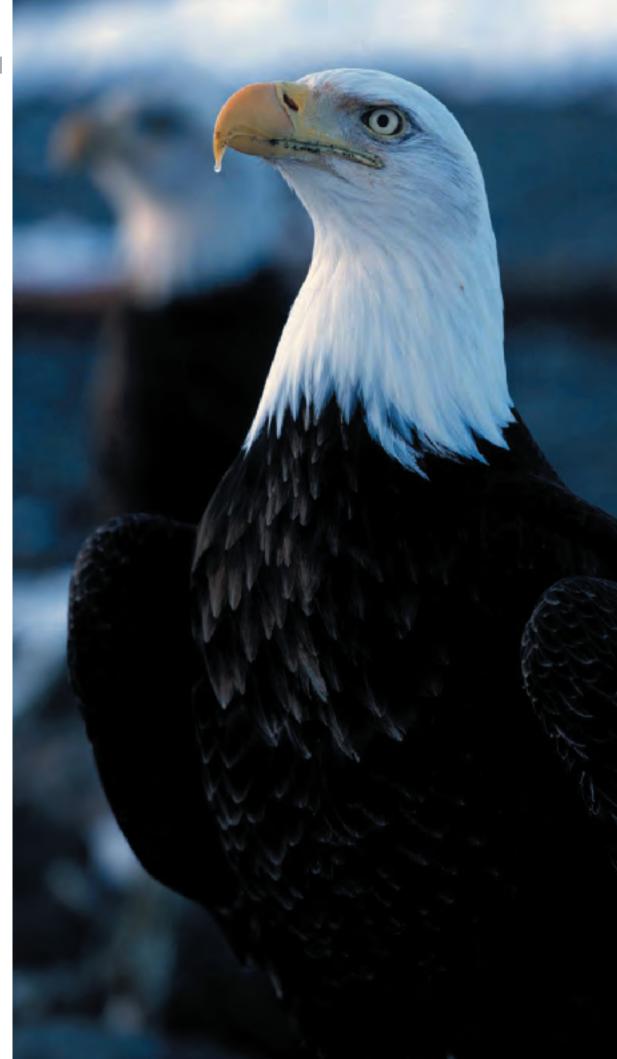
Mamiya



Mamiya





The NEW 645AFDII. Evolve to a new standard of performance and perfection, film or digital.

Mamiya pioneered the 645 SLR system camera in 1975 and has become recognized as the world leader in the medium format field. Always striving for perfection, the new Mamiya 645AFDII medium format SLR offers improved performance and an extensive choice of convenient features that seamlessly supports film or digital capture, making it easy to have one camera system for both. Committed to the professional photographer, Mamiya offers the latest advanced camera features without locking the photographer into a single photographic medium. Responding to the demands of medium format shooters, Mamiya has incorporated the latest auto focus technology in the 645AFDII. In addition to a faster more responsive focus system, it also includes MSC (Mamiya Serial Communication) that provides data exchange from the 645AFDII and a compatible digital back. Additional features such as multi-point evaluative metering, TTL flash control and compensation, 36 custom functions and more, redefine what a medium format camera is today.

The Mamiya 645AFDII combines sophisticated advanced features, integrated microprocessor controlled electronics, improved performance and the quality of medium format film or digital capture with the power of proven world-class AF lenses.



645AFDII

■ A perfect blend of proven engineering and intelligent design, the new 645AFDII puts the power of creative potential in the hands of today 's professional



Eight exposure modes to complement every photographic need.

Eight exposure modes

With a turn of the exposure mode dial, choose the best suited mode for the composition. Select from five different AE (Auto Exposure) modes (P) Program, (PH) Program High (PL) Program Low, (Av) Aperture-priority, (Tv) Shutter-speed priority or three manual modes (M) Manual, (B) Bulb for long exposures, (X) (1/125 sec.),

Capture every lighting scenario with the control of multi metering modes.

Multi metering modes

Selecting the correct metering mode can make the difference between a great image or a lost moment. Offering 3 metering modes, the 645AFDII adapts to every lighting condition. Choose from (A) Center-Weighted/Average metering, (S) Spot metering or (A-S AUTO) Variable ratio metering mode.

Capture moments faster than the naked eye. High speed 1/4000-sec shutter speed The vertical-travel metal focal plane shutter

provides an impressive maximum shutter speed of 1/4000 second allowing photographers to employ creative shooting techniques such as soft-focus portraits using wide apertures, to razor-sharp images of very fast-moving subjects. Flash synchronization speeds up to 1/125 sec. provide the control necessary to balance ambient and flash exposures.

Always ready for the next moment Automatic film advance

The 645AFDII is the only auto-focus medium format camera to have first frame auto-detection. Faster and easier film loading along with precision frame spacing offers the necessary performance required in the studio or on location.

One-touch variable exposure control **Auto bracketing function**

Stop wondering if you captured the perfect exposure. With Auto bracket mode, complex lighting conditions are easily handled. Whether you're shooting the narrow latitude of transparency film or digital capture, proper exposure is within your control. The 645AFDII automatically makes three consecutive exposures, one under, one over and the normal metered value so you can select the order and compensation value quick and conveniently.

Exposure data recorded for every image Exposure data imprinting

Important exposure information such as exposure mode, aperture, shutter speed, exposure compensation, index number and more can all be imprinted on the film's outer edge. Referring back to previous exposure data is quick and manageable.

Critical data at a glance Three Digital Displays

Three conveniently located screens, display all necessary camera functions, mode, exposure data and settings. Two external LCD panels illuminate for low light conditions. An additional LCD panel located in the viewfinder shows all shooting data.

Enhanced precision and performance Faster Auto Focus Technology

The 645AFDII features a selectable faster focusing TTL phase difference detection AF system. A new highly sensitive I+I shaped CCD sensor covers a wider focus area offering increased accuracy and focus control.

Sophisticated TTL Flash control TTL Flash Control

The 645AFDII incorporates automated TTL / OTF (through-the-lens/off-the-film) flash exposure control. Advanced features such as flash-ready indicator, flash compensation, AF measuring beam and auto flash synchronization are among the many functions available on the 645AFDII.

Meets every imaging need, Film or Digital.... Interchangeable digital or film back

The 645AFDII offers the conveniences of film or digital capture. Advanced features such MSC (Mamiya Serial Communication) data interface and mid-roll film changes offer today's professional the greatest flexibility in the field.

Rugged, lightweight and durable Die-cast aluminum alloy body and film back

The 645AFDII is built on a solid die-cast body made from lightweight, high-strength aluminum alloy. Exceptional precision computer aided machining assures reliable, durable performance even under the harshest working conditions.

User selectable features and settings 36 Custom functions

The 645AFDII features selectable custom settings to accommodate individual shooting needs and styles. Quick and easy custom functions can be modified as your shooting needs change.

Custom Function No. The CF (Custom Function No. The CF (Custom Functions) Aperture of Shuffer speed steps Aperture of Shuffer speed steps Aperture and shuffer speeds can be set for 1/2 or 1/3 step increments Plant and ambient exposure compensation steps Plant and ambient exposure compensation steps are selectable, v-1/3, 1/2, 2/3, 1 EV Aperture setting after tens change Data imprinting on 120/220 film. Select exposure data and index number, date and index number, index number only or no imprinting. Aperture setting after tens change 1 aperture setting after a set aperture setting after a set aperture setting and set aperture setting and set aperture setting and set aperture setting and set aperture or shutter speed value 1 aperture setting and setting and setting and setting and setting and setting and visa versa 1 aperture setting and setting aperture setting to shuffer aperture setting and situate setting and visa versa 1 appears and setting and setting appears and shuffer speeds can increase or decrease depending on selected dial direction. 1 appears a setting and setting appears and shuffer speeds can increase or decrease depending on selected dial direction. 2 appears a setting appears and shuffer speeds an increase or decrease depending on selected dial direction. 3 appears a setting appears and shuffer speeds and i		Custom Function List	
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Changes how to lock or unlock Auto Exposure value Changes how to display focus status. Select On, off or only in manual focus mode. Changes how to display focus status. Select On, off or only in manual focus mode. Exposure difference in M-mode Metered value difference as compared to Manual value can be displayed on or off. Mode one-push setting Auto exposure over-ride correction can be set to shift shutter speed, aperture or none. Bulb time can be set for 1min to 60mins or unlimited Bulb exposure time setting Bulb exposure shutter release can be set to continue hold and release or pressing the shutter release twice. X-mode shutter speed in M-mode Select default flash sync speed from 1/125 to 1/40 in X-Mode. Select default flash sync speed from 1/125 to 1/40 in X-Mode. Automatic sync speed setting Select default flash sync shutter speed for dedicated 4545AFDII flash units. Select 1/125 and slower or 1/60 to 1/125 range in AV or Program mode. TIL flash compensation mode TIL Flash and Ambient exposure compensation setting. Choose independent or combined correction. Select enable or disable Auto Focus measuring beam. Copy custom function Copy custom function profile Select enable or disable Auto Focus measuring beam. Select merent user profile to factory default setting Sulter release without film Enabling and Disabling shutter release with or without film loaded in the film back door Auto film loading setting Auto film loading setting Auto film loading setting Auto film loading set stude of the correct setting. Auto film loading setting Auto film loading set set the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change.	17	AEL & AFL function button exchange	Switches Auto Focus Lock and Auto Exposure Lock button from front button to rear button and visa versa.
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Auto exposure over-ride correction can be set to shift shutter speed, aperture or none. Bulb exposure time setting Bulb time can be set for 1 min to 60mins or unlimited Bulb exposure shutter release can be set to continue hold and release or pressing the shutter release twice. Select default flash sync speed from 1/125 to 1/40 in X-Mode. Automatic sync speed setting Select default flash sync shutter speed in M-mode Select default flash sync shutter speed for dedicated 645AFDII flash units. Select 1/125 and slower or 1/60 to 1/125 range in AV or Program mode. TTL flash and Ambient exposure compensation setting. Choose independent or combined correction. Fruit flash setting Select enable or disable Auto Focus measuring beam. Copy custom function Copy custom function profile Coustom function reset Resets the current user profile to factory default setting Sulter release without film Frabling and Disabling shutter release with or without film loaded in the film back Auto film loading setting Auto film loading is activated by either the shutter release or closing the film back door Multi-exposure mode Multi-exposure mode and eactivated by a set number of exposures or by manually turning the mode on/off. Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change.	20	Focus indicator selection	Changes how to display focus status. Select On, off or only in manual focus mode.
Bulb time can be set for 1 min to 60mins or unlimited Bulb synosure shutter release and be set to continue hold and release or pressing the shutter release twice. S	21	Exposure difference in M-mode	Metered value difference as compared to Manual value can be displayed on or off.
Bulb exposure shutter release can be set to continue hold and release or pressing the shutter release twice. Select default flash sync speed from 1/125 to 1/40 in X-Mode. Automatic sync speed in M-mode Select default flash sync speed from edicated 645AFDII flash units. Select 1/125 and slower or 1/60 to 1/125 range in AV or Program mode. TIL flash compensation mode TTL Flash and Ambient exposure compensation setting. Choose independent or combined correction. Select enable or disable Auto Focus measuring beam. Copy custom function Copy custom function profile Custom function reset Resets the current user profile to factory default setting Auto film loading set set he current user profile to a set number of exposures or by manually turning the mode on/off. Automatically sets the correct custom function the camera detects a digital back. Choose up to 3 different CF settings or no settings change. Sets the internal clock and calendar to the correct setting.	22	M mode one-push setting	Auto exposure over-ride correction can be set to shift shutter speed, aperture or none.
Select default flash sync speed from 1/125 to 1/40 in X-Mode. Automatic sync speed setting Select default flash sync shutter speed for dedicated 645AFDII flash units. Select 1/125 and slower or 1/60 to 1/125 range in AV or Program mode. TTL flash compensation mode TTL Flash and Ambient exposure compensation setting. Choose independent or combined correction. Select enable or disable Auto Focus measuring beam. Copy custom function Copy custom function profile Coustom function reset Resets the current user profile to factory default setting Auto film loading setting Auto film loading setting Auto film loading setting Multi-exposure mode and be activated by either the shutter release or closing the film back door Multi-exposure mode and be activated by a set number of exposures or by manually turning the mode on/off. Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change.	23	Bulb exposure time setting	Bulb time can be set for 1min to 60mins or unlimited
Select default flash sync speed setting Select default flash sync shutter speed for dedicated 645AFDII flash units. Select 1/125 and slower or 1/60 to 1/125 range in AV or Program mode. TTL flash compensation mode TTL Flash and Ambient exposure compensation setting. Choose independent or combined correction. Select enable or disable Auto Focus measuring beam. Copy custom function Copy custom function profile Copy custom function reset Resets the current user profile to factory default setting Shutter release without film Enabling and Disabling shutter release with or without film loaded in the film back Auto film loading setting Auto film loading setting Auto film loading setting Auto film loading set propose on the set of exposure mode Multi-exposure mode and be activated by a set number of exposures or by manually turning the mode on/off. Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change.	24	Bulb shutter release setting	Bulb exposure shutter release can be set to continue hold and release or pressing the shutter release twice.
TTL flash compensation mode TTL Flash and Ambient exposure compensation setting. Choose independent or combined correction. RF beam setting Select enable or disable Auto Focus measuring beam. Copy custom function Copy custom function profile Resets the current user profile to factory default setting Shutter release without film Enabling and Disabling shutter release with or without film loaded in the film back Auto film loading setting Auto film loading setting Multiple exposure mode Multi-exposure mode Digital back CF configuration Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change. Sets the internal clock and calendar to the correct setting.	25	X-mode shutter speed in M-mode	
28 AF beam setting Select enable or disable Auto Focus measuring beam. 29 Copy custom function 30 Custom function reset Resets the current user profile to factory default setting 31 Shutter release without film 53 Enabling and Disabling shutter release with or without film loaded in the film back 32 Auto film loading setting 33 Auto film loading setting 43 Auto film loading setting 54 Auto film loading setting 55 Multi-exposure mode 56 Multi-exposure mode and be activated by a set number of exposures or by manually turning the mode on/off. 36 Auto film loading setting 48 Digital back CF configuration 48 Digital back CF configuration 48 Sets the internal clock and calendar to the correct setting.	26	Automatic sync speed setting	Select default flash sync shutter speed for dedicated 645AFDII flash units. Select 1/125 and slower or 1/60 to 1/125 range in AV or Program mode.
29 Copy custom function Copy custom function profile 30 Custom function reset Resets the current user profile to factory default setting 31 Shutter release without film Enabling and Disabling shutter release with or without film loaded in the film back 32 Auto film loading setting Auto film loading is activated by either the shutter release or closing the film back door 33 Multiple exposure mode Multi-exposure mode can be activated by a set number of exposures or by manually turning the mode on/off. 34 Digital back CF configuration Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change. 35 Clock/Calendar setting Sets the internal clock and calendar to the correct setting.	27	TTL flash compensation mode	TTL Flash and Ambient exposure compensation setting. Choose independent or combined correction.
30 Custom function reset Resets the current user profile to factory default setting 31 Shutter release without film Enabling and Disabling shutter release with or without film loaded in the film back 32 Auto film loading setting Auto film loading set in back door Multi-exposure mode Multi-exposure mode can be activated by a set number of exposures or by manually turning the mode on/off. Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change. 35 Clock/Calendar setting Sets the internal clock and calendar to the correct setting.	28	AF beam setting	Select enable or disable Auto Focus measuring beam.
Shutter release without film Enabling and Disabling shutter release with or without film loaded in the film back Auto film loading setting Auto film loading is activated by either the shutter release or closing the film back door Multiple exposure mode Shuttiple exposure of exposures or by manually turning the mode on/off. Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change. Sets the internal clock and calendar to the correct setting.	29	Copy custom function	Copy custom function profile
32 Auto film loading setting Auto film loading setting Auto film loading settivated by either the shutter release or closing the film back door 33 Multiple exposure mode Multi-exposure mode can be activated by a set number of exposures or by manually turning the mode on/off. 4 Digital back CF configuration Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change. 35 Clock/Calendar setting Sets the internal clock and calendar to the correct setting.	30	Custom function reset	Resets the current user profile to factory default setting
Multi-exposure mode Multi-exposure mode can be activated by a set number of exposures or by manually turning the mode on/off. Multi-exposure mode can be activated by a set number of exposures or by manually turning the mode on/off. Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change. Sets the internal clock and calendar to the correct setting.	_		
34 Digital back CF configuration Automatically sets the correct custom function set, when the camera detects a digital back. Choose up to 3 different CF settings or no settings change. 35 Clock/Calendar setting Sets the internal clock and calendar to the correct setting.	32	Auto film loading setting	
35 Clock/Calendar setting Sets the internal clock and calendar to the correct setting.			
		<u> </u>	, , , , , , , , , , , , , , , , , , , ,
36 Index setting Select what numerical value to start the indexing numbering at.			
	36	Index setting	Select what numerical value to start the indexing numbering at.

- Elegantly designed yet practically conceived for seamless integration with film and digital capture
- The best of both worlds, film and digital

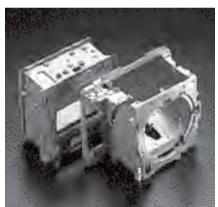


Magnesium Alloy viewfinder cover

The 645AFDII incorporates the finest materials borrowed from it's predecessor the 645AF. Utilizing a magnesium alloy cover ensures that the prism and digital circuitry of the viewfinder are protected. 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 and timeless look for today's medium format SLR.

Meeting the needs of professionals Interchangeable film and Digital back system

Interchangeable film and digital backs offer today's professional a quick, convenient and economical choice of how they capture their image. It also offers them the greatest flexibility to provide what the client needs on demand with the same quality they expect.

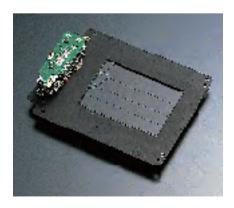


Die-cast aluminum body and film back

The body shell is die-cast from a lightweight, high-strength aluminum allov.

Exceptional precision in machining assures reliable, durable performance even under the harshest working conditions.





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 1/125sec. which enables effective application of daylight synchronization and other flash techniques. When the film back is removed, a protective mechanism automatically opens the shutter, and closes it again when the back is replaced, to prevent accidental damage to the shutter.



Designed for safe, trouble-free operation

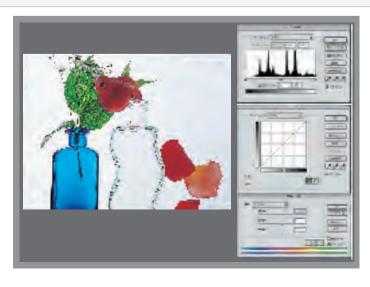
Full digital controls and self-diagnostic circuitry eliminate problems before they happen. In the event of incorrect settings or battery trouble, the shutter release locks to protect accidental exposure.



120/220 roll film back

The film back incorporates a microprocessor that communicates with the camera body and includes an LCD panel with ISO setting buttons. It also features an integral winding motor for smooth quick film winding. The LCD shows film speed, film type, and number of exposures at the touch of a button. A backlight and backup battery even lets the photographer view information when the back 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. An easy loading feature automatically advances film to the first frame when the film back door is closed or the shutter release is activated depending on Custom Function settings. Film winding automatically activates at the end of 16 frames (120 film) or 32 frames (220 film). In addition, mid-roll winding is possible by pressing the rewind button on the film back.







Polaroid film back

Polaroid film enables previewing of images. Simply replace the film back 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. The image size is 6 x 4.5cm (Actual image size: 56 x 41.5mm), and the back 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-2 is required when the camera is mounted on a tripod.

Full integration for digital capture

The 645AFDII offers advanced microprocessor technology for traditional film capture, while offering MSC (Mamiya Serial Communication) data exchange of all camera functions to and from the digital capture backs. Utilizing the same camera body for film and digital capture offers the greatest flexibility for any photographic application. (Please inquire for compatible digital backs)

■ Faster, precise, enhanced performance





Focus Area

Fast, highly precise auto focus

The Mamiya 645ÅFDII auto focus system operates on a TTL based phase difference detection technology. A high-sensitivity I+I shaped CCD covers a wider focus area to assure precise plane-of-focus even for subjects incorporating vertical and horizontal lines. The focus area can be switched to normal or spot focus selection.



A choice of focus modes to suit the subject

AF mode switch lever

Single AF Mode (S)

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

Continuous AF Mode (C)

This mode continually adjusts focus even while the shutter release button is being half-pressed. It is best for moving subjects; focus is not locked even when the focus mark lights.

Manual Focus Mode (M)

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



Three metering modes provide detailed information about lighting conditions

Metering mode selector

(A) Center-Weighted Averaged Metering

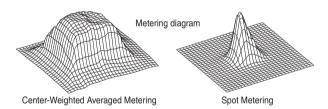
This mode meters the average reflected brightness of the entire image, with emphasis on the center of the screen.

(S) Spot Metering

This mode meters reflected light on the image at a specific point, indicated by the circle at the center of the focusing 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.



*The metering mode selector can be locked in every position.



Auto-Focus
Infrared AF Assist Beam

The Mamiya 645AFDII is a medium format autofocus camera with a built-in auto-focus assist beam. It goes into effect automatically under poor light and low subject contrast conditions. For sensitive situations such as political events, the AF sub-beam is switchable on/off.

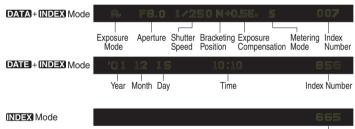
Real-time communication and data imprinting



Exposure data imprinting records vital information

Apply data imprinting to generate a record of exposure data outside the image area. 3 modes are selectable. DATA mode imprints exposure mode, aperture value, shutter speed, exposure compensation value, bracketing position, metering mode, index (frame) number. DATE mode records year, month, day, and time, along with an index number.

INDEX mode records 3-digit index numbers from 001 to 999. Index numbers are stored in the camera's memory, and not cleared when a film back is removed. This allows easier record keeping and shoot management when a large number of images are created.





Quick and convenient Custom function settings and modification

FUNCTION key, SET button

Customized functions are set by turning the exposure mode dial to the CF position and selecting the desired custom function with the front dial. Activating or modifying a function is made with the rear dial. Alphabetical letters "A, B, C" represent the storage areas where the user can save their customized settings. CF numbers and corresponding contents are displayed in the shutter speed area of the LCD; the aperture area of the panel displays contents to be set, and the exposure compensation area displays numbers representing the customized contents. Default settings or other CF selections can be copied and or recalled by pressing the "SET" button 1 second.

LCD panels show exposure conditions and camera settings at a glance

A digital data communication system makes it possible to see all information on the body, viewfinder, and film back LCD panels.

The viewfinder display shows information about current exposure conditions. The body and film back displays show current settings and selections, all in an easy-to-understand intuitive format.

External LCD panels on the camera body and film back are illuminated by pressing the * Back Light key or selecting continuous illumination during metering mode via the Custom Functions settings.

■ Viewfinder LCD panel

OS •• • • • REXISTER GRADE 2 3 4 5 7 5 8 6

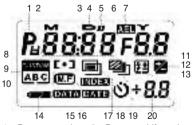
Index Number

- : Metering mode (A, S, Auto A-S)
- 2 : AF indicator
- (focus point further away, focused, focus point too close)
- Camera 's warning mark
- (ex. improper insertion of dark slide) : Exposure mode (program shift mark)
- : AEL mark (AE lock indicator)
- : Shutter speed
- : Aperture value : Exposure compensation value
- : AEL, multiple exposure mark
- 10: Flash sync mark (flash compensation mark)
- * Indicates -no- when dark slide is inserted

■ Film back LCD Panel



■ External LCD Panel



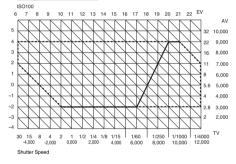
- 2 : Program shift mark 1 : Program mark
- 3 : Time mark (for clock setting)
- 4 : M, D, Y mark (for date setting)
- 5 : Seconds mark (for shutter speed)
- 6 : F indicator (for identification of F value)
- : AEL mark (AE lock indicator)
- 8 : Shutter speed 9 : Custom function mark
- 10: AF area mark 11: Aperture value
- 12: Exposure compensation mark
- 13: Flash compensation value
- 14: Battery power mark
- 15: Imprinting mode (date, data, index)
- 16: Manual focus mark
- 17: Multiple exposure mark
- 18: Self-timer mark
- 19: Auto bracketing mark
- 20: Exposure compensation value
- * Indicates -no- when dark slide is insesrted

Less constraints, more freedom in exposure selection

(P) Program AE Mode

This mode automatically determines optimal exposure settings, using preprogrammed aperture and shutter values to ensure exposure accuracy under ambient lighting. This mode is ideal for general photography without the need to make adjustments.

Program Shift Chart



(Av) Aperture Priority AE Mode

This mode emphasizes the depth-offield effect of aperture setting on the image.

Simply adjust the 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 1/3 or 1/2 steps. Depth-offield is checked in the viewfinder by pressing the preview button, in each AE mode.

(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. Shutter speed values can be set in 1/3 or 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 1/3 or 1/2 steps.

The difference between the set value and metered value are displayed on the viewfinder LCD panel. Pressing the AEL button for 1 second will display the shutter speed resulting from the metered value.

The adjustment range is +/-6EV, displayed in 1/3 steps (x.3/ x.7/ x.0). In Manual Bulb mode (electronically controlled) extended time exposure is possible.

(X) X Mode

This mode locks the shutter speed at the maximum sync speed of 1/125sec. In this position, rotating the dial will not change the shutter speed. Maximum sync. speed can be adjusted with Custom Functions.



■ Ensuring perfect image capture with precision automated exposure control

Auto bracketing for one touch exposure control

Auto bracketing is effective under complex lighting conditions when determining proper exposure settings is difficult, or for shooting with narrow latitude slide films or digital capture. It can be set for 2 to 3 shots per sequence, with normal (metered value), under (minus) and over (plus) exposure adjustment. Changing the order of the exposure adjustment is easily selected through the CF mode. The exposure increments can be preset to 0.3, 0.5, 0.7, or 1EV, and auto-bracketing can also be used in combination with the +/-3EV exposure compensation function. Settings are possible in Manual (M) Mode and in any AE mode.







+/-3EV exposure compensation

The 645AFDII offers exposure compensation to provide photographers with the ability to enhance creativity. In electronic dial position , adjustments can be made with the rear dials. In electronic dial position, compensation values can be adjusted in 1/3, 1/2, 2/3 and 1/EV.







■ TTL flash metering and lighting control



TTL flash sensor measures flash exposure off the film plane

Sophisticated TTL Flash Control

The Mamiya 645AFDII incorporates automated TTL-OTF (through the lens/off-the-film) flash control, with an X-sync hot shoe and dedicated circuitry.

The flash system is compatible with the Metz SCA3002 System, which provides exceptional flash control. Using a Metz flash with the SCA3952 adapter enables transfer of aperture, film speed and other data for automated synchronization as well as a power zoom control link and automatic operation of the Auto Focus measuring beam.

In AE modes "AV" and "P", the shutter speed is automatically set to 1/125sec. or slower.

All this technology provides versatile flash photography capability. Furthermore, the SET button allows individual exposure compensation of flash and ambient light.

Recommended flashguns: Metz Mecablitz 70MZ-5, 54MZ-4i

Advanced Flash Features

- Flash-ready indicator in camera viewfinder
- Correct exposure confirmation in viewfinder
- Auto flash sync speed control (only in P and Av mode)
- TTL flash control
- Cordless TTL with Metz compatible flash units
- Motor zoom control
- AF assist beam control
- Auto Transfer of ISO
- Auto Transfer of lens aperture
- Flash compensation +/-3EV
- Flash bracketing in flash auto mode with compatible Metz flash unit
- Program auto flash mode
- Exposure compensation transfer
- Wake-up function for camera/flash

Note: Some Metz flash units do not support all features.



Flash status viewfinder display

When the flash unit is connected and achieves full power, the viewfinder LCD displays the flash charge mark. This symbol flashes after each shot to indicate that the flash made a correct exposure.

*When using the SCA3952 adapter



Performance in every detail of photography



AF 35mm f/3.5

One-touch multiple exposure activation

Enter Multi Exposure Mode by pressing the dedicated button, then set the desired number of exposures in a range of 2 to 6 with the digital control dial. Digital cancellation of film winding assures precise registration of multiple images on a single frame.

Self-timer

The SET button can be used to change the initial default self-timer setting of 10 seconds to a value in the range of 2 to 60 seconds.

Settings can be made in 1-second steps from 2 to 10 seconds, and in 10-second steps for settings longer than 10 seconds.

Preview Depth of Field

Hold down the preview button to stop down the lens to the working aperture. Preview can be used in all exposure modes.

Mirror Up

The 645AFDII is designed and engineered to minimize mirror vibration. The Mirror Up function eliminates the shock entirely during tripod-mounted slow speed, macro or multiple exposures. Use AE lock or manual settings in this mode.

Diopter adjusts Viewfinder to Vision

The built-in diopter enables adjustment of the viewfinder image to suit individual vision. 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 back light entering through the eyepiece and affecting exposure values.

Electronic Shutter and Remote Triggering Connection

For long exposures such as bulb or slow shutter speeds, use of the electronic shutter release cable avoids camera vibration

(Available cord length in 1m (3ft.) or 5m (17ft.). Wireless remote triggering possible with radio triggering system)

Interchangeable Focusing Screens

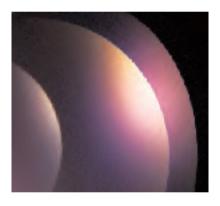
Select the viewfinder screen that suits your particular photographic needs. Each screen comes with a tweezers for safe, quick and easy installation.

Powered by AA-size Batteries

The Mamiya 645AFDII is powered by six easily obtainable AA-size batteries, and can also use low temperature resistant, long-life lithium batteries. Batteries are housed in the grip.

■ Advanced optical designs coupled with precise digital control provide unmatched image quality

Optical performance is the key to creating images of unmatched clarity and precision. The new system of interchangeable lenses for the 645AFDII offers 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 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.



AF 35mm f/3.

Wide Angle





AF 35mm f/3.5

With an angle of view of 90 degrees, this is a wide-angle lens approximately equivalent to a 20mm lens in 35mm format. The built-in floating mechanism provides the photographer with the ability to obtain images with high contrast and quality, from infinity to 14" minimum focusing distance. This lens is perfect for landscapes where maximum depth-of-field is required. Furthermore, the lens itself is equipped with an Auto/Manual focus switching ring, allowing one-touch selection of Auto or Manual focus.

	AF 35mm f/3.5	AF 45mm f/2.8	AF 55mm f/2.8	AF 80mm f/2. 8
Optical Construction	9 elements 7 groups	9 elements 7 groups	7 elements 6 groups	6 elements 5 groups
Angle of View	90 degrees	74 degrees	64 degrees	47 degrees
Minimum aperture	22	22	22	22
Diaphragm	Automatic	Automatic	Automatic	Automatic
Focusing System	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Minimum Focusing Distance	35cm	45cm	45cm	70cm
Maximum Magnification Ratio	0.156	0.13	0.18	0.15
Area Covered	274X375mm	310X418mm	226X305mm	279X377mm
Equivalent Focal Length for 35mm	22mm	29mm	34mm	50mm
Filter Diameter	77mm	67mm	58mm	58mm
Lens Hood	Bayonet	Bayonet	Bayonet	Bayonet
Dimensions (length x diameter)	62X84mm	73.5×77mm	65.5X77mm	49.5×77mm
Weight	480g(17oz.)	495g(17.5oz.)	445g(15.7oz.)	300g(10.6oz.)



AF 55mm f/2.8

AF 45mm f/2.8

With an angle of view of 74 degrees, this lens is approximately equivalent to a 29mm lens in 35mm format.

Its wide angle-of-view and depth-of-field make 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 approximately equivalent to a 35mm 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 closeups, 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 150mm f/3.5	AF ULD 210mm f/4 IF	AF APO 300mm f/4.5 IF	Zoom AF 55-110mm f/4.5	Zoom AF ULD 105-210mm f/4.5	Macro MF 120mm f/4
5 elements 5 groups	7 elements 5 groups	8 elements 8 groups	11 elements 10 groups	13 elements 11 groups	9 elements 8 groups
26 degrees	19 degrees	14 degrees	65 ~ 35 degrees	36 ~ 19 degrees	33 degrees
32	32	32	32	32	32
Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Manual
150cm	200cm	300cm	150cm	150cm	40cm
0.12	0.13	0.11	0.04 ~ 0.08	0.09 ~ 0.18	1.00
341×461mm	332×448mm	371×500mm	55mm→986X1331mm 110mm→520X702mm	105mm→441X595mm 210mm→230X312mm	42×56mm
93mm	128mm	182mm	34 ~ 68mm	65 ~ 130mm	73mm
58mm	58mm	77mm	67mm	58mm	67mm
Bayonet	Built-in	Built-in	Bayonet	Bayonet	Bayonet
80.5X79mm	141X86mm	213×99mm	110×86.5mm	158×82mm	111X83mm
540g(19oz.)	750g(26.5oz.)	1,430g (50.4oz.) (with lens holder)	870g(30.7oz.)	990g (35oz.)	845g(30oz.)



AF 150mm f/3.5

Standard & Telephoto

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 150mm f/3.5

This medium telephoto lens has a 26 degree angle of view, approximately equivalent to a 93mm lens in the 35mm format, a focal length perfect for portraits or scenery combined with a compact configuration for general versatility. This is the first AF medium telephoto lens that offers a quick select ring for auto or manual focus. The ring does not rotate in AF mode, to assure focusing accuracy.







AF APO 300mm f/4.5 IF



AF ULD 210mm f/4 IF

With an angle of view of 19 degrees, this lens is approximately equivalent to a 128mm lens in 35mm format. Its natural focusing effect suppresses the compression 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 approximately equivalent to a 182mm lens in 35mm format.

Superb correction of color and spherical aberration enables 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.



Zoom AF ULD 105-210mm f/4.5



Zoom AF 55-110mm f/4.5

Zoom & Macro

Zoom AF 55-110mm f/4.5

With an angle-of-view ranging from 65 to 35 degrees, combined with auto-focused and zoom capability, this lens can serve triple duty over the focal lengths of wide/normal/portrait and is equivalent to 34-68mm in the 35mm format. Internal focusing eliminates the risk of vignetting when combined with front-element filters, and a unique "flower" design lens hood prevents stray reflections from striking the lens surface.



Zoom AF ULD 105-210mm f/4.5

With an angle-of-view ranging from 36 to 19 degrees, equivalent to the 65-130mm focal lengths in the 35mm format, this medium-telephoto zoom lens has the reach to capture distant subjects and the versatility to work in close when needed. It is an ideal choice for all-purpose photography. Low dispersion glass lens elements provides excellent resolution of fine detail. The internal focusing mechanism allows use of front filters with no degradation of image quality.



Macro MF 120mm f/4



Macro MF 120mm f/4

With an angle-of-view of 33 degrees this versatile lens offers the perspective of a 73mm focal length in the 35mm format, ideal for portraiture, landscapes or general photography. Pinpoint sharpness with manual focus is assured from infinity to 1:1 magnification by a green diode in the finder providing focus confirmation.

Lens elements of anomalous dispersion glass equalling APO lens performance in terms of contrast, resolution and correction of color aberrations are utilized for superior image

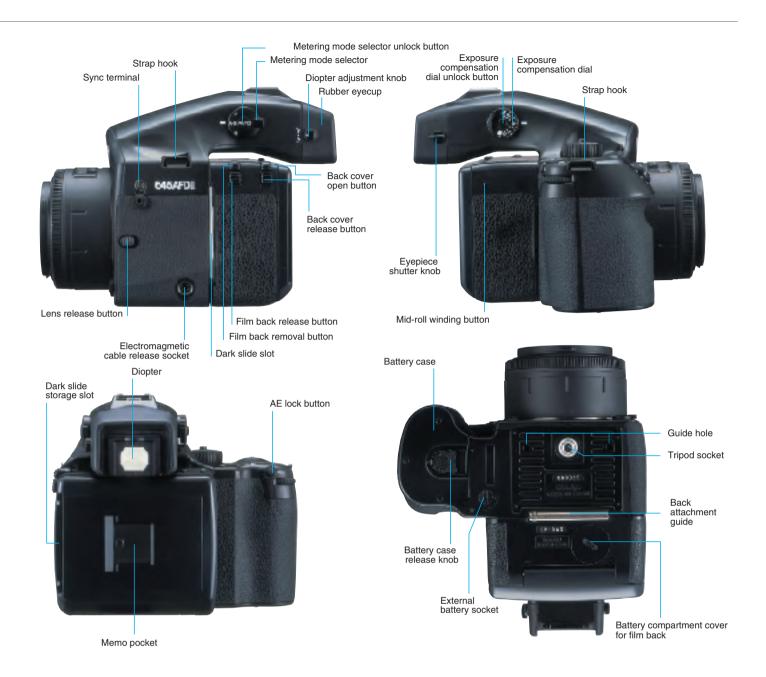
reproduction. A floating mechanism assures uniform sharpness from center to the corners.



Mamiya 645AFDII Specifications

Camera Type	6×4.5 cm format, electronically controlled focal-plane	AF infrared beam	Activates automatically under low light, low contrast.
	shutter, TTL multiple mode AE, AF single lens reflex		Range: about 9m; automatic switching to flash unit 's
Actual Image Size	56 × 41.5mm		built-in infrared beam when Metz flash unit is attached
Film Type	120 roll film (16 exposures);		(ON, OFF selectable)
	220 roll film (32 exposures);	AF Lock	With AFL button or half-press shutter release button in
	Polaroid Land Film back (requires special HP402 back)		focus S mode
Lens Mount	Mamiya 645AF Mount, compatible with M645 mount	Exposure Mode	Aperture-priority AE, Shutter-priority AE,
	(manual focus, focus aid, stop-down exposure metering)		Programmed AE , Manual
Viewfinder	Fixed prism viewfinder magnification x0.71; built-in	Shutter speed /	Shutter speed and aperture both can be set in 1/3,1/2
	diopter adjustment (-2.5 to +0.5, optional diopter lenses	Aperture steps	steps; electronic dial lock
	provide adjustment ranges of -5 to -2 diopter and 0 to	Metering Mode	TTL metering; Center-weighted average (A), Spot(S),
	+3 diopter); built-in eye-piece shutter		Variable ratio (A-S AUTO)
Focusing Screen	Interchangeable between Matte (standard) and Checker	Metering Range	EV 2 to EV 19 (with ISO 100 film, F2.8 lens)
	and manual focus microprism for M645 lenses	Exposure compensation	+/-3EV or ± 5EV (1/3,1/2,2/3,1/1 steps)
Field of View	94%(*) of actual image	Film speed	ISO 25 to 6400
Viewfinder Information	Focus mark, defocus mark, aperture value, shutter	AE lock	With AEL button; cancelled by re-pressing or power
	speed, metering mode (A, S, A-S AUTO), exposure		switch off.
	compensation value (difference between set value and	Shutter	Electronically controlled vertical metal focal-plane shutter
	metered value), bracketing position, flash		Automatic shutter curtain retraction
	charge completion mark, AE lock		(to protect the shutter when film back is detached)

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



Shutter speed	AE: 30 to 1/4000sec. (1/8steps),	Data Imprinting	7 segment dot matrix, ON/OFF selectable
	Manual: 30 to 1/4000sec., B(Bulb), X		DATA mode: exposure mode, aperture value, shutter
Auto-Bracketing	Enabled with auto bracketing button, 0.3, 0.5, 0.7, 1-step units		speed, exposure compensation, bracketing position,
Flash Synchronization	1/125sec. in X mode. Automatically sets to 1/125sec. or		metering mode, ID number
	slower in M, Tv modes and 1/60~1/125sec. in P, Av		DATE mode : year, month, date, time, ID number
	modes when using TTL flash control.		INDEX mode : ID number only
	X synchronized speed can be customized	Sync terminal	X contact (sync speed 1/125sec.)
Flash control	TTL direct metering, supports Metz SCA3002 system	Cable release socket	On shutter button
	(with SCA3952 Adapter)	Remote-control terminal	On side of body; electromagnetic cable release
Film transport	Automatic via built-in motor, single or continuous	Self-Timer	Possible with shutter release selector 2 to 60sec.
	exposures	Depth-of-field confirmation	Possible with preview button
Film loading	Automatic advance to first frame (Easy loading)	Tripod Socket	U 1/4 inch and U 3/8 included
Multiple Exposure	Enabled with multiple exposure button (2 to 6 exposures)	Power Requirements	6 AA-size batteries (alkaline-magnesium, lithium)
	or unlimited	Size(w/ AF 80mm f/2.8	153(W)×128(H)×184(D)mm
External LCD	On camera body: program mark, time mark, M,D,Y	and 120/220 film back)	6"(W)×5"(H)×7"(D)
	mark, aperture value, shutter speed, AF area mark,	Weight	1,730g(w/o battery)(61 ounces)
	exposure compensation mark, battery power mark, auto		
	bracketing mark, etc.		
	On film Back: ISO speed, type of film (120/220),		
	exposure number		
		Specifications are subject to char	ago without notice

Specifications are subject to change without notice.

System accessories provide the tools for versatile photographic expression



Magnifier FD402

This magnifying eyepiece enables precise focusing for macro and telephotography by magnifying the center of the viewfinder image to twice normal size. After focusing, it can be flipped up without detaching to confirm overall composition.

Weight: 46g (1.6oz.)

Angle Finder FA401

The Angle Finder enables confirmation of image composition from a comfortable posture for low-angle, macro, and other situations. It can be rotated a full 360 degrees for easy viewing from any angle.

Weight: 140g (5oz.)

Auto Bellows NC401

This high-precision macro accessory enables continuous adjustment of magnification ratio for precision manual focusing.

A data cable transmits diaphragm information to the lens mount, enabling use of aperture priority AE mode or exposure confirmation in manual mode. The AF 80mm lens reversing ring allows reproduction at magnifications greater than 1:1 with minimal aberration over a range of 0.75 to 2.20 times with the AF 80mm f/2.8 lens. The camera mount can be rotated 90 degrees (for simple selection of vertical/horizontal composition. The upper and lower rails can be used in combination at a right angle, enabling the auto bellows to shift horizontally and enable reproduction of vertical images at the same magnification ratio. Weight: 1,340g (47oz.)

Remote Control Set RS402

The remote control set takes full advantage of the automated functions of the 645AFDII, opening the way to a new world of remote control photography. The wireless unit operates via near-infrared impulses transmitted to a receiver that attaches to the camera. Wireless operation is possible from up to 100ft. outdoors; 3-channel switching eliminates signal interference. Power Requirements:

Transmitter: Two AA-size alkaline batteries

Receiver: One S-006P 9V zinc-carbon battery Weight:

Transmitter: 130g (4.6oz.) without batteries

Receiver: 140g (5oz.) without batteries

Magnetic Cable Release RE401 (1m) / RE402 (5m)

Connects to the camera's electronic shutter release, and provides vibration free operation.

RE401 comes with a 1-meter (3ft.) spiral cord; the RE402 comes with a 5-meter (17ft.) straight cord.
Weight: RE401 = 50g (1.8oz.), RE402

Weight: RE401 = 50g (1.8oz.), =80g (3oz.)

Auto Extension Rings

NA401 (No.1) / NA402 (No.2) / NA403 (No.3)

This set of macro extension rings supports the automatic diaphragm capabilities of the AF lens series. AF operation using focus marks is possible in manual mode. Rings are available in three lengths (No. 1, No. 2, No. 3), which can be used to achieve the desired magnification ratio.

Using all three rings with the 80mm lens provides maximum magnification of 1:1.Optimal Lens: AF 80mm f/2.8

Weight: No.1 = 95g (3.4oz.), No.2 = 125g (4.4oz), No.3 = 155g (5.5oz.)

External Battery Case PE401

This case protects against deterioration of battery capacity and performance when shooting in extreme cold. Insert the battery into the case, which can then be placed inside a pocket; a cord from the case to the camera provides power for camera operations. Holds six AA-size batteries.

Weight: 115g (4oz.)

SCA3952 Adapter (Metz Strobe)

This adapter is designed for use in combination with a SCA3002 Flash System strobe. It provides various useful features, including TTL direct flash control and a power zoom function that automatically matches the coverage angle to the focal length of the lens. Use of the SCA300 System strobe's requires a separately SCA3000C converter cable. Weight:38g (1.3oz.)

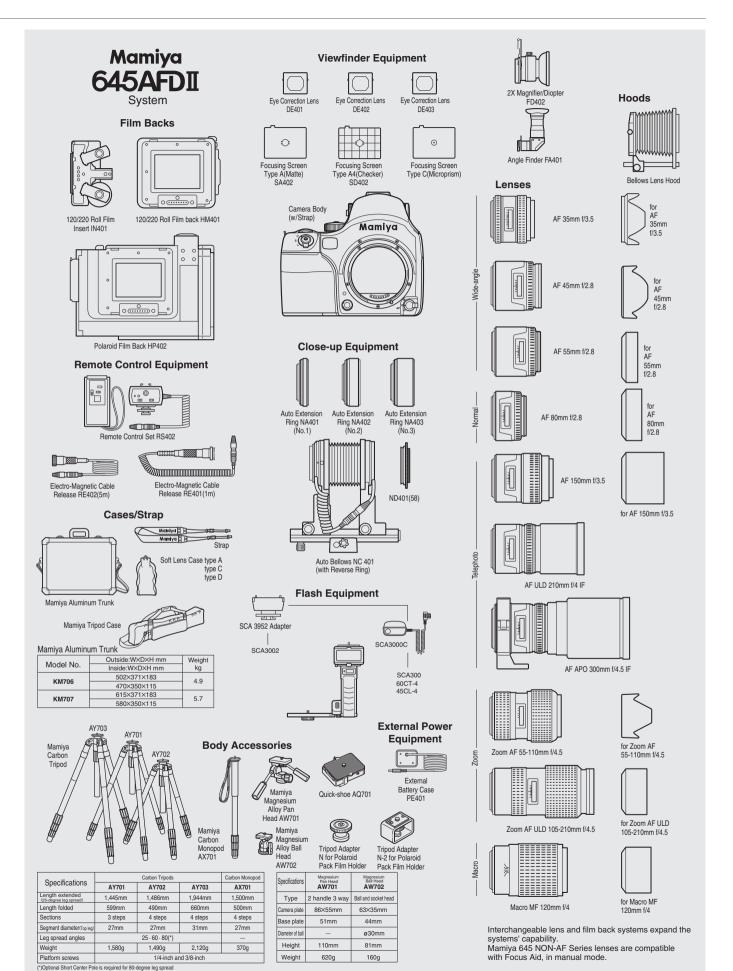






Photo by Toru Sonohara AF ULD 210mm F4 IF

