

**Mamiya** leaf

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# Digital Camera Systems

Integrated Digital Solutions for Photographers

# Mamiya Leaf Digital Camera Systems

Quality Images Require Image Quality

## Mamiya 645DF<sup>+</sup> Camera

With small format handling and speed, the Mamiya 645DF<sup>+</sup> captures top-quality images that offer the professional feel that only a medium format system can provide.

- Rapid and accurate auto-focus
- Dual focal plane and leaf shutter system with seamless switching and speeds of up to 1/4000 sec
- Sophisticated operation via easy-to-use, ergonomically placed dials and buttons
- Reliable, robust camera body construction
- Wide range of accessories including optional V-Grip Air for comfortable vertical handholding with a built-in Profoto Air transmitter



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# Mamiya Leaf Digital Camera Systems

The World's Most Desirable Digital Camera System

Mamiya 645DF<sup>+</sup>, Leaf Credo digital camera backs,  
Mamiya optics and Capture One workflow software

The unbeatable combination of Mamiya 645DF<sup>+</sup> camera, Leaf Credo camera backs and Capture One workflow software represents the best of what digital photography has to offer. Extraordinary capture becomes natural through ease of use and direct control. Take advantage of Schneider-Kreuznach designed Mamiya leaf shutter lenses or the Mamiya digital focal plane lenses.



# The Leaf Credo Family of Digital Backs

## Where Art meets Science

The Leaf Credo digital camera back is the latest and the most advanced digital back on the market. It is the result of 20 years of experience in the digital business from the company that brought the first medium format digital camera back to the market. State of the art DALSA sensors, intuitive controls on a 3.2" high resolution touch screen, seamlessly function together to make the Leaf Credo the professional's favorite medium format digital back.

The Leaf Credo series of camera backs offers you image quality, speed and maximum versatility to push your work beyond your imagination.

## Custom Built CCD Sensors – Unmatched Flexibility Enables Total Control

Leaf Credo digital backs use ultra-low-noise CCD sensors with a high dynamic range to better capture what the human eye sees.

Designed and developed according to Mamiya Leaf's specifications, the Leaf Credo backs are offered with 80, 60 or 40 megapixel CCD sensors and they can capture stunning images with natural, rich skin tones, subtle details, low noise and accurate color reproduction that are second to none.

Unsurpassed 12.5 f-stops of dynamic range and brilliant 16-bit color files of up to 480 MB, make it the most flexible capture device in the world.

## Touch screen and new GUI

Utilizing the latest display technology, the new high resolution, bright, touch screen offers an intuitive and user-friendly workflow in a responsive, sophisticated yet easy-to-use package, drawing from and greatly enhancing the very successful and popular Leaf Aptus-II line.



## Versatility

The Leaf Credo digital camera backs are compatible with over 80 large and medium format cameras (see [www.mamiyaleaf.com](http://www.mamiyaleaf.com) for a full list).

Features like excellent water sealing, an enclosed battery and a large, bright screen transform the Leaf Credo into the perfect outdoor shooting device.

On-screen Live View and spirit level display (roll+pitch) are indispensable tools for perfect composition and focusing.

A choice of FireWire 800 or USB 3 / USB 2 connection to a Mac or a PC with fast capture rate and Capture One workflow create excellent conditions for studio work.

Leaf



### Next Generation Display

- **1.15 MP, 3.2" touch screen** with up to 16 million colors, verify color accuracy and focus
- **Intuitive graphical user interface (GUI)** smart navigation, easy browsing
- **Touch screen extended beyond LCD** keep your screen clean of fingerprints
- **170° viewing angle**

### Tools for Portable Shooting

- **Live View on LCD** compose and focus on the go with a technical / view camera
- **Check critical focus while un-tethered**
- **Fast, dual core microprocessor** enables use of the latest CF technology for fastest capture, image viewing, zooming and editing
- **Weather-sealed construction** enables you shoot in tougher, more demanding conditions
- **Fast startup time**

### Studio Shooting Features

- **New FireWire 800 and USB 3 implementation** for unlimited bursts
- **Internal battery charger** lets you move from tethered to portable shooting with a battery that is ready to go at a moment's notice
- **Built-in bi-directional spirit level**
- **Star rating** to save you time when processing files after a shoot

# Superior Workflow

## Capture One

Capture One is a professional RAW converter and image editing software. It contains all the essential tools and high-end performance in one package to enable you to capture, organize, edit, share and print images in a fast, flexible and efficient workflow. Capture One's powerful and intuitive toolset is used by professional photographers to achieve world-class image quality with excellent color and detail.

## Capture Pilot and Camera Control

The Phase One Capture Pilot transforms wireless devices, such as the iPad, iPhone or iPod Touch, into remote image viewers. While you are shooting tethered using Capture One software, a client or creative director can quickly and conveniently, view your images and rate them from any Wi-Fi network. With Capture Pilot's Camera Control feature you can also control your camera and trigger the shutter remotely (depending on camera type used).



Capture One



Capture Pilot and Camera Control









The background of the image is a dark, artistic arrangement of various Mamiya lenses and lens caps. Some lenses have their caps on, while others are open, showing the front elements. The Mamiya logo is printed in white on several of the lens caps and barrels. The lighting is dramatic, highlighting the textures and shapes of the lenses against a black background.

## Mamiya Optics

Designed to work seamlessly with the Mamiya 645DF<sup>+</sup> and Leaf digital backs, our wide range of lenses are manufactured for ultimate image quality and freedom of choice. Their world class optical performance combined with unique lens enhancement features in Capture One guarantees perfect photographs.

## Schneider-Kreuznach Designed Leaf Shutter Lenses

Unprecedented high flash-sync speeds of up to 1/1600s open up new creative windows for professional photographers. Available in a range of focal lengths, the Schneider-Kreuznach designed leaf shutter lenses are manufactured with precision by Mamiya for ultimate image quality, performance and durability.

### 28 Mamiya Sekor AF 28 mm f/4.5 LS D Aspherical

- 102° angle of view
- Minimum focusing distance 35 cm
- Edge to edge sharpness

### 55 Mamiya Sekor AF 55 mm f/2.8 LS D

- 65° angle of view
- Sharpness maintained from minimum focusing distance to infinity
- Flash sync speeds of up to 1/1600s

### 80 Mamiya Sekor AF 80 mm f/2.8 LS D

- All-purpose standard lens designed by Schneider-Kreuznach
- Flash sync speeds of up to 1/1600s
- Designed for low aberration and well-balanced images

### 110 Mamiya Sekor AF 110 mm f/2.8 LS D

- Medium telephoto lens with a 35° angle of view
- Indispensable for images with a shallow depth of field while using high flash synchronization and maximum aperture
- Particularly suited to portrait and landscape photography

### 150 Mamiya Sekor AF 150 mm f/3.5 LS D

- Medium telephoto lens with a 26° angle of view
- Enables captures at a comfortable distance between photographer and subject
- Ideal focal length for portraits or scenery

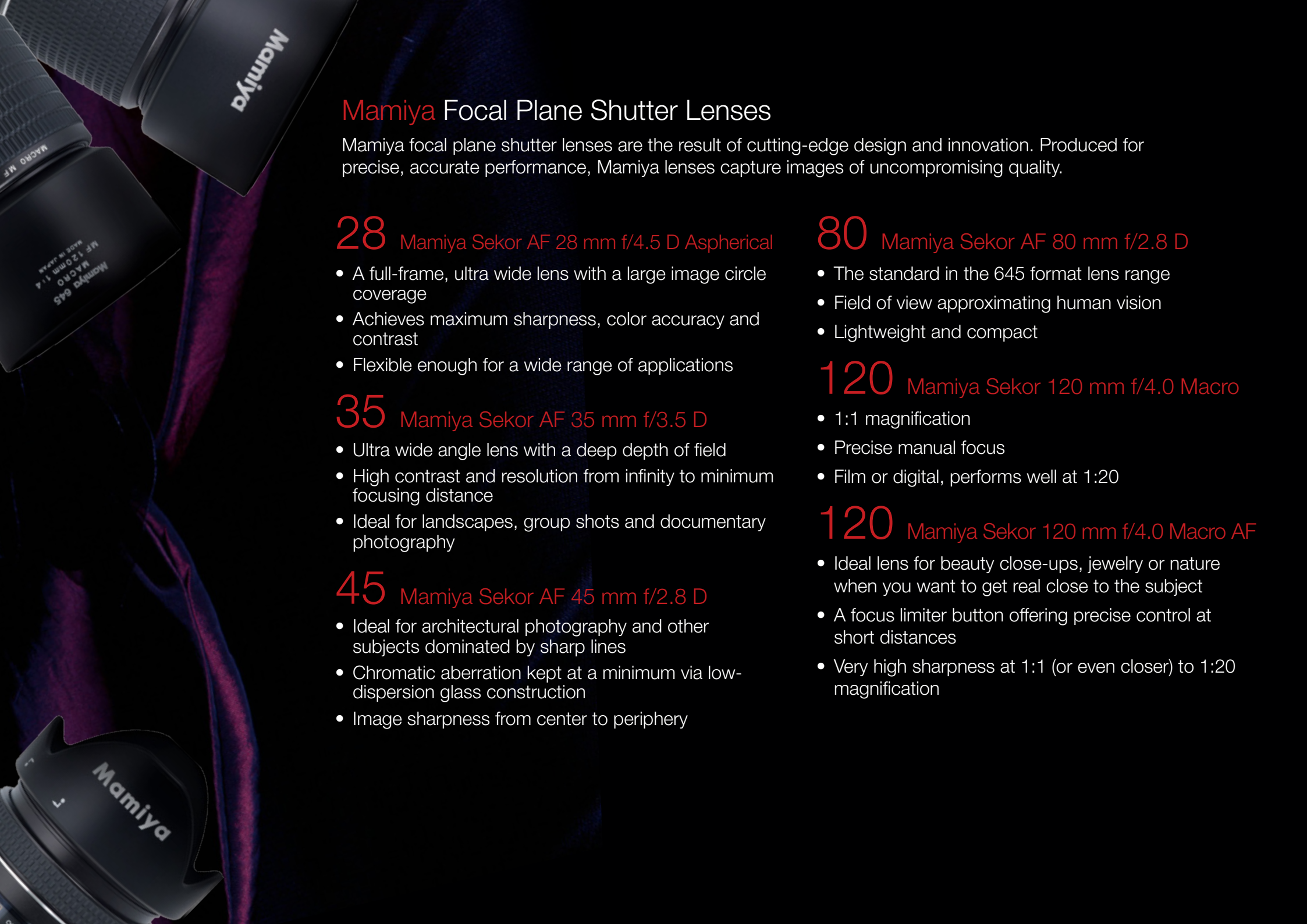
### 240 Mamiya Sekor AF 240 mm f/4.5 LS D

- A medium to long telephoto lens with a 16.5° angle of view and a leaf shutter allowing for up to 1/1000s flash sync
- A comparatively short minimum focusing distance of 1.7 m (5.5 ft)
- Large aperture provides a shallow depth of field desired by wildlife and portrait photographers alike

### 75-150 Mamiya Sekor 75-150 mm f/4.0-f/5.6 LS D

- Well balanced for handheld photography due to internal focusing and a leaf shutter
- A versatile zoom lens for location, fashion and portrait work





## Mamiya Focal Plane Shutter Lenses

Mamiya focal plane shutter lenses are the result of cutting-edge design and innovation. Produced for precise, accurate performance, Mamiya lenses capture images of uncompromising quality.

### 28 Mamiya Sekor AF 28 mm f/4.5 D Aspherical

- A full-frame, ultra wide lens with a large image circle coverage
- Achieves maximum sharpness, color accuracy and contrast
- Flexible enough for a wide range of applications

### 35 Mamiya Sekor AF 35 mm f/3.5 D

- Ultra wide angle lens with a deep depth of field
- High contrast and resolution from infinity to minimum focusing distance
- Ideal for landscapes, group shots and documentary photography

### 45 Mamiya Sekor AF 45 mm f/2.8 D

- Ideal for architectural photography and other subjects dominated by sharp lines
- Chromatic aberration kept at a minimum via low-dispersion glass construction
- Image sharpness from center to periphery

### 80 Mamiya Sekor AF 80 mm f/2.8 D

- The standard in the 645 format lens range
- Field of view approximating human vision
- Lightweight and compact

### 120 Mamiya Sekor 120 mm f/4.0 Macro

- 1:1 magnification
- Precise manual focus
- Film or digital, performs well at 1:20

### 120 Mamiya Sekor 120 mm f/4.0 Macro AF

- Ideal lens for beauty close-ups, jewelry or nature when you want to get real close to the subject
- A focus limiter button offering precise control at short distances
- Very high sharpness at 1:1 (or even closer) to 1:20 magnification

## 120 Schneider Kreuznach T/S 120 mm f/5.6 Aspherical

- A specialized lens for studio work where tilt & shift are employed for controlling perspective and depth of field
- Features 12 mm shift, 8° tilt and 360° rotation on two axes for maximum flexibility
- APO glass for minimal aberrations

## 150 Mamiya Digital 150 mm f/2.8 IF D

- Shallow depth of field and close focusing suited to portrait photography
- Produces high contrast images from infinity to minimum focusing distance
- Well balanced due to internal focusing and suited to handheld photography

## 210 Mamiya AF ULD 210 mm f/4.0 IF

- Suitable for a wide range of situations, especially portraits
- Telephoto lens with a 19° angle of view
- Super low-dispersion glass for good contrast even in close-ups

## 55-110 Mamiya Sekor AF ULD 55-110 f/4.5

- Suited to a wide range of subjects including travel, wildlife, fashion and landscape
- Performs well over wide, normal and portrait focal length
- Internal focusing eliminates the risk of vignetting when combined with front element filters

## 75-150 Mamiya Sekor AF 75-150 mm f/4.5 D

- A standard to medium telephoto zoom lens with an angle of view of 50 to 26°
- A comparatively short minimum focusing distance of 1 meter (3.2 ft)
- Can be used for a wide range of applications including portraits and snapshots

## 105-210 Mamiya Sekor Zoom AF ULD 105-210 mm f/4.5

- Has the reach to capture distant objects and the versatility to work up-close
- Offers small format handling and flexibility with medium format quality
- Low dispersion glass elements provide excellent resolution of fine detail



# Mamiya Leaf System Accessories

## Camera Accessories



### V-Grip Air

With a built-in Profoto Air transmitter and an ergonomic design, the V-Grip allows comfortable handheld shooting and flash sync speed of up to 1/1600s.



### L-Bracket with Handstrap

For quick horizontal / vertical tripod attachment, using Arca-Swiss type quick release.



### Auto Bellows NC401 with Reverse Ring

This high-precision macro accessory enables continuous adjustment of magnification ratio for precision manual focusing with magnifications greater than 1:1.



### Li-Ion Camera Battery

The Li-Ion battery enables you to shoot up to 10,000 shots on a single charge.



### Cable Release

For vibration-free operation, the electronic cable release connects securely to the camera body.



### Medium / Large format camera adapters

Enables the use of Leaf Credo backs on different camera models.



### Auto Extension Rings

This set of macro extension rings can be used for maximum magnification ratio of 1:1 (with 80 mm f/2.8 lens).



### Angle Finder

The 360° rotatable angle finder enables confirmation of image composition from a comfortable posture for low-angle, macro and other situations.



# Specifications

Leaf Credo	80	60	40
Resolution	10320 x 7752 (80 MP)	8984 x 6732 (60 MP)	7320 x 5484 (40 MP)
Frame size (crop factor)	53.7 x 40.3 mm (1:1)	53.9 x 40.4 mm (1:1)	43.9 x 32.9 mm (1:1.3)
Aspect ratio	4:3		
Pixel size	5.2 micron	6.0 micron	6.0 micron
Dynamic range	12.5 f-stops		
Color depth	16-bit (65,536 levels per channel)		
ISO sensitivity	35 – 800	50 – 800	50 – 800
Exposure time	1/10,000-120 sec	1/10,000-60 sec	1/10,000-60 sec
Full resolution capture rate (frames per second)	0.7	1.0	1.2
Display	3.2", 1.15 MP bright touch LCD with 170° viewing angle		
On-board tools	Live View on LCD, spirit level, ISO, WB, histogram, exposure alarms, image rating, 645DF+ custom functions		
Storage and connectivity	CompactFlash inc. UDMA 6 & 7, Firewire 800, USB 3, USB 2		
Software	Capture One 6.4 (Mac OS and Windows)		
Cameras supported	Mamiya 645DF+ / 645DF / 645AFDIII, Phase One 645DF+ / 645DF / 645AF, Phase One iXR, Mamiya RZ (all types), Mamiya RB, Contax 645, Hasselblad V and H, Most 6x9 and 4x5" cameras via Leaf Graflok or 3rd party adapters, Fuji 680 and Bronica ETRSi / SQAi via 3rd party adapters		
RAW file compression (large / small)	80 MB / 50 MB	60 MB / 40 MB	40 MB / 26 MB
TIFF file size (16-bit 300 dpi)	480 MB	360 MB	240 MB
Battery	2900 mAh rechargeable Li-ion		

Mamiya 645DF+	
Camera type	Mamiya 645DF+ 6 x 4.5 cm format AF single lens reflex
Image size	56 x 41.5 mm (actual image)
Viewfinder coverage	Approximately 94%
Focusing screen	Interchangeable (choice of matte / checker / Sensor crop)
Exposure modes	Aperture priority AE / shutter speed priority AE / programmed AE / manual / Bulb and Time
Auto focusing system	TTL phase difference detection device
Shutter	Dual function: focal plane shutter or leaf shutter operation with Schneider-Kreuznach designed Mamiya LS lenses
Metering mode	TTL full aperture metering (choice of center-weighted average / spot / A-S auto)
Self-timer	0.5 seconds to 60 minutes
Flash synchronization	Sync speeds of up to 1/125 seconds with focal plane shutter or up to 1/1600 seconds with Schneider-Kreuznach designed Mamiya LS lenses. X-sync socket
Remote control terminal	Electronic cable release on camera body or universal screw-in cable release
Mirror-up shooting	Possible using drive dial mode
Tripod socket	1/4" and 3/8"
Power requirements	Rechargeable Li-Ion battery / AA size batteries (alkaline-magnesium / lithium / nickel-hydride / nickel-cadmium)
Dimensions	153 x 128 x 152 mm (W x H x D)
Weight	1.03 g (body only)



## About Mamiya Leaf

Leveraging 70 years of Mamiya camera and optics expertise with the digital imaging technology of Leaf - the company that introduced the world's first commercial digital camera back - Mamiya Leaf represents the finest in high end photographic solutions, and is dedicated to improving the quality of its products, technologies and services to support the advancement of professional digital photography.

For more information visit [www.mamiyaleaf.com](http://www.mamiyaleaf.com)



Mamiya Leaf US  
75 Virginia Road  
North White Plains  
NY 10603  
USA

Email: [sales@mamiyaleaf.com](mailto:sales@mamiyaleaf.com)

Mamiya Leaf Europe  
Roskildevej 39  
DK-2000 Frederiksberg  
Denmark

Email: [sales@mamiyaleaf.com](mailto:sales@mamiyaleaf.com)

Mamiya Leaf Asia Pacific  
Rm 1009, 10/F  
Eight Commercial Tower  
8 Sun Yip Street, Siu Sai Wan  
Hong Kong

Email: [sales@mamiyaleaf.com](mailto:sales@mamiyaleaf.com)

