**  
Cash credit for each negative not printed

Processing of New **KODAPAK**  
Film From Instamatic Cameras  
**KODACHROME X  
OR  
EKTACHROME X** **85¢**  
Developed and Mounted . . . . .  
**KODACOLOR X** **\$2.50**  
Developed and Printed . . . . .  
Black & White—Developed & Printed . **85¢**

**ALL WORK GUARANTEED**  
Film is Processed the Day We Receive It!  
SEND FILM, NOW or Write for Free  
MAILERS and Complete Price List  
**GLO-COLOR LABS**  
GPO BOX 9 L, NEWARK 1, NEW JERSEY

## MODERN TESTS

(Continued from page 105)

the 0.7X Mutar changes a 75mm lens to 52.5mm and an 80mm to 56mm, while the 1.5X unit makes a 75mm lens into 112.5mm and an 80mm into 120mm.

What you really are doing when you clip on the Mutar is add a few more elements to the camera's lens. The additional viewing lens gives you the widened or lengthened field so you can view as you do with the normal lens. Operation of the camera is exactly the same with or without the Mutars as, while in position, the Mutars do not interfere with any of the camera controls. Though not too heavy, they might, however, topple the camera if you are using them on a table top or flat surface. But you can prop the whole assembly up just by flipping down a small foot at the front of the Mutar.

Carl Zeiss Rollei-Mutar 0.7X with 75mm f/3.5 Planar		
Aperture	Center Sharpness	Edge Sharpness
3.5	3.5 Acceptable	Acceptable
4	3.5 Acceptable	Acceptable
5.6	4.5 Good	Acceptable
8	5.0 Very good	Good
11	5.5 Excellent	Good
16	5.5 Excellent	Very good
22	4.5 Good	Very good

Carl Zeiss Rollei-Mutar 1.5X with 75mm f/3.5 Planar		
Aperture	Center Sharpness	Edge Sharpness
3.5	Acceptable	Acceptable
4	Acceptable	Good
5.6	Very good	Good
8	Excellent	Good
11	Excellent	Good
16	Very good	Good
22	Very good	Good

Since the Mutars must fit right onto the camera lens, you must have the proper adapter ring on them. The basic Mutar is the same for all 2¼ Rolleis, and comes fitted with a ring for the size I, II, or III lens on the camera. You can change rings (\$4.50 each) by yourself with a small screw driver. To attach, you hook the small lip on top of the Mutar over the topmost bayonet on the camera's viewing lens, then turn a knurled ring at the back of the Mutar taking lens and bayonet the whole assembly securely in place. As this ring is click-stopped at three places, there's no problem in fitting the Mutar. Just make sure the ring is at a click stop before you put the Mutar on.

On top of the Mutar is a distance conversion scale printed on a small metal band held in place by two tiny screws. One half of the band is in meters, the other half in feet. If the

(Continued on page 122)

## NEW! IMPROVED SLIDE MOUNT

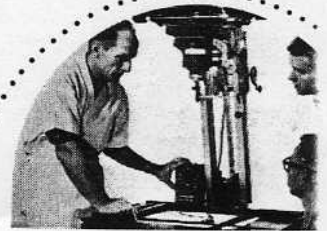
Precision made of smooth resistant, non-warping polypropylene, MR-E slide mount has more features than any comparable mount. Merely insert film in mount and closed. Use again and again.  
Available in 35mm double and 2¼ x 2¼  
100 35mm d.f.  
50 2¼ x 2¼  
100 2¼ x 2¼

one-piece polypropylene

Send \$1.00 for sample pack of 20 35mm double 12 2¼ x 2¼, including tax and postage.

**MR-E Inc**  
8715 La Tijera Blvd.  
Los Angeles 45, Calif

## INSTRUCTION



### EARN DEGREE IN PHOTOGRAPHY IN CALIFORNIA

Art Center School's working program prepares you an artist with the camera. Bachelor's Degree. Accredited. Coed. 33rd month. Terms: Feb., June, Sept. Write Mark 5353 W. 3rd St., Los Angeles 5, Calif

### THE ART CENTER SCHOOL

## STUDY PHOTOGRAPHY

COMMERCIAL • PORTRAIT • ILLUSTRATION  
Professional course prepares high school graduate for immediate job with excellent opportunities. Finest instruction and equipment. Coeducational. Living accommodations secured for men. Dormitory for girls. Enter 1st month. WRITE REGISTRAR, Room 342, Specific 750 NORTH MICHIGAN AVENUE, CHICAGO

## RAY-VOGUE SCHOOLS ■ CHICAGO

# LOWEST AIR FARES TO EUROPE

**ASK ANY  
TRAVEL  
AGENT**



FROM NEW YORK TO: ICELAND • ENGLAND • SCOTLAND • HOLLAND • GERMANY • NORWAY • SWEDEN DENMARK • FINLAND • LUXEMBOURG\*  
\*No Family Plan to Luxembourg  
VISIT ICELAND en route, new Tourist Discovery.

The PIONEER of Low Fares to all Europe!

**ICELANDIC AIRLINES**  
**LOFTLEIÐIR**

610 Fifth Avenue (Rockefeller Center), New York PL 7-8585  
37 So. Wabash Ave., Chicago 3 FI 6-2341  
210 Post St., San Francisco 8 YU 2-7651

Lowest of any scheduled airline at anytime of the year! Extra savings, too, on Low Season and Family Plan fares for 10½ months, Aug. 16 to Apr. 30; return Oct. 16 to June 30. Savings also apply to children 12 to 25. Fly in comfort on long-range pressurized DC-6B's.

WRITE FOR FOLDER MP

## UNBELIEVABLE!

### SPECIAL

35mm LOADER and  
35mm ANSCO DEVELOPER, plastic,  
good for 35mm #620 and #127  
12 EMPTY CARTRIDGES  
100 ft. 35mm FILM ASA 50

PRICE \$11.50

### 8mm COLOR CARTOONS

Approx. 200 ft.  
Popular Subjects .....\$7.50 each  
6 Assorted Color Cartoons .....\$40.00  
12 Assorted Color Cartoons ..... 75.00

### BULK MOVIE FILM

ASA 50  
8mm x 400' dble. ....\$ 5.95  
8mm x 1600' dble. .... 22.00  
CAMERA SPOOLED NO PROCESSING

8mm x 100' dble. ....\$2.79  
8mm x 25' dble. 7 for price of 6! .....75¢ each

SIZE	54 rolls	27 rolls	15 rolls
16mm x 25'	\$3.95	\$4.95	\$3.15
16mm x 50'	19.95	10.95	6.85
*16mm x 100'	49.50	29.50	20.65

\*Camera spooled

### SPECIAL

No ONE Can Beat Our Prices

#### ANSCO COLOR With Processing

100 ft.—16mm— .....\$5.00  
50 ft.—Mag.— .....\$3.25  
25 ft. Dbl. 8mm .....\$2.50  
Mag. ....\$3.00

### MOVIE FILM

FRESH—WITHIN DATE—INCLUDING DEVELOPING  
ANSCOCHROME Weston 32—  
Available in 8mm and 16mm

100 ft. 16mm roll	.....\$7.50
50 ft. 16mm Magazine	.....4.50
8mm 25 ft. double roll	.....3.00
8mm 25 ft. double Magazine	.....3.50

Black and White ASA 50 with developing  
100 ft. 16mm .....\$2.50  
25 ft. double 8mm roll with dev. .... 1.25  
50 ft. 16mm Black & White Mag. .... 2.00  
25 ft. double 8mm Magazine ..... 1.50  
#127, 120, 620, 116, 616  
Black & White, 10 for .....\$1.95  
120 & 620 color .....75¢ a roll  
35mm 20 exp. Black & White .....50¢  
35mm 36 exp. Black & White .....75¢  
AERO EKTACHROME #120 and #620  
Weston 40 .....3 for \$2.85  
35mm DEVELOPER ALL MADE OF  
PLASTIC .....\$5.95  
35mm Black & White Bulk 100 ft.  
Super X—Double X and Plus X .....\$2.50  
Ektachrome 20 Exp. ....\$1.00

### COLOR FILM w/PROCESSING

8mm 25' dbl. roll	.....\$2.25
8mm 25' dbl. mag.	.....1.75
16mm 100' available in both sound or silent	.....5.00
16mm 50' magazine	.....3.50

### FRESH! ANSCOCHROME

8mm 25 ft. dbl. with proc. (4 oz.)	\$2.50	16mm movie film 100 ft. roll. (Wgt. 8 oz.)	\$4.95
------------------------------------	--------	--	--------

400 ft. REELS	.....3 for \$1.00
1200 ft. REELS	.....\$1.00 each
1600 ft. REELS	.....\$1.25 each
400 ft. CANS	.....20¢ each
1200 ft. CANS	.....50¢ each
1600 ft. CANS	.....50¢ each

**ASTRA PHOTO PRODUCTS** 243 West 55 St.  
N. Y. 19, N. Y.

## MODERN TESTS

(Continued from page 120)

distance scale on your camera is in the wrong system, you can take out the screws, turn the band around and put the proper scale right side up. However, unless you have very small fingers, you'll have trouble, and it's quite easy to plant fingerprints on the Mutar while changing that little band. It's best to make sure that the scale facing upward is the same as that on your camera before you leave the store. The Mutar comes in a finely-crafted, sturdy leather case, but without lens caps, either front or back. That leaves four inviting surfaces to attract fingerprints if you let your guard down for one minute.

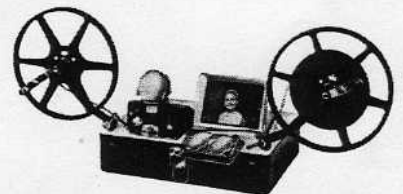
But the Mutars do have a sunshade (\$5.). Two plugs (miniatures of those that hold the film spool in place on the camera) on either side of the shade fit into holes around the rim of the viewing lens. The shade is then swiveled up until two hooks clip into two other holes on the bottom lens. When the Mutar is not in use, you can disengage the shade's bottom hooks and swivel it down flat against the lens for compact storage in the case. However, this makes for a tight fit in the case, so watch those fingers when you remove or return the lens to its case.

The top of the sunshade comes right across the center of the viewing lens, but it's so thin and so close to the lens that it's virtually invisible. Unless you are looking for it, you'll never see it, and then it won't hamper your focusing and viewing anyway.

In operation, the Mutars slightly darkened the overall focusing screen, but this proved no problem except in very dim indoor light.

Our tests were made with the Mutars on the Rollei with f/3.5 Planar lens, and you might be interested in comparing them with the tests of the Planar lens alone in the test above. Filters are also available for the Mutars at \$25 (black-and-white) and \$27.50 (color conversion).—D.L.M.

## BOGEN PIII EDITOR FOR 8MM MOVIE EDITOR



**MANUFACTURER'S SPECIFICATIONS:**  
Bogen Editor PIII for 8mm movie film.  
SCREEN: 2 3/8 x 3 1/8 in. gr. and glass.  
LIGHT SOURCE: 6-volt 10-watt lamp.  
CONTROLS: Focus and framing adjustments. OTHER FEATURES: Metal construction, 110-volt AC operation, self-contained case measuring 8 3/4 x 7 x 3 1/2 in., Quick Splice 8mm Mylar tape splicer, frame puncher, and self-contained reel

(Continued on page 124)