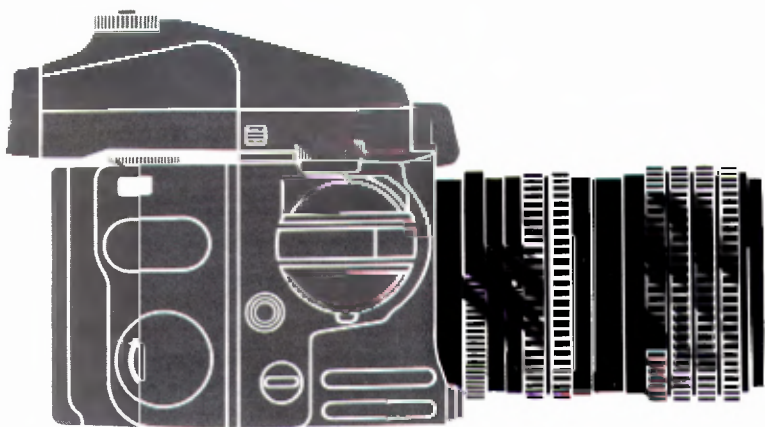


Mamiya 645



Mamiya Interchangeable Lenses



English Instructions

Description of parts

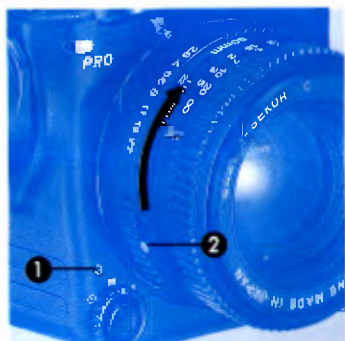


Features

Mamiya lenses have long been established as a standard for lenses of professional calibre. Whether you are using a wide, standard, or telephoto lens is your assurance that you are using the highest quality optics. In order to make the most of the intrinsic contrast, high resolution, rich color saturation, and clear definition of lenses, all the lenses for the M645 have been multi-coated. Virtually all flare and ghost image have been eliminated, even when shooting under highly unfavorable lighting.

In addition, the lenses feature the M645 bayonet mount, full-automatic diaphragm, Auto/Manual (A-M) Change Lever (to confirm the depth of field) and Exposure metering coupling system.

For other lenses Fisheye, Shift, Macro, Leaf-shutter type and Soft-Focus see the instruction manuals accompanying them.



How to Use The Lenses

Attaching the Lens

While aligning the two alignment dots ① & ②, insert lens into the camera body. Then twist lens clockwise until it clicks and locks into place.

Removing the Lens

While depressing the Lens Release Button ③, grasp the part of the lens barrel that has the Depth-of-field Scale and twist the lens counterclockwise until it stops. Then lift out.



Depth-of-field

Depth-of-field refers to the total area which will appear in focus. The area of sharpness (depth-of-field) depends upon the distance the lens is focused at, the f/stop being used, and the focal length of the lens. The area that will appear sharp can be determined in two ways. By setting the A.M. Lever to the M (Manual) position, the depth-of-field for the aperture set on the lens can be previewed by looking through the finder.

The depth-of-field can also be determined by referring to the depth-of-field scale engraved on the lens. The f/stop numbers are engraved on

both the right and left-hand sides of the center reference mark. Simply locate the f/stop (aperture) you are using and read the figures which appear above the f/stop number of the distance scale of the lens.

For example, with the 80mm f/2.8 lens focused at 3m, and the Aperture Ring set to f/22, the depth-of-field scale reveals that everything from about 2m to about 6m will appear sharp.

*Please re-set A.M. Lever to A (Auto) position after viewing of the depth-of-field to assure proper exposure.

Lens Hoods

An important accessory to eliminate the detrimental effects of stray light entering the lens.

The Lens Hood for the 45mm lens is a square, slip-on type. Attach so that the sides are parallel with the sides of the camera body.

Special hoods are required for the 55mm, 70mm, 80mm f/1.9, 145mm SFC, and Zoom 105–210mm lenses. Even though the diameters are the same, the use of a lens hood designed for a long focal length lens with a short focal length lens will result in vignetting of the picture edges. The 80mm f/2.8 and 110mm lenses share the same lens hood. The telephoto lenses have built-in lens hoods. The built-in lens hood can be used by simply pulling it out. However if you rotate and pull it out, it comes out even more smoothly.

Care and Cleaning

Do not store the lens in a damp or salty atmosphere.

Never touch the lens surface. If a lens needs cleaning, blow away the dust particles with a blower, and clean the surface with lens cleaning tissue and lens cleaner.

After removing the lens from the camera body, protect the lens by using front and rear lens caps.

645 Interchangeable Lenses

	Lens	Optical Construction	Angle of View	Minimum Aperture	Diaphragm	Minimum Focusing Distance	Magnification	Area Covered	Equivalent focal-length for 35mm	Filter size	Lens Hood	Dimension Weight
①	Fisheye C 24mm f/4	10 elements, 8 groups	180°	22	Automatic	30 cm	0.14X	298×402 mm	15 mm	—	None required	82×100 mm 785g
②	C 35mm f/3.5N	9 elements, 7 groups	90°	22	Automatic	45 cm	0.11X	387×522 mm	22 mm	77 mm	None required	61.5×80 mm 445g
③	C 45mm f/2.8N	9 elements, 7 groups	76°	22	Automatic	45 cm	0.15X	286×386 mm	28 mm	67 mm	Slip-on	70.5×75 mm 475g
④	Shift C 50mm f/4	10 elements, 8 groups	70°	32	Manual	45 cm	0.18X	230×310 mm	31 mm	77 mm	None required	105.5×80 mm 735g
⑤	C 55mm f/2.8N	8 elements, 6 groups	65°	22	Automatic	45 cm	0.18X	231×312 mm	34 mm	58 mm	Screw-in	59.4×70 mm 305g
⑥	A 55mm f/2.8N/L (leaf-shutter type)	8 elements, 6 groups	65°	22	Automatic	45 cm	0.18X	231×312 mm	34 mm	67 mm	Screw-in	61.5×79.6 mm 520g
⑦	C 80mm f/1.9N	7 elements, 6 groups	47°	22	Automatic	70 cm	0.15X	284×384 mm	50 mm	67 mm	Screw-in	59×75.5 mm 420g
⑧	A 80mm f/2.8N/L (lens-shutter type)	6 elements, 5 groups	47°	22	Automatic	80 cm	0.12X	345×452 mm	50 mm	67 mm	Screw-in	61.5×79.6 mm 460g
⑨	C 80mm f/2.8N	6 elements, 5 groups	47°	22	Automatic	70 cm	0.15X	281×380 mm	50 mm	58 mm	Screw-in	43.5×70 mm 220g
⑩	Macro C 80mm f/4N	6 elements, 4 groups	47°	22	Automatic	36 cm	0.50X	83×112 mm	50 mm	67 mm	None required	75×79 mm 585g
⑪	C 110mm f/2.8 N	5 elements, 5 groups	35°	22	Automatic	120 cm	0.11X	374×505 mm	68 mm	58 mm	Screw-in	60×70 mm 390g
⑫	Soft Focus C 145mm f/4	7 elements, 5 groups	27°	32	Automatic	150 cm	0.13X	326×440 mm	90 mm	77 mm	Screw-in	115.5×81.5 mm 900g
⑬	C 150mm f/3.5 N	5 elements, 5 groups	26°	32	Automatic	150 cm	0.12X	344×465 mm	93 mm	58 mm	Built-in	80×70 mm 420g
⑭	A 150mm f/3.8 N/L (lens-shutter type)	5 elements, 5 groups	26°	32	Automatic	150 cm	0.14X	344×465 mm	93 mm	67 mm	Screw-in	82×78.9 mm 620g
⑮	A 150mm f/2.8	6 elements, 4 groups	26°	22	Automatic	132 cm	0.12X	342×462 mm	93 mm	67 mm	Built-in	111.2×74.5 mm 740g
⑯	C 210mm f/4N	5 elements, 4 groups	19°	32	Automatic	250 cm	0.10X	406×547 mm	130 mm	58 mm	Built-in	137×70 mm 775g
⑰	C 300mm f/5.6N	6 elements, 5 groups	13°	32	Automatic	400 cm	0.09X	445×600 mm	186 mm	58 mm	Built-in	164×70 mm 710g
⑱	C 500mm f/5.6	6 elements, 5 groups	8°	45	Automatic	900 cm	0.07X	622×839 mm	310 mm	105 mm	Built-in	358×114 mm 2,280g
⑲	Zoom C 55~110mm f/4.5N	11 elements, 10 groups	65°~35°	32	Automatic	150 cm	0.04~0.08X	55~986×1331mm 110~520×702mm	34~68 mm	67 mm	Screw-in	104.2×77.2 mm 780g
⑳	Zoom C 105~210mm f/4.5	13 elements, 11 groups	36°~19°	32	Automatic	180 cm	0.07~0.14X	105~558×754mm 210~294×396mm	65~130 mm	58 mm	Built-in	158×74.5 mm 875g
㉑	APO A 300mm f/2.8	9 elements, 8 groups	13° 30'	22	Automatic	350 cm	0.10X	437×590 mm	186 mm	—	Built-in	237×139.5 mm 2,700g