

# Mamiya

Mamiya 7



*For years, serious photographers have desired a camera which produces the largest possible negative or transparency—yet is easily hand holdable. They wished for superb precision quality, dreamed of world class lenses, hoped for controllable exposure automation, a really whisper quiet shutter, a razor sharp focusing finder uncluttered by too much data - and unchallengeable accuracy in exposure.*



*The Mamiya 7 has made their dreams come true. Using standard 120 or 220 film, the compact Mamiya 7 delivers ideal format 6 × 7cm images. This large image area can be viewed with the naked eye, enlarges to photographic paper sizes and magazine formats without cropping and is 4-1/2 times larger than 35mm images.*

*Yet the Mamiya 7 handles like a "35"—and fits the photographer's hand like a glove. Truly, a dream come true.*





## Mamiya 7, the ultimate 6×7 rangefinder camera.

The Mamiya 7 is the only camera in the world that has these exclusive features:

- Ideal 6×7cm film format that enlarges to standard photographic and industrial paper sizes without cropping and without wasting film. A size that can be viewed with the naked eye and that is easy to retouch.
- Lightweight, compact, "quick on the draw" and ergonomically designed to fit your hand like a glove.
- Crisp, accurate, broad based, split-image rangefinder, that is easy to focus, even in poor light.
- Bright viewfinder with frame lines that are automatically indexed to match the focal length of lens in use and that automatically adjust for parallax.
- Interchangeable, world-class Mamiya lenses, utilizing the latest optical glasses and computer aided design and that take advantage of the camera's short flange focal distance (there is no mirror box) to reach new heights in lens quality.
- Precision, super quiet, electronic shutter with speeds from 4 to 1/500 sec., flash synched at all speeds.
- Built-in "dark slide" curtain that permits changing lenses with film in camera.
- Precision automatic exposure meter with manual overrides.
- Selftimer (delayed action release) with automatic turn-off.
- Optional external battery case to wear inside clothing in extreme cold.
- Optional panoramic adapter that permits use of 35mm film and yields 24×65mm images.
- Built with typical Mamiya quality for hard professional use and long service life.





Mamiya 7

Mamiya

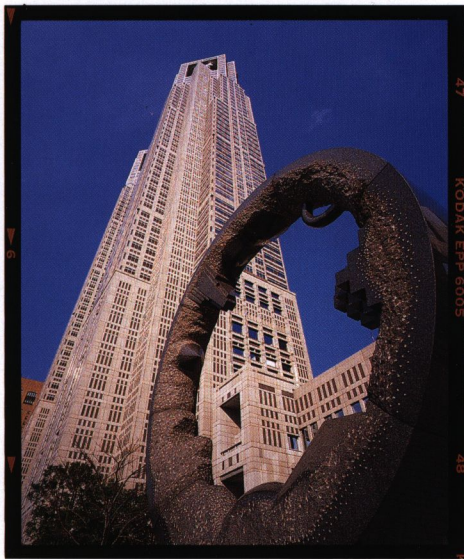
LENS MADE IN JAPAN  
1:4.5  
f=43mm L

4 5.6 8 11 16 22

4 5 7 10 20 ∞ ft  
2 1.5 2 3 7 ∞ m  
65mm 22 16 8 4 4 8 16 22

4 5.6 8 11 16 22

4 5 7 10 15 30 ∞ ft  
1.2 1.5 2 3 5 10 ∞ m  
80mm 22 16 8 8 16 22



**The 43mm F/4.5  
Ultra-Wide Lens for the Mamiya 7**

*This fantastic ultra-wide angle lens with a 92° angle of field (comparative 35mm focal length is 21mm) is of unsurpassed quality. Quality that would be unattainable with the typical retrofocus design required for single reflex cameras (to clear the mirror). Note the picture on pages 2 and 3 which was taken with this lens. The paver blocks background was chosen to demonstrate the elimination of distortion, so customary with many wide angle lenses*

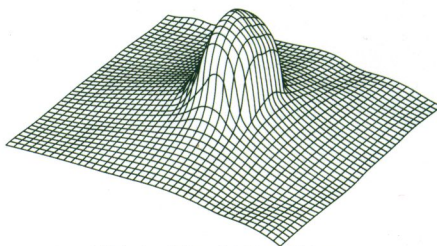


# The Sophisticated Mamiya 7 View/Rangefinder System with AE Metering

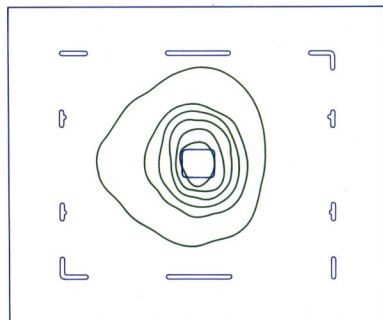
## Automatic Mode

The bright Mamiya 7 viewfinder incorporates a precision SPD (Silicon Photo Diode) aperture priority exposure meter system which automatically interfaces with the electronic lens shutters through gold plated contacts.

The diagram on the top right shows how the SPD meters the light in a centerweighted pattern to optimize exposure for the 80mm F/4 standard lens. When a wide angle lens is mounted the system employs a spot metering pattern. With the telephoto lens the pattern also considers the surrounding lighting conditions (lower diagram).



Metering Pattern for 80mm F4 Lens



The AE system is thus able to provide excellent exposures for virtually any lighting situation, even with high contrast subjects. An AE lock is provided to give the photographer final exposure control.

## Manual Mode

All shutter speeds can also be set manually on the camera's shutter speed dial. In this mode the exposure meter can still be utilized by observing the LED readouts along the bottom edge of the view finder.

## Exposure Compensation Lever

Exposure compensation from +2 to -2 EV give additional manual control to adjust for filters or to obtain certain desired effects.



Camera shown actual size



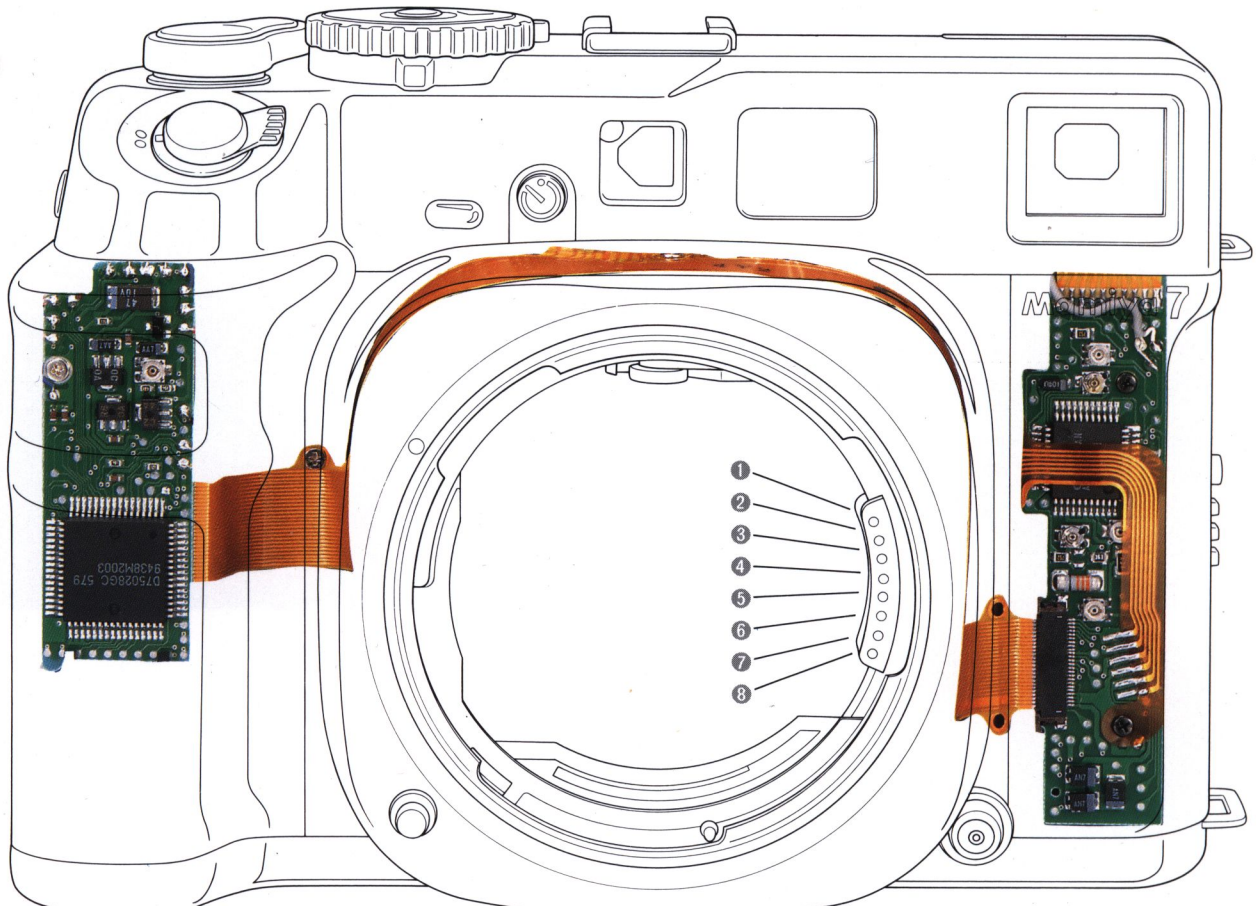
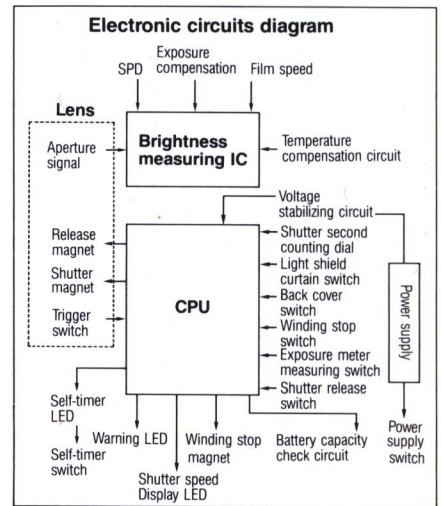


**Bright, Crisp Range/Viewfinder**  
As lenses are changed, corresponding frame lines are automatically indexed in the viewfinder. A clear, precise rangefinder makes focusing easy and fast, even in poor light.

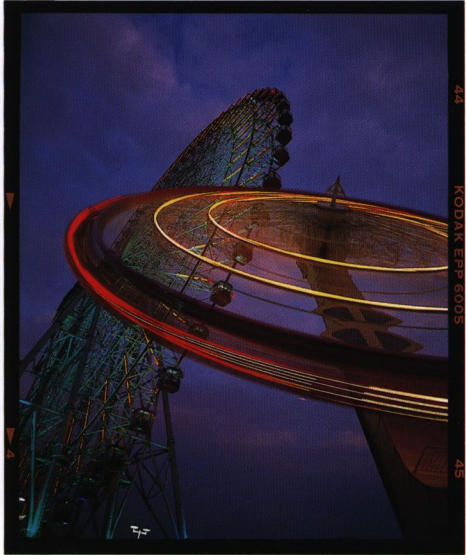
**LED Controls**

Along the bottom edge of the viewfinder LEDs display shutter speeds, over or underexposure situations, battery condition and malfunctions.

Viewfinder Display for 80mm Lens. Bright field of view frame with panoramic markings. Bright RF area in center. Bottom shows red warning light on left, shutter speeds in center and over-exposure signal on right.

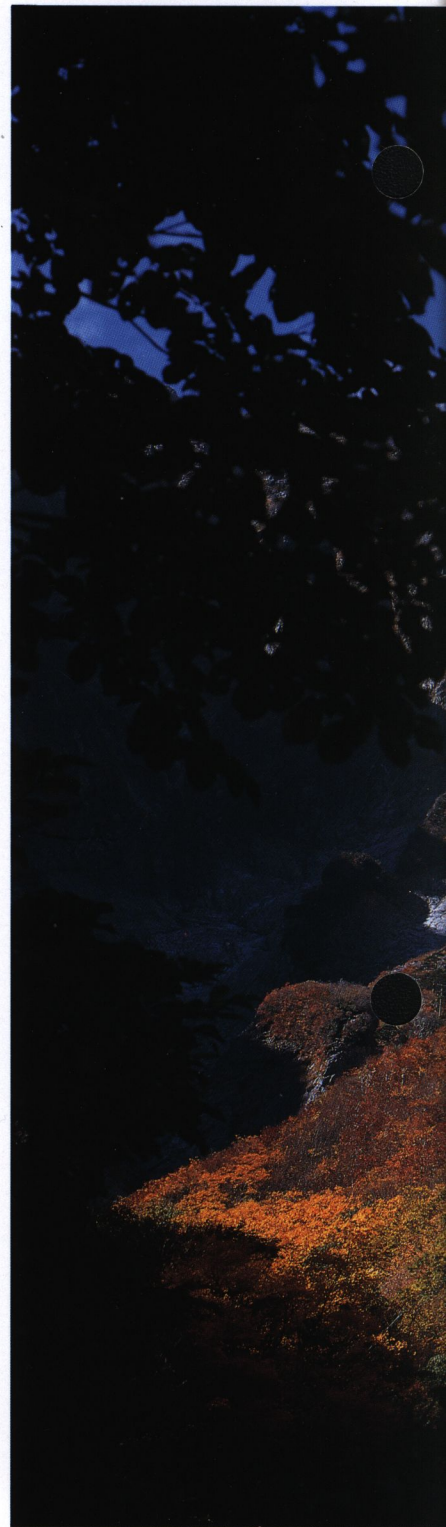


- ① : Reference Voltage For Aperture
- ② : Aperture Control Signal
- ③ : Shutter Trigger Switch
- ④ : Ground
- ⑤ : Minus Terminal For X Synchro Contact
- ⑥ : Shutter Magnet (Open)
- ⑦ : Shutter Magnet (Closed)
- ⑧ : Plus Signal For X Synchro Contact



### **The 65mm F/4 Wide Angle Lens for the Mamiya 7**

*This lens features a true wide angle lens design with distortion-free performance that produces results virtually indistinguishable from standard focal length lenses, yet allows a unique perspective and spatial relationship of a wide angle view.*



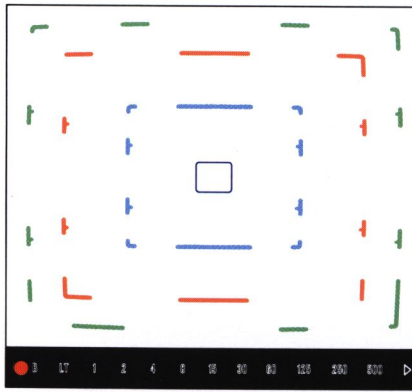


# The Advantages of the Mamiya 7 Rangefinder Camera

## Smaller, lighter, faster, quieter but the same ideal 6×7 format

### Why an RF Camera?

No camera can do everything best and the advantage of groundglass focusing of an SLR requires a mirror box which adds bulk and weight and a mirror which causes noise and image blackout. Rangefinder design permits a compact, sleek and lighter body, fast and quiet operation and uninterrupted viewing. Its much shorter flange focal distance establishes ideal parameters for lens design, permitting super quality optics such as our 43mm ultra-wide angle lens.



For illustrative purposes only, this diagram shows the frame lines of the various lenses in color: 65mm – green. 80mm – orange. 150mm – blue. The viewfinder shows only one automatically indexed frame line at a time, in white.

### Bright Split-Image Rangefinder

The bright, crisp Mamiya 7 rangefinder permits fast and easy focusing, in poor light and, because of its 60mm base, is very precise.

### Automatic Frame Indexing Parallax Correction

The bright frame displayed in the viewfinder changes automatical to show the field of view of the 65, 80 and 150mm lenses. Parallax is automatically adjusted as each lens is focused. The 43mm ultra-wide lens is supplied with a special finder but is also rangefinder coupled.



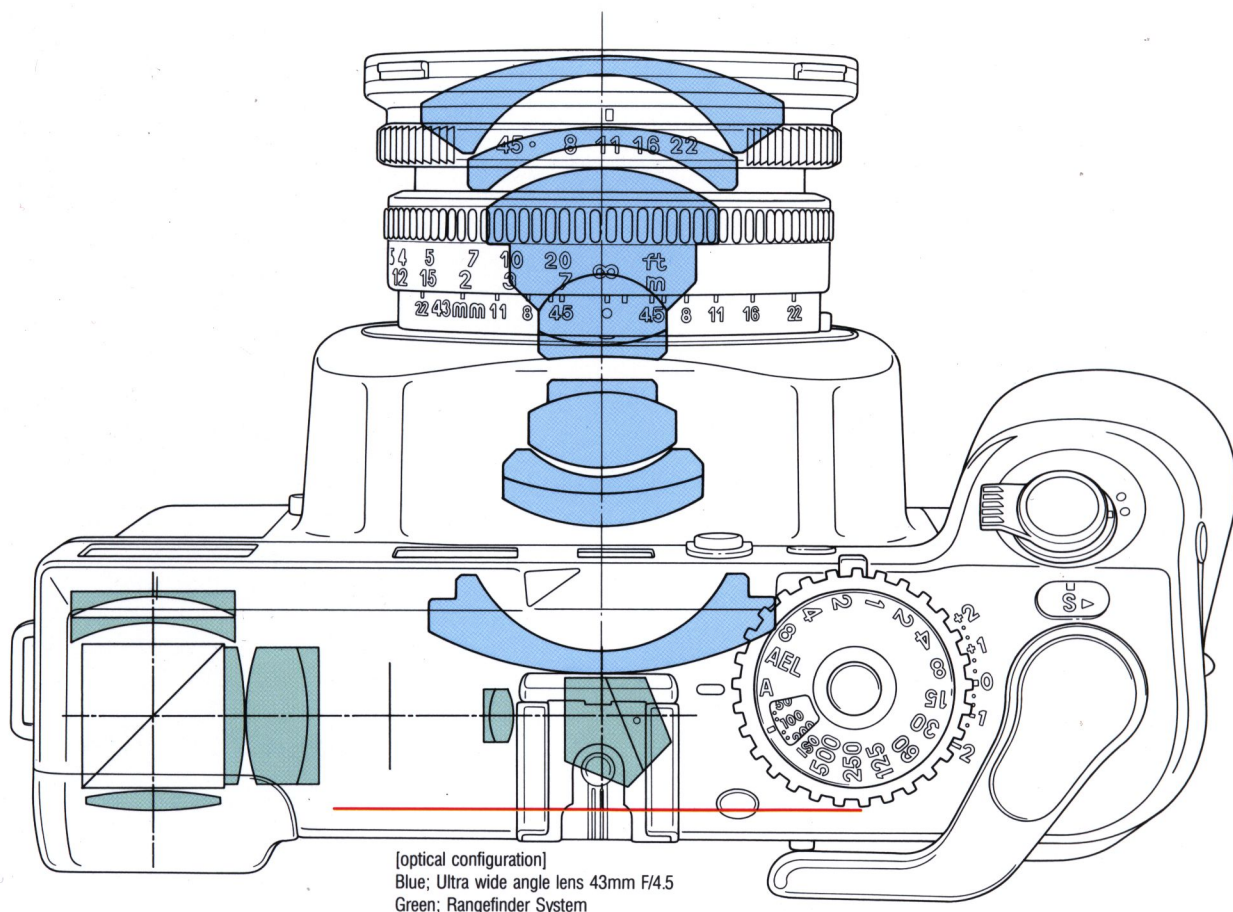


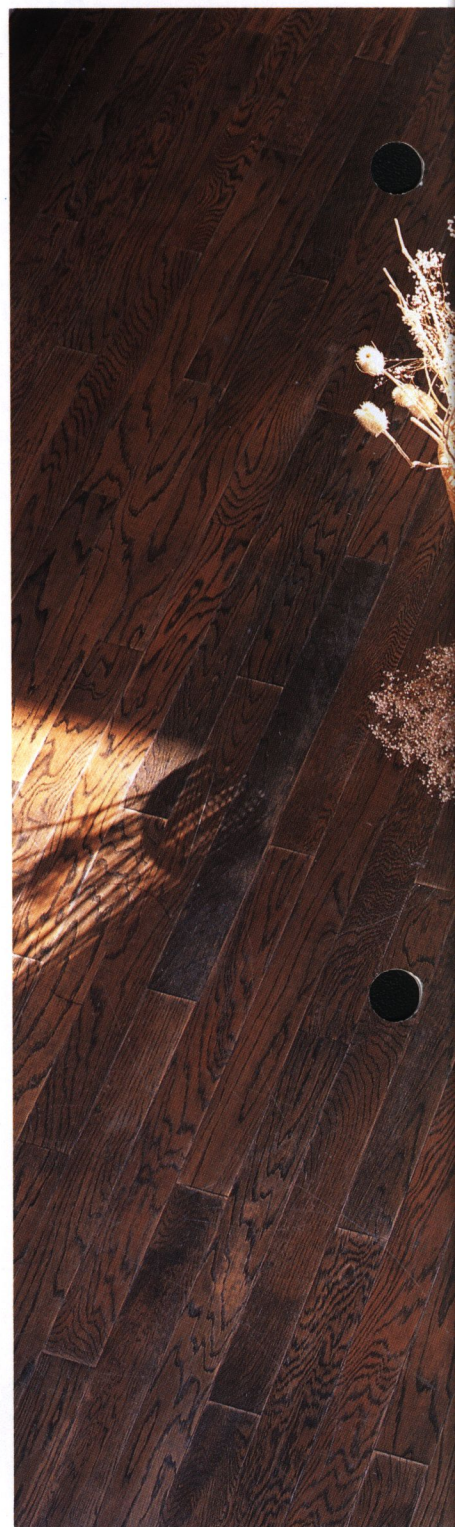
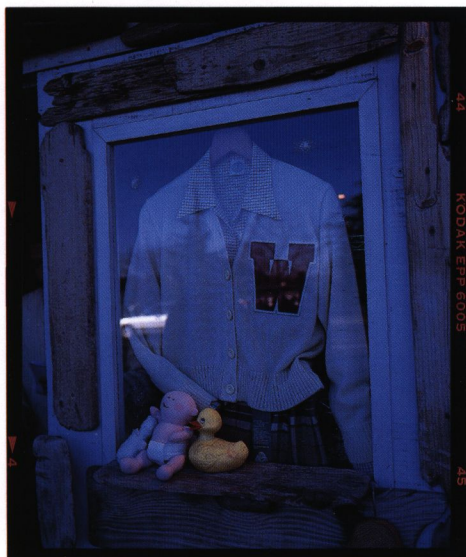
### Zero Delay Shutter Action Whisper-quiet Operation

The precision electronic leaf shutters of the Mamiya 7 lenses, activated by its smooth electronic shutter release system, function instantly without any delay (there is no mirror movement), and what is equally important in many cases, in whisper-quiet fashion.

### X Synchronized at All Speeds

The Mamiya 7 electronic leaf shutters are flash synchronized at all speeds. Both a hot shoe and synch socket are provided for connecting to flash units.





### **The 80mm F/4 Standard Lens for the Mamiya 7**

*Mamiya has purposely designed the standard lens for the Mamiya 7 with a slightly wide angle focal length (normal for 6 x 7 is 90mm) in response to the wishes of many important pros. A six element symmetrical lens, it produces outstanding images.*



# Mamiya, Master of the Medium, Leads Again

Mamiya built its first medium format rangefinder camera more than 50 years ago. It was a folding 6 × 6 with many exclusive features. It pioneered the first 6 × 7 SLR system camera, the RB67, with revolving back and bellows focusing, more than 25 years ago. It was followed by the Mamiya RZ67, with electronic controls, in 1982. Both cameras became the “workhorses” of the top pros and made 6 × 7cm the “ideal format” all over the world and Mamiya the “Master of the Medium” and the “Medium of the Masters”.

The Mamiya 7 Rangefinder camera, with its sleek and compact form, its light weight of only 1210 grams (36 ozs), with the 80mm F/4 lens attached, its ergonomic design that fits the hand like a glove and its modern gun metal finish, will further enhance the popularity of the 6 × 7 format.

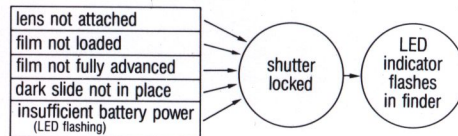
## Form Follows Function

The integral Mamiya 7 grip makes it easy to handhold the camera and all its operating controls—the electronic shutter release button, the shutter speed dial, the single stroke film advance lever—are conveniently placed to allow quick shooting without removing the camera from the eye.

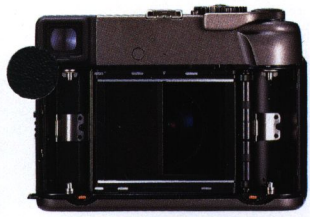


## Safety Controls to Prevent Errors

The lens cannot be removed unless the “dark slide” curtain is in place. The shutter cannot be released unless the curtain is open. The shutter can also not be released if there is no film in the camera (to override, open the back cover) or if the film is not completely transported. Weak battery power also blocks the release and is indicated by a flashing LED in the viewfinder.

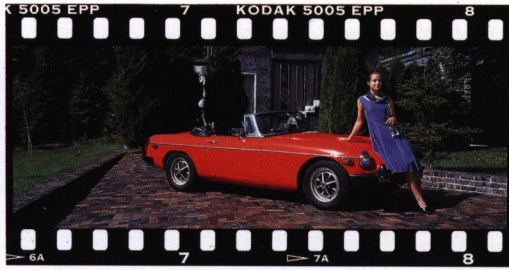






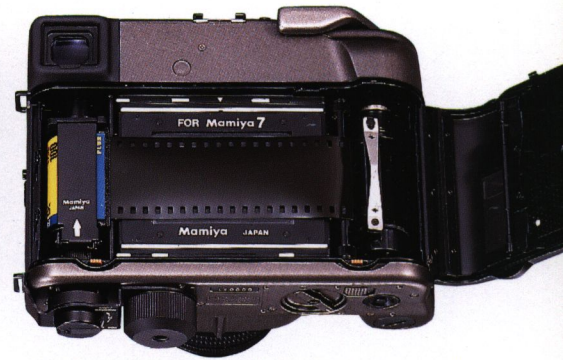
### "Dark Slide" Curtain for Changing Lenses

The built-in curtain, activated by a control on the bottom of the camera, permits lens change without fogging film. It locks if the lens is not securely attached to body.



### 35mm Panoramic Adapter Kit

The Mamiya 7 is designed to take 35mm film cassettes when the optional panoramic kit inserted. It yields spectacular  $24 \times 65\text{mm}$  images, an aspect ratio of 1 : 2.7



\*The optional 35mm panoramic kit consists of a panoramic film mask, a cassette holder, film take-up spool and rewind crank set. It is easy to attach and remove.





**The 150mm F/4.5  
Telephoto Lens for the Mamiya 7**

*This tele lens consists of six lens elements in five groups and utilizes low and ultra-low dispersion glasses to yield apochromatic performance of spectacular brilliance and sharpness.*

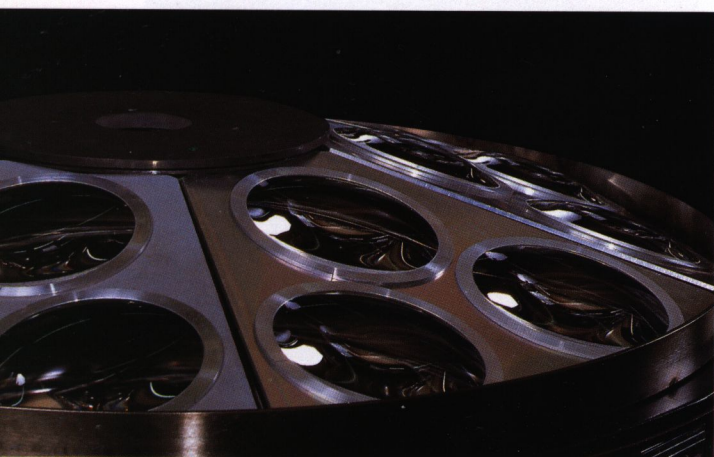


# Rangefinder Camera Design Gives the Optical Engineer More Creative Freedom

A significant advantage of rangefinder camera design for the optical engineer is the elimination of the mirror box and the resulting shorter flange focal distance which permits placing the rear lens element close to the film plane. Various other restraints on lens design are also removed, providing far more versatility in coming up with a lens composition that approaches ideal optical theory. For just one example, lens groups can be positioned in near perfect opposition, doing away with almost all problems of spherical or chromatic aberration.

The four interchangeable lenses provided for the Mamiya 7 not only enjoy the benefits of superior design, they also yield the highest quality of pictorial impact thanks to cutting-edge optical technologies, manufacturing technologies of unmatched precision and the world's most rigorous, exacting quality tests. The ultra-wide 43mm lens is the first of its kind for medium-format rangefinder photography. It offers superb contrast and is unrivaled in its near total freedom from optical distortion.

Mamiya optical systems enjoy an enviable reputation among professional and serious amateur photographers the world over. Their secret is comprehensive design and production of the entire optical system, from the camera-lens mount to the individual elements, from glass selection to polishing, from multi-coating to final assembly. At every stage of production, Mamiya follows a single guiding principle: The lens is the life force of the image.



**43mm F/4.5 Ultra-Wide with Special finder**



**65mm F/4 Wide Angle**



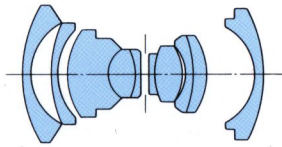
**80mm F/4 Standard**



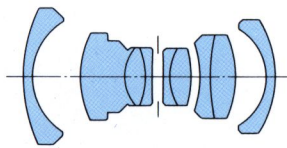
**150mm F/4.5 Telephoto**

## Lens Specifications

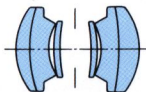
Lens:	43mmF/4.5	65mmF/4	80mmF/4	150mmF/4.5
Lens Design:	6 groups/ 10 elements	5/8	4/6	5/6
Angle of view:	92°	69°	58°	34°
Minimum aperture:	22	22	22	32
35mm equivalent:	21mm	32mm	39mm	71mm
Minimum focusing distance:	1m	1m	1m	1.8m
Magnification ratio at minimum distance:	0.049X	0.078X	0.097X	0.096X
Area covered at minimum distance:	1145 × 1421mm	719 × 892mm	580 × 719mm	581 × 721mm
Filter diameter:	67mm	58mm	58mm	67mm
Lens hood (supplied with lens):	bayonet	bayonet	bayonet	bayonet
Dimensions: (length × diameter)	42 × 72mm	65 × 67mm	56 × 67mm	96 × 70mm
Weight:	390g	380g	290g	520g



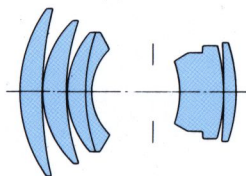
This lens offers the same angle of coverage and perspective as a 21mm lens for conventional 35mm camera systems. But despite this ultra-wide coverage, the compact lens design yields a weight of just 400 grams, and a front filter size of 67mm. Distortion, so often the bane of ultra-wide optics, is minimized to a remarkable degree—in fact, even at the corners of the frame, maximum distortion is within 0.04%, while the optical center has effectively no distortion at all. Chromatic aberration has also been reduced to unnoticeable levels; maximum fidelity is achieved at the f/8 and f/11 apertures, but in practical terms the entire range of diaphragm settings provides high quality reproduction. Even at close-focusing distances, this optic outperforms the retrofocus designs of single-lens reflex systems.



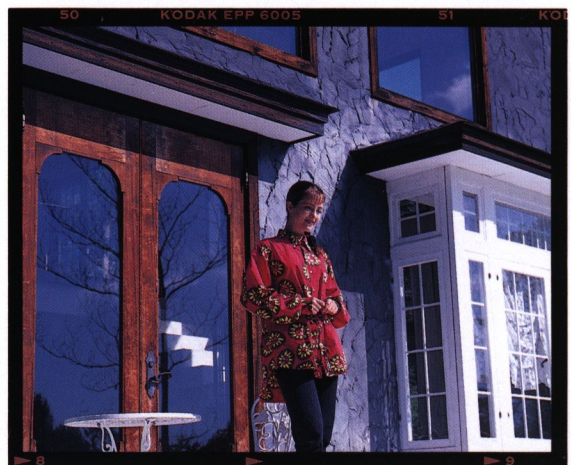
Exceptional versatility suited to virtually any photographic demand, this wide angle is compact and light at just 380 grams, with a filter size of 58mm. Corner distortion is a negligible 0.08%, and image contrast is extremely high even with the diaphragm wide open. At smaller apertures contrast reached remarkable levels, maintaining image consistency over the entire frame. Distortion is minimal even at extreme close-up, yielding image integrity that holds up for a remarkable range on either side of the plane of focus for a high-resolution effect. This lens, equivalent to a focal length of 32mm for 35mm systems, provides outstanding reproduction under either natural or artificial lighting.



Designed for exceptional compactness and light weight (just 290 grams), this lens shatters the conventions of standard optics for the medium format. At maximum f/4 aperture, the image is extremely bright yet with virtually no halo. And, through the full aperture range, the optics retain consistent sharpness and image contrast. Slightly off the plane of focus, the image circle offers a softer center but still renders detail of extraordinary resolution. Virtually all optical and chromatic aberration is eliminated, making this lens a superior instrument for any photographic demand.



Employing an ultra-low dispersion glass to eliminate the varied aberrations associated with telephoto lens design, this optic eliminates all loss of image contrast even at wide-open aperture settings. Color fidelity is unmatched and astigmatism is effectively eliminated to assure crisp, bright images of very high resolution for all types of photo use. Particular attention has gone to preventing coma aberration in order to maintain image integrity in all situations.



## Specifications:

<b>Type:</b>	6 × 7 format rangefinder with interchangeable lenses
<b>Image Size:</b>	6 × 7cm, medium format (dimensions of actual image = 56 × 69.5mm) 35mm panorama (dimensions of actual image = 24 × 65mm)
<b>Films:</b>	120 (10 exposures) 220 (20 exposures) 135 (16 with 36-exposure film, 10 with 24-exposure film)(when using 135 Panorama Kit)
<b>Lenses:</b>	Ultra-wide Angle 43mm F/4.5 with Special viewfinder, featuring Spirit Level and Diopter Adjustment Wide Angle 65mm F/4 Standard 80mm F/4 Telephoto 150mm F/4.5
<b>Focus:</b>	Helicoid-type
<b>Rangefinder:</b>	Split-image, 60mm baseline (effective baseline = 34.2mm)
<b>Film advance:</b>	Single-action lever, 185° stroke
<b>Shutter:</b>	#00 Lens shutter (electronic control) B, 4 sec. ~ 1/500 sec., electromagnetic release, X synchronization at all speeds hot shoe and synch-socket, 10 sec. electronic self-timer (automatic reset)

**Exposure control:** Aperture-priority AE  
SPD sensor incorporated in finder  
Metering range EV3 (f/4, 2 sec.) ~ EV18 (f/22, 1/500 sec.) with f/4 80mm at ISO100  
Film settings ISO 25 ~ 1600  
Exposure correction ± 2EV (1/3-EV steps)

**Finder:** Coupled rangefinder for all lenses with auto indexed bright-line frames (65mm, 80mm, 150mm), Auto parallax compensation, magnification 0.57X, 83% image coverage at infinity, LED readout shutter speed indicator. Separate ultra-wide optical finder supplied with 43mm lens.  
Built-in Dark slide Curtain Enables Instant Lens Changes

**Safety Interlocks:** 1. Double Exposure Prevention  
2. Shutter Release is blocked when built-in dark slide curtain is closed.

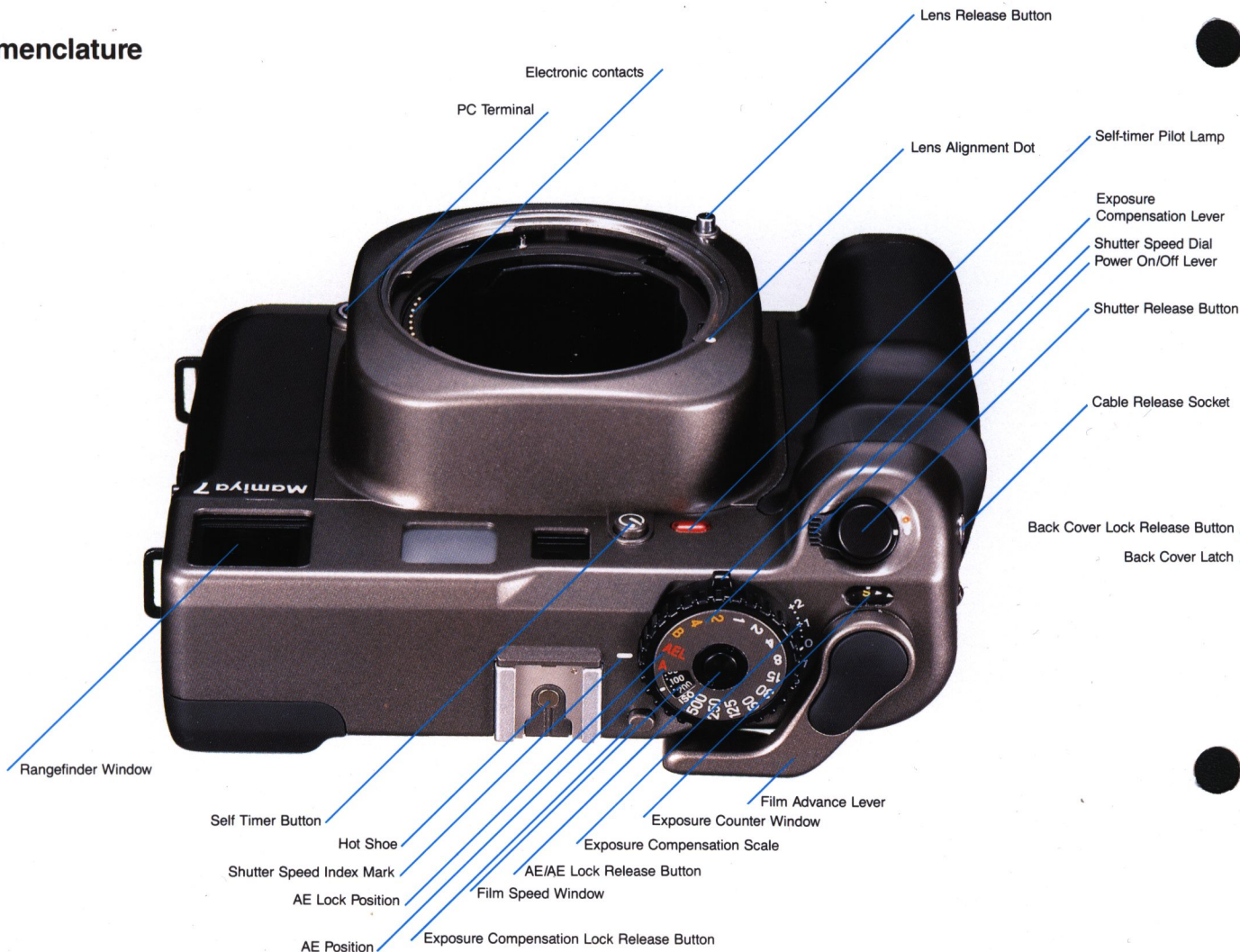
**Battery:** One 6V (4SR44, 4LR44 or 2CR1/3 Rithium) Battery

**Dimensions:** Body - 159 × 112 × 69mm  
w/80mm - 159 × 112 × 123mm

**Weight:** Body - 920g  
w/80mm - 1,210g

\*Specifications and features subject to change without notice.

## Nomenclature



# System Chart

## LENS HOOD

## LENSES

43mm f/4.5

Viewfinder FV701

Eyepiece Diopter Lenses N

- |                                     |                             |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> +3 diopter | <input type="checkbox"/> -1 |
| <input type="checkbox"/> +2         | <input type="checkbox"/> -2 |
| <input type="checkbox"/> +1         | <input type="checkbox"/> -3 |

BODY

135 Panoramic Adapter Kit AD701

Cassette Holder

Panoramic Mask

Take-up Spool

Rewind Crank Unit

Tripod Adapter N

Neck strap

Soft Lens Case Type A

External Battery Case PE702

Paper Slide Mount 24 x 65

Back Cover

120 Film Mark  
Film Setting  
Index Dots

220/135 Film Mark

Pressure Plate

Spool Holder  
Spool Release Lever

Memo Clip

Viewfinder Eyepiece

Spool Holder

Spool Release Lever

Film Starting Indicator

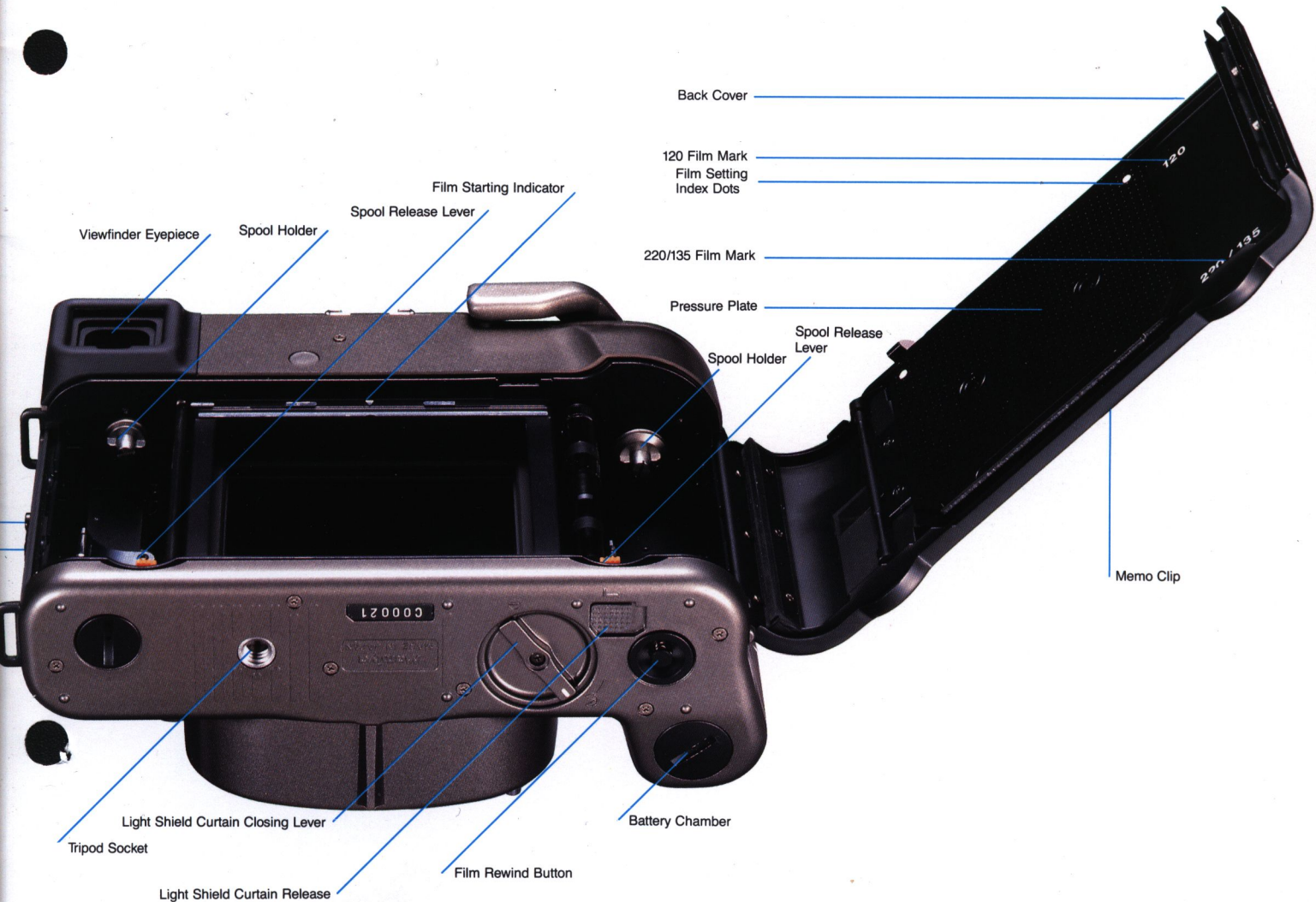
Light Shield Curtain Closing Lever

Tripod Socket

Light Shield Curtain Release

Battery Chamber

Film Rewind Button



# Mamiya 7



80mmf/4



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1ED 2212