

For Mamiya and Bronica medium format cameras and accessories go to : [www.ianbfoto.com](http://www.ianbfoto.com)

# Mamiya<sup>®</sup>

## M645 / SUPER



## NEW GENERATION SUPER SYSTEM CAMERA MAMIYA M645 SUPER



*Since its introduction as the world's first 6×4.5 single lens reflex, the Mamiya M645 has set the standards for value and simplicity in 6×4.5 cameras. This camera has been re-born as the new M645 Super to meet the changing needs of the times.*

*This unique new camera system incorporates the latest electronic and mechanical innovations. A broad line of lenses increases system versatility and delivers large, high density negatives nearly three times that of 35mm. With the M645 Super you can create forceful and fresh images throughout the world of photography.*

## **INTERCHANGEABLE FILM BACK SYSTEM**

Select whatever type of film suits your needs, with a choice of 120, 220, 135 and Polaroid interchangeable backs. Now the Mamiya M645 Super gives you such wide-ranging versatility.

## **INTERCHANGEABLE FINDER SYSTEM**

Change quickly and easily between waist-level and eye-level finders to suit your preferred shooting style. And, take advantage of the most versatile AE Prism ever developed to make exposure control easier and more precise than ever before.

## **INTERCHANGEABLE CAMERA GRIP SYSTEM**

A secure and stable grip on the camera is vital to obtain high quality results when shooting without a tripod or alternative support system. The Mamiya grips come in three hand sizes and provide you with a cordless shutter release.

The grip-style power drive integrates with the camera body to become a smoothly-integrated single unit.

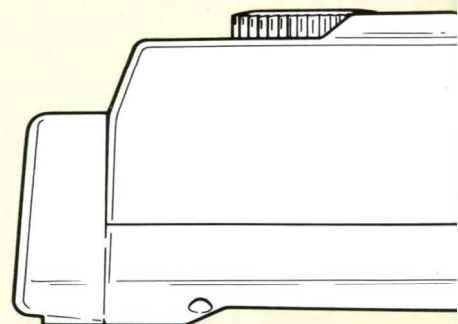
## **INTERCHANGEABLE LENS SYSTEM**

Only the Mamiya M645 Super can offer you such a versatile and extensive system of interchangeable lenses. Ranging from super-telephoto to extreme wide-angle, and including various special purpose optics, Mamiya-Sekor lenses are designed and built to the most exacting standard providing the highest levels of optical performance.

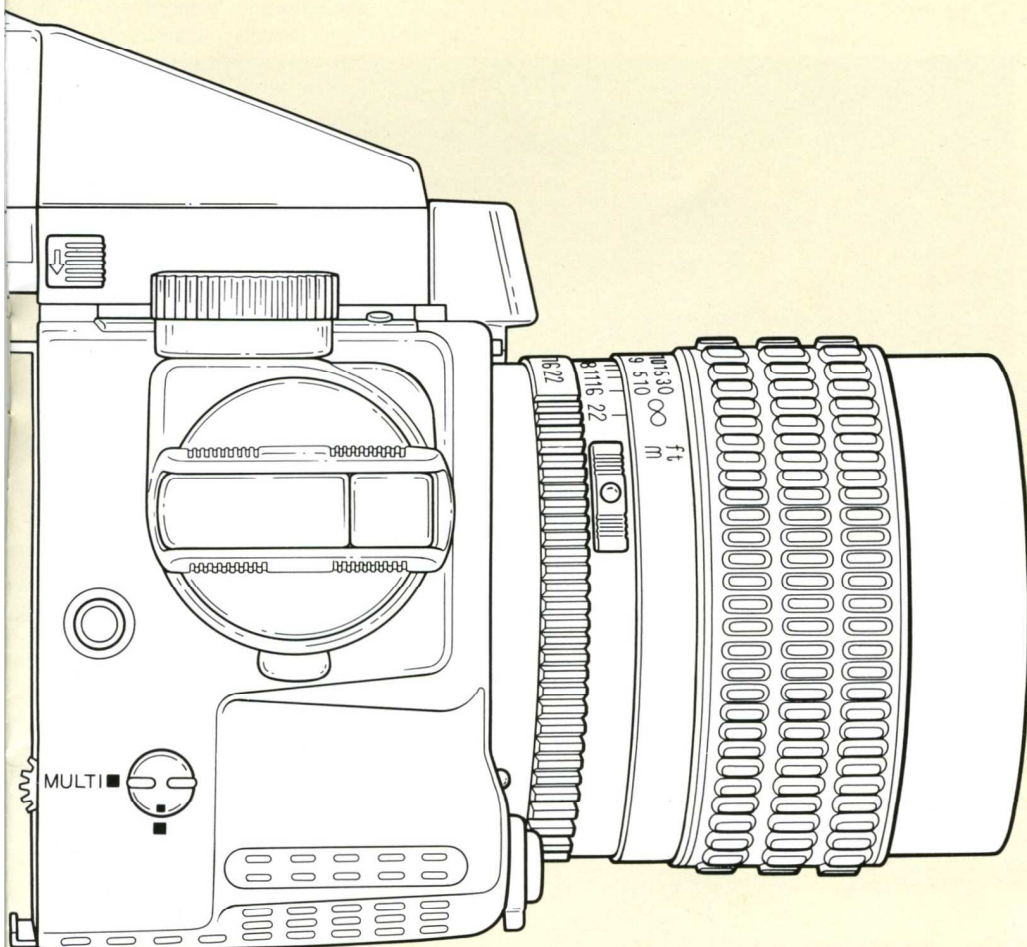


Versatility in film and format....

## INTERCHANGEABLE FILM BACK SYSTEM



Total versatility in film selection is provided by the system of interchangeable film backs that makes the Mamiya M645 Super such an asset to the creative photographer. Film backs are available for 120, 220, 135 roll film and Polaroid film packs. Changing formats can be accomplished in a matter of seconds. Color or black & white, negative or slide film—the photographer is free to select just the right film for each individual shot. Film speed (ASA/ISO) dials are built into each back, linking directly to the camera's sophisticated electronics, for exposure accuracy. And the locking dark slide feature makes certain the back can't be accidentally removed unless the slide is securely in position to protect the film.



**120 Roll Film Holder N**  
**220 Roll Film Holder N**

The 6×4.5 cm film format which has been developed through Mamiya's long-time experience was specifically designed to maximize the potential of 120/220 roll film. The Roll Film Holders can be easily attached by a single action and they can be removed safely by a two step action. In addition, easy-to-grip rubber is used where required for safe and sure operation. The versatile 6×4.5 cm format provides 15 shots with 120 or 30 shots with 220 roll film for extended location shooting, sports, etc. Weight : 355g



**135 Roll Film Holder N**

This special back allows the use of standard 135 roll film with the Mamiya M645 Super. The outstanding optical quality and versatility of the Mamiya-Sekor lens system can thus be used for 35 mm format photos. To assure precise framing when using the 135 Roll Film Holder N, a special viewfinder mask is included.

Weight : 410g



**Polaroid Land Pack Film Holder N**

This special film back accepts 100 and 600 series Polaroid film packs. The availability of the Polaroid Land Pack Film Holder for M645 Super reflects its professional capabilities. Use of Polaroid film allows the photographer to complete an immediate check on lighting and composition, while the finished Polaroid prints can be highly useful for instructional or design purposes. Weight : 325g

The tripod adapter N-2 is provided for fixing M645 Super camera with Pola-Pack holder N on a tripod.

Versatility in viewing...

## INTERCHANGEABLE FINDER SYSTEM

Different types of photography require different approaches to viewing the subject. That's why Mamiya provides a choice of three different primary finders for use with the M645 Super. The Waist Level Finder N is designed in the traditional style, and is particularly effective when photographing from low angles. Switching from horizontal to vertical formats is simple when you use the Prism Finder N, with its eye-level viewing. Finally, for on-camera exposure control, Mamiya offers the exceptional AE Prism Finder N, with its three-mode exposure system and convenient eye-level viewing. While any one of these finders would be an excellent choice, the availability of all three reflects the professionalism and dedication to versatility that marks the Mamiya M645 Super systems approach to photography.



### AE Prism Finder N

This finder offers aperture-priority Auto Exposure control, usable with all Mamiya-Sekor lenses and features an AE lock function for tricky exposure. However, the most exciting feature of the AE Prism Finder N is its three way mode metering. The exposure system can be set for either Spot or Average metering, depending on the contrast of your subject, or the photographer can leave the selection of Spot/Average metering up to the finder. It will then switch between the two metering patterns according to the lighting of the overall scene. The optimum metering pattern will be selected, and the corresponding optimum exposure made effected according to the brightness of the primary subject.

#### Specification

**Viewfinder:** Unreversed, laterally correct image provided by roof prism design with image magnification of 0.79x (80mm f/2.8 standard lens at infinity).

**AE Metering System:** Average (A), Spot (S), and Auto Shift (AUTO A-S), for three-way quartz-controlled aperture-priority AE operation.

**Shutter Speed Range:** 4—1/1000 sec. in both automatic and manual modes.

**Metering Range:** EV 1—19 (f/2.8 at 4 sec. to f/22 at 1/1000 sec. with ASA/ISO 100 film and f/2.8 lens).

**Exposure Compensation:** ±3 steps with click stops at 1/3 stops intervals.

**Power Source:** Camera body battery

Weight : 320g



### Waist Level Finder N

This lightweight finder is particularly effective when using the M645 Super from low shooting angles. It offers a standard reversed viewfinder image, with a central magnifier for fine focusing assistance. The focusing hood shields the image from stray reflections, operating with a single touch. Handy sports framing is accomplished by an easily-attached viewing frame and sight.

Weight : 125g



### Prism Finder N

This compact, eye-level finder incorporates a dual prism to effect an unreversed, laterally correct image. This eye-level finder is ideal for action and general-purpose use, particularly when frequent shifts between vertical/horizontal formats are required. This finder provides a bright, clear image, and allows extremely fine focusing accuracy with any of the interchangeable focusing screens.

Weight : 300g

Versatility in optics....

## INTERCHANGEABLE LENS SYSTEM

Superior optical quality,  
an extraordinarily wide range of  
focal length and special purpose lenses  
highlight the interchangeable lens system  
available for the Mamiya M645 Super.

No other medium format SLR system  
can offer the versatility of  
this lens system—

from super-wide to super tele;  
three convenient zoom lenses;  
special application lenses that  
provide fisheye, macro,  
soft-focus and shift effects.

Each lens has been designed and  
produced to the highest  
optical standards.

Contrast, definition and resolution are  
exceptional; color balance is superb,  
and consistent throughout the full range.

A sophisticated multi-coating  
eliminates flare and ghost images.

Optical performance and  
versatile application—  
the design concept

behind the 17 different lenses  
bearing the Mamiya-Sekor name.



Fisheye 24mm f/4



55mm f/2.8 N



70mm f/2.8 Leaf Shutter (day light synchro)

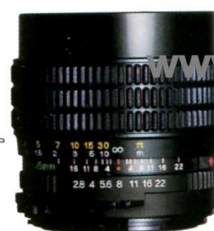
Fisheye 24mm f/4 ULD



35mm f/3.5N



45mm f/2.8N



Shift 50mm f/4





Shift 50mm f/4 (shift photographing)



Shift 50mm f/4 (normal photographing)



80mm f/2.8 N



Macro 80mm f/4 N

55mm f/2.8N



Leaf-Shutter 70mm f/2.8



80mm f/1.9N



80mm f/2.8N



Macro 80mm f/4N



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Lens	Fisheye 24mm f/4 ULD	35mm f/3.5N	45mm f/2.8N	Shift 50mm f/4	55mm f/2.8N	Leaf-Shutter 70mm f/2.8	80mm f/2.8
Optical construction	10 elements 8 groups	9 elements 7 groups	9 elements 7 groups	10 elements 8 groups	8 elements 6 groups	6 elements 4 groups	7 elements 6 groups
Angle of view	180°	90°	76°	70°	65°	53°	47°
Minimum aperture	22	22	22	32	22	22	22
Diaphragm	Automatic	Automatic	Automatic	Manual	Automatic	Automatic	Automatic
Minimum focusing distance	1ft. or 0.3m	1.5ft. or 0.45m	1.5ft. or 0.45m	1.5ft. or 0.45m	1.5ft. or 0.45m	2.75ft. or 0.8m	2.25ft. or 0.7m
Maximum magnification ratio	0.14	0.11	0.15	0.18	0.18	0.11	0.15
Area Covered	298 × 402mm	387 × 522mm	286 × 386mm	230 × 310mm	231 × 312mm	382 × 515mm	284 × 384mm
Equivalent focal length for 35mm	15mm	22mm	28mm	31mm	34mm	43mm	50mm
Filter size	Built-in	77mm	67mm	77mm	58mm	58mm	67mm
Lens hood	None required	None required	Slip-on	None required	Screw-in	Screw-in	Screw-in
Dimensions (L × W)	82 × 100mm	61.5 × 80mm	70.5 × 75mm	105.5 × 80mm	59.4 × 70mm	50 × 76mm	59 × 75mm
Weight	27.7oz. (785g)	15.7oz. (445g)	16.8oz. (475g)	25.9oz. (735g)	10.7oz. (305g)	13.9oz. (395g)	14.8oz. (415g)



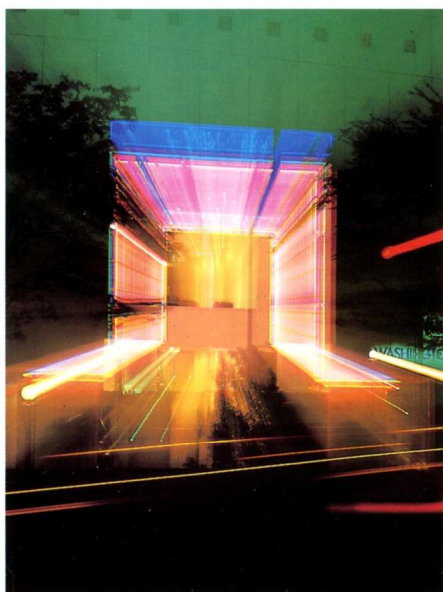
145mm f/4 SF (Soft Focus)



1.9N	80mm f/2.8N	Macro 80mm f/4N	110mm f/2.8N	Soft-focus 145mm f/4	150mm f/3.5N	210mm f/4	300mm f/5.6N ULD	500mm f/5.6	Zoom 55-110mm f/4.5N	Zoom 105-210mm f/4.5 ULD
its	6 elements	6 elements	5 elements	7 elements	5 elements	5 elements	6 elements	6 elements	11 elements	13 elements
s	5 groups	4 groups	5 groups	5 groups	5 groups	4 groups	5 groups	5 groups	10 groups	11 groups
	47°	47°	35°	27°	26°	19°	13°	8°	65° ~ 35°	36° ~ 19°
	22	22	22	32	32	32	32	45	32	32
ic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
0.7m	2.25ft. or 0.7m	1.2ft. or 0.3m	4ft. or 1.2m	5ft. or 1.5m	5ft. or 1.5m	8ft. or 2.5m	15ft. or 4m	30ft. or 9m	5ft. or 1.5m	6ft. or 1.8m
	0.15	0.50	0.11	0.13	0.12	0.10	0.09	0.07	0.04 ~ 0.08	0.07 ~ 0.14
mm	281 × 380mm	83 × 112mm	374 × 505mm	326 × 440mm	344 × 465mm	406 × 547mm	445 × 600mm	622 × 839mm	55 → 986 × 1331mm 110 → 520 × 702mm	105 → 558 × 754mm 210 → 294 × 396mm
	50mm	50mm	68mm	90mm	93mm	130mm	186mm	310mm	34 ~ 68mm	65 ~ 130mm
	58mm	67mm	58mm	77mm	58mm	58mm	58mm	105mm	67mm	58mm
n	Screw-in	None required	Screw-in	Screw-in	Built-in	Built-in	Built-in	Built-in	Screw-in	Built-in
mm	43.5 × 70mm	75 × 79mm	60 × 70mm	115.5 × 81.5mm	80 × 70mm	137 × 70mm	164 × 70mm	358 × 114mm	104 × 77mm	158 × 74.5mm
20g)	7.7oz. (220g)	20.6oz. (585g)	13.8oz. (390g)	31.7oz. (900g)	14.8oz. (420g)	25.2oz. (715g)	25.0oz. (710g)	80.4oz. (2280g)	28.2oz. (800g)	30.8oz. (875g)



300mm f/5.6N



105—210mm f/4.5 ULD Zoom  
(Zooming in the course of exposure)

## 2 × Tele-Converter N

Additional versatility for the M645 user is provided by this 2×Tele-Converter N. Designed to match perfectly with the optical characteristics of the M645 lenses such as the 145mm, 150mm, 210mm, 300mm, 500mm and 75–150mm (Zoom) lenses, the 2×Tele-Converter N doubles their effective focal length.



500mm f/5.6



105-210mm f/4.5 ULD



300mm f/5.6N ULD



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Versatility in handling....

## INTERCHANGEABLE CAMERA GRIP SYSTEM



### Left Hand Grip (with Connector N)

The Left Hand Grip is available in three different sizes, to match the user's hand size. This handy grip provides a molded finish for secure hand-holding, with a padded wrist support to reduce fatigue, and also incorporates a hot-shoe for simplified operation. The built-in trigger release with lock mechanism links cordlessly through Connector N. Provision is made, on Connector N, for use of a standard cable release for convenient operation.

\*The hand grip can not be used when the Polaroid Land Pack Film Holder N is attached to the camera body.



### Power Drive N

The Power Drive N provides automated film advance and shutter cocking at a rate of one frame every 0.8 sec. An electro-magnetic shutter release built into the grip can be set for single-frame or continuous shooting as well as for remote-control operation. It allows you to continue shooting without removing your eye from the subject. A handy lock position protects against accidental shutter release. This Power Drive N also features a first frame film feed mechanism, winding stop and battery check.

### Specification

**Power Source:** Six AA size Alkaline or Manganese Primary batteries or Ni-Cd rechargeable batteries.  
**Maximum Rolls Transported:** Approx. 80 rolls of 120 roll film with alkaline batteries, Approx. 70 rolls of 120 roll film per charge with Ni-Cd batteries (according to Mamiya Camera Company laboratory tests made at normal room temperature.).

Weight : 260g (without batteries)



*Versatility in expression....*

## ORIGINAL ACCESSORY SYSTEM



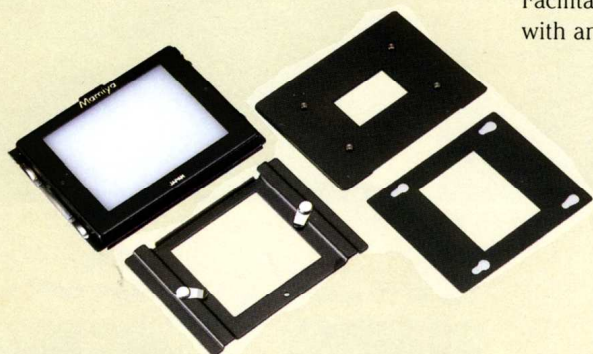
### **Auto Bellows N**

Naturally, the larger negative size of the Mamiya M645 Super opens up excellent opportunities for making very high-quality photographs for specialized use. Macro photography and copy work are easier and more practical with these fine accessories, which

are designed for maximum system flexibility. For instance, by combining the Bellows Lens Hood any slide or filmstrip from 35mm to 6×7 cm can be copied.

### **Balloon Bellows**

Facilitates shifts and tilts which are difficult with an ordinary bellows at short extensions.

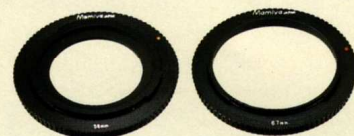


### **Slide Copy Attachment**

Slides from 35mm to 6×7 cm can be readily duplicated by the use of the Auto Bellows, Bellows Lens Hood and Slide Copy Attachment in combination.

### **Connecting Ring CN-58 and CN-67**

CN rings, sized to fit 58mm and 67mm filter threads, are used to attach the Bellows Lens Hood when you reverse your lens for greater magnification, such as for 35mm slide copying, etc.



### **Reversing Rings RS-58 and RS-67**

Necessary for reverse-mounting of lenses for macro-photography; sized to fit either 58mm or 67mm diameter filter threads.



### **Bellows Lens Hood**

The Bellows Lens Hood is freely adjustable for use with 55mm F2.8N, 70mm F2.8, 80mm F1.9N, 80mm F2.8N, 110mm F2.8N, 150mm F3.5N, 210mm F4N and 300mm F5.6N lens. By combining the Bellows Lens Hood and Slide Copy Attachment duplicates can be made.



### **Auto Extension Rings No 1, 2, 3-S**

Designed for use with 80mm f/1.9 and 80mm f/2.8 lenses; diaphragm automation and meter coupling are retained. Combining all three with either 80mm lens allows full 1:1 reproductions.



### **Auto Macro Spacer**

Used with the 80mm f/4 Macro lens, the Auto Macro Spacer allows close-up photography from one-half to life-size reproduction. Diaphragm automation and meter coupling widen its versatility.



### **Magnifier N**

Magnifies central portion of screen for quick, precise focusing. Built-in -5 to +5 diopter correction.



### **Angle Finder N**

Makes low-angle, close-up and copy work more comfortable. Unlike the waist level finder, it provides rightside-up image and features click stops and a built-in diopter unit (-4 to +4).



### **Focusing Handle**

Attaches to focusing ring for smooth and easy focusing on all lenses from 55mm to 300mm (except the 70mm f/2.8 Leaf Shutter lens) using 58mm filters.



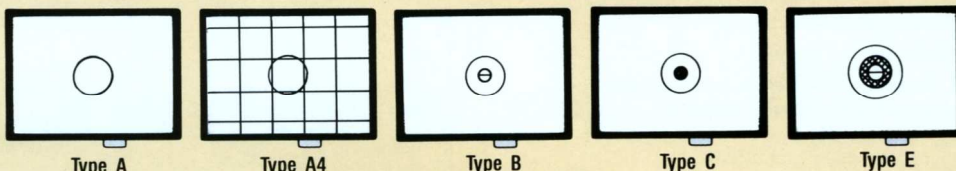
### **Quick-Shoe Model 2**

A two-part device (one on camera, one on tripod) which allows quick release of the camera from the tripod without fumbling.



### **Transmitter/Receiver MZ**

Operated by infrared light pulses, the Transmitter and Receiver MZ units provide for complete remote control of the M645 Super, at distances up to 60 meters when used with the Power Drive N. Features two-channel operation, for control of one or more units, and operates in either single-frame or continuous modes.



### **Focusing Screen N**

A total of five types of Focusing Screens are available to satisfy the photographer's preference, subject matter, and application.

#### **Type A: Matte**

All matte with Fresnel lens for general purpose photography.

#### **Type A4: Checker**

A matte screen with Fresnel lens and sectional grid markings, suitable for close-up, copy and architectural applications.

#### **Type B: Rangefinder Spot**

A matte screen with Fresnel lens and split-image center focusing aid, suitable for general photography when rapid, accurate focusing is desired. Focusing is also possible in surrounding matte area.

#### **Type C: Microprism**

A matte screen with Fresnel lens and microprism center focusing aid, suitable for general photography and other applications. Focusing is also possible in surrounding matte area.

#### **Type E: Rangefinder Spot/Microprism**

A matte screen with Fresnel lens and horizontal split-image center focusing aid surrounded by microprism collar. Suitable for general applications where horizontal/vertical elements can be accurately focused by the split-image, or the general area focused by the microprism. Focusing is also possible in surrounding matte area. (Standard equipment)

### **Compartment Case**

The Compartment Case holds several lenses and accessories, with an ample padded section for camera or without attached grip.



### **Aluminum Custom Case**

A rugged, attractive case ideal for carrying, storing, or shipping your Mamiya M645 Super system. Pre-cut foam keeps equipment in place and makes packing simple.

### **Tripod Adapter N-2**

The tripod adapter N-2 can be recommended to fix M645 Super camera with polaroid pack holder N on a tripod.

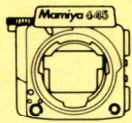

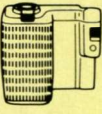




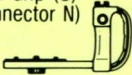



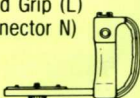








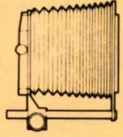
### **External Battery Case**

Extreme cold can cause battery failure; to protect the M645 Super from extremely low temperature failures, the battery can be removed and protected inside this case.

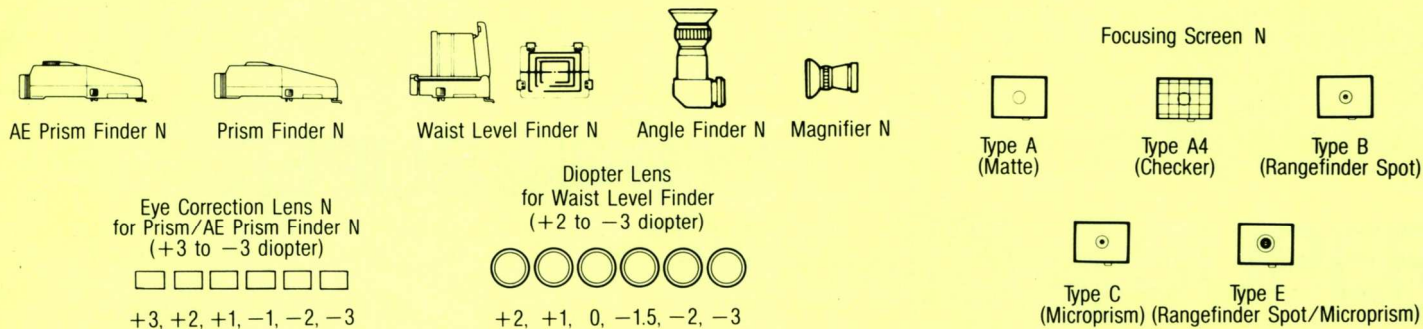
## SYSTEM CHART

### SPECIFICATION OF M645 SUPER

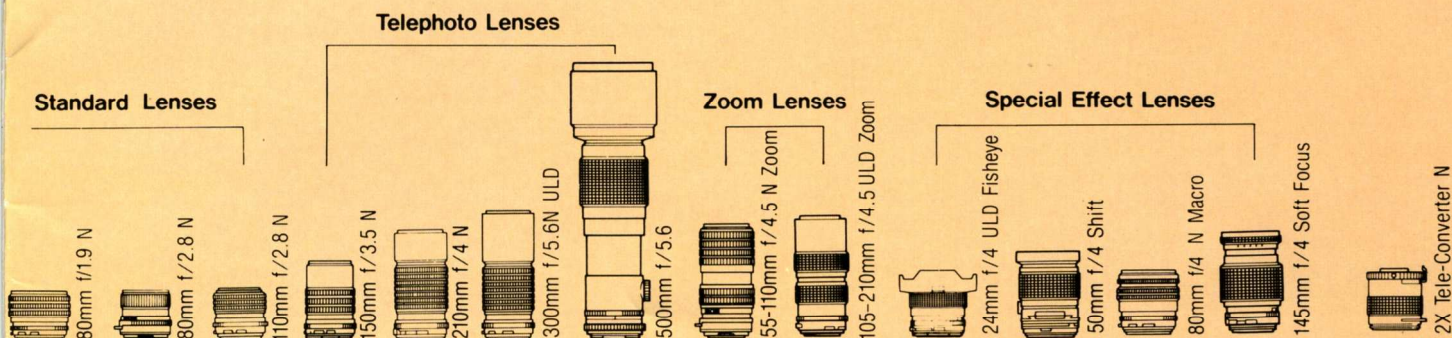
<b>CAMERA TYPE</b>	: 6×4.5 cm format, electronically controlled focal-plane shutter, Single Lens Reflex.
<b>ACTUAL FILM IMAGE SIZE</b>	: 56×41.5 mm.
<b>FILM TYPE</b>	: 120 roll film (15 exposures), 220 roll film (30 exposures) 6×4.5 cm format, Polaroid land pack film (100 & 600 Series), 135 roll film (36, 24, 12 exposures).
<b>STANDARD LENS</b>	: Mamiya-Sekor C 80mm f/1.9 N Mamiya-Sekor C 80mm f/2.8 N
<b>LENS MOUNT</b>	: Mamiya M645 Bayonet Mount.
<b>SHUTTER</b>	: Moving coil, electronically controlled horizontal focal-plane shutter.
<b>SHUTTER SPEED</b>	: B, 4—1/1000 sec. (quartz controlled) Mechanical shutter speed of 1/60 sec.
<b>SHUTTER RELEASE</b>	: Electro-magnetic release and Mechanical release (1/60 sec.) with shutter release lock provision.
<b>MIRROR</b>	: Instant return, with Mirror lock-up provision.
<b>INTERCHANGEABLE FINDER</b>	: Waist Level Finder N Prism Finder N AE Prism Finder N
<b>INTERCHANGEABLE FOCUSING SCREEN</b>	: Type A (Matte) Type A4 (Checker) Type B (Rangefinder Spot) Type C (Microprism) Type E (Rangefinder Spot/Microprism) Standard equipment
<b>FIELD OF VIEW</b>	: 94 % of the horizontal and vertical picture area visible.
<b>EXPOSURE COUNTER</b>	: Progressive type, automatic reset. Automatically changes with insertion of 120/220 Roll Film Insert. 135 Roll Film Holder counts up to 36.
<b>FILM ADVANCE</b>	: Film transport by a single turn of the Wind-up Crank N. Automatic film advance with the Power Drive N.
<b>INTERCHANGEABLE FILM HOLDER</b>	: 120 Roll Film Holder N 220 Roll Film Holder N 135 Roll Film Holder N Polaroid Land Pack Film Holder N
<b>BATTERY CHECK</b>	: Depressing the Battery Check Button illuminates red LED if battery condition is satisfactory.
<b>FILM SPEED RANGE</b>	: ASA/ISO 25-6400
<b>FLASH SYNCHRONIZATION</b>	: X (1/60 sec.)
<b>REMOTE CONTROL</b>	: Camera has remote control capability by using the Power Drive N in combination with the Transmitter/Receiver MZ.
<b>DIMENSION</b>	: 3.6"×3.4"×4.6" (91 mm×87.5 mm×116 mm) (with 120 Roll Film Holder N)
<b>Weight</b>	: 31.3 oz. (with 120 Roll Film Holder N, and without battery) ( 895 g)

Body	Winding-up Equipments
 <p>M645 Super Body</p>	 <p>Wind-up crank N-2</p>  <p>Power Drive N (with/Wrist Strap)</p>
<h3>Wide-angle Lenses</h3>  <p>35mm f/3.5 N</p>  <p>45mm f/2.8 N</p>  <p>55mm f/2.8 N</p>  <p>70mm f/2.8 (one-shutter function)</p>	
<h3>Grip and Tripod Adapters</h3> <p>Left Hand Grip (S) (with Connector N)</p>  <p>Quick-Shoe Model 2</p>  <p>Left Hand Grip (M) (with Connector N)</p>  <p>External Battery Case</p>  <p>Left Hand Grip (L) (with Connector N)</p>  <p>Tripod Adapter N-2 for Polaroid Land Pack Film Holder N</p> 	
<h3>Hood/Filters</h3> <p>Lens Hood</p>  <p>for 45mm f/2.8 N</p>  <p>for 55mm f/2.8 N</p>  <p>for 70mm f/2.8</p>  <p>for 80mm f/1.9 N</p>  <p>for 80mm f/2.8 N and 110mm f/2.8 N</p>  <p>for 145mm f/4 soft Focus</p>  <p>for 55-110mm f/4.5 N Zoom</p>  <p>Bellows Lens Hood</p>	

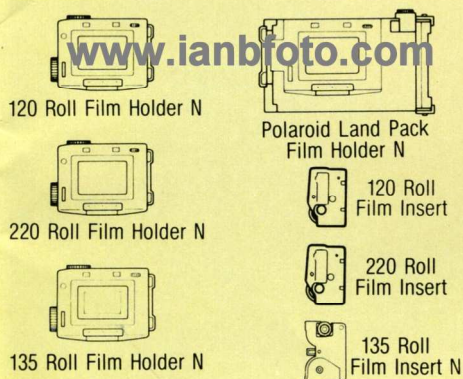
## Finder Equipments



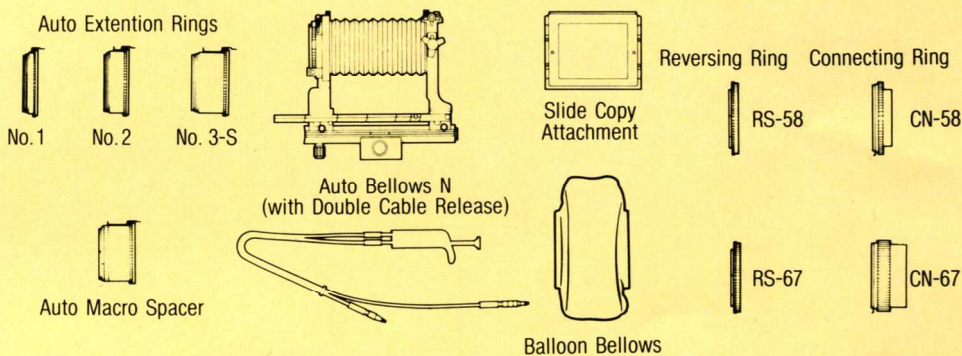
## Lenses



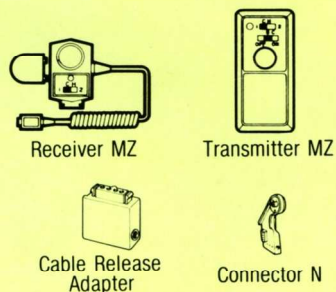
## Film Holder Equipments



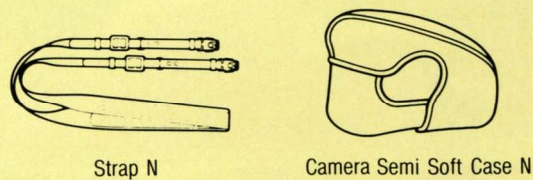
## Close-up/Copy Equipments



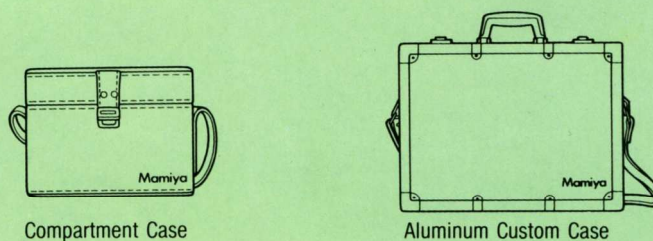
## Remote Control Equipments



## Strap/Camera Case



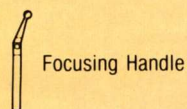
## Trunk



### Filter

77 φ  
(Y2, YG, 02, UV  
SL, 81C, 82C,  
ND16, PL)

105 φ  
(Y2, YG, 02, UV  
SL, R1)



# **Mamiya** M645 SUPER

