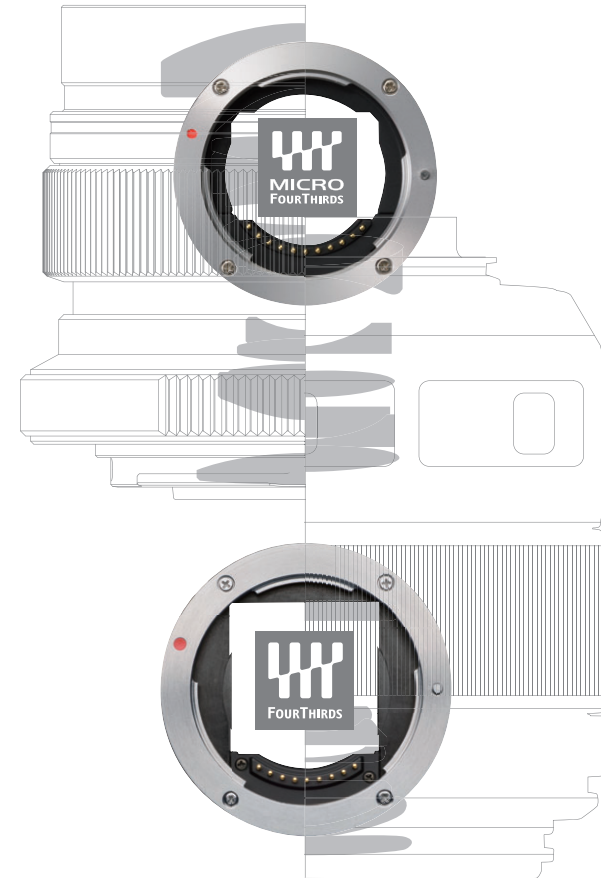


Four Thirds Lenses 2012

Micro Four Thirds & Four Thirds Lenses



OLYMPUS **Panasonic** **SIGMA** **COSINA**

Kenko Tokina

TAMRON

Schneider
KREUZNACH

ASTRO

KOMAMURA
CORPORATION

ZEISS



Picture Quality Is Determined By Lens Performance.

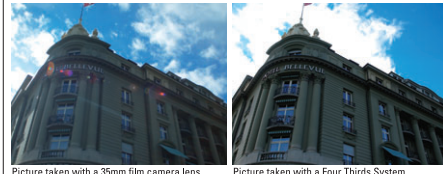
— *Picture quality is determined by the lens* — this is the foundation of the Four Thirds and Micro Four Thirds System standards, as well as the principle guiding us in the manufacture of products compliant with these standards. In addition to incorporating the most advanced digital lens design technologies including telecentricity, which ensures that incoming light travels in a straight line directly to the image sensor, and high definition to maximize picture quality in the most peripheral areas, these lenses are carefully crafted to perfection by our master-class experts and designed to satisfy a wide range of needs. With such a tremendously varied lineup of lenses to choose from, you'll always be able to find one to support your creative aspirations.



Four Thirds / Micro Four Thirds Merit

【Digital-dedicated design for achieving both high picture quality and compact size】

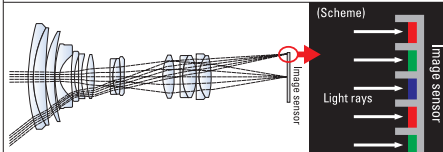
1 Difference between 35mm film camera lens and Four Thirds lens



Picture taken with a 35mm film camera lens

Picture taken with a Four Thirds System digital-dedicated lens

2 ZUIKO DIGITAL 14-54mm F2.8-3.5 I lens at 14mm (equivalent to 28mm of 35mm film camera lenses)



35mm film camera zoom lens at 28mm

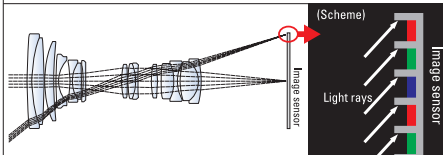


Image clarity assured by digital-dedicated design.

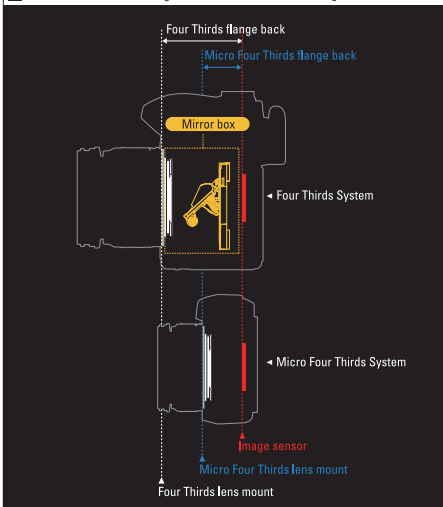
When you mount a lens designed for a 35mm film camera on a digital SLR camera, you'll find that picture quality is degraded in peripheral areas and that there is an increased tendency for ghosts and flares to occur. Flaring can occur in the entire picture taken with a 35mm film camera lens, with distortion increasing from the center to the periphery. A Four Thirds System lens, on the other hand, captures a uniform, sharp image with minimal ghosts and flares, and no distortion in the periphery.

Telecentricity for straight-line transmission of light to the image sensor.

The image sensor in a digital camera can be compared to a "deep well" because the light receptors for the RGB components are placed at the bottom of partitioning walls installed to protect the receptors against diffused light reflections, like the water surfaces at the bottoms of multiple wells. To utilize the light rays incident through the lens efficiently and guide them perpendicularly to the sensor surface, the lens should be capable of maintaining the telecentricity. However, lenses from the age of the 35mm film camera are very susceptible to distortion and chromatic aberration due to oblique incidence of light on the image sensor. The digital-dedicated Four Thirds System lenses were created to solve this problem. With a mount diameter that exceeds the sensor size with large headroom and the resulting telecentricity, these lenses can offer sharp, clear image reproduction throughout the image plane.

【Micro Four Thirds with Further Size Reduction】

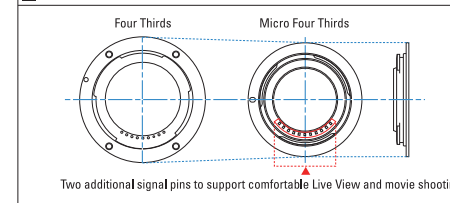
3 About 50% reduction of flange back thanks to mirrorless design



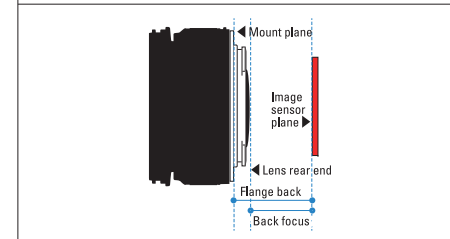
Optimized for digital photography to offer both precision optical quality and compact size.

The mirror box is a key component of SLR cameras. It enables subjects to be viewed through a viewfinder, while providing assurance that what the photographer sees conforms to reality. On the downside, however, the image that the mirror shows us on the focusing screen is not identical to the one imaged on the film or image sensor. In addition, the mirror is a major contributing factor to camera size and weight. Elimination of the mirror box in the Micro Four Thirds System has made it possible to benefit from a more compact size and take advantage of movie shooting capability, while maintaining the high picture quality of the class of the Four Thirds System. The Micro Four Thirds System is a new standard of mirrorless system camera, which dramatically expands the potential of photography, taking it beyond even that made possible by previous SLR cameras.

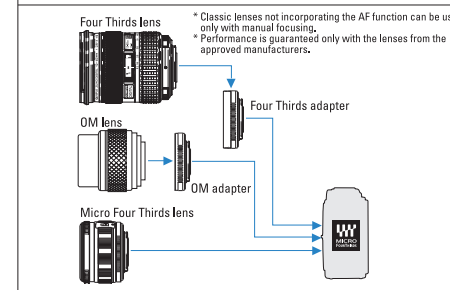
4 6 mm reduction of mount outer diameter



5 Optical design expanding the scope of lens development



6 Compatibility expanded by mount adapters



Optical design that enables further reduction in size and future expandability.

The elimination of the mirror box has made it possible to reduce the size of the flange back by half relative to the Four Thirds System 3 and to reduce the lens mount diameter by about 6 mm 4.

The flange back is an important picture quality factor that is associated with a large number of properties such as the image sensor size and lens design. A short flange back or back focus theoretically enhances the performance of wide-angle lenses by adopting a symmetrical design in front of and behind the lens, but negative effects can include distortion in the center as well as peripheral areas.

With the Micro Four Thirds System standard, the balance between the diagonal length of the image sensor and the lengths of the flange back and back focus has been optimized to facilitate maximum flexibility in design/production and performance of lenses in the future 5.

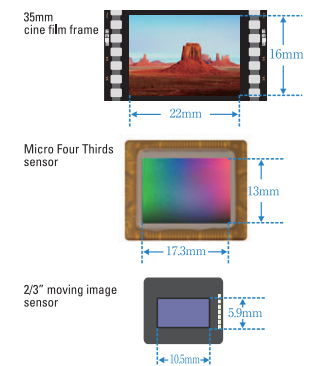
Mount adapters enable mounting of wide variety of lenses.

Micro Four Thirds cameras not only work with dedicated Micro Four Thirds lenses, they can also accept any existing Four Thirds lens when an adapter is used. As an added bonus, the short flange back makes it possible to use classic lenses from the age of film, ensuring that you'll be able to continue putting your favourite lenses to good use.

Micro Four Thirds: Also optimized for movie recording.

The imaging area of the Micro Four Thirds System is equivalent to that of 35mm film. This means that you can continue to use the lens assets you accumulated in the past, as well as a variety of shooting techniques that take advantage of the angle of view of PL-mount lenses such as frame trimming and field depth estimation. The combination of the imaging area required for high picture quality recording with high, waste-free efficiency is also advantageous from the viewpoint of power consumption. As this will eliminate worries about battery depletion after long hours of recording and picture degradation due to heat generation, the movie industry is eagerly anticipating development of new products that meet their expectations.

The release of the AG-AF105 (which is marketed as the AG-AF100 series outside Japan) by Panasonic in the autumn of 2010 was widely hailed by many in the industry as marking the advent of a professional electronic movie camera implementing the superior movie recording characteristics of Micro Four Thirds in a practical configuration. The result has been a growing rush to join the standard both among movie industry professionals who recognize the benefits of Micro Four Thirds, as well as among well-established lens manufacturers such as Schneider and Carl Zeiss.





Micro Four Thirds

Wide Zoom lenses covering wide-angle focal lengths of less than 12mm (equivalent to 24mm of 35mm film camera lenses).



LUMIX G VARIO 7-14mm F4.0 ASPH. : 1/200sec, F5.6



14-28mm (35mm equivalent)
**Panasonic: LUMIX G VARIO
7-14mm F4.0 ASPH.**

US lens ASPH. lens

Max. dia. x Length = $\phi 70$ mm x ca. 83.1 mm
Weight = 300 g

Ultra-wide-angle, ultra-compact 14-28mm zoom lens.

Taking full advantage of Micro Four Thirds System's short flange back, this compact lens captures breathtaking wide perspectives with an angle of view of 114°.



18-36mm (35mm equivalent)
**OLYMPUS: M. ZUIKO DIGITAL
ED 9-18mm F4.0-5.6**

US lens ASPH. lens MSC

Max. dia. x Length = $\phi 56.5$ mm x 49.5 mm
Weight = 155 g. Filter diameter = $\phi 52$ mm

Ultra-wide-angle zoom with a wide angle of view.

This ultra-wide-angle zoom lens sets a new standard in compact design. Ideal for snapshots and landscape shooting.



M. ZUIKO DIGITAL ED 9-18mm F4.0-5.6 : 3.2sec, F22



Micro Four Thirds

Standard Zoom lenses covering from semi-wide-angle focal lengths between 12mm and 18mm (equivalent to between 24 and 36mm of 35mm film camera lenses) to telescopic focal lengths.



M. ZUIKO DIGITAL ED 12-50mm F3.5-6.3 EZ : 3.2sec, F11



24-100mm (35mm equivalent)
**OLYMPUS: M. ZUIKO DIGITAL
ED 12-50mm F3.5-6.3 EZ**

Aspherical lens | ED lens | Coated lens | MSC | Electric zoom | Splash-/dust-proof | Macro mode

Max. dia. x Length = ϕ 57 mm x 83 mm
Weight = 212 g Filter diameter = ϕ 52 mm

Standard movie lens with electric zoom mechanism.

Electric zoom mechanism enables steady zooming at a constant rate. The new MSC mechanism is linear motor-driven for faster and quieter AF control.



28-84mm (35mm equivalent)
**OLYMPUS: M. ZUIKO DIGITAL
14-42mm F3.5-5.6 IIR**

Aspherical lens | MSC

Max. dia. x Length = ϕ 56.5 mm x 50 mm
Weight = 113 g Filter diameter = ϕ 37 mm

Standard zoom lens that fits any PEN Series model.

With a compact size and light weight of 113 grams, this standard zoom lens is optimized for daily use on the street, as well as for portrait shooting. It incorporates the MSC mechanism for fast, quiet AF.



28-84mm (35mm equivalent)
**Panasonic: LUMIX G X VARIO PZ
14-42mm F3.5-5.6 ASPH. POWER O.I.S.**

ED lens | Aspherical lens | Optical Image Stabilizer (inside lens) | Motorized zoom

Max. dia. x Length = ϕ 61.0 mm x 26.8 mm (when retracted)
Weight = 95 g Filter diameter = ϕ 37 mm

World's first* standard lens with built-in motorized zoom.

The compact, lightweight retractable mechanism improves portability of the camera, while at the same time ensuring high contrast all the way to the image periphery. The quiet noise design is suitable for movie shooting.

* As of October 13, 2011. Among the digital SLR-dedicated lenses.



28-90mm (35mm equivalent)
**Panasonic: LUMIX G VARIO
14-45mm F3.5-5.6 ASPH. MEGA O.I.S.**

Aspherical lens | Optical Image Stabilizer (inside lens)

Max. dia. x Length = ϕ 60 mm x ca. 60 mm
Weight = 195 g Filter diameter = ϕ 37 mm

Standard zoom lens with compact size and light weight.

With a wide focusing range of about 3.2x zoom ratio from wide-angle 28mm (35mm equivalent), this lens ensures exceptional shooting performance under a wide range of conditions.



28-280mm (35mm equivalent)
**Panasonic: LUMIX G VARIO HD
14-140mm F4.0-5.8 ASPH. MEGA O.I.S.**

ED lens | Aspherical lens | Optical Image Stabilizer (inside lens)

Max. dia. x Length = ϕ 70 mm x ca. 84 mm
Weight = 480 g Filter diameter = ϕ 62 mm

Full-time autofocus capable in movie recording.

This HD lens is optimized for movie recording. It provides high accuracy and silent drive thanks to the lightweight focus lens element and a direct-drive linear motor.



28-300mm (35mm equivalent)
**OLYMPUS: M. ZUIKO DIGITAL
ED 14-150mm F4.0-5.6**

Aspherical lens | ED lens | Coated lens | ED lens | Coated lens | MSC

Max. dia. x Length = ϕ 63.5 mm x 83 mm
Weight = 260 g Filter diameter = ϕ 58 mm

Compatible with wide-angle, telephoto as well as macro.

Ideal for travelling, this slim 10.7x zoom lens covers the standard focusing range from wide-angle to telephoto. The MSC mechanism achieves AF drive with both high speed and low noise.



LUMIX G VARIO HD 14-140mm F4.0-5.8 ASPH. MEGA O.I.S. : 1/640sec, F5.8



Micro Four Thirds

Telephoto Zoom lenses covering telescopic focal lengths of 100mm (equivalent to 200mm of 35mm film camera lenses) or more.



LUMIX G X VARIO PZ 45-175mm F4.0-5.6 ASPH. POWER O.I.S. : 1/100sec, F5.6



80-300mm (35mm equivalent)
**OLYMPUS: M. ZUIKO DIGITAL
ED 40-150mm F4.0-5.6 R**

[Full frame](#) [APS-C](#) [Micro](#)

Max. dia. x Length = ϕ 63.5 mm x 83 mm
Weight = 190 g Filter diameter = ϕ 58 mm

Telephoto zoom lens for preserving big memories in big sizes.

Featuring extremely high portability, this lightweight telephoto zoom lens employs an ED lens element to correct color aberration and a circular iris to render natural defocusing.



90-350mm (35mm equivalent)
**Panasonic: LUMIX G X VARIO PZ
45-175mm F4.0-5.6 ASPH. POWER O.I.S.**

[Full frame](#) [APS-C](#) [Micro](#) [Optical Image Stabilizer \(inside lens\)](#) [Motorized zoom](#)

Max. dia. x Length = ϕ 61.6 mm x ca. 90 mm
Weight = 210 g Filter diameter = ϕ 46 mm

World's first* telephoto lens with built-in motorized zoom.

The compact, lightweight retractable mechanism improves portability of the camera at the same time as ensuring high contrast to the image periphery. The low noise design is suitable for movie shooting.



90-400mm (35mm equivalent)
**Panasonic: LUMIX G VARIO
45-200mm F4.0-5.6 MEGA O.I.S.**

[Full frame](#) [Optical Image Stabilizer \(inside lens\)](#)

Max. dia. x Length = ϕ 70 mm x ca. 100 mm
Weight = 380 g Filter diameter = ϕ 52 mm

Telephoto zoom lens with a compact size.

This lens employs a 13-group, 16-element configuration including three ED lens elements. This design effectively corrects aberrations to achieve high picture quality.



150-600mm (35mm equivalent)
**OLYMPUS: M. ZUIKO DIGITAL
ED 75-300mm F4.8-6.7**

[Full frame](#) [APS-C](#) [Micro](#) [Optical Image Stabilizer](#)

Max. dia. x Length = ϕ 70 mm x 116 mm
Weight = 430 g Filter diameter = ϕ 58 mm

Super-telephoto zoom that captures an instant dynamically.

This zoom lens with 600 mm equivalent super-telephoto capability enables long-range, handheld shooting and close-up work. Powerful images can be captured from any angle even from great distances.



M. ZUIKO DIGITAL ED 40-150mm F4.0-5.6 R : 1/1000sec, F7.1



200-600mm (35mm equivalent)
**Panasonic: LUMIX G VARIO
100-300mm F4.0-5.6 MEGA O.I.S.**

[Full frame](#) [Optical Image Stabilizer \(inside lens\)](#)

Max. dia. x Length = ϕ 73.6 mm x ca. 126 mm
Weight = 520 g Filter diameter = ϕ 67 mm

600mm (35mm equivalent) super-telephoto zoom lens.

With high-speed AF capability, this lens brings distant subjects close at hand, making it ideal for various applications from shooting professional sports and wild animals to a school sports day.





Micro Four Thirds

Prime lenses with the unique characteristics and performance made possible by single focal lengths.



M.ZUIKO DIGITAL ED 12mm F2.0 : 1/50sec, F5.6

wide



16mm (35mm equivalent)

Panasonic:
LUMIX G FISHEYE 8mm F3.5

Max. dia. x Length = $\phi 60.7$ mm (fixed hood section) x ca. 51.7 mm Weight = 165 g
Filter diameter = Front: Not mountable, Rear: Street filter holder 22 mm x 22 mm

World's smallest, lightest high-performance fisheye lens.**

A diagonal angle of view of 180° and short focal length lets you capture the distortion and exaggerated perspective that fisheye lenses are known for.

* As of June 4, 2010. Among the AF-compatible fisheye lenses for interchangeable-lens type digital cameras.



24mm (35mm equivalent)

OLYMPUS: M.ZUIKO DIGITAL
ED 12mm F2.0

Max. dia. x Length = $\phi 56$ mm x 43 mm Weight = 130 g Filter diameter = $\phi 46$ mm

High-grade snapshot lens with metallic finish.

With a large aperture of F2.0 with a wide angle of 24mm (35mm equivalent), this lens offers high performance and high picture quality, while boasting a more compact design optimized for snapshot shooting.



25mm (35mm equivalent)*1

Panasonic:
LUMIX G 12.5mm F12

Max. dia. x Length = $\phi 57$ mm x ca. 20.5 mm Weight = 45 g Filter diameter = —

World's first interchangeable 3D lens.**

This easy-to-handle compact lens allows instant 3D still-picture shooting with two built-in optical systems. The left and right images are shot without time lag so even a moving subject is not distorted after synthesis.

*1. When the aspect ratio is set at 16:9 with DMC-GH2.
*2. As of September 21, 2010. Among the interchangeable lenses for digital SLR cameras.



28mm (35mm equivalent)

Panasonic:
LUMIX G 14mm F2.5 ASPH.

Max. dia. x Length = $\phi 55.5$ mm x ca. 20.5 mm Weight = 55 g Filter diameter = $\phi 46$ mm

Wide-angle pancake lens with compact size and light weight.

The high brightness of this lens makes it handy in daily use, from shooting of a vast landscape to compositions with wide perspectives that take advantage of the 28 mm wide angle (35mm equivalent),



34mm (35mm equivalent)

OLYMPUS: M. ZUIKO DIGITAL
17mm F2.8

Max. dia. x Length = $\phi 57$ mm x 22 mm Weight = 71 g Filter diameter = $\phi 37$ mm

Pancake lens that does not miss the best opportunities.

From snapshots to portraits and from landscapes to close-up, this wide-angle pancake lens with optimum focal length offers clear imaging thanks to digital-dedicated design.



38mm (35mm equivalent)

SIGMA:
SIGMA 19mm F2.8 EX DN

Max. dia. x Length = $\phi 60.6$ mm x 45.7 mm Weight = 140 g Filter diameter = $\phi 46$ mm

Wide-angle lens with outstanding image quality at any distance.

This high performance wide angle lens is perfect for landscapes and snapshots. The optical design and telecentricity provides high resolution from the centre throughout the edge of the image.



Standard



40mm (35mm equivalent)

Panasonic:
LUMIX G 20mm F1.7 ASPH.

Max. dia. x Length = $\phi 63$ mm x ca. 25.5 mm Weight = 100 g Filter diameter = $\phi 46$ mm

Compact, lightweight pancake lens with large aperture.

With brightness of F1.7, this lens captures impressive pictures with high contrast and beautiful defocused background effect.



50mm (35mm equivalent)

Panasonic: LEICA DG SUMMILUX
25mm F1.4 ASPH.

Max. dia. x Length = $\phi 63$ mm (fixed hood section) x ca. 54.5 mm Weight = 200 g Filter diameter = $\phi 46$ mm

Single-focus lens with excellent brightness.

F1.4 means the highest brightness* among the Micro Four Thirds interchangeable lenses. This lens allows the user to enjoy the soft defocusing effect that Leica lenses are known for.



50mm (35mm equivalent)

Voigtlander(COSINA):
NOKTON 25mm F0.95

Max. dia. x Length = $\phi 68.4$ mm x 70 mm Weight = 410 g Filter diameter = $\phi 52$ mm

Fastest* Micro Four Thirds standard lens with large aperture.

This lens has a natural angle of view of 47.3° diagonally and an astonishingly bright open F-value of 0.95. It is designed exclusively for manual focusing.

* As of January 2012. Among the Micro Four Thirds genuine lenses.



Standard



60mm (35mm equivalent)

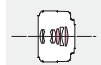
SIGMA:
SIGMA 30mm F2.8 EX DN

Aspherical lens

Max. dia. x Length = $\phi 60.6$ mm x 38.6 mm
Weight = 135 g Filter diameter = $\phi 46$ mm

Standard lens with sharpness and high contrast even at the maximum aperture.

This high performance standard lens is best for snapshots and portraits. Minimizing the fluctuation of aberration caused by focusing, it offers outstanding image quality from short to long distances.



M.ZUIKO DIGITAL 45mm F1.8 : 1/500sec, F1.8

Telephoto



90mm (35mm equivalent)

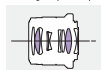
OLYMPUS: M.ZUIKO DIGITAL
45mm F1.8

Aspherical lens **MSD** **ED/IR coating**

Max. dia. x Length = $\phi 56$ mm x 46 mm
Weight = 116 g Filter diameter = $\phi 37$ mm

Family portrait lens with beautiful defocusing capability.

The F1.8 brightness and shallow field depth of this lens lets anyone shoot portraits in which soft, beautiful background defocusing makes the subject very prominent.



MSD



Planned for release in 2012

150mm (35mm equivalent)

OLYMPUS: M.ZUIKO DIGITAL
ED 75mm F1.8

Max. dia. x Length = To Be Determined
Weight = TBD Filter diameter = TBD

High-grade portrait lens with highest picture quality.

The highest imaging performance among the M.ZUIKO DIGITAL lenses implements beautiful circular defocusing, which is suitable for shooting of studio portraits, theatre stage and indoor sports.

* The external design may be subject to change without prior notice.



Planned for release in May 2012

600mm (35mm equivalent)

Tokina:
Reflex 300mm F6.3 MF Macro

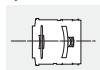
Manual focus

Max. dia. x Length = $\phi 66$ mm x 66 mm
Weight = 330 g Filter diameter = $\phi 55$ mm

Palm-size super-telephoto lens with closest focusing distance of 0.8 meter.

The use of reflex optics and reduction of the overall lens length have resulted in a lens with a previously unconceivable 66 mm length, 66 mm maximum diameter and 330-gram weight.

* The external design may be subject to change without prior notice.



Macro



90mm (35mm equivalent)

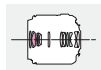
Panasonic: LEICA DG MACRO-ELMARIT
45mm F2.8 ASPH. MEGA O.I.S.

ED/IR **Aspherical lens** **Optical Image Stabilizer (inside lens)**

Max. dia. x Length = $\phi 63$ mm x ca. 62.5 mm
Weight = 225 g Filter diameter = $\phi 46$ mm

Outstanding image quality that Leica is known for.

With imaging performance that meets Leica's demanding performance evaluation criteria, this lens offers consistently high contrast and resolution throughout the range.



Planned for release in 2012

120mm (35mm equivalent)

OLYMPUS: M.ZUIKO DIGITAL
ED 60mm F2.8 Macro

Max. dia. x Length = To Be Determined
Weight = TBD Filter diameter = TBD

Macro lens provides soft defocusing for nature photography.

1x macro lens with the inner focus system that does not affect the lens length. A focus limit switch is provided for quicker focusing.

* The external design may be subject to change without prior notice.



Four Thirds Lenses



ZUIKO DIGITAL ED 12-60mm F2.8-4.0 SWD : 1/800sec, F11

Super High Grade series



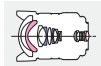
14-28mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 7-14mm F4.0

[Super High Grade](#) [Aspherical Lens](#) [Lens](#) [Lens](#) [Aspherical Lens](#) [Splash- & dust-proof](#)

Max. dia. x Length = ϕ 86.5 mm x 119.5 mm
Weight = 780 g Filter diameter = —

Ultra-wide-angle zoom lens with an angle of view of 114°.

Designed to capture the most mind-boggling perspectives, this lens incorporates large-aperture lens elements with aspherical surfaces on both sides to minimize distortion.



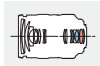
28-70mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 14-35mm F2.0 SWD

[Super High Grade](#) [Aspherical Lens](#) [Lens](#) [Lens](#) [Aspherical Lens](#) [Super Slow Drive \(SRD\)](#) [Splash- & dust-proof](#)

Max. dia. x Length = ϕ 86 mm x 123 mm
Weight = 900 g Filter diameter = ϕ 77 mm

F2.0 standard zoom lens with outstanding brightness.

This large-aperture standard zoom lens boasts high imaging performance and brightness of F2.0 throughout the zoom range. It incorporates a mechanically-interlocked manual focusing mechanism.



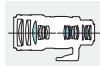
70-200mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 35-100mm F2.0

[Super High Grade](#) [Aspherical Lens](#) [Lens](#) [Lens](#) [Aspherical Lens](#) [Splash- & dust-proof](#)

Max. dia. x Length = ϕ 96.5 mm x 213.5 mm
Weight = 1,650 g Filter diameter = ϕ 77 mm

Excellent defocusing effect throughout the zoom range.

The large open depth of field value of this lens makes it ideal for shooting portraits and nature scenes, as well as for indoor sports that need high shutter speeds.



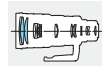
180-500mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 90-250mm F2.8

[Super High Grade](#) [Aspherical Lens](#) [Lens](#) [Lens](#) [Aspherical Lens](#) [Splash- & dust-proof](#)

Max. dia. x Length = ϕ 124 mm x 276 mm
Weight = 3,270 g (with tripod adapter) Filter diameter = ϕ 105 mm

Coverage up to 500mm.

An aperture of F2.8 throughout the zoom range provides uncompromised imaging performance that is particularly noticeable in such demanding applications as nature photography or shooting indoor sports.



300mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 150mm F2.0

[Super High Grade](#) [Aspherical Lens](#) [Lens](#) [Lens](#) [Aspherical Lens](#) [Splash- & dust-proof](#)

Max. dia. x Length = ϕ 100 mm x 150 mm
Weight = 1,465 g (w/o tripod adapter) Filter diameter = ϕ 82 mm

300mm in a compact lens just 15 cm long.

One Super ED lens and one ED lens elements provide almost perfect compensation to minimize the axial chromatic aberration common with telephoto-type lenses.



600mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 300mm F2.8

[Super High Grade](#) [Aspherical Lens](#) [Lens](#) [Lens](#) [Aspherical Lens](#) [Splash- & dust-proof](#) [Built-to-order manufacturing](#)

Max. dia. x Length = ϕ 127 mm x 285 mm
Weight = 3,290 g (with tripod adapter) Drop-in filter diameter = ϕ 43 mm

Experience a whole new dimension of brightness and picture quality.

Available only on a made-to-order basis, this superb, carefully crafted large-aperture, super-telephoto lens delivers imaging performance that simply outclasses anything you've ever seen. Three ED lens elements eliminate chromatic aberration to the limit.



LEICA D LENS



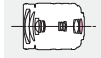
28-100mm (35mm equivalent) Panasonic: LEICA D VARIO-ELMARIT 14-50mm F2.8-3.5 ASPH. MEGA O.I.S.

[Aspherical Lens](#) [Optical Image Stabilizer \(inside lens\)](#)

Max. dia. x Length = ϕ 78.1 mm x 97.4 mm
Weight = 490 g Filter diameter = ϕ 72 mm

Standard zoom with Leica's acclaimed imaging capabilities.

The "LEICA D" lenses are the first interchangeable lenses for D-SLR cameras developed by Leica Camera AG in collaboration with Panasonic. This lens incorporates the MEGA O.I.S., which is a gyro-type optical image stabilizer.



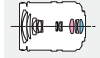
28-100mm (35mm equivalent) Panasonic: LEICA D VARIO-ELMAR 14-50mm F3.8-5.6 ASPH. MEGA O.I.S.

[Aspherical Lens](#) [Aspherical Lens](#) [Optical Image Stabilizer \(inside lens\)](#)

Max. dia. x Length = ϕ 74 mm x 93 mm
Weight = 434 g Filter diameter = ϕ 57 mm

Standard zoom with Leica's acclaimed imaging capabilities worth the name of Leica.

This lens boasts superb performance, minimizing aberrations to produce an image with high contrast and sharpness to the periphery.



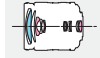
28-300mm (35mm equivalent) Panasonic: LEICA D VARIO-ELMAR 14-150mm F3.5-5.6 ASPH. MEGA O.I.S.

[Aspherical Lens](#) [Aspherical Lens](#) [Supersonic wave motor \(XS\)](#) [Optical Image Stabilizer \(inside lens\)](#)

Max. dia. x Length = ϕ 78.5 mm x 90.4 mm
Weight = 535 g Filter diameter = ϕ 72 mm

First high-power telephoto zoom lens in the LEICA D series.

This lens achieves high contrast and high-resolution image throughout the zoom range. The focusing drive employs a supersonic wave motor with the XS (Extra Silent) technology for smooth, accurate autofocus.



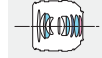
50mm (35mm equivalent) Panasonic: LEICA D SUMMILUX 25mm F1.4 ASPH.

[Aspherical Lens](#) [Aspherical Lens](#) [Aspherical Lens](#)

Max. dia. x Length = ϕ 77.7 mm x 75 mm
Weight = 510 g Filter diameter = ϕ 62 mm

Large-aperture standard lens with aperture ring equipped, achieving F1.4.

This lens combines outstanding F1.4 brightness at maximum aperture with exceptional imaging performance thanks to high resolution and high contrast.



Panasonic: LEICA D SUMMILUX 25mm F1.4 ASPH. : 1/320sec. F2.0

High Grade series



22-44mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 11-22mm F2.8-3.5

Max. dia. x Length = ϕ 75 mm x 92.5 mm
Weight = 485 g Filter diameter = ϕ 72 mm

Wide zoom boasting bright F2.8-3.5 aperture.



24-120mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 12-60mm F2.8-4.0 SWD

Max. dia. x Length = ϕ 79.5 mm x 98.5 mm
Weight = 575 g Filter diameter = ϕ 72 mm

High-quality 5x standard zoom with fast AF.



28-100mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 14-54mm F2.8-3.5 II

Max. dia. x Length = ϕ 74.5 mm x 88.5 mm
Weight = 440 g Filter diameter = ϕ 67 mm

High-performance zoom lens with High-Speed Imager AF compatibility.



180-400mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 50-200mm F2.8-3.5 SWD

Max. dia. x Length = ϕ 86.5 mm x 157 mm
Weight = 995 g (w/o tripod adapter) Filter diameter = ϕ 67 mm

Super-telephoto zoom lens with large aperture, high image quality and fast AF.



16mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 8mm F3.5 Fisheye

Max. dia. x Length = ϕ 79 mm x 77 mm
Weight = 485 g Filter diameter = —

Diagonal fisheye lens featuring a deformation effect.



100mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 50mm F2.0 Macro

Max. dia. x Length = ϕ 71 mm x 61.5 mm
Weight = 300 g Filter diameter = ϕ 52 mm

Medium-telephoto macro lens with excellent resolution and contrast.

Standard series



16-36mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 9-18mm F4.0-5.6

Max. dia. x Length = ϕ 75.5 mm x 73 mm
Weight = 275 g Filter diameter = ϕ 72 mm

Ultra-wide-angle zoom lens with lightweight, ultra-compact design.



28-84mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 14-42mm F3.5-5.6

Max. dia. x Length = ϕ 65.5 mm x 61 mm
Weight = 190 g Filter diameter = ϕ 58 mm

Standard zoom with high image quality and compact size.



36-360mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 18-180mm F3.5-6.3

Max. dia. x Length = ϕ 78 mm x 84.5 mm
Weight = 435 g Filter diameter = ϕ 62 mm

Standard 10x zoom lens that's truly cost-effective.



80-300mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 40-150mm F4.0-5.6

Max. dia. x Length = ϕ 65.5 mm x 72 mm
Weight = 220 g Filter diameter = ϕ 58 mm

300mm lens elements in a short 72 mm body.



140-600mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL ED 70-300mm F4.0-5.6

Max. dia. x Length = ϕ 80 mm x 127.5 mm
Weight = 615 g Filter diameter = ϕ 58 mm

Compact super-telephoto zoom lens with handheld shooting capability.



70mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL 35mm F3.5 Macro

Max. dia. x Length = ϕ 71 mm x 53 mm
Weight = 165 g Filter diameter = ϕ 52 mm

Macro lens with 1x shooting capability.



50mm (35mm equivalent) OLYMPUS: ZUIKO DIGITAL 25mm F2.8

Max. dia. x Length = ϕ 64 mm x 23.5 mm
Weight = 95 g Filter diameter = ϕ 43 mm

Pancake-type lens weighing only 95 g.

STANDARD



TATSUNO QUALITY is a term we use to denote the stringent quality standards that originated in our Tatsuno production center. These include the sophisticated polishing technique born of experienced craftsmanship, advanced aspherical lens element fabrication/ultra-high precision lens assembling technologies, and precise lens measuring technology that exploits the latest techniques available. Only lenses which live up to these standards are released to the world bearing the brand names, ZUIKO DIGITAL or M.ZUIKO DIGITAL.

Advanced optical technologies derived from TATSUNO QUALITY have made possible the development of powerful, high-performance lenses of the finest quality.

ZUIKO DIGITAL lenses - Outstanding reliability and superb performance made possible by the unique synergy of finely-honed craftsmanship and the latest optical technologies.

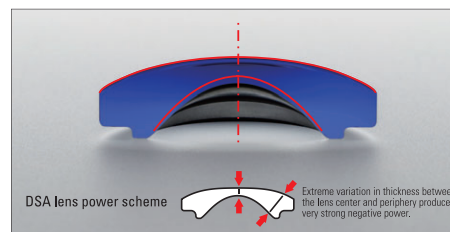
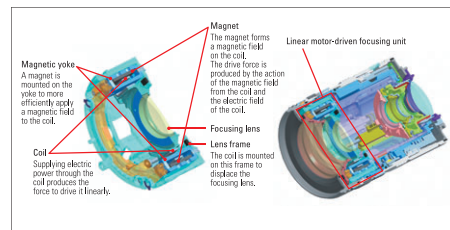


Picture quality is determined by the lens, and to make sure it always performs at its best without compromise, we built our advanced image stabilization system into the body of the camera and not the lens itself.

Lens, image sensor and image processing engine – optimizing the balance between these three elements is the key to achieving the highest picture quality. The lens is particularly important as it collects the light at the beginning; that is, it captures the source image with which all the other elements must work. That being the case, we felt it critical that nothing impair the optical performance of the lens and so decided to build the image stabilization mechanism inside the camera, rather than in the lens. The built-in image stabilization mechanism compensates for camera shake by shifting the image sensor in response to any movement. This design allows the lens to exhibit its maximum performance, while facilitating a reduction in size and weight as there is no need to incorporate image stabilization technology in the lens.

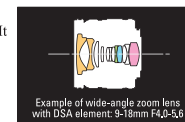
New, linear motor-driven MSC (Movie & Still Compatible) mechanism achieves faster, quieter AF.

The newly developed linear motor drive makes focusing faster and quieter than before. A linear motor in which the coil is moved linearly by electromagnetic force drives the focusing unit at a high speed of 50 mm/sec., while position detection is performed 12,000 times/sec., enabling the subject's position to be accurately pinpointed to the order of μm . The new mechanism drives the coil directly without using a gear, making autofocus both quieter and faster than before.



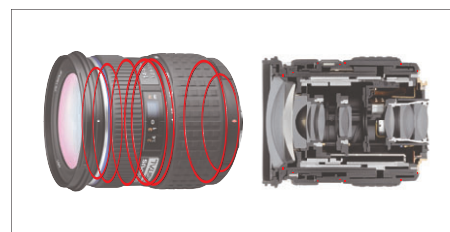
Large-aperture DSA lens processing technology unique to Olympus.

The DSA (Dual Super Aspherical) lens has aspherical surfaces on both sides and is capable of correcting aberrations. Because the thickness of the lens varies significantly between the center and the periphery, it is extremely difficult to fabricate. Only Olympus possesses processing technology sophisticated enough to perform this feat, making this a technology unique to Olympus. It is this technology that makes it possible for Olympus to offer lenses that are at once extremely compact and capable of providing high picture quality.



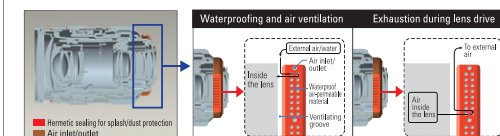
ZERO coating minimizes ghosts and flares.

The ZERO (Zuiko Extra-low Reflection Optical) coating is an advanced anti-reflection coating technique based on thin film control technology using the most advanced multilayer film fabrication technology. This coating cuts the reflectance of 450 to 600 nm wavelength light by half, achieving imaging performance with a strong sense of clarity. Even when the lens surface is rubbed, this coating protects the lens from being scratched and allows it to maintain low reflectance. In addition, it can minimize the generation of ghosts and flares, even under unfavourable conditions such as backlit shooting.



Reliable "splash/dust-proof mechanism" – pride of Olympus

Sealing rings are installed in multiple locations inside the lens to prevent penetration of water and dust. This mechanism ensures secure shooting under the most severe conditions.





With their excellent imaging capabilities, Lumix and Leica lens technologies make possible superb picture quality.

Advanced optical technology optimized for digital and offering dramatic results in both still and movie pictures.



LUMIX G X lens

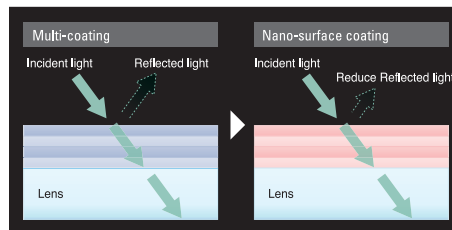
This new lens series takes a major leap in photographic potential, and strikes a bold challenge to the limits of Image rendering.

It delivers sharp, corner-to-corner contrast and features a Nano Surface Coating to bring ghost and flaring to an absolute minimum. It also produces crisp texture and incredible transparency.



Aspherical Lenses

To assure superior image quality while reducing size and weight, each LUMIX G/LEICA DG lens features a number of aspherical lenses that effectively prevent lens aberration, such as spherical and distortion aberration. Each aspherical lens has the effect of several spherical lenses, so a higher magnification ratio can be achieved with fewer lenses. The result is smaller overall size and weight. Aspherical lenses are extremely difficult to produce, however, because they demand high dimensional accuracy. In the past this restricted the applicable lens shapes and materials, but Panasonic has made great strides in this area. Our Yamagata Plant began developing cutting-edge production technologies for molded lenses early on, and today the plant manufactures a wide variety of lenses including concave lenses that have a large thickness difference and measure a mere 0.3mm at The thinnest part. The aspherical lenses with superb image rendering ability produced at this plant now see widespread use.



Nano Surface Coating

The Nano Surface Coating was developed originally by Panasonic. By forming a thin film with an ultra-fine nano-level structure and a super-low refractive index on the lens surface, Panasonic has achieved a dramatic reduction in the amounts of light reflection over the entire visible light range (from 380 to 780nm). This significantly decrease ghosts and flaring and renders pure and clear images. This advanced coating technology is highly acclaimed by the camera and lens industry.

Power Zoom

This is the world's first* zoom mechanism that uses a motor, unlike the conventional system that requires manual turning of the zoom ring. It makes zooming as easy as pressing the zoom lever located on the side of the lens barrel. It dramatically improves the ease of zooming operation. It eliminates the need to manually operate the zoom lens, thus significantly reducing the hand-shake the tends to occur when zooming while video shooting. You can now record blur-free motion pictures easily.

* In digital cameras with interchangeable lens, as of October 13,2011



POWER O.I.S. / MEGA O.I.S. (Optical Image Stabilizer)

The smaller and lighter the camera body, the greater the hand-shake effect during shooting. LUMIX G/LEICA DG lenses feature MEGA O.I.S., an image stabilizing function that has been highly evaluated by compact camera users. An internal LSI processes the output of the system's gyro sensors approximately 4,000 times a second to provide accurate compensation for even tiny amounts of hand-shake. Unlike image stabilizing functions that are built into the camera body, this highly accurate function also lets you check the compensation effect directly through the Live View Finder or on the LCD. The images that you capture have the same shake-free beauty as what you see on the Live View Finder or the LCD. The compensation effect is also carefully matched to each lens. MEGA O.I.S. is especially effective for hand-held shooting with a zoom lens. What's more, some LUMIX G lenses come with POWER O.I.S. which offers a more advanced hand-shake compensation effect than MEGA O.I.S. It not only compensates tiny amounts of fine, fast hand-shake but also suppresses large, slow movement twice more effectively. (Panasonic measurement method)



SIGMA



【 Original Sigma technology and expertise gained from decades of experience, guided by an uncompromising philosophy. 】

SIGMA DN Lens

High-performance lenses, designed exclusively for mirrorless interchangeable lens cameras. The latest technology for the lens design ensures high optical performance, a compact construction and quiet autofocus. The superior telecentricity assures sharp and high resolution image quality across the entire image plane.



Aspherical Lens

Sigma's aspherical lens technology contributes to outstanding optical performance and compact dimensions. These aspherical lens elements compensate for the spherical aberration and distortion which cannot be completely eliminated using conventional spherical lens elements alone. They are also the key to reducing the size and weight of large lenses while improving image quality.

Super Multi-Layer Coating

Sigma's own Super Multi-Layer Coating suppresses flare and ghosting by preventing reflections within the lens. For digital cameras, flare and ghosting may also be caused by reflections between the image sensor and lens surfaces. Here too, Sigma's Super Multi-Layer Coating is highly effective, assuring images with outstanding contrast.

Rounded Diaphragm

The polygonal shape of a conventional iris diaphragm causes out-of-focus light points to appear also polygonal. A rounded diaphragm is designed to produce rounded out-of-focus light points when opened to near maximum aperture. This creates attractive bokeh effects in many situations, such as when photographing a subject against an out-of-focus surface of water on which light is being reflected.

COSINA



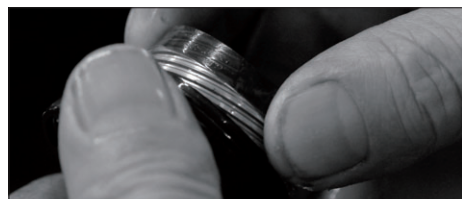
【 High-quality optical products from Cosina 】

Cosina is committed to creating and manufacturing products that people will enjoy and appreciate for many years. We believe that our products should enable users to enjoy the act of shooting itself and to reflect their intentions accurately – these are the ideals that shape every Cosina product. The performance of a lens cannot be represented simply by an MTF graph showing the resolution performance of a single plane. Many important aspects of lens performance, such as “defocusing”, cannot be expressed in numerical values. When we design our products, we take this into account, designing lenses that focus as much on imaging performance as resolution. The beauty of their defocusing effect is what distinguished many of the most famous lenses of the past. Taking advantage of ongoing studies based on actual shooting results, Cosina has leveraged its expertise to reflect the results of these studies in its designs. As a result, we are able to offer lens products that fuse the historical charm of beautiful defocusing equivalent to the most renowned lenses with the latest optical technology.



Advanced fabrication supported by traditional craftsmanship.

Cosina's manufacturing philosophy is simple. “Since our products are made to be used by humans, it is not possible to fabricate good products without human help in the fabrication process.” Because the company feels that human intervention is a critical aspect of the manufacturing process, all glass material processing, metal processing and assembly is conducted at its domestic plant where master craftsman working with the newest technologies apply their inimitable skills and experience to the creation of high-quality lenses. It is only through human intervention in the fabrication process that such ineffable aspects as texture and appearance – that cannot be identified by accurate measurements and processing – can be refined to match user needs.



For example, the key to implementing a focusing mechanism with smooth movement is a small helicoidal part. Although this part can be built to perfection by a machine working alone, an expert artisan checks and adjusts the work and behaviour of each helicoid to ensure a feeling of smooth operation that will give users a sense of control over the final product.

Kenko Tokina



Actual Size



【 Tokina expands the new option of “lightness” 】

Tokina decided to participate in the Micro Four Thirds System for one very simple reason. “The small image sensor and shorter flange back” of the Micro Four Thirds System offer a tremendous advantage in optical design. This makes it possible to develop “new lenses completely different from conventional ones.”

“What kind of lens will users of Micro Four Thirds cameras most appreciate?”

Tokina's answer to this question – “a lens that offers characteristics matching those of the camera body” – is based on the deep understanding and knowledge it has gained over its many years as a dedicated lens manufacturer.

Reflex 300mm F6.3 MF Macro (Manual Focus)

Super-telephoto lens that fits in the palm of your hand.

The Reflex 300mm F6.3 MF Macro lens employs Reflex optics to reduce the overall length of the lens by reflecting light with a mirror. The result is previously inconceivable compactness with a length of 66 mm, maximum diameter of 66 mm, and weight of 330 grams.

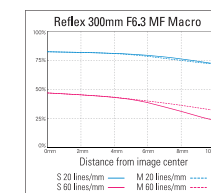
High-precision mirror and aluminium enhanced-reflection mirror coating.
The key to Reflex optics is the surface accuracy of the mirror, so this lens employs a mirror polished with OSCAR-type low-speed grinding to provide a high accuracy equivalent to the test plate glass (Newton gauge). In addition, the aluminium reflection film is treated with special processing to improve the reflection index of the reflection mirror.

Closest focusing distance of 0.8 m.

The Reflex 300mm F6.3 MF Macro lens is not only a super-telephoto lens. It can also approach subjects to a closest focusing distance of 0.8 meters and shoot pictures with a macro magnification of 1:2. This telephoto macro lens is capable of macro shooting while reserving a working distance.

Manual focusing for maximum accuracy.

Tokina chose not to provide this lens with AF because of the large focusing rotation angle from ∞ to the closest focusing distance of 0.8 m and of the requirement for very precise focusing with some very narrow angles of view, 4°8' at 300mm, for example. Consequently, we decided that manual operation would make focusing more accurate and allow users to feel the “joy of photography.” Nevertheless, this lens incorporates a distance encoder just like AF lenses so it is capable of interfacing with the camera to provide distance information.



TAMRON

Along the way, an encounter with light.

The Tamron high-power zoom lens embraces its 20th anniversary.

Photo by Norifumi Inagaki

A genuine Tamron lens
especially for your Micro Four Thirds camera.

Micro Four Thirds users now can have
the same high expectations as every Tamron user.

TAMRON
New eyes for industry

Micro Four Thirds Cine-Systems

The skill optimized for Micro Four Thirds movies is exciting the world of motion pictures.

Micro Four Thirds is the perfect partner for creating movies. Small size in tandem with: an image area that almost identical to that of 35mm cine films, the ability to use professional-standard PL-mount movie lenses via an adapter, and an image sensor with a large size and higher image quality than the 2/3" sensors used in existing professional video cameras makes Micro Four Thirds the breakthrough that many in the movie industry have been waiting for. The professional movie camera released by Panasonic in the autumn of 2010 has received widespread acclaim from organizations and individuals. And with its ability to fit into small, tight shooting situations, the Olympus PEN E-P1 has been utilized to film a Hollywood produced movie.



ZEISS

SCHNEIDER

HORSEMAN

ASTRO

Cine-Lens Compact Prime CP.2



Compact Prime CP.2
Distagon T* 28mm/T2.1



Compact Prime CP.2
Planar T* 85mm/T2.1

Lens Lineup

Super Wide Angle	Standard
Compact Prime CP.2 18mm/T3.6	Compact Prime CP.2 50mm/T2.1
Compact Prime CP.2 21mm/T2.9	Tele
Wide Angle	Compact Prime CP.2 85mm/T2.1
Compact Prime CP.2 25mm/T2.9	Compact Prime CP.2 100mm/T2.1 CF**
Compact Prime CP.2 28mm/T2.1	Macro
Compact Prime CP.2 35mm/T2.1	Compact Prime CP.2 50mm/T2.1 Makro

The legendary Carl Zeiss has decided to include Micro Four Thirds System compatibility in its new-generation high-quality cine-lenses. Carl Zeiss's new-generation Compact Prime CP.2 Series of high-quality cine-lenses are widely used in mobile-critical news reporting, as well as in movie productions. Used by professionals worldwide, the lens models used with camera/recorders incorporating industry-standard 2/3" sensors have already demonstrated excellent performance and mobility.

*These lenses can be mounted on cameras compliant with the Micro Four Thirds System standard. Some functions may be restricted. Please check with the camera manufacturer for details. ** CF: Close focus capability

Cine-Lens Cine-Xenar



Cine-Xenar 95mm/T2.0



PL-Mount Adapter for
Micro Four Thirds System

Lens Lineup

Cine-Xenar 25mm/T2.2
Cine-Xenar 35mm/T2.1
Cine-Xenar 50mm/T2.0
Cine-Xenar 75mm/T2.0
Cine-Xenar 95mm/T2.0

Schneider Kreuznach decided to make its top lenses compatible with the Micro Four Thirds System.

The new Cine-Xenar Series of premium lenses from the renowned firm Schneider Kreuznach are pioneering a new age in digital cinema lens performance. Featuring a telecentric optical system, these lenses manifest excellent performance when combined with a digital camera. Boasting large apertures and rigid construction, these lenses will expand the freedom of camera operators in pursuit of creativity.

*These lenses can be mounted on cameras compliant with the Micro Four Thirds System standard. Some functions may be restricted. Please check with the camera manufacturer for details.

Lens Accessory Tilt / Shift Lens Control System HORSEMAN TS-pro



Proven on large-format cameras, Horseman's tilt mechanism now has Micro Four Thirds System compatibility.

The HORSEMAN TS-Pro tilt/shift lens control system enables tilt shooting with an ordinary lens. When used with a Micro Four Thirds System-compliant camera, this mechanism will make an expanded selection of lenses available thanks to its image circle design.

*These products can be mounted on cameras compliant with the Micro Four Thirds System standard. Some functions may be restricted. Please check with the camera manufacturer for details.

Professional High-Definition 4k Camera Head AH-4413



Super high-quality movie camera head with QFHD (3840 x 2160) resolution and Micro Four Thirds System compatibility.

This super high-quality movie camera head incorporates a 8.9-megapixel CMOS image sensor. The 4k image captured with the AH-4413 is supplied to the AP-4414 camera processing unit for conversion into an SDI DUAL LINK signal (1080/59.94p) before being output.

*Lenses compliant with the Micro Four Thirds System standard can be mounted on the camera. Some functions may be restricted. Please check with the camera manufacturer for details.

ACCESSORIES

CONVERTER LENS

For MICRO FOUR THIRDS



OLYMPUS : Fisheye Converter FCON-P01

When attached to the M.ZUIKO DIGITAL 14-42mm F3.5-5.6 II R lens (set to the wide-angle end of 14mm), this converter enables fisheye photography that offers an optimum deformation effect with an angle of view of 120°.

* Use at the wide-angle end (focal length 14mm) is recommended.
* The decoration ring cannot be used in combination.
* Cannot be mounted on the M.ZUIKO DIGITAL ED 14-42mm F3.5-5.6 lens.



OLYMPUS : Wide Converter WCON-P01

When attached to the M.ZUIKO DIGITAL 14-42mm F3.5-5.6 II R lens (set to the wide-angle end of 14mm), this converter makes it possible to shoot wide-angle pictures with a focal length of 11mm (equivalent to 22mm of 35mm film cameras).

* Use at the wide-angle end (focal length 14mm) is recommended.
* The decoration ring cannot be used in combination.
* Cannot be mounted on the M.ZUIKO DIGITAL ED 14-42mm F3.5-5.6 lens.



OLYMPUS : Macro Converter MCON-P01

When attached to the M.ZUIKO DIGITAL 14-42mm F3.5-5.6 II R lens (set to the telephoto end of 42mm (equivalent to 84mm of 35mm cameras)), this converter increases the maximum shooting magnification from 0.19X (equivalent to 0.38X of 35mm cameras) to 0.28X (equivalent to 0.56X of 35mm cameras).

* The macro adapter provided with this converter is required.
* Use at the telephoto end (focal length 42mm) is recommended.
* The decoration ring cannot be used in combination.
* Cannot be mounted on the M.ZUIKO DIGITAL ED 14-42mm F3.5-5.6 lens.
* When the MCON-P01 is removed, the converter can also be mounted on the M.ZUIKO DIGITAL ED 40-150mm F4.0-5.6 R, ED 40-150mm F4.0-5.6 or ED 14-150mm F4.0-5.6.

For FOUR THIRDS



OLYMPUS : ZUIKO DIGITAL 2x Teleconverter EC-20

Doubles the focal length of the master lens.

* The effective F-number of attached lens drops by 2 stops.
* For restrictions on AF/MF modes, see specifications on page 29.
* Before using the EC-20, be sure to update the camera firmware to the latest version to assure optimum focusing accuracy. For details, visit the website of the product manufacturer.



OLYMPUS : ZUIKO DIGITAL 1.4x Teleconverter EC-14

Extends the focal length of the master lens by 1.4x.

* The effective F-number of attached lens drops by 1 stop.
* For restrictions on AF/MF modes, see specifications on page 29.
* Before using the EC-14, be sure to update the camera firmware to the latest version to assure optimum focusing accuracy. For details, visit the website of the product manufacturer.



OLYMPUS : Extension Tube EX-25

This is an intermediate ring that enables close-up photography when mounted between the camera body and interchangeable lens.

* Manual focusing is recommended.
* The photographing magnification is variable depending on the master lens.
* For details on the lens combination, visit the website of the product manufacturer.

ADAPTER

For MICRO FOUR THIRDS



OLYMPUS : Four Thirds Adapter MMF-3

Mount adapter for use in mounting a Four Thirds lens on the Micro Four Thirds lens mount.



OLYMPUS : OM Adapter MF-2

Mount adapter for use in mounting an Olympus OM system lens on the Micro Four Thirds lens mount.

* OM system lenses that can be combined with this adapter are limited.
* The manufacture of the OM system lenses is discontinued.
* For details, visit the website of Olympus Imaging Corp.



Panasonic : DMW-MA2M

Mount adapter for use in mounting an M-mount lens of Leica Camera AF on the Micro Four Thirds lens mount.



Voigtlander : VM Micro Four Thirds Adapter (COSINA)

Mount adapter for use in mounting a Voigtlander VM-mount lens, Carl Zeiss ZM-mount lens or Voigtlander L-mount lens (in combination with an optional M-Bayonet Adapter Ring) on the Micro Four Thirds lens mount.



Panasonic : DMW-MA1

Mount adapter for use in mounting a Four Thirds lens on the Micro Four Thirds lens mount.



Panasonic : DMW-MA3R

Mount adapter for use in mounting an M-mount lens of Leica Camera AF on the Micro Four Thirds lens mount.



Voigtlander : F Micro Four Thirds Adapter (COSINA)

Mount adapter for use in mounting a Voigtlander Ai-S-mount lens or Carl Zeiss ZF-mount lens on the Micro Four Thirds lens mount.

For FOUR THIRDS



OLYMPUS : OM Adapter MF-1

Mount adapter for use in mounting an Olympus OM system lens on the Four Thirds lens mount.

* OM system lenses that can be combined with this adapter are limited.
* The manufacture of the OM system lenses is discontinued.
* For details, visit the website of Olympus Imaging Corp.




M.ZUIKO DIGITAL 14-42mm F3.5-5.6 II + Fisheye Converter FCON-P01 : 1/250sec. F8.0

SPECIFICATIONS (ACCESSORIES)


	Lens	Manufacturer	Splash-/Dust-Proof	Lens Construction Elements - Groups	Diameter(φ) x Length (mm / in.)	Weight (g / oz.)	Lens Rear Cap	Lens Front Cap
Adapter	Four Thirds Adapter MMF-3	OLYMPUS	Yes	—	φ65×19.5 / φ2.6×0.77	42 / 1.5	LR-2	BC-1
	Four Thirds Adapter DMW-MA1	Panasonic	—	—	φ71×19.5 / φ2.8×0.77	87 / 3.1	—	—
	OM Adapter MF-2	OLYMPUS	—	—	φ62×26.5 / φ2.44×1.0	78 / 2.8	—	—
	Leica M-Mount Adapter DMW-MA2M	Panasonic	—	—	φ61×13 / φ2.4×0.51	60 / 2.1	—	—
	Leica R-Mount Adapter DMW-MA3R	Panasonic	—	—	φ67×33 / φ2.64×1.3	90 / 3.2	—	—
	VM Micro Four Thirds Adapter (COSINA)	Voigtlander	—	—	φ56×13 / φ2.2×0.51	45 / 1.6	—	—
Converter	F Micro Four Thirds Adapter (COSINA)	Voigtlander	—	—	φ60×32 / φ2.36×1.26	88 / 3.1	—	—
	Fisheye Converter FCON-P01	OLYMPUS	—	3 - 3	φ62×38 / φ2.44×1.5	112 / 4.0	—	—
	Wide Converter WCON-P01	OLYMPUS	—	2 - 2	φ62×30.5 / φ2.44×1.2	85 / 3.0	—	—
	Macro Converter MCON-P01	OLYMPUS	—	1 - 1	φ69×15 / φ2.72×0.59	23 / 0.8	—	—
	Converter Lens Set 3CON-P01	OLYMPUS	—	—	—	—	—	—

	Lens	Manufacturer	Splash-/Dust-Proof	Lens Construction Elements - Groups	Diameter(φ) x Length (mm / in.)	Weight (g / oz.)	Lens Rear Cap	Lens Front Cap	Lens Case
Teleconverter etc.	ZUIKO DIGITAL 2x Teleconverter EC-20	OLYMPUS	Yes	7 - 5	φ68×41 / φ2.68×1.61	225 / 7.9	LR-1	BC-1	LSC-0814
	ZUIKO DIGITAL 1.4x Teleconverter EC-14	OLYMPUS	Yes	6 - 5	φ68×22 / φ2.68×0.87	170 / 6.0	LR-1	BC-1	LSC-0710
	Extension Tube EX-25	OLYMPUS	Yes	—	φ68×25 / φ2.68×0.98	150 / 5.3	LR-1	BC-1	LSC-0710
	OM Adapter MF-1	OLYMPUS	—	—	φ62×7.5 / φ2.44×0.30	50 / 1.8	—	—	—

SPECIFICATIONS

		Lens	Manufacturer	35mm Equivalent Focal length	Splash-/Dust-Proof	Motorized zoom	Image Stabilizer*	Lens Construction Elements - Groups	Angle of View	Number of Blades	Minimum Aperture	Closest Focusing Distance (m / in.)	Maximum Image Magnification (35mm equivalent)	Filter Size (mm)	Diameter(Φ) x Length (mm / in.)	Weight (g / oz.)	Lens Rear Cap	Lens Front Cap (): Optional	Lens Hood (): Optional	Lens Case (): Optional
Micro Four Thirds	Image	LUMIX G VARIO 7-14mm F4.0 ASPH.	Panasonic	14-28mm	—	—	—	16 - 12	114°- 75°	7(Circular aperture diaphragm)	22	0.25 / 9.84	0.08x(0.15x)	—	Φ70×ca.83.1 / Φ2.76×ca.3.27	300 / 10.58	—	—	—	—
		M.ZUKO DIGITAL ED 9-18mm F4.0-5.6	OLYMPUS	18-36mm	—	—	—	12 - 8	100°-62°	7(Circular aperture diaphragm)	22	0.25 / 9.84	0.10x(0.20x)	52	Φ56.5×49.5 / Φ2.22×1.95(when retracted)	155 / 5.5	LR-2	LC-52C	(LH-55B)	(LSC-0814)
Standard Zoom		M.ZUKO DIGITAL ED 12-50mm F3.5-6.3 EZ	OLYMPUS	24-100mm	Yes	Yes	—	10 - 9	84°- 24°	5(Circular aperture diaphragm)	22	0.35 / 13.78(Normal mode) 0.2 / 7.87(Macro mode)	0.38x(0.72x) (Macro mode)	52	Φ57×83 / Φ2.24×3.27	212 / 7.5	LR-2	LC-52C	(LH-55B)	(LSC-0814)
		M.ZUKO DIGITAL ED 14-42mm F3.5-5.6 IIR	OLYMPUS	28-84mm	—	—	—	8 - 7	75°- 29°	7(Circular aperture diaphragm)	22	0.25 / 9.84(14mm focal length) 0.3 / 11.81(28-42mm focal length)	0.19x(0.38x)	37	Φ56.5×50 / Φ2.22×1.97 (when retracted)	113 / 4.0	LR-2	LC-37B	(LH-40)	(LSC-0814)
		LUMIX G X VARIO PZ 14-42mm F3.5-5.6 ASPH. POWER O.I.S.	Panasonic	28-84mm	—	Yes	Yes	9 - 8	75°- 29°	7(Circular aperture diaphragm)	22	0.3 / 11.81(14mm focal length) 0.3 / 11.81(28-42mm focal length)	0.17x(0.34x)	37	Φ61×ca.26.8 / Φ2.40×ca.1.06 (when retracted)	ca.95 / ca.3.4	—	—	—	—
		LUMIX G VARIO 14-45mm F3.5-5.6 ASPH. MEGA O.I.S.	Panasonic	28-90mm	—	—	—	12 - 9	75°- 27°	7(Circular aperture diaphragm)	22	0.3 / 11.81	0.17x(0.34x)	52	Φ60×ca.60 / Φ2.36×ca.2.36	195 / 6.88	—	—	—	—
Telephoto Zoom		LUMIX G VARIO HD 14-140mm F4.0-5.8 ASPH. MEGA O.I.S.	Panasonic	28-290mm	—	—	Yes	17 - 13	75°- 6.8°	7(Circular aperture diaphragm)	22	0.5 / 19.69	0.2x(0.4x)	62	Φ70×ca.84 / Φ2.76×ca.3.31	460 / 16.2	—	—	—	—
		M.ZUKO DIGITAL ED 14-150mm F4.0-5.6	OLYMPUS	28-300mm	—	—	—	15 - 11	75°- 6.2°	7(Circular aperture diaphragm)	22	0.5 / 19.69	0.24x(0.48x)	58	Φ63.5×83 / Φ2.50×3.27	260 / 9.2	LR-2	LC-58E	(LH-61C)	(LSC-0814)
		M.ZUKO DIGITAL ED 40-150mm F4.0-5.6 R	OLYMPUS	80-300mm	—	—	—	13 - 10	30°- 8.2°	7(Circular aperture diaphragm)	22	0.9 / 35.43	0.16x(0.32x)	58	Φ63.5×83 / Φ2.50×3.27	190 / 6.7	LR-2	LC-58E	(LH-61D)	(LSC-0814)
		LUMIX G X VARIO PZ 45-175mm F4.0-5.6 ASPH. POWER O.I.S.	Panasonic	90-350mm	—	Yes	Yes	14 - 10	27°- 7.1°	7(Circular aperture diaphragm)	22	0.9 / 35.43	0.2x(0.4x)	46	Φ61.6×ca.90 / Φ2.43×ca.3.54	210 / 7.41	—	—	—	—
Prime		LUMIX G VARIO 45-200mm F4.0-5.6 MEGA O.I.S.	Panasonic	90-400mm	—	—	Yes	16 - 13	27°- 6.2°	7(Circular aperture diaphragm)	22	1.0 / 39.4	0.19x(0.38x)	52	Φ70×ca.100 / Φ2.76×ca.3.94	380 / 13.4	—	—	—	—
		M.ZUKO DIGITAL ED 75-300mm F4.8-6.7	OLYMPUS	150-600mm	—	—	—	18 - 13	16°- 4.1°	7(Circular aperture diaphragm)	22	0.3 / 11.81(75mm focal length) 0.3 / 11.81(150-300mm focal length)	0.18x(0.36x)	58	Φ70×116 / Φ2.76×4.57	430 / 15.2	LR-2	LC-58E	(LH-61E)	(LSC-0918)
		LUMIX G VARIO100-300mm F4.0-5.6 MEGA O.I.S.	Panasonic	200-600mm	—	—	Yes	17 - 12	12°- 4.1°	7(Circular aperture diaphragm)	22	1.5 / 59.06	0.21x(0.42x)	67	Φ73.6×ca.126 / Φ2.90×ca.4.96	ca.520 / ca.16.3	—	—	—	—
		LUMIX G FISHEYE 8mm F3.5	Panasonic	16mm	—	—	—	10 - 9	180°	7(Circular aperture diaphragm)	22	0.1 / 3.96	0.2x(0.4x)	22×22	Φ60.7×ca.51.7 / Φ2.39×ca.2.04	165 / 5.82	—	—	—	—
		M.ZUKO DIGITAL ED 12mm F2.0	OLYMPUS	24mm	—	—	—	11 - 8	84°	7(Circular aperture diaphragm)	22	0.2 / 7.87	0.08x(0.16x)	46	Φ56×43 / Φ2.20×1.69	130 / 4.6	LR-2	LC-46	(LH-48)	(LSC-0710)
		LUMIX G 12.5mm F12	Panasonic	65mm	—	—	—	4 - 3	37°	Fixed diaphragm	12(Fixed)	0.6 / 23.62	0.02x(0.1x)	—	Φ57×ca.20.5 / Φ2.24×ca.0.81	ca.45 / ca.1.59	—	—	—	—
		LUMIX G 14mm F2.5 ASPH.	Panasonic	28mm	—	—	—	6 - 5	75°	7(Circular aperture diaphragm)	22	0.18 / 7.09	0.1x(0.2x)	46	Φ55.5×ca.20.5 / Φ2.04×ca.0.81	ca.35 / ca.1.9	—	—	—	—
		M.ZUKO DIGITAL 17mm F2.8	OLYMPUS	34mm	—	—	—	6 - 4	65°	5(Circular aperture diaphragm)	22	0.2 / 7.87	0.11x(0.22x)	37	Φ57×22 / Φ2.24×0.87	71 / 2.5	LR-2	LC-37	—	(LSC-0710)
		SIGMA 19mm F2.8 EX DN	SIGMA	38mm	—	—	—	8 - 6	59.3°	7(Circular aperture diaphragm)	22	0.2 / 7.87	0.14x(0.27x)	46	Φ60.6×45.7 / Φ2.39×1.80	140 / 4.99	LCR-MFT	LCF II-46	LHS20-02	LS-400H
		LUMIX G 20mm F1.7 ASPH.	Panasonic	40mm	—	—	—	7 - 5	57°	7(Circular aperture diaphragm)	16	0.2 / 7.87	0.13x(0.25x)	46	Φ63×ca.25.5 / Φ2.48×ca.1.00	100 / 3.53	—	—	—	—
		LEICA DG SUMMILUX 25mm F1.4 ASPH.	Panasonic	50mm	—	—	—	9 - 7	47°	7(Circular aperture diaphragm)	16	0.3 / 11.81	0.11x(0.22x)	46	Φ63×ca.54.5 / Φ2.48×ca.2.15	ca.200 / ca.7.05	—	—	—	—
		NIKKON 25mm F0.95 (COSINA)	Vogel&Löhner	50mm	—	—	—	11 - 8	47.3°	10	16	0.17 / 6.69	0.27x(0.54x)	52	Φ58.4×70 / Φ2.30×2.76	410 / 14.5	—	—	—	—
Prime		SIGMA 30mm F2.8 EX DN	SIGMA	60mm	—	—	—	7 - 5	39.6°	7(Circular aperture diaphragm)	22	0.3 / 11.81	0.12x(0.24x)	46	Φ60.4×38.6 / Φ2.39×1.52	135 / 4.76	LCR-MFT	LCF II-46	—	LS-330H
		M.ZUKO DIGITAL 45mm F1.8	OLYMPUS	90mm	—	—	—	9 - 8	27°	7(Circular aperture diaphragm)	22	0.5 / 19.69	0.11x(0.22x)	37	Φ56×46 / Φ2.20×1.81	116 / 4.1	LR-2	LC-37B	LH-40B	(LSC-0814)
		Reflex 300mm F6.3 MF Macro	Kenko Tokina	600mm	—	—	—	7 - 3	4°8'	None (Reflex type)	—	0.8 / 31.49	0.5x(1.0x)	55	Φ66×66 / Φ2.60×2.60	330 / 11.64	Available	Available	BH-552	—
		LEICA DG MACRO-ELMARIT 45mm F2.8 ASPH. MEGA O.I.S.	Panasonic	90mm	—	—	Yes	14 - 10	27°	7(Circular aperture diaphragm)	22	0.5 / 19.69(45mm focal length) 0.5 / 19.69(90mm focal length)	1.0x(2.0x)	46	Φ63×ca.62.5 / Φ2.48×ca.2.46	225 / 7.94	—	—	—	—

* Since the image stabilizers of Olympus products are built into the camera bodies, image stabilization is available with any lens. (Corresponding models: OLYMPUS OM-D series, OLYMPUS PEN series)
• The products for the Four Thirds System such as the EC-14/EC-20 and EX-25 cannot be attached.

		Lens	Manufacturer	35mm Equivalent Focal length	Splash-/Dust-Proof	Supersonic Motor AF	Image Stabilizer*	Lens Construction Elements - Groups	Angle of View	Number of Blades	Minimum Aperture	Closest Focusing Distance (m / in.)	Maximum Image Magnification (35mm equivalent)	Filter Size (mm)	Diameter(Φ) x Length (mm / in.)	Weight (g / oz.)	Lens Rear Cap	Lens Front Cap (i. Optional)	Lens Hood (i. Optional)	Lens Case (i. Optional)	Compatibility			Compatibility	
																					EC-20	EC-14	EX-25	DMW-M1	MMF-3
Micro Zoom		ZUKO DIGITAL ED 7-14mm F4.0	OLYMPUS	14-28mm	Yes	—	—	18 - 12	114°- 75°	7(Circular aperture diaphragm)	22	0.25 / 9.84	0.11x(0.22x)	—	Φ86.5×119.5 / Φ3.41×4.70	780 / 27.5	LR-1	LC-87	Built in	LSC-1022	Yes	Yes	—	Yes	Yes
		ZUKO DIGITAL ED 9-18mm F4.0-5.6	OLYMPUS	18-36mm	—	—	—	13 - 9	100°- 62°	7(Circular aperture diaphragm)	22	0.25 / 9.84	0.12x(0.24x)	72	Φ79.5×73 / Φ3.13×2.87	275 / 9.7	LR-1	LC-72B	LH-75C	(LSC-0918)	Yes	—	—	Yes	Yes
		ZUKO DIGITAL 11-22mm F2.8-3.5	OLYMPUS	22-44mm	Yes	—	—	12 - 10	89°- 53°	7	22	0.28 / 11.02	0.13x(0.26x)	72	Φ75×92.5 / Φ2.95×3.64	485 / 17.1	LR-1	LC-72B	LH-75	(LSC-0918)	Yes	Yes	—	Yes	Yes
Standard Zoom		ZUKO DIGITAL ED 12-60mm F2.8-4.0 SWD	OLYMPUS	24-120mm	Yes	Yes	—	14 - 10	84°- 20°	7(Circular aperture diaphragm)	22	0.25 / 9.84	0.28x(0.56x)	72	Φ79.5×98.5 / Φ3.13×3.88	575 / 20.3	LR-1	LC-72B	LH-75B	(LSC-0918)	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 14-35mm F2.0 SWD	OLYMPUS	28-70mm	Yes	—	—	18 - 17	75°- 34°	9(Circular aperture diaphragm)	22	0.35 / 13.78	0.12x(0.24x)	77	Φ86×123 / Φ3.39×4.84	900 / 31.7	LR-1	LC-77	LH-82B	LSC-1122	Yes	—	—	Yes	Yes
		ZUKO DIGITAL ED 14-42mm F3.5-5.6	OLYMPUS	28-84mm	—	—	—	10 - 8	75°- 29°	7(Circular aperture diaphragm)	22	0.25 / 9.84	0.19x(0.38x)	58	Φ85.5×81 / Φ2.58×2.80	190 / 6.7	LR-1	LC-58C	LH-61C	(LSC-0814)	Yes	Yes	Yes	Yes	Yes
		LEICA D VARIO-ELMARIT 14-50mm F2.8-3.5 ASPH. MEGA O.I.S.	Panasonic	28-100mm	—	—	Yes	16 - 12	75°- 24°	7	22	0.29 / 11.42	0.16x(0.32x)	72	Φ78.1×97.4 / Φ3.83×1.22	490 / 17.3	VFC4185	YVF3089	YVC0949	VFC4206	Yes	—	—	Yes	Yes
		LEICA D VARIO-ELMAR 14-50mm F3.8-5.6 ASPH. MEGA O.I.S.	Panasonic	28-100mm	—	—	Yes	15 - 11	75°- 24°	7	22	0.29 / 11.42	0.21x(0.42x)	67	Φ74×93 / Φ2.91×3.66	434 / 15.3	VFC4185	YVF3160	YVC0972	VFC4206	Yes	Yes	—	Yes	Yes
		ZUKO DIGITAL ED 14-54mm F2.8-3.5 II	OLYMPUS	28-108mm	Yes	—	—	15 - 11	75°- 23°	7(Circular aperture diaphragm)	22	0.22 / 8.66	0.26x(0.52x)	67	Φ74.5×88.5 / Φ2.89×3.48	440 / 15.5	LR-1	LC-67B	LH-70D	LSC-0918	Yes	Yes	Yes	Yes	Yes
		LEICA D VARIO-ELMAR 14-150mm F3.5-5.6 ASPH. MEGA O.I.S.	Panasonic	28-300mm	—	Yes	Yes	15 - 11	75°- 8.2°	7	22	0.5 / 19.69	0.18x(0.36x)	72	Φ78.5×90.4 / Φ3.09×3.56	535 / 18.9	VFC4185	YVF3089	YVC0975	VFC4296	Yes	Yes	—	Yes	Yes
		ZUKO DIGITAL ED 18-180mm F2.8-6.3	OLYMPUS	36-360mm	—	—	—	15 - 13	62°- 6.9°	7	22	0.45 / 17.72	0.23x(0.46x)	62	Φ78×84.5 / Φ3.07×3.33	435 / 15.3	LR-1	LC-62B	LH-65	(LSC-0816)	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 35-100mm F2.0	OLYMPUS	70-200mm	Yes	—	—	21 - 18	34°- 12°	9(Circular aperture diaphragm)	22	1.4 / 55.12	0.09x(0.18x)	77	Φ96.5×213.5 / Φ3.80×8.41	1,650 / 58.2	LR-1	LC-77	LH-82	LSH-1326	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 40-150mm F4.0-5.6	OLYMPUS	80-300mm	—	—	—	12 - 9	30°- 8.2°	7(Circular aperture diaphragm)	22	0.9 / 35.43	0.14x(0.28x)	58	Φ65.5×72 / Φ2.58×2.83	220 / 7.8	LR-1	LC-58C	LH-61D	(LSC-0814)	Yes	Yes	Yes	Yes	Yes
Telephoto Zoom		ZUKO DIGITAL ED 50-200mm F2.8-3.5 SWD	OLYMPUS	100-400mm	Yes	Yes	—	16 - 15	24°- 6.2°	9(Circular aperture diaphragm)	22	1.2 / 47.24	0.21x(0.42x)	67	Φ86.5×157 / Φ3.41×6.18	995 / 32.5	LR-1	LC-67B	LH-70C	LSH-1220	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 70-300mm F4.0-5.6	OLYMPUS	140-600mm	—	—	—	14 - 10	18°- 4.1°	9(Circular aperture diaphragm)	22	0.5 / 19.69	0.50x(1.00x)	58	Φ80×127.5 / Φ3.15×5.02	615 / 21.7	LR-1	LC-58C	LH-61E	(LSC-1022)	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 90-250mm F2.8	OLYMPUS	180-500mm	Yes	—	—	17 - 12	14°- 5.0°	9(Circular aperture diaphragm)	22	2.5 / 98.43	0.08x(0.16x)	105	Φ124×276 / Φ4.88×10.87	3,270 / 115.3	LR-1	LC-140	LH-208	LSH-1738	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL 35mm F3.5 Macro	OLYMPUS	70mm	—	—	—	6 - 6	34°	7(Circular aperture diaphragm)	22	0.146 / 5.75	1.00x(2.00x)	52	Φ71×53 / Φ2.80×2.09	165 / 5.8	LR-1	LC-52B	—	(LSC-0814)	Yes	Yes	Yes	Yes	Yes
Macro		ZUKO DIGITAL ED 50mm F2.0 Macro	OLYMPUS	100mm	Yes	—	—	11 - 10	24°	7	22	0.24 / 9.45	0.52x(1.04x)	52	Φ71×61.5 / Φ2.80×2.42	300 / 10.6	LR-1	LC-52B	LH-55	LSC-0814	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 8mm F3.5 Fisheye	OLYMPUS	16mm	Yes	—	—	10 - 6	180°	7(Circular aperture diaphragm)	22	0.135 / 5.31	0.22x(0.44x)	—	Φ79×77 / Φ3.11×3.03	485 / 17.1	LR-1	LC-74	Built in	LSC-0814	Yes	Yes	—	Yes	Yes
Prime		LEICA D SUMMILUX 25mm F1.4 ASPH.	Panasonic	50mm	—	—	10 - 9	47°	7(Circular aperture diaphragm)	16	0.38 / 14.96	0.09x(0.17x)	62	Φ77.7×75 / Φ3.06×2.95	510 / 18.0	VFC4185	YVF3147	YVC0959	VFC4206	—	—	—	Yes	Yes	
		ZUKO DIGITAL 25mm F2.8	OLYMPUS	50mm	—	—	—	5 - 4	47°	7(Circular aperture diaphragm)	22	0.2 / 7.87	0.19x(0.38x)	43	Φ64×23.5 / Φ2.52×0.93	95 / 3.4	LR-1	LC-43B	(LH-43)	(LSC-0710)	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 150mm F2.0	OLYMPUS	300mm	—	—	—	11 - 9	8.2°	9(Circular aperture diaphragm)	22	1.4 / 55.12	0.13x(0.26x)	82	Φ100×150 / Φ3.94×5.91	1,465 / 51.7	LR-1	LC-82	LH-89	LSH-1220	Yes	Yes	Yes	Yes	Yes
		ZUKO DIGITAL ED 300mm F2.8	OLYMPUS	600mm	Yes	—	—	13 - 11	4.1°	9	22	2.4 / 94.12	0.15x(0.30x)	82	Φ127×285 / Φ5.00×11.22	3,290 / 116.0	LR-1	LC-140	LH-120	LSH-1738	Yes	Yes	Yes	Yes	Yes