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Mamiya

645 AF

www.ianbfoto.com



Mamiya pioneered the 645SLR system camera in 1975 and has become the world leader in the medium format field. The new auto-focus 645AF, with its digital capabilities, makes the camera and its world-class lenses ready for the challenges of the next century.



The New Mamiya 645AF

Every function reconfigured from scratch to build a precision tool for auto-focus photography.

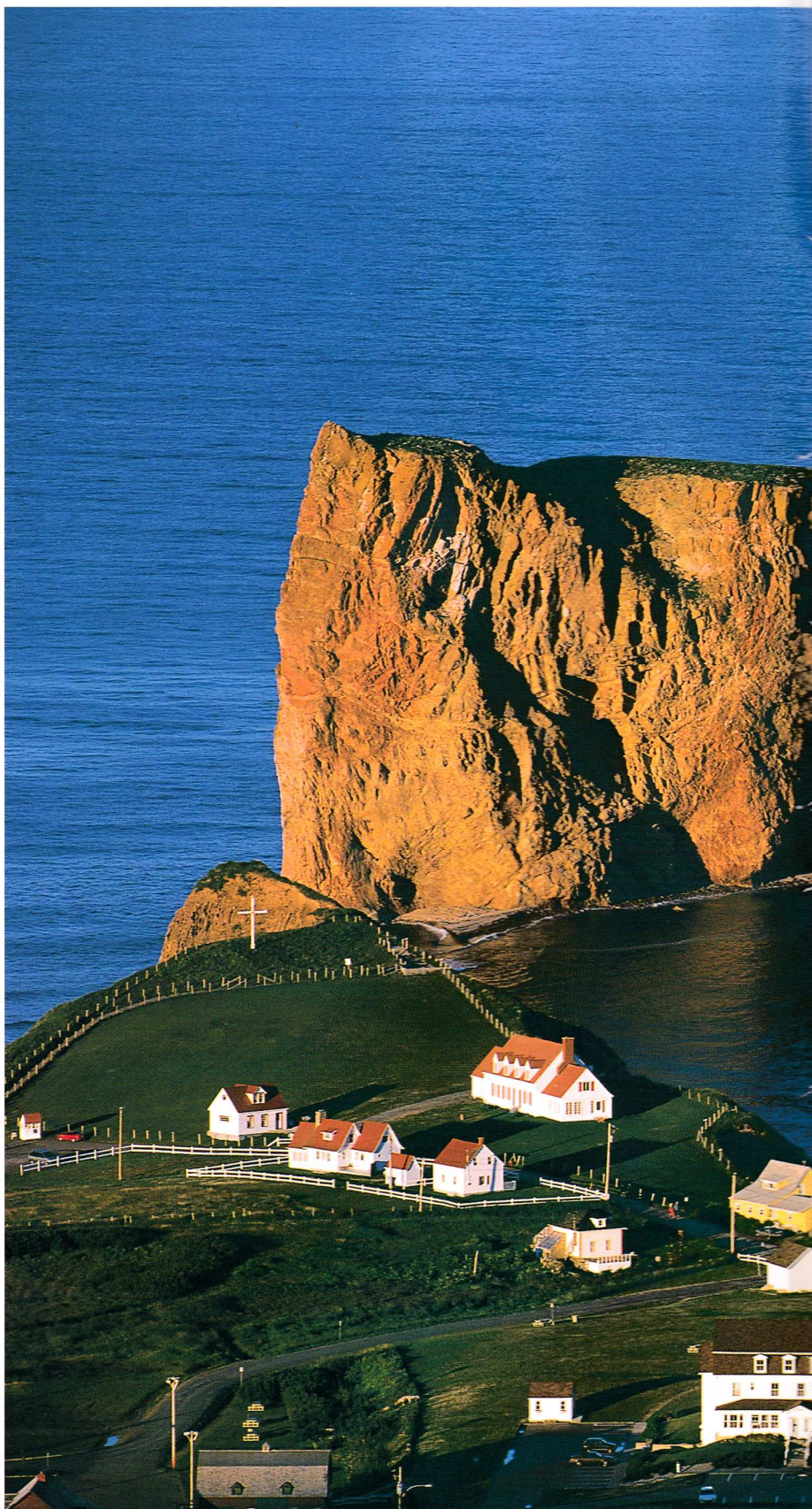
Full Digital Display Controls provide powerful image-creation capability and exquisite simplicity of control.

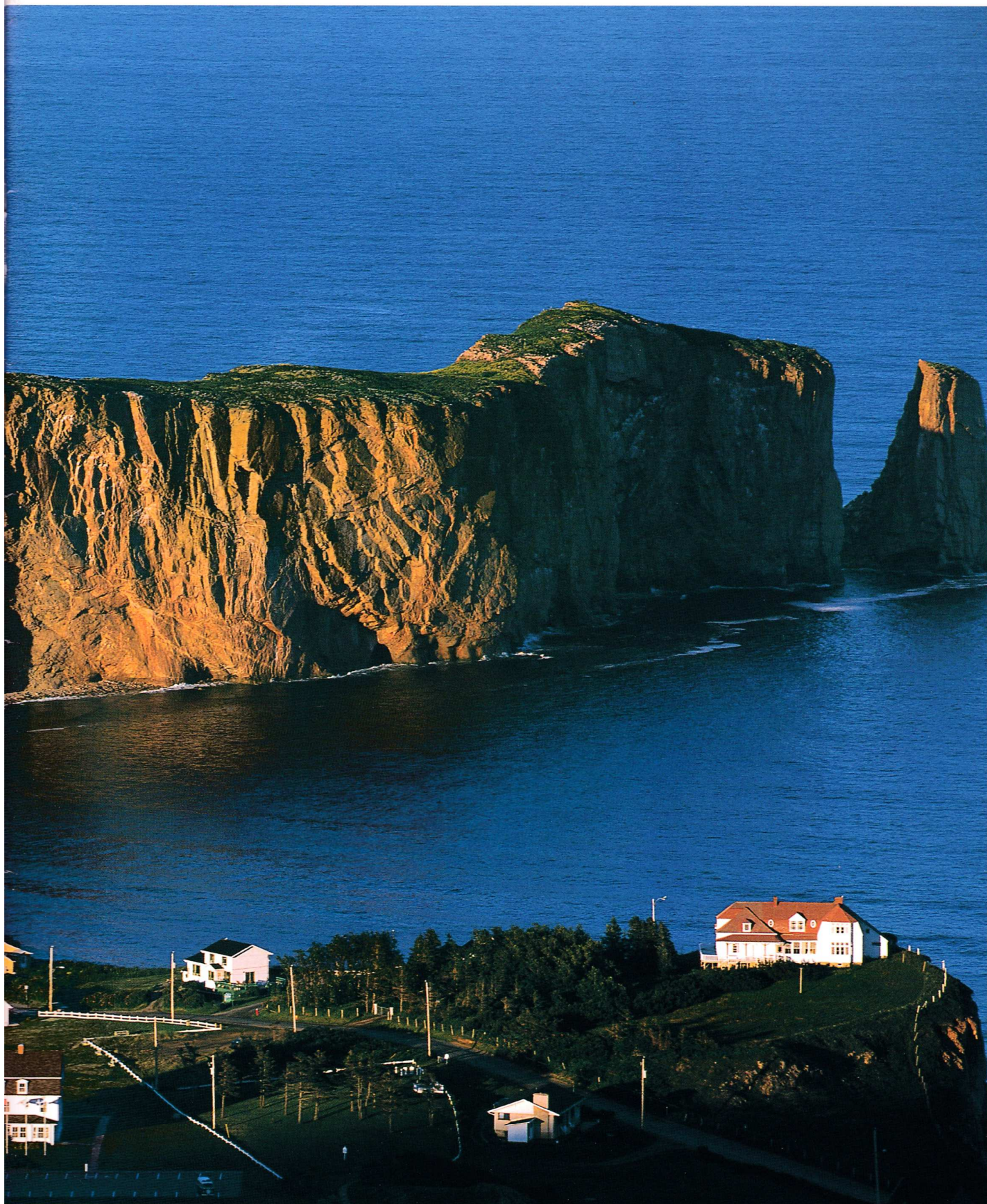
The 645AF combines the exceptional image detail of the 6 x 4.5cm format with 35mm ease of use.

From Mamiya - the world leader in quality medium-format cameras.



6x4.5cm format (actual negative size: 56x41.5mm)





AF APO 300mm f/4.5 IF

Powerful, simple-to-use functions make it easier than ever before to capture the precise image

Mamiya 645AF Features

Capture the moment — anytime, anywhere

High-speed, high-precision auto focus

- TTL phase-difference detection
- H-shape CCD line sensor
- Wide focus area
- Multiple focus modes
- Single AF(S)
- Continuous AF(C)
- Manual(M)
- Low light auto-flash compensation
- AF lock

Capture the delicate textures of light...

Exposure control, metering modes

Multi-mode AE

- Aperture-priority AE (Av)
- Shutter-priority AE (Tv)
- Program AE (P)
- (Program shift settings also possible.)
- Manual (M)
- X(1/125sec.)
- Time(T)

3-Way metering mode

- Center-Weighted/Average metering (AV)
- Spot metering (SP)
- Variable ratio metering (A-S auto-switching)

Exposure Compensation

±3 EV in 1/3EV steps

Artistic flash...

TTL flash sophistication

- Metz SCA3000 system compatible(SCA3951)
- X-synch at 1/125 sec. with all flash equipment

Cutting-edge optical and digital technology

645 Interchangeable Lenses

- AF 45mm f/2.8
- AF 55mm f/2.8
- AF 80mm f/2.8
- AF ULD 210mm f/4 IF
- AF APO 300mm f/4.5 IF
- * AF 35mm f/3.5
- * AF 150mm f/2.8 IF
- * AF Zoom 55-110mm f/4.5
- * AF Zoom 105-210mm f/4.5
- * Macro 120mm f/4

* indicates under development.



(actual size)

Meet the full range of image needs...

Interchangeable film magazines

- 120/220 roll film holder
- Polaroid pack film holder
- Digital camera back



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Always ready for the perfect slice of time...

High-speed shutter

- Vertical-travel metal focal plane shutter with maximum speed of 1/4000 sec
- 1/125-sec flash sync
- Automatic shutter open/close mechanism opens shutter when film magazine is removed



Capture every nuance of light...

Auto Bracketing

- A single shutter release exposes three frames: over exposure, normal, under exposure
- Selectable steps: 1/3, 1/2, 2/3, 1EV

Information you can use...

Exposure data imprinting

DATA Mode

- Exposure mode
- Aperture value
- Shutter speed
- Exposure compensation
- Metering mode
- Index number

DAY Mode

- Year, month, day, time
- Index number (serial number up to 999)



Fast & Smooth...

Full Digital Display Controls

Digital dial selection of aperture and shutter speed

Viewfinder LCD

- Focus mark
- Out-of-focus direction mark
- Aperture value
- Shutter speed value
- Metering mode (A, S, A/S)
- Exposure compensation value
- Flash charge ready mark
- AE lock

Body LCD

- Exposure mode
- Aperture value
- Shutter speed value
- Self-timer
- Auto bracketing
- Battery check
- Multi-metering
- Program AE shift value
- Exposure data imprinting

Film magazine LCD

- Film speed
- 120/220 film detection
- Number of exposures

- BL button turns on backlight for LCD illumination under dim lighting
- FUNCTION and SET buttons for easy operation
- Mode button (custom settings allowed)
 - Self-timer • Multiple exposure • Auto bracketing
- High-performance, modular design blends viewfinder and winder into camera body
- Independent lens and winder drives for quieter operation

Easier operation, improved durability

Totally balanced design

- The first magnesium alloy top cover in a medium-format camera
- Compact, lightweight die-cast construction
- Modular body for natural handling balance
- Redefining feel for the medium-format SLR

A complete functional redesign aimed at building the ideal camera
The advantages of the ideal
6 x 4.5cm rectangular format
coupled with the mobility and
performance of 35mm systems



Fast, highly precise auto focus

Mamiya 645AF auto focus is based on a TTL phase-difference detection system. A high-sensitivity H-shape CCD covers a wider focus area to assure precise plane of focus even for subjects incorporating vertical and horizontal lines. Instant focus calculation and lens drive assure the photographer is always ready to capture the perfect moment. Focus is confirmed by the focus mark on the viewfinder LCD for simpler operation. An AF sub-beam activates automatically under low light conditions to ensure accurate focusing no matter what the situation (Single AF Mode only).

A choice of focus modes to suit the subject

Single AF Mode (S)

This mode puts priority on precise focusing at the moment the shutter is released, ideal for still subjects. Focus is fixed when the viewfinder LCD focus mark lights. AF lock can be activated in this mode.

Continuous AF Mode (C)

This mode puts priority on shutter release, continuing to adjust focus even while the shutter release button is being pressed. It is best for moving subjects; focus is not fixed even when the focus mark lights.

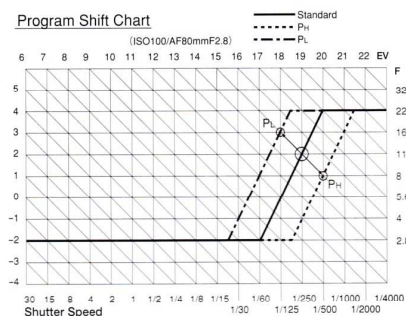
Manual Focus Mode (M)

Selecting this mode cancels Auto Focus. The focus mark appears inside the viewfinder LCD panel when the image is in focus, and a focus aid feature indicates the rotation direction of the focus ring with ◀ and ▶ marks.

Exposure modes to complement the full range of photographic needs

(P) Program AE Mode

This mode automatically determines optimal exposure settings, using pre-programmed aperture and shutter values to ensure exposure accuracy under ambient lighting. Digital dial-controlled program shift enables adjustment of shutter speeds in 1.5EV steps for shorter (PH) or longer (PL) exposures, providing versatile response to shooting conditions. This mode is ideal for general photography without the need to make adjustments.



(Av) Aperture Priority AE Mode

This mode puts emphasis on the depth-of-field effect of aperture setting on the image. Simply adjust aperture value with the digital dial to the appropriate setting, and the camera automatically adjusts shutter speed to match. Aperture values can be set in 1/2 steps.

(Tv) Shutter Speed Priority AE Mode

This mode emphasizes the effect of shutter speed on the image. Set the desired shutter speed via the digital dial and the camera automatically adjusts aperture value to match. Aperture values can be set in 1/2 steps.

(M) Manual Mode

This mode enables the photographer to have total control over both aperture and shutter speed, and is best used to adjust settings based on readings from a separate exposure meter. The rear dial adjusts aperture value while shutter speed is set using the front dial. Both values can be set in 1/2 steps. The photographer can put half pressure on the shutter release to view the difference between set values and values metered by the camera and displayed in the viewfinder LCD. The difference indications disappear from the LCD panel when set values match metered values. The adjustment range is $\pm 6\text{EV}$, displayed in 1/3 steps ($\times 3 / \times 7 / \times 0$).

(X) X Mode

This mode fixes shutter speed at the sync speed of 1/125 sec. In this position, the dials lock and cannot be rotated.

(T) Time Mode

This is a mechanically controlled mode for long exposures. It consumes no battery power.

Three metering modes provide detailed information about lighting conditions

(A) Center-Weighted Averaged Metering

This mode meters the average brightness of the entire image, with emphasis on the center of the screen.

(S) Spot Metering

This mode meters reflected light on the image at a specific point, indicated by the circle at the center of the viewing screen. It is optimal for use with high contrast subjects and for measuring brightness at a specific area of the subject.

(AUTO A-S) Variable Ratio Metering

This mode automatically switches between average and spot modes depending on the relative contrast within the overall image; it provides exposure settings suited to a wide range of subjects and lighting conditions.

+/-3EV exposure compensation for freedom of individual expression

The 645AF offers the high-level exposure compensation freedom to provide serious photographers with a tool enhancing creative originality. Exposure compensation is adjustable within the range of +/-3EV, in 1/3EV steps. In the AE Mode, the compensation value setting is displayed in the viewfinder LCD panel.

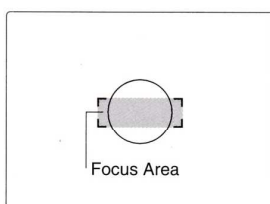
Digital control dials simplify aperture and shutter settings without leaving the viewfinder

Shutter speed and aperture settings are adjusted using a pair of digital dials. Adjustments are made using the front dial located near the shutter release button, operated with the right forefinger, and the rear dial on the upper part of the back, operated with the thumb. This ergonomic layout enables fast, easy adjustments without distraction while constantly observing the subject through the viewfinder. Even when using the camera without a tripod, settings can be changed without removing the right hand from the grip. The viewfinder and body LCD panels provide full information at a glance in AE modes and manual mode.

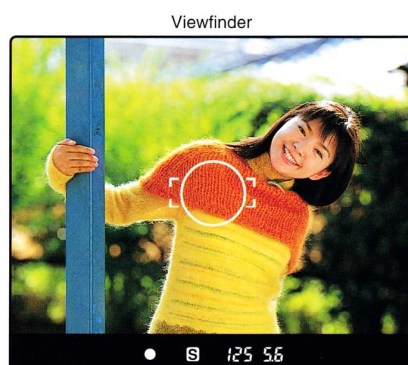
LCD panels show exposure conditions and camera settings at a glance.

A digital data communication system centralizes control and makes it possible to see full information in the viewfinder, body, and film magazine LCDs. The viewfinder display shows information about current exposure conditions. The body and film magazine displays show current settings and selections, all in an easy-to-understand intuitive format.

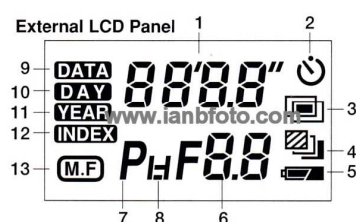
- Viewfinder display
- Body display
- Film magazine display



AF ULD 210mm f/4 IF

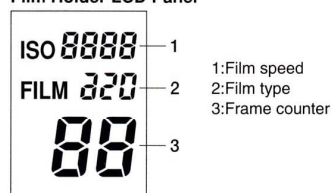


- Viewfinder LCD panel
- 1: Focus mark
 - <right>: Focusing ring position, focus point closer
 - <left>: Focusing ring position, focus point further away
 - 2: Metering mode indicators
 - 3: AE lock indicator
 - 4: Shutter speed
 - 5: Aperture value
 - 6: Exposure compensation value (Appears when AE is on)
 - 7: Flash charge mark



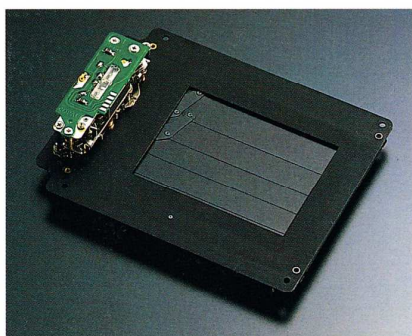
- 1: Shutter time
- 2: Self-timer mode
- 3: Multiple exposure mode
- 4: Auto bracketing mode
- 5: Battery check
- 6: Aperture
- 7: Program Mode
- 8: Program shift indicator
- 9: Imprinting Mode (Exposure data)
- 10: Imprinting Mode (Calendar)
- 11: Calendar indicator
- 12: Index number indicator (ID)
- 13: Manual focus mode

Film Holder LCD Panel



- 1: Film speed
- 2: Film type
- 3: Frame counter

Fully Digital Controls enable super-fast 1/4000-sec shutter speed, auto bracketing, exposure data imprinting, and customizable mode

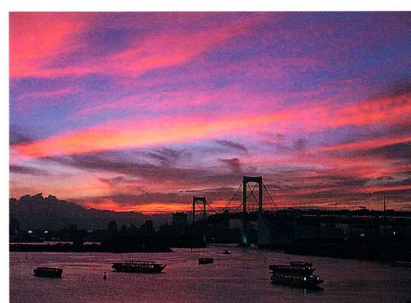


Super-fast 1/4000-sec shutter speed expands creative potential

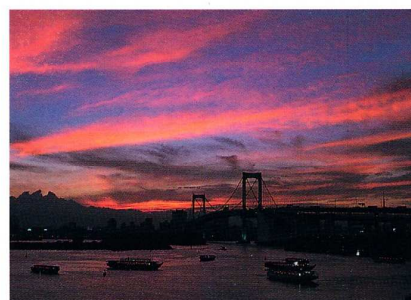
The vertical-travel metal focal plane shutter provides a maximum shutter speed of 1/4000 second. This permits the photographer to employ techniques, from soft-focus portraits using a wide aperture lens to razor-sharp images of even the fastest-moving subjects. The high-speed shutter also allows flash synchronization at a fast 1/125 sec. which enables effective application of daylight synchronization and other flash techniques. When the film magazine is removed, a protective mechanism automatically opens the shutter, and closes it again when the magazine is replaced, to prevent accidental damages.



+0.5



±0



-0.5

Auto bracketing for one-touch exposure adjustment

Auto bracketing is effective under complex lighting conditions when determining proper exposure settings is difficult, or for shooting with narrow-latitude slide films. Exposure is adjusted automatically to take one shot each at over, normal and under exposures. The exposure steps can be preset to 1/3, 1/2, 2/3, or 1 EV, and auto-bracketing can also be used in combination with the +/-3 EV exposure compensation function. Settings are possible in any mode except Manual (M) and Time (T); Program AE shift settings are used without modification.

Exposure data imprinting records vital information

Apply the data imprinting to generate a record of exposure data factors outside the image area. DATA mode imprints exposure mode, aperture value, shutter speed, exposure compensation level, metering mode, index (frame) number and focusing distance. DAY mode records year, month, day, and time, along with an index number. The 3-digit index numbers run 001 to 999. Data is stored in camera memory, and is not cleared when a film magazine is replaced. This allows easier record keeping and management when shooting large numbers of images.



< DATA Mode >					
A	F8.0	1/250	+0.5E	S	007
Exposure Mode	Aperture	Shutter Speed	Exposure Compensation	Metering Mode	Index Number

< DAY Mode >					
'99	0	21	10:10		401
Year	Month	Day	Time		Index Number

FUNCTION key and SET button simplify even fine adjustments and function selections

Delicate custom adjustments can be performed at the touch of a few buttons. The FUNCTION key and F1 key are data imprint function settings to turn viewfinder indicators on and off, and to turn the dial lock on and off. The F2 key sets the date and time and initializes the index number. For each setting, a digital dial is used in combination with the SET button which can also be used alone to check current settings.

Digital one-touch multiple exposure activation

Enter Multi Exposure Mode by pressing the MODE button, then set the desired number of exposures in a range of 1 to 5 with the digital control dial. Digital cancellation of film winding assures precise registration of multiple images on a single frame.

Self-timer

The MODE button can be used to change the initial default self-timer setting of 10 seconds to a value in the range of 3 to 60 seconds. Settings can be made in 1-second steps from 3 to 10 seconds, and in 10-second steps for settings longer than 10 seconds.



AF 55mm f/2.8



*Multi exposure can be used to enjoy a large variety of images. The above photograph has been taken by multi exposure of the top right picture (red sunset, simple exposure) and the bottom right picture (lighted-up bridge, simple exposure), the camera body being fixed.

Film magazines allow use of either 120 or 220 roll film.

A camera for the digital imaging age.

Interchangeable film magazines enhance creative application of the 6 x 4.5cm format

The 645AF carries on a proud Mamiya tradition of interchangeable film magazines. In addition to the 120/220 roll film magazine and Polaroid film back, the 645AF also supports digital imaging.



New 120/220 roll film magazine

This new film magazine incorporates a microprocessor that communicates with the camera body, magazine LCD and an Up/Down button, and features a center-mounted auto wind motor. The LCD shows film speed, film type, and number of exposures at the touch of a button. A backlight and backup battery even let the photographer view information when the magazine is not attached to the camera. Simply rotating the pressure plate 180 degrees switches between 120 and 220 film, and ensures that either type of film is kept perfectly flat. It is possible to switch between single and continuous exposures even part-way through a roll of film. An easy loading feature automatically advances film to the first frame when loaded.

New Polaroid film back

Polaroid film enables a previewing of images. Simply replace the film magazine with the Polaroid back to obtain immediate feedback on composition, lighting and exposure, as well as the effects of complex lighting conditions, multiple exposure, or extended exposure.

Polaroid film is also the perfect choice for commemorative photographs and snapshots. The image size is 6 x 4.5cm (Actual image size: 56 x 41.5mm), and the magazine accepts pull-type Polaroid 100 and 699 Series, as well as Fuji FP100 and FP3000B film. The Polaroid back also includes a film speed dial (ISO25 to 6400), and a storage pocket for the dark slide.

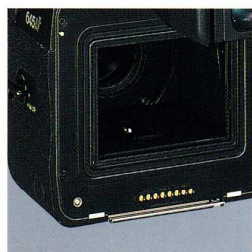
*The Polaroid Tripod Adapter N or Polaroid Tripod Adapter N is required when the camera is mounted on a tripod.

Employ digital imaging

The advance of computers and digital image-processing systems has made digital imaging capabilities a must for the modern photographer. Simply replace the film magazine with the 645AF digital back to expand creativity to a totally new set of applications and needs.



TTL flash control,
1/125-sec sync speed for
versatile flash photography



Sophisticated TTL Flash Control

The Mamiya 645AF incorporates automated TTL (off-the-film) flash control, with an X-sync hot shoe and dedicated circuitry. The flash system is compatible with the Metz SCA3000 System, which provides exceptional flash control. Using a Metz flash with SCA3951 adapter enables transfer of aperture, film speed, exposure compensation and other data for automated synchronization as well as power zoom control link and automatic operation of the AF sub-beam. All this technology provides versatile flash photography capability, particularly for daylight fill-flash and other applications.



AF 80mm f/2.8
+ 40MZ-3i

Flash status viewfinder display

When the flash unit is connected and powered up, the viewfinder LCD displays the flash charge mark. This mark flashes after each shot to indicate adjustment of flash intensity to the optimal level.

645AF+Metz Mecablitz 50MZ-5+SCA3951 Adapter



645AF+Metz Mecablitz 40MZ-3i+SCA3951 Adapter



Ergonomically designed body with integral viewfinder and power grip.



Simplified mechanism enables a compact, lightweight configuration

The viewfinder and grip are incorporated into the body, eliminating the need for additional electrical contacts and mechanical links. The result is a simpler design with greater precision and strength, and a more compact configuration.

Natural balance and feel

The 645AF is designed to have a neutral balance and natural feel when held in one hand, even when shifted between vertical and horizontal views or during operation of camera controls. Even supported only by the neck strap, the camera retains a light, well-balanced feeling. The palm of the hand and fingertips close naturally into place for stable grip. The groove on the left of the top cover and the leather-soft rubberized covering contribute to comfortable handling.

Designed for safe, trouble-free operation

Fully Digital Controls and self-diagnostic circuitry eliminate problems before they happen. In the event of incorrect settings or battery trouble, the shutter release locks to protect accidental exposure and the camera body LCD indicates where the problem is.



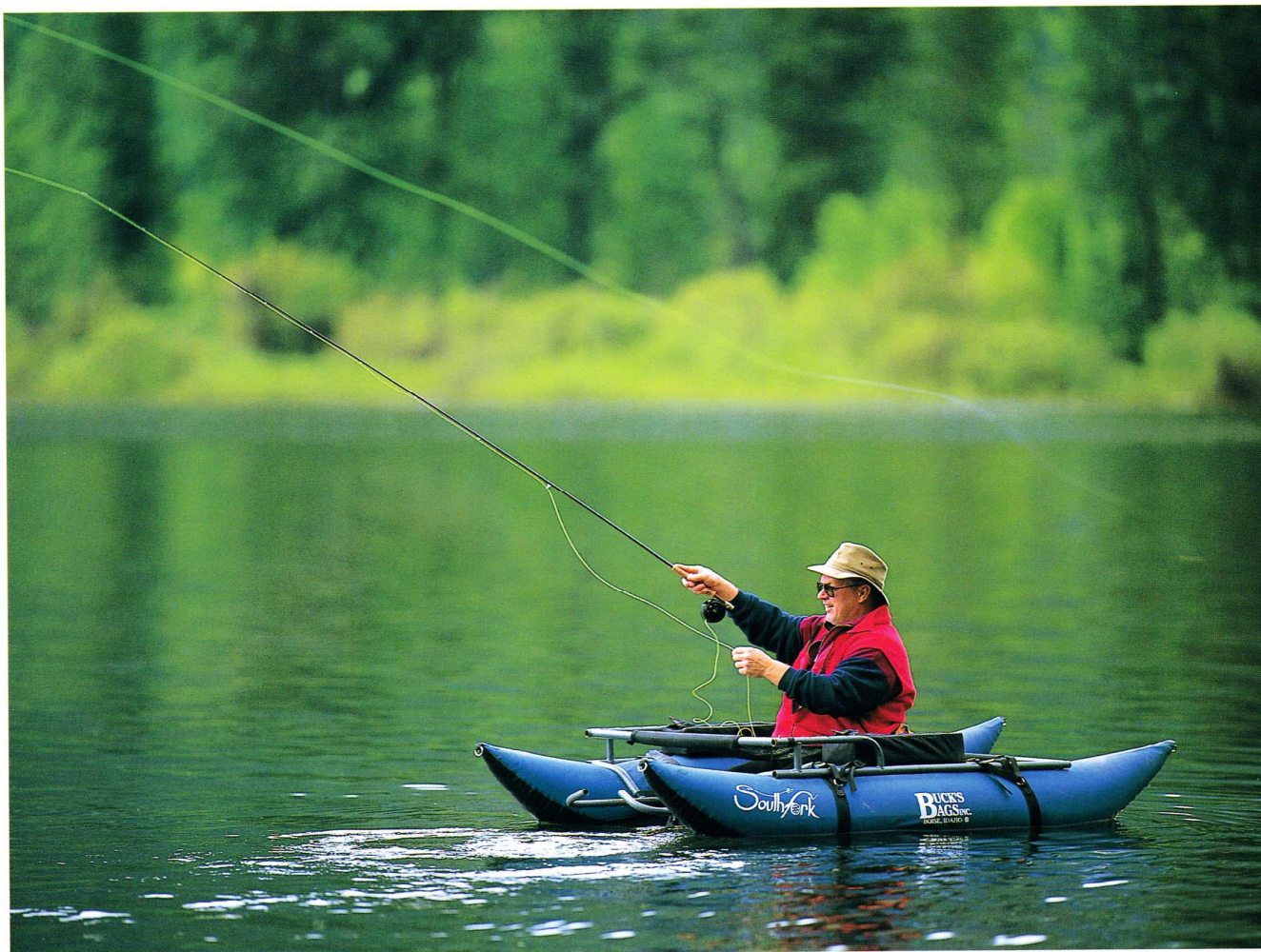
The first medium-format camera with a magnesium alloy viewfinder cover

The viewfinder requires no support during camera operation. The 645AF is the first medium-format camera to protect the prism and digital circuitry of the viewfinder with a magnesium alloy cover. In addition to providing secure protection, this magnesium alloy also contributes to the overall compact and lightweight design of the camera. The result is an innovative configuration with a revolutionary new look for the medium-format SLR.



Die-cast aluminum body and film magazine

The body shell is die-cast from a lightweight, high-strength aluminum alloy. Exceptional precision in this metalworking assures reliable, durable performance even under the harshest working conditions.



AF APO 300mm f/4.5 IF

Preview depth of field

Hold down the preview button in Auto Focus mode to stop down the lens to the working aperture and lock focus. Preview can be used in all AE modes.

Mirror Up

The 645AF is designed and engineered to minimize mirror shock. The Mirror Up function eliminates shock entirely during tripod-mounted slow speed, macro or multiple exposures. Choose use of AE lock or manual settings.

Diopter Adjusts viewfinder to vision.

The built-in diopter enables adjustment of the viewfinder image to suit individual visual acuity. Rotate the dial towards + or -



to adjust within a range of -2.5 to +0.5 diopter. Optionally available diopter lenses extend this range to -5 to -2 or 0 to +3.

Eyepiece Shutter

The eyepiece shutter protects against stray light entering through the eyepiece and affecting exposure values.

Remote Release Contact

For special situations, the supplementary release contact enables remote shutter release using a magnetic cable release (1 meter or 5 meter) or wireless remote controller.



Interchangeable Focusing Screens

Select the viewfinder screen to suit particular photographic needs. Each screen comes with tweezers to make installation quick and easy.

Powered by AA-size Batteries

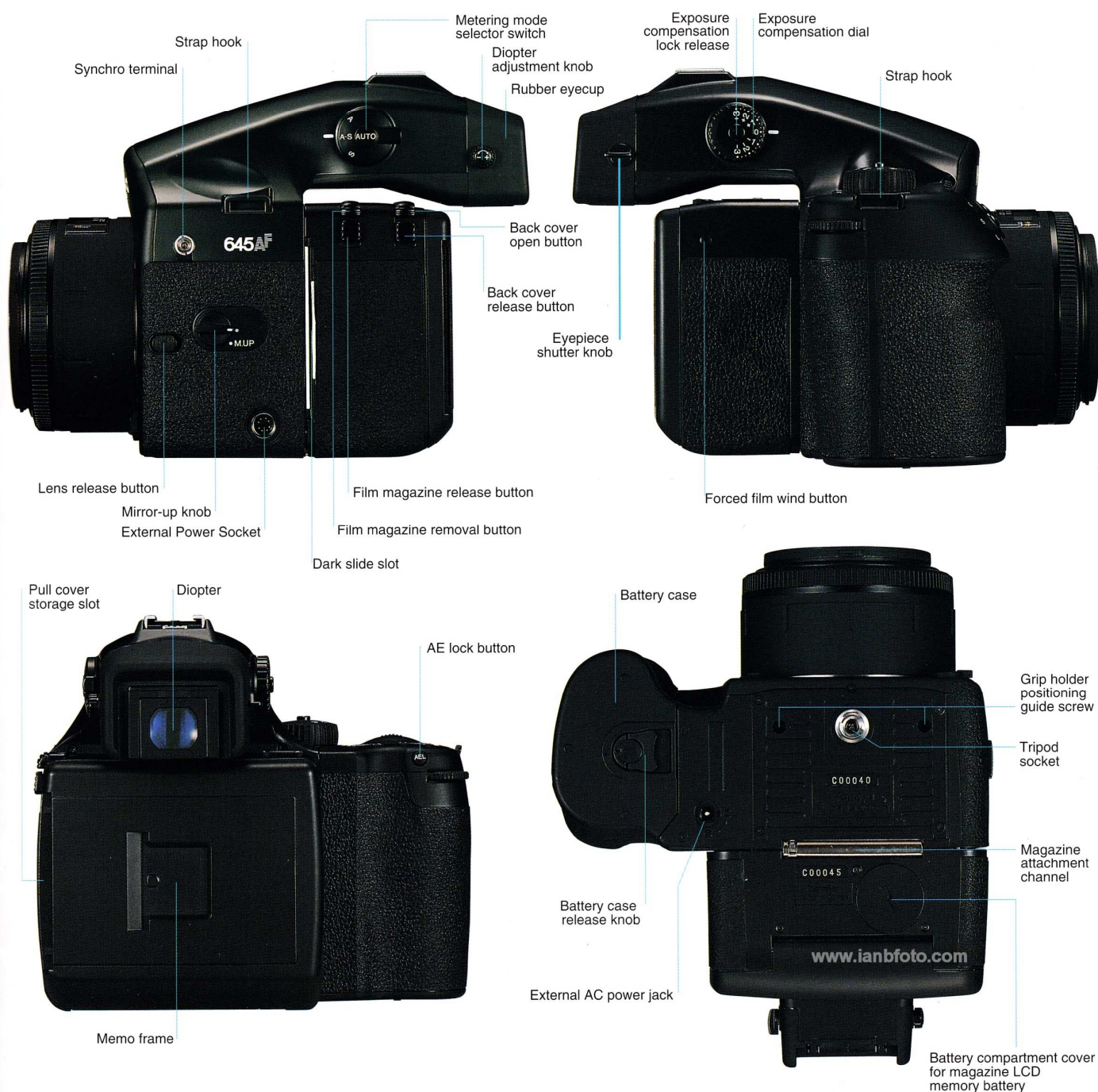
Replacement batteries are readily available, anywhere in the world. A reliable power supply is essential for a fully digital system. The Mamiya 645AF is powered by six easily obtainable AA-size batteries, and can also use low-noise, long-life lithium batteries. Batteries are housed in the grip, providing a firm hold and contributing to overall balance.

Parts Names and Body Specifications



Mamiya 645 AF Specifications

Camera Type	6 x 4.5cm format, electronically controlled focal-plane shutter, TTL multiple mode AE, AF single lens reflex	AF sub-beam	activates automatically under low light, low contrast. Range; 9m yet to be determined; Automatic switching to flash unit's built-in sub-beam when Metz flash unit is attached.
Actual Image Size	56 x 41.5 mm	AF Lock	Half-press on shutter release in S Mode
Film Type	120 roll film(16 exposures); 220 roll film(32 exposures); Polaroid Land Pack Film (requires special HP402 magazine)	Exposure Control Modes	Aperture-priority AE, shutter-priority AE, programmed AE (PH, PL setting possible)
Lens Mount	Mamiya 645 AF Mount, compatible with M645 mount (manual focus confirmation, focus aid, stop-down exposure metering)	Metering method	Center-weighted average (AV), spot (S) and variable ratio (1.5-step A-S auto change by program shift setting), manual
Viewfinder	Fixed prism viewfinder magnification x0.71; built-in diopter adjustment (-2.5 to +0.5, separate diopter correction lenses provide adjustment ranges of -5 to -2 diopter and 0 to +3 diopter); built-in eye-piece shutter	Setting Steps	Shutter speed and aperture both can be set in 1/2 steps; electronic dial lock
Focusing Screen	Interchangeable between Matt (standard) and Checker and manual focus microprism for M645 lenses.	Light Metering	TTL metering; center-weighted average (AV), spot (SP), and auto A-S variable ratio
Field of View	94%* of actual image	Metering Range	EV 2 to EV 18 (with ISO100 film, F2.8 lens)
Viewfinder Information	Focus mark, out-of-focus direction mark, aperture value, shutter speed, metering mode (A, S, A/S), exposure compensation value (difference between set value and actual value)	Exposure compensation	±3 EV (1/3 step)
		Film speed	ISO 25 to 6400
		AE lock	With AEL button; released by pressing twice or shutter operation; light metering value differentiation in viewfinder exposure compensation display when ELS



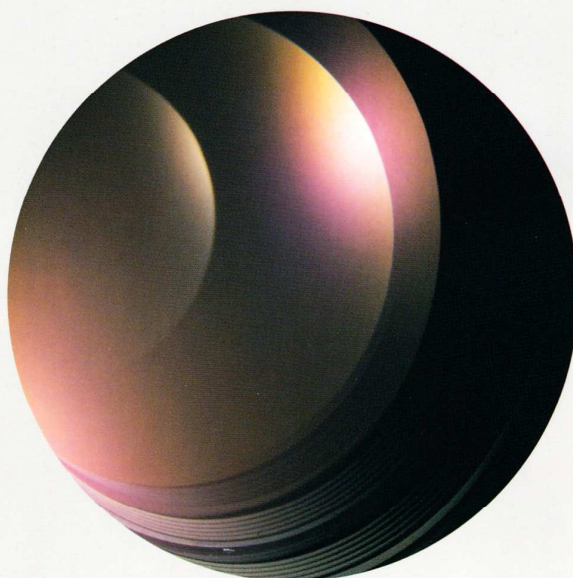
Shutter	button is held down; $\pm 6\text{EV}$ (1/3 step)	value, self-timer, ABL, battery check, multiple exposure, programmed AE or programmed AE shift value, data imprinting Interchangeable Film Magazine: ISO speed, type of film (120/220), exposure number
Shutter speed	AE 30 to 1/4000 sec. (1/8 step), manual 30 to 1/4000 sec. (1/2 step), X, B (Bulb, electronically controlled), T (time, mechanically controlled), emergency shutter curtain open mechanism (open when magazine is removed, automatically closed when magazine is attached)	Data Imprinting
Auto-Bracketing	Enabled with Mode button, 1/3, 1/2, 2/3, 1-step units	7 segment dot matrix; DATA mode: exposure mode, aperture value, shutter speed value, exposure compensation, metering mode, ID number; DAY mode ; year, month, date, time, ID number Switchable between enabled and disabled
Flash Synchronization	1/125 sec., automatically sets to 1/125 at faster speeds, synchronized to displayed speed at slower speeds (when Metz flash unit is used)	Sync terminal
Flash control	TTL direct metering, supports Metz SCA3000 system(SCA3951 Adapter)	X contact (sync speed 1/125 sec.)
Film transport	Automatic via built-in motor, single or continuous exposures	Cable release socket
Film loading	Automatic advance to first frame when shutter release button is pressed once (Easy Loading)	On shutter button
Multiple Exposure	Enabled with Mode button (1 to 5 exposures); can be cancelled	Remote-control terminal
External LCD	On camera body; shows aperture value, shutter speed	On side of body; electromagnetic cable release
		Self-Timer
		3 to 60 sec. (standard: 10 sec., can be set in 1 sec. steps between 3 and 10 sec., and in 10 sec. steps between 10 and 60 sec.)
		Depth-of-field confirmation Preview Button
		Tripod Socket
		U 1/4 inch and U 3/8 included
		Power Requirements
		6 AA-size batteries (alkaline-magnesium, lithium)
		Size
		153(W) \times 128(H) \times 184(D)mm
		Weight
		1,730g(w/o battery)

*This information is based on a Linear (horizontal/vertical) measurement.

Specifications are subject to change without notice.

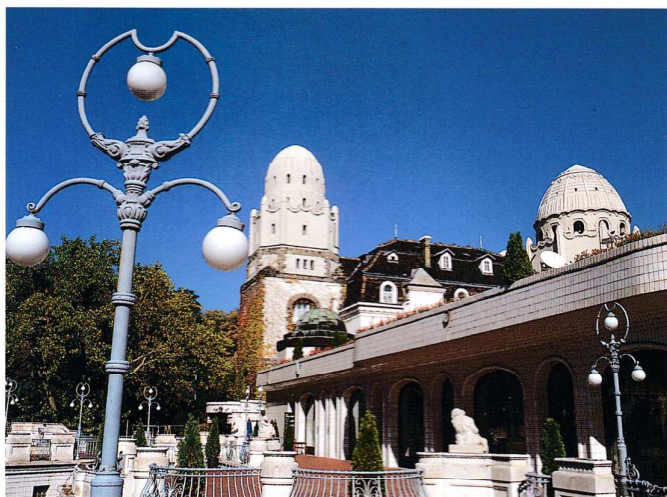
Optical performance is the key to creating images of unmatched clarity and precision. The new system of interchangeable lenses for the 645AF offer the same superb optical characteristics that have been the hallmark of Mamiya medium-format photography for decades, but add to that advanced digital circuitry to bring a new dimension of precision and control to the exposure process. The optical system of the 645AF includes 10 lenses, several still under development, scheduled for sequential release, starting with the most popular focal lengths.

**Advanced optical designs
coupled with
precise digital control
provide unmatched
image performance**

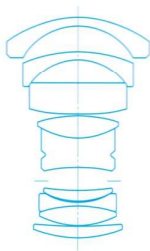


The 45mm and 55mm wide-angle lenses use low-dispersion glass and a built-in floating element for excellent contrast, high resolution and stable optical characteristics from close focusing to infinity. The standard 80mm lens features natural image generation in a compact, lightweight configuration. The telephoto ULD210mm and APO300mm feature a new design that greatly reduces ghosts and flares, and emphasizes high contrast and image fidelity. Other lenses scheduled for released include a wide-angle 35mm, a medium telephoto 150mm, a 55-110mm zoom lens to cover wide-angle to medium telephoto ranges, a 105-210mm telephoto zoom, the MF macro 120mm using AF lens specifications and others. The world's most stringent quality control is applied at each phase of the design and manufacture of these optics — especially for glass material control, polishing and coating — and in the precision machining of metal parts. Mamiya's integrated design and manufacturing facilities have won ISO9001 and ISO9002 certification.

	AF 45mm f/2.8	AF 55mm f/2.8	AF 80mm f/2.8	AF ULD 210mm f/4 IF	AF APO 300mm f/4.5 IF
Optical Construction	9 elements 7 groups	7 elements 6 groups	6 elements 5 groups	7 elements 5 groups	8 elements 8 groups
Angle of view	74°	64°	47°	19°	14°
Minimum aperture	22	22	22	32	32
Diaphragm	Automatic	Automatic	Automatic	Automatic	Automatic
Focusing system	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual
Minimum Focusing distance	45cm	45cm	70cm	200cm	300cm
Maximum magnification ratio	0.13	0.18	0.15	0.13	0.11
Area Covered	310×418mm	226×305mm	279×377mm	332×448mm	371×500mm
Equivalent focal length for 35mm	29mm	34mm	50mm	128mm	182mm
Filter Diameter	67mm	58mm	58mm	58mm	77mm
Lens hood	Bayonet	Bayonet	Bayonet	Built-in	Built-in
Dimensions (length x diameter)	73.5×77mm	65.5×77mm	49.5×77mm	141×86mm	213×99mm
Weight	492g	442g	300g	750g	1,430g (with lens holder)



AF 45mm
f/2.8



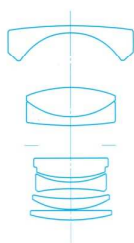
With an angle of view of 74 degrees, this lens is equivalent to a 29mm lens in 35mm format. Its wide angle of view and deep field makes the lens appropriate for any situation, from snapshots to scenics. Low-dispersion glass minimizes chromatic aberration. A floating mechanism lends uniformity to image resolution, from center to periphery. This lens is also suitable to architectural photography and other subjects dominated by straight lines, and it offers sharp and crisp image rendering.





AF 55mm f/2.8

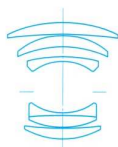
With an angle of view of 64 degrees, this lens is equivalent to a 34mm lens in 35mm format. With minimal perspective change, it produces the most natural image of all the wide-angle lenses. A floating mechanism improves resolution at the periphery in close-ups, for image sharpness all the way out to infinity. This lens is suitable for a wide range of situations, from general photography to scenics. It is designed to provide the feel of a standard lens with a slight wide-angle effect.





AF 80mm f/2.8

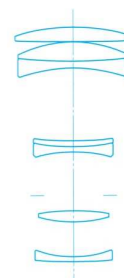
With an angle of view of 47 degrees, this lens is equivalent to a 50mm lens in 35mm format. This is the standard lens for the format, with a field of view approximating natural human sight. It is the most general-purpose lens in the series, and works well in various applications for close or distant subjects. Packing high performance into a compact, lightweight configuration, it is well corrected for distortion, producing a natural, well-balanced image.





AF ULD 210mm f/4 IF

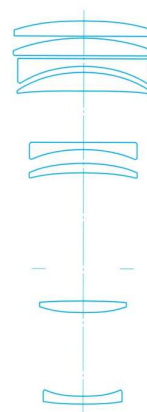
With an angle of view of 19 degrees, this lens is equivalent to a 128mm lens in 35mm format. Its natural focusing effect suppresses the foreshortening typical of telephotos while still isolating the subject. Excellent for a wide range of situations, and particularly for portraits. Super low-dispersion glass assures good contrast even for close-ups. The internal focusing mechanism makes handling easier, with no change in the balance between overall lens length and weight.





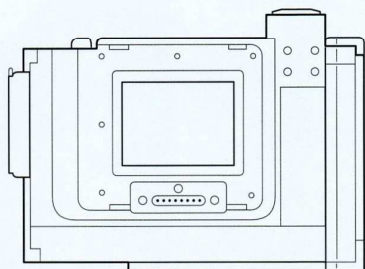
AF APO 300mm
f/4.5 IF

With an angle of view of 14 degrees, this lens is equivalent to a 182mm lens in 35mm format. Superb correction of color and spherical aberration enable a clear, high-contrast image from center to periphery. The APO design lens gives exceptional resolution along with sharp colors and tonal fidelity. The internal focusing mechanism keeps balance uniform from front to back, making this lens extremely easy to handle.

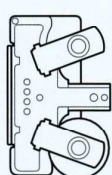


Mamiya 645 System

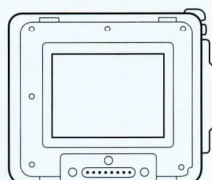
Film Magazines



Polaroid Pack Film Holder HP402



120/220 Roll Film Insert IN401



120/220 Roll Film Holder HM401

Viewfinder Equipment



Eye Correction Lens
DE401

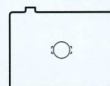


Eye Correction Lens
DE402

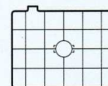


Eye Correction Lens
DE403

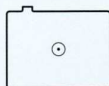
Magnifier
FD402



Finder Screen
Type A (Matte)
SA402



Finder Screen
Type A4 (Checker)
SD402



Finder Screen
Type C (Microprism)

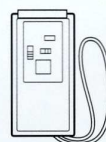
Angle Finder
FA401

Camera Body
Strap

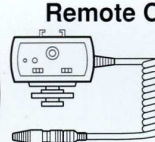


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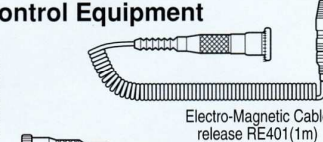
Remote Control Equipment



Remote Control Set
RS402



Electro-Magnetic Cable
release RE401 (1m)

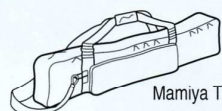


Electro-Magnetic Cable
release RE402 (5m)

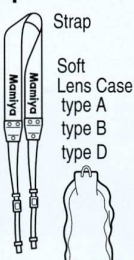
Cases/Strap



Mamiya Aluminum Trunk



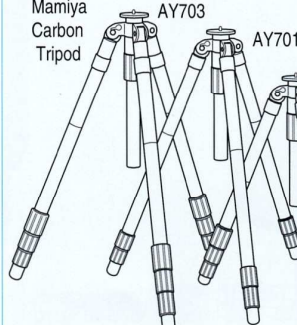
Mamiya Tripod Case



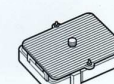
Soft Lens Case
type A
type B
type D

Body Accessories

Mamiya
Carbon
Tripod



Mamiya
Carbon
Monopod
AX701



Quick-shoe AQ701



Tripod Adapter
N for Polaroid
Pack Film Holder



Tripod Adapter
N-2 for Polaroid
Pack Film Holder



Revolving
Tripod Adapter
AT401

Mamiya Aluminum Trunk

Model No.	Outside:W×D×H mm	Weight kg
	Inside:W×D×H mm	
KM705	460×344×160	3.7
	440×325×100	
KM706	502×371×183	4.9
	470×350×115	
KM707	615×371×183	5.7
	580×350×115	

Specifications	Carbon Tripods			Carbon Monopod
	AY701	AY702	AY703	AX701
Length extended (25-degree leg spread)	1,445mm	1,486mm	1,944mm	1,500mm
Length folded	599mm	490mm	660mm	500mm
Sections	3 steps	4 steps	4 steps	4 steps
Segment diameter(Top leg)	27mm	27mm	31mm	27mm
Leg spread angles	25°·60°·80°*			—
Weight	1,580g	1,490g	2,120g	370g
Platform screws	1/4-inch and 3/8-inch			—

*Optional Short Center Pole is required for 80-degree leg spread
Specifications and features subjects to change without notice.

Specifications	Magnesium Pin Head AW701	Magnesium Ball Head AW702
	Type	2 handle 3 way
Camera plate	86×55mm	63×35mm
Base plate	51mm	44mm
Diameter of ball	—	φ30mm
Height	110mm	81mm
Weight	620g	160g

Close-up Equipment

Auto Bellows NC401
(with Reverse Ring)



Auto Extension
Ring NA401



Auto Extension
Ring NA402

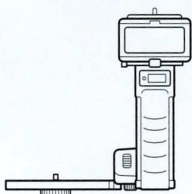


Auto Extension
Ring NA403

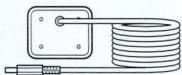
Flash Equipment



SCA 3951 Adapter

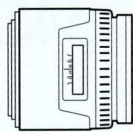


External Power Equipment

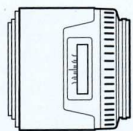


External Battery Case PE401

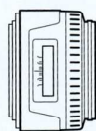
Lenses



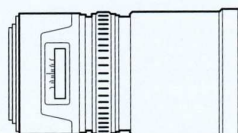
AF 45mm f/2.8



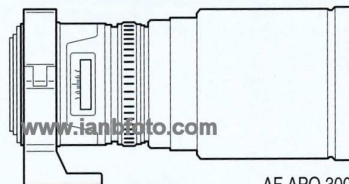
AF 55mm f/2.8



AF 80mm f/2.8



AF ULD 210mm f/4 IF



AF APO 300mm f/4.5 IF

AF 35mm f/3.5

AF 150mm f/2.8 IF

AF 55-110mm f/4.5

AF 105-210mm f/4.5

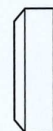
MF Macro 120mm f/4

2X Tele-converter

Hoods



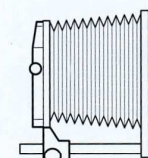
for
45mm
f/2.8



for
55mm
f/2.8



for
80mm
f/2.8

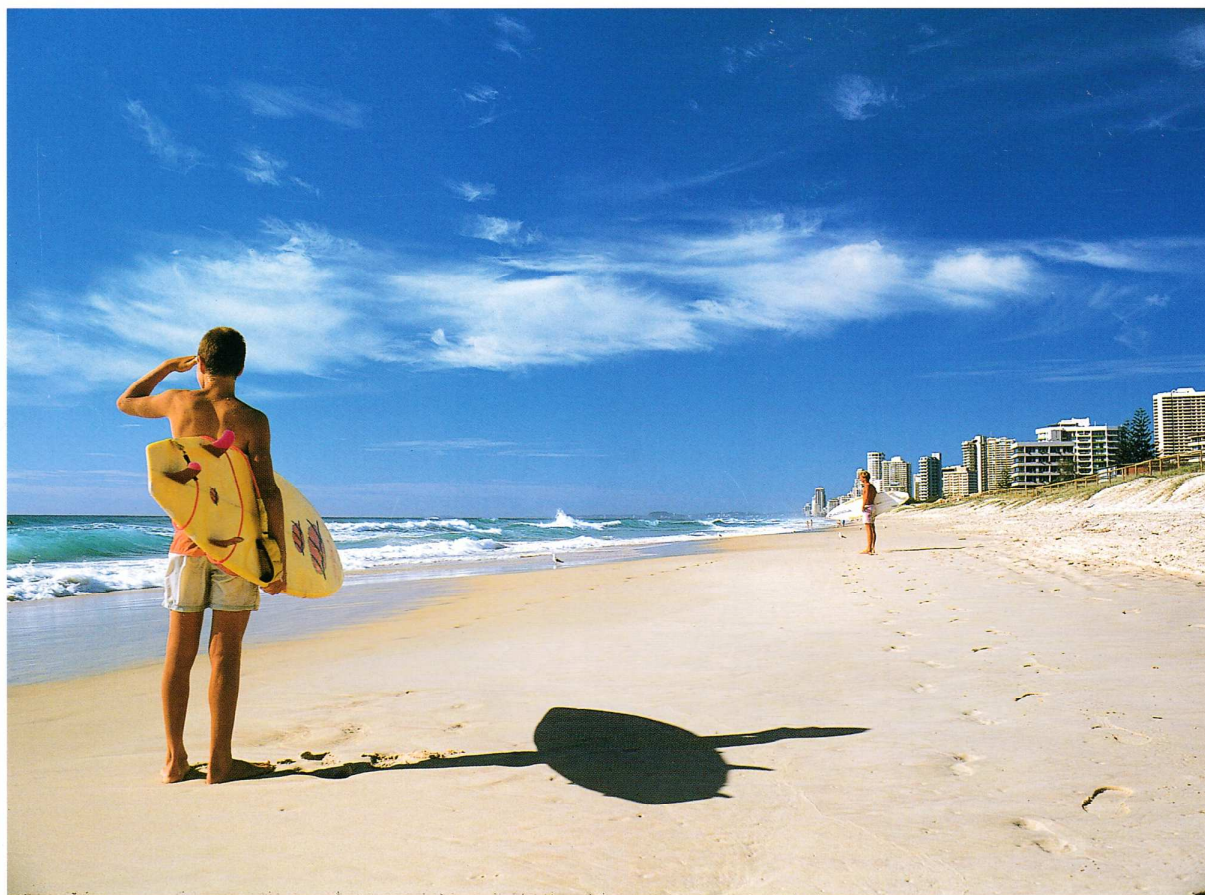


Bellows Lens Hood

Interchangeable lens and film magazine systems expand system capability. Mamiya 645 NON-AF Series lenses are compatible with Focus Aid, in manual mode. Attaching an optionally available viewfinder screen enables use of spot or average metering in AE modes and stopped down metering.

□ Under development

Mamiya 645^{AF}



AF 45mm f/2.8

Printed in Japan

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