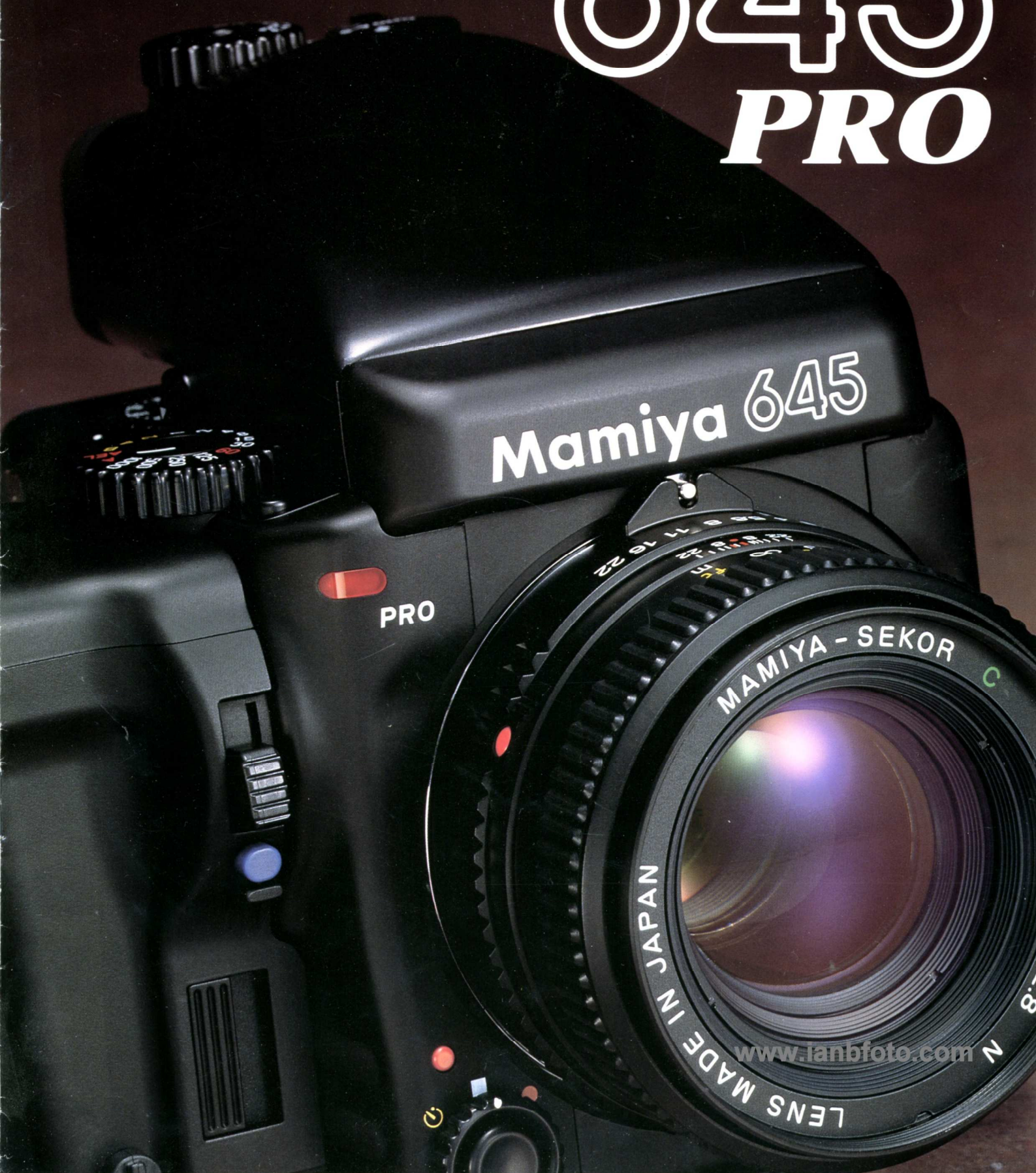


For Mamiya and Bronica medium format cameras and accessories go to : www.ianbfoto.com

Mamiya

The medium format.

645 PRO



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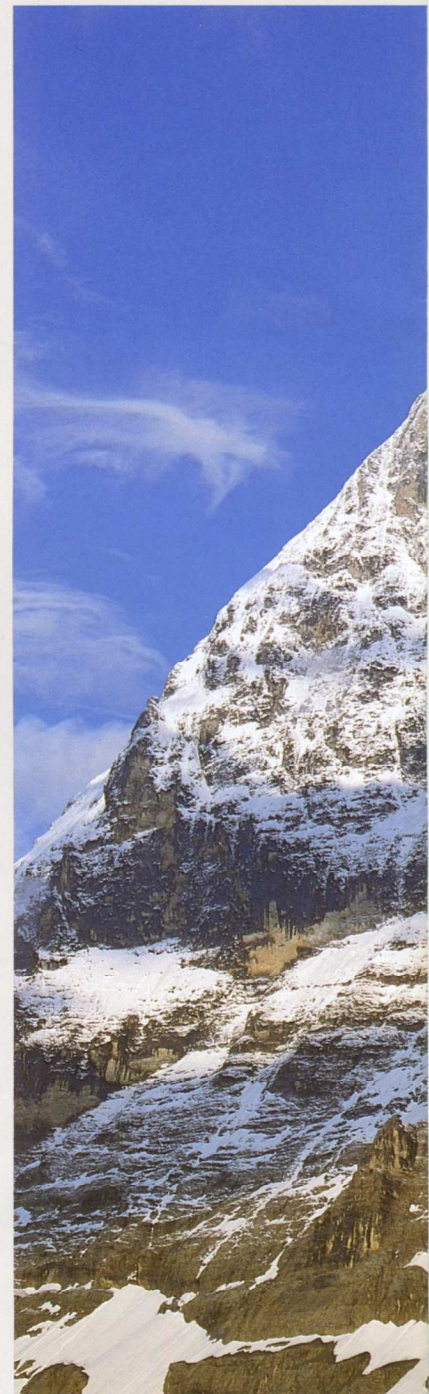


Moving towards unqualified reliability **645** A new dimension in photography **PRO**

In the early '70s Mamiya engineers were given a new challenge: To create a system camera that would have the handling ease of a 35mm camera but would produce a much larger negative and far superior image quality.

In 1975 the Mamiya M645 was introduced, the world's first medium format 6x4.5cm SLR. Other models followed over the years in order to keep step with technical developments. Now we are proud to present the Mamiya 645 PRO, which incorporates new advances in mechanical, optical and electronic camera engineering.

The Mamiya 645 PRO with its optional new Power Drive Grip WG401 is designed for heavy duty professional use and for automatic operation of a series of high performance leaf shutter lenses, while maintaining the advantages of the camera's focal plane shutter. Other important features include a built-in delayed shutter release (self-timer) and a modern, streamlined, ergonomic and eye-pleasing design and finish.



Specifications

Camera Type	6 x 4.5cm format electronic controlled focal-plane shutter SLR
Actual Negative Size	56 x 41.5mm
Film Type	120 roll film (15 exposures) 220 roll film (30 exposures) 135 roll film in cartridge (36,24,12 exposures) Polaroid Land Pack Film (Polaroid 100,600 series)
Film Loading	Daylight loading, interchangeable film holders with film speed dial which interfaces with AE Prism Finder.
Standard Lenses	Mamiya-Sekor C 80mm f/2.8N Mamiya-Sekor C 80mm f/1.9N
Lens Mount	M645 bayonet mount (applicable to all M645 lenses)
Shutter	Moving Coil, electronic controlled focal-plane shutter
Shutter Speed	(Manual) 4 sec. ~ 1/1,000 sec., B(T) (Auto) 8 sec. ~ 1/1,000 sec. (When the AE Prism Finder FE401 is used)
Shutter Release	Electro-magnetic release.
Button	Selectable release lock or self-timer mode
Mirror	Instant return, with mirror lock-up provision.



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Viewfinder Interchangeable (Waist Level Finder N, Prism Finder FP401, AE Prism Finder FE401)
Viewfinders for the M645 Super can be used.

Focusing Screen Standard: Rangefinder Spot/Microprism, with Fresnel lens, accessory screens available.
(Common to the M645 Super)

Field of View 94%

Film Transport Single turn winding by Film Advance Crank AC401.
Variable crank start position (6 positions).
Automatic film advance with the Power Drive Grip WG401 or N.

Exposure Counter Progressive type, automatic reset. Automatic counter for 120 and 220 film.

Multiple Exposure Activated by Multiple Exposure Lever

Depth-of-field Depth-of-field scale with AM Lever on the lens.

Self-timer Electronic LED signal. Lights for 8 sec. Flashes for 2 sec. before exposure. Manual override.

Auxiliary Shutter Accepts Remote Control and Electronic Cable

Release Socket Releases

Battery Check The Battery Check Button indicates residual battery capacity in 3 stages.

Synchronization X terminal plus hot shoe, flash synchronization at 1/60 sec. or slower speeds.

Time Exposure Time (T) photography can be taken.

Power Supply 6V battery x 1 (4SR44 silver-oxide battery, 4LR44 alkaline-manganese battery or 2CR1/3 lithium battery)

Others With neck strap.

Dimension & Weight

Body with 120 Roll Film Holder HA401	980g
124mm(W) x 102.5mm(H) x 124mm(D)	
With Waist Level Finder N, 80mm f/2.8N	
124mm(W) x 106mm(H) x 158mm(D)	1,345g
With Prism Finder FP401, 80mm f/2.8N	
124mm(W) x 128mm(H) x 170mm(D)	1,530g
With AE Prism Finder FE401, 80mm f/2.8N	
124mm(W) x 135mm(H) x 170mm(D)	1,545g
With AE Prism Finder FE401, 80mm f/2.8N, Power Drive Grip WG401	
172mm(W) x 135mm(H) x 170mm(D)	1,800g
(without battery)	

The 645 PRO - A Tool for The D

1 About 3 x larger film area than 35mm format means far superior picture quality.

The 6x4.5cm format offers approx. 3x more film area than 35mm (24 x 36mm) format. Add the outstanding optical quality of Mamiya world-class lenses and you will understand why the 645 PRO is capable of producing unsurpassed results.

2 A rugged and reliable camera body, designed for hard professional use.

Since the very first Mamiya 645 SLR, professional photographer who appreciate the larger negative size, have made the series a best seller. The 645 PRO and its system accessories incorporate their wishes and suggestions and make it more desirable than ever.

3 Excellent Interchangeable Roll Film Holder System.

Choice of quick change roll film holders for 120 (15 exposures), 220 (30 exposures) and 35mm (with panoramic adapter) roll film, which allow instant change of film type, even in mid roll. Plus, of course, Polaroid Pack Film Holder. Each holder has its own film speed dial which automatically interfaces with the AE Prism Finder.

4 AE Prism Finder FE401 offers 3-way automatic TTL metering plus LED signals.

It can be set for either Spot (SP) or Average (AV) metering and also to Auto-shift (Auto A-S), in which case it will automatically select the best mode to suit the subject. Its LEDs indicate shutter speeds and other camera functions. An exposure compensation dial from +3EV to -3EV permits manual input.

5 Power Drive Grip WG401 for motorized and remote control operation.

Specially developed as a companion to the 645 PRO, this grip has the following features: It motorizes film transport, activates mirror and focal plane shutter, automatically cocks the special leaf shutter lenses now part of the 645

Easy Controls and De



Film Speed Dial

Built in every film holder, including Polaroid. It automatically interfaces through the AE Prism Finder with camera's shutter and lens diaphragm.



Shutter Speed Dial

To select focal plane shutter speeds manually or automatically on AE.

Power Drive Grip WG401

For single frame or continuous motorized operation (2 frames/sec.). Automatically activates leaf shutter lenses. Accepts external power supplies, AC, Remote Controls.

Shutter Speed Dial Lock Release Button

Pressing button permits changing from automatic to manual operation.

Lock Lever
Secures Power Drive Grip.

Shutter Release Button



AE Prism Finder FE401

Features three TTL metering modes. Average (AV), Spot (SP) and Auto-shift (Auto A-S). Exposure compensation dial (+3/-3). Internal LED displays show shutter speeds and other data.

AE Prism Finder Contacts

Gold plated contacts interface AE metering with ISO dial on film holder, focal plane shutter and lens diaphragm.



Shutter Release Button with Shutter Release Selector

Align against white square for normal operation, yellow clock symbol for self-timer, red dot to lock.



emanding Professional

system, connects with a mechanism in the camera that senses when a partially exposed film holder, that has not been advanced, is attached and does it automatically. It can also be remote controlled with cable release or wireless.

6 Built-in Self-timer which also facilitates time exposures.

After pressing the shutter release, a LED signal will illuminate for 8 seconds and blink for 2 seconds before exposure. It is also used for "T" exposures, where it eliminates the chance of camera movement or vibration. In this mode, a special circuit switches the battery off, to extend its life.

7 Automatic Leaf Shutter Lenses for synchro-flash photography up to 1/500 sec.

Presently 55mm wide angle, 80mm standard and 150mm tele lenses -all of highest optical performance- are available. Their shutter action is automatically coupled when the Power Drive Grip WG401 is employed. The camera's focal plane shutter with speeds to 1/1000 can also be used with these lenses.

8 The largest selection of world-class Mamiya lenses has been created for the 645 System.

21 outstanding lenses, from a 24mm Fisheye to a 500mm Tele and including macro, variable soft focus and zoom lenses, serve every need of the most demanding pros. Recent additions are the incomparable A150mm f/2.8 and A300mm f/2.8 APO. A 2x Tele-extender doubles the focal length of tele lenses.

9 An impressive accessory program extends the 645 PRO's usefulness for specialized applications.

They include Auto Bellows and Auto Extension Tubes, Lens Hoods of various types, Camera Grips, Tripod Accessories, Revolving Camera Stage and more.

sirable Features

3-way Metering Mode Selector and Exposure Compensation Dial



BC Lamp

Serves double function. Indicates charge condition of battery. Illuminates for 8 sec. and blinks for 2 sec. when Self-timer actuated.

A-M Lever

Moves lens aperture to applicable F/stop for Depth-of-field preview.

X Flash Terminal

Lens Release Button

Battery Check Button
See BC Lamp, above.

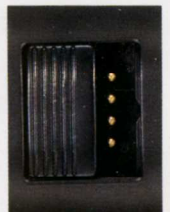
Hot Shoe
For cordless electronic flash.

Mirror-up Lever

Neck Strap Lug

Dark Slide

Auxiliary Electronic Shutter Release Contacts
Concealed by sliding cover. Used for Remote Control and with Left Hand Grip GL401.



The 645 PRO Interchangeable Lenses for Ultimate Image Quality

Mamiya's world-class lens quality is a major reason for the Mamiya's camera fame. The lenses shown on this page have been specially created as companions to the Mamiya 645 PRO, even though -as all 645 lenses- they can also be used with all previous Mamiya 645 models.



Leaf Shutter Lenses

The three leaf shutter lenses, in Seiko shutters, with speeds of 1/30, 1/60, 1/125, 1/250 and 1/500 sec., are of superb optical quality and are made in the focal lengths which are generally used in synchro-flash photography.

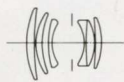
Wide-Angle

A55mm f/2.8N/L



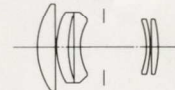
Standard

A80mm f/2.8N/L



Telephoto

A150mm f/3.8N/L

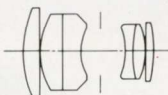


High Quality Tele Lenses for Medium Format Camera

The A150mm f/2.8 tele lens is based on anomalous dispersion glass technology. The A300mm f/2.8 APO lens utilizes ULD (ultra low dispersion) optical glass.



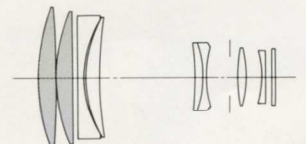
A150mm f/2.8



[Featuring anomalous dispersion glass]



APO LENS
A300mm f/2.8 APO





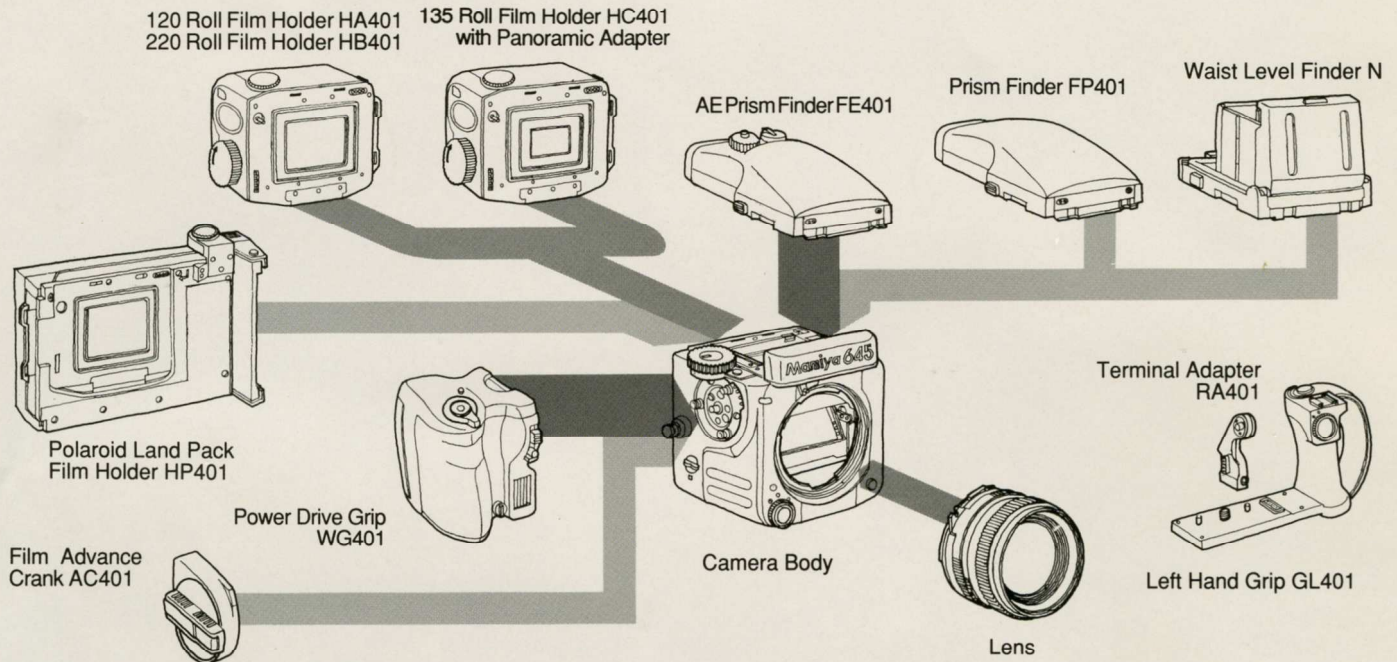
Interchangeable Lenses for Mamiya 645 PRO

A guide to the Mamiya-Sekor lens lineup. These lenses can also be used with other Mamiya 645 cameras.

Type	Optical construction	Angle of view	Minimum Aperture	Diaphragm	Minimum focusing distance	Maximum Magnification ratio	Area Covered	Equivalent focal-length for 35mm	Filter size	Lens Hood	Dimensions and Weight
C 35mm f/3.5N	9 elements 7 groups	90°	22	Automatic	45 cm	0.11	387×522 mm	22 mm	77 mm	None required	61.5×80 mm 445g
C 45mm f/2.8N	9 elements 7 groups	76°	22	Automatic	45 cm	0.15	286×386 mm	28 mm	67 mm	Slip-on	70.5×75 mm 475g
C 55mm f/2.8N	8 elements 6 groups	65°	22	Automatic	45 cm	0.18	231×312 mm	34 mm	58 mm	Screw-in	59.4×70 mm 305g
C 80mm f/1.9N	7 elements 6 groups	47°	22	Automatic	70 cm	0.15	284×384 mm	50 mm	67 mm	Screw-in	59×75.5 mm 420g
C 80mm f/2.8N	6 elements 5 groups	47°	22	Automatic	70 cm	0.15	281×380 mm	50 mm	58 mm	Screw-in	43.5×70 mm 220g
C 110mm f/2.8N	5 elements 5 groups	35°	22	Automatic	120 cm	0.11	374×505 mm	68 mm	58 mm	Screw-in	60×70mm 390g
C 150mm f/3.5N	5 elements 5 groups	26°	32	Automatic	150 cm	0.12	344×465 mm	93 mm	58 mm	Built-in	80×70 mm 420g
A 150mm f/2.8	6 elements 4 groups	26°	22	Automatic	150 cm	0.12	342×462 mm	93 mm	67 mm	Built-in	107×74.5 mm 740g
C 210mm f/4N	5 elements 4 groups	19°	32	Automatic	250 cm	0.10	406×547 mm	130 mm	58 mm	Built-in	137×70 mm 775g
C 300mm f/5.6N	6 elements 5 groups	13°	32	Automatic	400 cm	0.09	445×600 mm	186 mm	58 mm	Built-in	164×70 mm 710g
C 500mm f/5.6	6 elements 5 groups	8°	45	Automatic	900 cm	0.07	622×839 mm	310 mm	105 mm	Built-in	358×114 mm 2,280g
Zoom C 55~110mm f/4.5N	11 elements 10 groups	65°~35°	32	Automatic	150 cm	0.04~0.08	55~986×1331mm 110~520×702mm	34~68 mm	67 mm	Screw-in	104×77 mm 800g
Zoom C 105~210mm f/4.5	13 elements 11 groups	36°~19°	32	Automatic	180 cm	0.07~0.14	105~558×754mm 210~294×396mm	65~130 mm	58 mm	Built-in	158×74.5 mm 875g
Fisheye C 24mm f/4	10 elements 8 groups	180°	22	Automatic	30 cm	0.14	298×402 mm	15 mm	Built-in	None required	82×100 mm 785g
Shift C 50mm f/4	10 elements 8 groups	70°	32	Manual	45 cm	0.18	230×310 mm	31 mm	77 mm	None required	105.5×80 mm 735g
Macro C 80mm f/4N	6 elements 4 groups	47°	22	Automatic	36 cm	0.50	83×112 mm	50 mm	67 mm	None required	75×79 mm 585g
Soft Focus C 145mm f/4	7 elements 5 groups	27°	32	Automatic	150cm	0.13	326×440 mm	90 mm	77 mm	Screw-in	115.5×81.5 mm 900g
LS A 55mm f/2.8N/L	8 elements 6 groups	65°	22	Automatic	45 cm	0.18	231×312 mm	34 mm	67 mm	Screw-in	61.5×79.6 mm 520g
LS A 80mm f/2.8N/L	6 elements 5 groups	47°	22	Automatic	80 cm	0.12	345×452 mm	50 mm	67 mm	Screw-in	61.5×79.6 mm 460g
LS A 150mm f/3.8N/L	5 elements 5 groups	26°	32	Automatic	150 cm	0.12	344×465 mm	93 mm	67 mm	Screw-in	82×78.9 mm 620g
A 300mm f/2.8 APO	9 elements 8 groups	13°	22	Automatic	350 cm	0.10	437×590 mm	186 mm	67 mm Drop-in	Built-in with extra hood	159.5×237 mm 2,700g

- Wide-angle Lenses
 Telephoto Lenses
 Special Effect Lenses
 APO Lens
 Standard Lenses
 Zoom Lenses
 Leaf Shutter Lenses

Mamiya 645 PRO System Chart



AE Prism Finder FE401



Image magnification ... 0.79 x (with standard lens at infinity)
 Diopter -0.8 diopter (standard). Diopter correction lenses can be mounted (+3, +2, +1, -1, -2, -3)
 Aperture Range • f/1.9 lens: EVO (f/1.9 4 sec.) ~ EV19 (f/22 1/1000 sec.) (ISO 100)
 • f/2.8 lens: EV1 (f/2.8 4 sec.) ~ EV19 (f/22 1/1000 sec.)
 Coupling Range Shutter: Auto 8 sec. ~ 1/1000 sec.
 Manual 4 sec. ~ 1/1000 sec.
 Aperture: Contact coupling with f-stop of all lenses
 ISO: Contact coupling with ISO on the Roll Film Holder side
 Power Supply Battery in the camera body

Power Drive Grip WG401



Power Supply 6 AA size batteries (Ni-Cd battery can be used); optional AC adapter 9V can be used
 Film Transport Ratio .. Approx. 2 frames per second
 Maximum Transport ... Approx. 80 rolls of film with alkaline batteries;
 Ratio Approx. 70 rolls of film with Ni-Cd batteries (with new batteries at normal temperature)
 Dimensions 77mm(W) x 88mm(H) x 72.5mm(D)
 Weight 290g (without batteries)

Features and specifications are subject to change without notice.