

**This camera manual library is for reference and historical purposes, all rights reserved.**

**This page is copyright by mike@butkus.org M. Butkus, N.J.**

**This page may not be sold or distributed without the expressed  
permission of the producer**

**I have no connection with any camera company**

**If you find this manual useful, how about a donation of \$3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your E-mail address too so I can thank you. Most other places would charge you \$7.50 for a electronic copy or \$18.00 for a hard to read Xerox copy. These donations allow me to continue to buy new manuals and maintain these pages. It'll make you feel better, won't it?**

**If you use Pay Pal, use the link below. Use the above address for a check, M.O. or cash. Use the E-mail of butkusmi@ptd.net for PayPal.**



**[back to my "Orphancameras" manuals /flash and light meter site](#)**

**Only one "donation" needed per manual, not per multiple section of a manual !**

**The large manuals are split only for easy download size.**



**MAMIYA**  
*Super-16*  
MODEL III

# MAMIYA *Super-16* MODEL III.

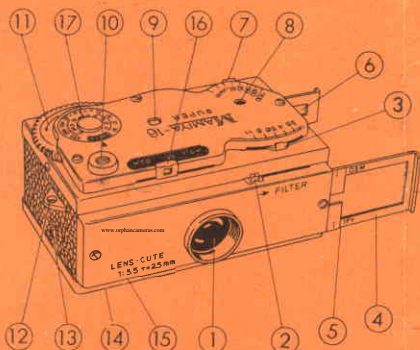
THE MAMIYA SUPER-16 is no ordinary subminiature camera. It is a superbly designed precision instrument capable of performance matching that of cameras many times its size and weight. So versatile is it that besides ordinary black-and-white and color photography of people, groups, scenery, buildings, animals, or still life, there are innumerable applications in scientific and industrial fields for recording and copying work.

Some of the outstanding features of the MAMIYA SUPER-16 will be enumerated below.

## 1. Focusing Scale for Sharp Negatives

Although sub-miniature cameras with short focal length lenses are endowed with considerable inherent depth of field, the tremendous magnification necessary to produce enlargements of fair size from the diminutive  $10 \times 14$  mm negatives calls for maximum sharpness of register at all distances. To this end, the MAMIYA SUPER-16 is provided with adjustable focus so that subjects at from 3 feet to infinity may be accurately photographed with maximum detail.





1. Lens
2. Filter lever
3. Aperture control
4. Frame finder
5. Parallax correction scale
6. Finder peephole
7. Shutter speed control
8. Film advance indicator
9. Exposure counter
10. Shutter button, with screw socket for cable release or self timer
11. Filmwind wheel
12. Strap eyelet
13. Backlid catch
14. Tripod socket (synchro-flash contact)
15. Filter glass change lever
16. Focus adjustment lever
17. Film rating indicator

## LOADING THE MAMIYA SUPER-16 WITH FILM

1. Open up an empty cartridge, and remove spool (A). Pull out a short length of film from loaded cartridge and attach end to spool by means of the spring clip provided. Secure film to spool by fitting protuberance (B) of the spring clip in the groove of the spool. Insert spool into the cartridge, and close. (Cf. figure 1 and figure 3)

2. Next pull out frame finder, and operate filmwind wheel and shutter button until the red numeral 19 appears on the exposure counter. Close finder, open backlid, and load cartridges as shown in figure 4, with the take-up cartridge in the chamber under the filmwind wheel.

3. If the slots at the end of the spools do not engage the spindle keys, the magazines will not sink fully into the chambers. In this case turn

spools slightly with fingertip as shown in figure 5 until magazine snaps home.

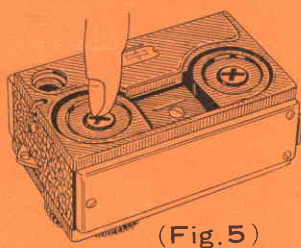
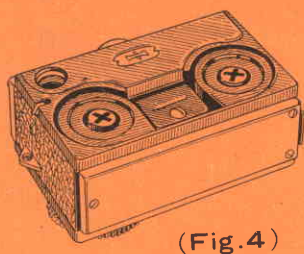
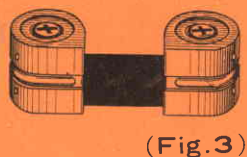
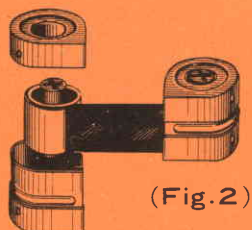
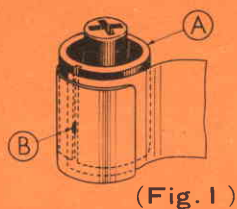
4. Close backlid, pull out frame finder, and expose two frames of film. The camera is now ready for taking twenty pictures, with the exposure counter indicating "1." When advancing film, watch film advance indicator. If it does not move, take-up is not functioning properly. Check spool, and secure film end if it has worked loose.

Loading and unloading should not be done under direct sunlight.

## PICTURE-TAKING WITH THE MAMIYA SUPER-16

1. Pull out frame finder and peephole, then set shutter speed (7), aperture (3) and focus (16) controls to suit the subject-matter. Sight through the peephole, hold camera steady, and press the shutter button.

2. Because the lens of the MAMIYA SUPER-16 has considerable depth of field, even



when fully opened up, some error in judging distances is permissible at more than 6 feet. When the range is less than 6 feet, care should be exercised to obtain the right distance and to set the focus adjustment at the correct reading. At ranges of less than 1.5 feet correction must be made for parallax. At 1.5 feet, use the first line on the parallax correction scale (5), and the 0.3 meter line when the distance is one foot.

The small circle on the focusing scale, between  $\infty$  and 6 indicates the normal focus point (12 feet) which will give good results over a maximum range of distances.

3. Shutter speed adjustment may be done either before or after film advance and shutter cocking.

**DEPTH OF FIELD TABLE**  
**FOR MAMIYA SUPER-16**  
 (Circle of confusion 1/40 mm)

DISTANCE		$\infty$	12'	6'	3'	1.5'	1'
LENS OPENING	3.5	28	9	5	2.7	-0.7"	-0.3"
		$\infty$	12	7	3.3	+0.8	+0.3
	5.6	18	7	4.5	2.6	-1.1	-0.5
		$\infty$	36	9	3.5	+1.3	+0.5
8	13	6	4.1	2.5	-1.5	-0.6	
	$\infty$	$\infty$	11	3.8	+2.0	+0.7	
11	9	5	3.7	2.3	-2.1	-0.8	
	$\infty$	$\infty$	17	4.3	+2.8	+1.0	

4. The built-in filter can be brought into play by moving the filter lever after the frame finder has been pulled out. A Y-2 filter (exposure factor,  $\times 2$ ) is provided. This glass may be removed for cleaning or changing by shifting lever (15) and allowing the filter to drop out.

## HOLDING THE MAMIYA SUPER-16

Fig. 6 shows two ways of holding the SUPER-16 when taking pictures. Any other comfortable way of holding the camera may be used, but care must be taken not to let any finger cover the lens aperture. The shutter button should be pressed slowly but firmly.

The camera must not be jarred while a picture is being taken.



## TO USE SPECIAL FLASH ATTACHMENT

Insert two penlight batteries, head first, into the battery case, and close. Next, pull out camera frame finder; then with the screw coupling attached to the "L" member of the flashgun secure camera by screwing into tripod socket (14).

To test synchroflash circuit, keep camera unloaded or waste one frame of film. Insert test lamp, then press shutter button. If lamp emits a bright flash, the flashgun and synchronizing circuit are in working order.

When putting away the flashgun, always remove batteries from case to prevent corrosion from leaking batteries.

For perfect synchronization, use shutter speeds of not more than  $1/25$  second.

## 2. Superior Lens

The CUTE F3.5, 25 mm focal length lens is a precision-ground, hard-coated color-corrected anastigmat of extremely high resolving power. This lens will record on readily available 16-millimeter cine film minute details that cannot be discerned by the naked eye. 20-frame lengths of 16-millimeter film, either black-and-white or color, are loaded in special MAMIYA-16 safety cartridges to permit daylight reloading of film.

## 3. Wide Range of Shutter-Speeds, and Built-In Synchroflash Contact

With sub-miniature negatives, correct exposure is of paramount importance. Though small in size, the MAMIYA SUPER 16 is provided with an 8-step range of shutter-speeds...B, and 1/2, 1/5, 1/10, 1/25, 1/50, 1/100, and 1/200 second. In addition, shutter action is designed to close the circuit for synchroflash photography.

## 4. Rapid-Fire Snap-Shots

More than 15 successive frames can be exposed in 10 seconds because of the automatic filmwind, shutter-cocking mechanism actuated by a single cocking wheel. Double exposures are positively prevented.

The controls are so arranged that no change in position or grip is necessary, while the extra-sensitive shutter button responds to the lightest pressure to prevent camera movement, the bugbear of miniature camera work.

## 5. Scale Indications Visible at a Glance

All controls and scales are located on the top surface of the camera. These are: shutter speed, aperture, filmwind indicator, distance (focusing) scale, exposure counter, and film rating indicator.

## 6. "Sports" Type Viewfinder

The viewfinder of the SUPER-16 is an easy-to-sight, frame-type arrangement with pull-out frame and peephole. The pull-out frame is adjustable for parallax corrections at close range. Both frame and peephole members are easily retracted.

## 7. Easy Loading and Unloading

Because the backlid is easily removed to reveal the film chambers, the loading of the SUPER-16 with safety cartridge is a simple, quick operation.

## 8. Filmwind Indicator

To prevent malfunctioning of the take-up of film, visual indication is provided to indicate actual movement of film from film cartridge to take-up cartridge.

## 9. Built-In Color Filter

The MAMIYA SUPER-16 has a built-in filter frame which can be slid into position when needed. Retracting the finder frame automatically removes the filter. Filter glasses can be readily changed.

## 10. Safety Catch

With the finder frame retracted, the shutter button is locked. This prevents accidental release of the shutter mechanism. The lens is also covered for protection when finder is not in use.

## 11. Clip-On Leather Thong

A convenient leather carrying strap which clips on to the eyelet provided on the camera is available.



# Accessories



- Soft leather carrying case
- Special film cartridge
- Daylight loading film
- Spare film, packed three rolls to a box
- Extra filter (with lens hood)
- "Enlahead" enlargement projection attachment
- Synchroflash attachment
- Synchroflash tip adaptor

Ordinary 16 mm cine film available on the market may be used. Cut into 1.5 feet lengths in darkroom, and load into magazines (cartridges). In this case, do not position spring clip on spool slot so that end of film cannot slip off.

The ENLAHEAD enlargement attachment for making enlargements from 16 mm film replaces the usual lens on the enlarger for efficient work at shorter projection distances.

When using standard synchroflash attachments fitted with JIS Type B connector terminal, screw synchroflash tip adaptor into tripod socket (14).



**MAMIYA CAMERA CO., LTD.**

NO. 7, 1-CHOME, HONGO, BUNKYO-KU, TOKYO