Micro Four Thirds Lenses

Four Thirds Lenses

http://www.four-thirds.org/en/

Catalog contents as of January 2016
The active force

Micro Four Thirds System

An extraordinary combination of unlimited mobility and unprecedented image quality

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

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 telecentricity. However, lenses from the 35mm film camera era 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.

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. This problem can be resolved by using a Four Thirds System lens, which offers sharp, clear image reproduction throughout the image plane.

Micro Four Thirds with Further Size Reduction

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, it dramatically expands the potential of photography, taking it beyond even that made possible by previous SLR cameras.

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, and to reduce the lens mount diameter by about 6mm.

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.

Mount adapters allow a wide variety of lenses to be mounted

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 favorite lenses to good use.

About 50% reduction of flange back thanks to mirrorless design

The active force

An extraordinary combination of unlimited mobility and unprecedented image quality
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°.

Ultra-wide-angle zoom boasting maximum portability, brightness and optical performance
With an ultra-wide angle zoom lens featuring high mobility and excellent optical performance thanks to 4 ED lenses and aspherical lenses, this lens allows for architecture, night-sky and astrophotography.

Standard zoom lens covering an ample focal range
Four aspherical lens elements and two ED lens elements enable the fast distortion-free ultra wide angle of 24mm (35mm equivalent), this dustproof/splashproof 5X zoom lens is the ideal choice for just about any shooting situation.

Motorized standard zoom lens with motorized zoom mechanism
Features a motorized mechanism that ensures stable, smooth, zoom operation. This allows focusing thanks to its new MSC mechanism that achieves higher, quieter autofocus. This dual interlens element also enhances macro capability.

Standard zoom lens with compact size and light weight
With an extended focal length range starting at wide-angle 28mm (35mm equivalent), this dustproof/splashproof 5X zoom lens is the ideal choice for just about any shooting situation.

Standard zoom lens covering wide-angle focal lengths of less than 24mm (equivalent to 35mm film camera lenses)

Optical Image Stabilizer (inside lens)
Splash-/dust-proof
Aspherical lens
MSC
Electronic zoom
ED lens
Standard Zoom Lenses

Pansonic : LUMIX G VARIO 7-14mm F4,0-5.6

Pansonic : LUMIX G X VARIO 12-35mm F2,8 ASPH. POWER O.I.S.

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 photography.

Ultra-wide-angle zoom boasting maximum portability, brightness and optical performance
With an ultra-wide angle zoom lens featuring high mobility and excellent optical performance thanks to 4 ED lenses and aspherical lenses, this lens allows for architecture, night-sky and astrophotography.

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Standard zoom lens covering wide-angle focal lengths of less than 24mm (equivalent to 35mm film camera lenses)
Panasonic : LUMIX G VARIO
14-45mm F3.5-5.6 ASPH. MEGA O.I.S.
The compact, lightweight design of this lens lets you enjoy photography in a wide range of situations, from everyday snapshots to landscape and portrait shooting.

Panasonic : LUMIX G VARIO
14-42mm F3.5-5.6 II ASPH. MEGA O.I.S.
Max. dia. x Length = φ56mm x ca.49mm
Weight = ca.110g
Filter diameter = φ46mm
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.

Panasonic : LUMIX G X VARIO PZ
14-42mm F3.5-5.6 ASPH. POWER O.I.S.
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.

Standard lens with built-in motorized zoom

Compact, lightweight standard zoom lens
Max. dia. x Length = φ60mm x ca.60mm
Weight = ca.195g
Filter diameter = φ52mm

28-300mm (35mm equivalent)
Panasonic : LUMIX G VARIO
14-140mm F3.5-5.6 ASPH. POWER O.I.S.
The compact, lightweight design and high mobility of this powerful zoom makes it an excellent choice for a wide range of applications ranging from landscape and portrait shooting to sport photography.

Panasonic : LUMIX G VARIO
14-140mm F3.5-5.6 ASPH. POWER O.I.S.
Max. dia. x Length = φ67mm x ca.75mm
Weight = ca.265g
Filter diameter = φ58mm

LUMIX G VARIO 14-140mm F3.5-5.6 ASPH. POWER O.I.S. : 0/60sec. F7.1
Upper photo: M.ZUIKO DIGITAL ED 12-40mm F2.8 PRO : 1/1600sec. F6.3
Lower photo: 14-150mm F/3.5-5.8 Di III Model C001 : 1/200sec. F5.6

OLYMPUS : M.ZUIKO DIGITAL
14-150mm F4.0-5.6 II
Max. dia. x Length = φ63.5mm x ca.80mm
Weight = 285g
Filter diameter = φ52mm

A high power zoom lens helps swiftly capture different views at the angle of field you choose. Incorporating specialized glass elements for excellent imaging performance.

28-300mm (35mm equivalent)
Olympus : M.ZUIKO DIGITAL ED 14-150mm F4.0-5.6 II
Max. dia. x Length = φ63.5mm x 83mm
Weight = 260g
Filter diameter = φ58mm

Compact, lightweight dustproof/splashproof zoom with excellent mobility
A lightweight 10.7X zoom lens featuring the 4 Zoom Ring. With its dustproof /splashproof design, this rugged lens is as comfortable in extreme situations as it is in casual photography.
Micro Four Thirds Telephoto Zoom Lenses

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

- **200-600mm (35mm equivalent)**
  - Panasonic : LEICA DG VARIO-ELMAR 200-600mm F4.0-5.6 ASPH. POWER O.I.S.
  - Kodak : PIXPRO SZ Ultra-telephoto zoom — the longest in the Micro Four Thirds family. Built with LEICALuxary standards, this lens is the longest zoom model in the LEICA DG lens series. And despite being among the longest in the family, ultra-compact aplomb, the lens has stunning compact and light weight, featuring a compact and stylish design.

- **100-300mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 100-300mm F4.0-5.6 ASPH. MEGA O.I.S.
  - Panasonic : LUMIX G X VARIO PZ45-175mm F4.0-5.6 ASPH. POWER O.I.S.
  - OLYMPUS : M.ZUIKO DIGITAL ED 40-150mm F2.8 PRO

- **200-600mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G X VARIO 200-600mm F4.0-5.6 ASPH. MEGA O.I.S.
  - OLYMPUS : M.ZUIKO DIGITAL ED 40-150mm F2.8 PRO

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

- **70-200mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.

Micro Four Thirds Telephoto Zoom Lenses

- **50-200mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 50-200mm F4.0-5.6 ASPH. MEGA O.I.S.
  - Panasonic : LUMIX G VARIO 50-200mm F4.0-5.6 ASPH. MEGA O.I.S.

- **45-150mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 45-150mm F4.0-5.6 ASPH. MEGA O.I.S.
  - Panasonic : LUMIX G VARIO 45-150mm F4.0-5.6 ASPH. MEGA O.I.S.

- **35-100mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.

- **35-100mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.

- **70-200mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.

- **50-200mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 50-200mm F4.0-5.6 ASPH. MEGA O.I.S.
  - Panasonic : LUMIX G VARIO 50-200mm F4.0-5.6 ASPH. MEGA O.I.S.

- **45-150mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 45-150mm F4.0-5.6 ASPH. MEGA O.I.S.
  - Panasonic : LUMIX G VARIO 45-150mm F4.0-5.6 ASPH. MEGA O.I.S.

- **35-100mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.

- **70-200mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.

- **50-200mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 50-200mm F4.0-5.6 ASPH. MEGA O.I.S.
  - Panasonic : LUMIX G VARIO 50-200mm F4.0-5.6 ASPH. MEGA O.I.S.

- **45-150mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 45-150mm F4.0-5.6 ASPH. MEGA O.I.S.
  - Panasonic : LUMIX G VARIO 45-150mm F4.0-5.6 ASPH. MEGA O.I.S.

- **35-100mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 35-100mm F2.8 POWER O.I.S.

- **70-200mm (35mm equivalent)**
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.
  - Panasonic : LUMIX G VARIO 70-200mm F2.8 POWER O.I.S.
-wide-angle, single-focal-length lenses

for wide-angle with focal length below 20mm (40mm of 35mm equivalent).

Prime lenses - Wide

21mm (35mm equivalent)

Olympus : M.ZUIKO DIGITAL ED 8mm F1.8 Fisheye PRO

World’s first* fisheye lens with large F1.8 aperture

with a large F1.8 lens and 180° angle of view, this

fisheye lens surpasses optical timmes with

excellent imaging from the center of view, up to

greatly improved rendering due to the lens
to wide angle forliners and zoomers you need.

* As of July 21, 2011. Among the AF-compatible fisheye

lenses for inter-changeable-lens type digital cameras.
* Cannot be used with Panasonic LUMIX DMC-G1.

High-performance wide-angle lens, ideal for snapshots and indoor shooting

With a larger F1.8 aperture and 180° angle of view, this

fisheye lens boasts superior optical performance with excellent

imaging from the center to edges. A rugged dustproof/splashproof design makes sure this lens is ready for action wherever and whenever you need it.

24mm (35mm equivalent)

Panasonic : LUMIX G 14mm F2.5 II ASPH.

Panasonic : LUMIX G 14mm F2.5 II ASPH.

Super wide angle lens with fast aperture

Two aspherical lenses with 3 aspherical surfaces are used to ensure superior sharp images even when the aperture is fully open. A selective aperture control lever, with and without click stops, is also built in.

30mm (35mm equivalent)

Kowa : KOWA PROMINAR 8.5mm F2.8

Ultra-wide-angle lens with high performance

High-performance wide-angle lens realistically depicts scenes with breathtaking scope. With a special diagonal view of more than 100°, this lens minimizes distortion and enhances contrast in peripheral areas, providing superior optical performance suitable for use with a high-resolution 4K camera.

34mm (35mm equivalent)

SIGMA: 19mm F2.8 DN | Art

Ultra-wide-angle lens excellently depicts subjects with high speed and high resolution.

This ultra-wide-angle lens perfectly suits subjects with high speed and high resolution.

Pancake lens that never misses a great shooting opportunity

High-grade snapshot lens with metallic finish

With brightness that surpassed Leica’s most stringent optical standards, this lens features a lovely soft defocusing effect that makes it perfect for snapshots.

World’s smallest, lightest* high-performance fisheye lens

A diagonal view of more than 100° and short focal length lets you capture the

World’s smallest, lightest* high-performance fisheye lens

A diagonal view of more than 100° and short focal length lets you capture the

Wide angle lens of 35mm (35mm equivalent) with F0.95 at wide open. “Selective Aperture Control System” allows you to set the lens precisely at any aperture.

35mm (35mm equivalent)

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

Compact, lightweight lens with high image quality

Compact, lightweight lens with high image quality

With brightness that surpassed Leica’s most stringent optical standards, this lens features a lovely soft defocusing effect that makes it perfect for snapshots.

35mm (35mm equivalent)

Stockholm 17mm F2.8

Stockholm 17mm F2.8

High-performance wide-angle lens, ideal for snapshots and indoor shooting

An ideal lens for casual snaps, as well as

For indoor photography which benefits from its wide angle of view. The superior backfocusing optical design improves image quality throughout the frame.
**Micro Four Thirds**

**Prime Lenses -Standard-**

Single-Focal-Length Lenses with Focal Lengths from 20-40mm (equivalent to 40-80mm of 35mm camera).

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**Voigtländer:**

**NOKTON 25mm F0.95 Type II**

- Standard lens of 50mm (35mm equivalent) with F0.95 at wide open. Full metal barrel and manual focusing for high durability and reliable operation.

- **Max. dia. x Length:** \( \phi 58.4mm \times 70mm \)
- **Weight:** 410g
- **Filter diameter:** \( \phi 52mm \)

50mm (35mm equivalent)

**Panasonic:**

**LUMIX G 20mm F1.7 II ASPH.**

- Despite its reduced size and weight, this lens delivers impressive performance with a large, high brightness F1.7 aperture that enables you to capture expressive photographs with high contrast and beautiful defocusing effects.

- **Max. dia. x Length:** \( \phi 60.6mm \times 70mm \)
- **Weight:** 435g
- **Filter diameter:** \( \phi 52mm \)

40mm (35mm equivalent)

**Panasonic :**

**LEICA DG SUMMILUX 25mm F1.4 ASPH.**

- This large-aperture standard lens features a beautiful defocus effect to make your subjects really stand out. The F1.7 brightness at the open aperture captures beautiful, stabilized images even outdoors at twilight outdoors or in a dimly lit room.

- **Max. dia. x Length:** \( \phi 63mm(fixed hood section) \times ca.54.5mm \)
- **Weight:** ca.200g
- **Filter diameter:** \( \phi 46mm \)

50mm (35mm equivalent)

**Kowa :**

**KOWA PROMINAR 25mm F1.8**

- With a standard angle of view of 50mm (35mm equivalent) that matches natural vision and a bright open aperture of F1.8, this lens is able to realistically depict a wide range of images, from snapshots to portraits.

- **Max. dia. x Length:** \( \phi 60mm \times 94mm \)
- **Weight:** 400g
- **Filter diameter:** \( \phi 55mm \)

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**Sigma :**

**SIGMA 30mm F1.4 DC DN | Contemporary**

- Ideal for portraits and snapshots. This high performance standard lens features an inner focusing system that corrects any fluctuations or aberrations to maintain image quality regardless of the focusing position.

- **Max. dia. x Length:** \( \phi 60.8mm \times 40.5mm \)
- **Weight:** 140g
- **Filter diameter:** \( \phi 46mm \)

50mm (35mm equivalent)

**Sigma :**

**SIGMA 30mm F2.8 DN | Art**

- Ideal for portraits and snapshots. This high performance standard lens features an inner focusing system that corrects any fluctuations or aberrations to maintain image quality regardless of the focusing position.

- **Max. dia. x Length:** \( \phi 60.8mm \times 40.5mm \)
- **Weight:** 140g
- **Filter diameter:** \( \phi 46mm \)

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**Olympus :**

**M.ZUIKO DIGITAL 25mm F1.8**

- A single focal length lens with high imaging performance that features the soft, beautiful defocusing effect that Leica lenses are renowned for.

- **Max. dia. x Length:** \( \phi 57.8mm \times 42mm \)
- **Weight:** 137g
- **Filter diameter:** \( \phi 46mm \)

40mm (35mm equivalent)

**Sigma :**

**SIGMA 30mm F1.4 DC DN | Contemporary**

- Bright standard lens with F1.4 open aperture lets you experience the photographic thrill that comes from the versatility that a truly large aperture makes possible. Enjoy the enhanced defocus effect available only with large aperture lenses, clear optical performance.

- **Max. dia. x Length:** \( \phi 64.8mm \times 72.1mm \)
- **Weight:** 260g
- **Filter diameter:** \( \phi 52mm \)

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**Kowa :**

**KDWA PROMINAR 25mm F1.8**

- Standard lens featuring beautiful defocusing effects

- **Max. dia. x Length:** \( \phi 60mm \times 94mm \)
- **Weight:** 400g
- **Filter diameter:** \( \phi 55mm \)
A bright F1.2 open aperture and outstanding imaging performance enforced by Leica’s rigorous optical standards make this large-aperture, mid-telephoto lens a good choice for portrait shooting.

Mid-telephoto lens with F1.2 large aperture capable of expressing beautiful defocusing effect

90mm (35mm equivalent)
OLYMPUS : M.ZUIKO DIGITAL 45mm F1.8

With the highest picture quality of all M.ZUIKO DIGITAL lenses and an elegant metallic finish, this lens is ideal for studio portrait, stage and indoor sports photography.

High-grade portrait lens with highest picture quality

85mm (35mm equivalent)
90mm (35mm equivalent)
Panasonic : LEICA DG NOCTICRON 42.5mm F1.2 ASPH. POWER O.I.S.

Max. dia. x Length = φ74mm x ca.76.8mm
Weight = ca.425g
Filter diameter = φ67mm

85mm (35mm equivalent) 85mm (35mm equivalent)
Voigtländer : NOKTON 42.5mm F0.95

An angle of view of 85mm (35mm equivalent) and a beautiful defocusing effect produced by the ultra-fast F0.95 aperture make this lens ideal for portrait photography.

Mid-telephoto lens with fast aperture

Manual focus

Super telephoto lens with handheld shooting capability

In addition to excellent reached by possible by compact size, light weight and dustproof/splashproof design, the internal focus and superHELUS making handheld shooting with a super telescopic lens much easier than it ever been to the past.

150mm (35mm equivalent)
OLYMPUS : M.ZUIKO DIGITAL ED 75mm F1.8

In addition to excellent mobility made possible by its compact size, light weight and dustproof/splashproof design, the internal focus and superHELUS making handheld shooting with a super telescopic lens much easier than it ever been to the past.

Super-telephoto lens with handheld shooting capability

90mm (35mm equivalent)
OLYMPUS : M.ZUIKO DIGITAL 60mm F2.8 DN | Art

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

Family portrait lens with beautiful defocusing capability

90mm (35mm equivalent)
SIGMA : SIGMA 60mm F2.8 DN | Art

The use of reflex optics and reduction of the overall lens length have resulted in a lens with a considerably shortened length of 66mm, a maximum diameter of 66mm and a weight of 298 grams.

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

Tokina : Reflex 300mm F6.3 MF Macro

The use of reflex optics and reduction of the overall lens length have resulted in a lens with a considerably shortened length of 66mm, a maximum diameter of 66mm and a weight of 298 grams.

Pink size super-telephoto lens with closed focusing distance of 0.8 meter
Upper photo: SIGMA 60mm F2.8 DN Art : 1/200sec. F2.8
Lower photo: Reflex 300mm F6.3 MF Macro : 1/2000sec. F6.3

M.ZUIKO DIGITAL ED 300mm F4.0 IS PRO : 1/400sec. F5.6
With imaging performance that meets Leica’s demanding performance evaluation criteria, this lens offers consistently high contrast and resolution.

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.

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 a time lag so even a moving subject is not distorted after synthesis.

**As of September 21, 2010. Among the interchangeable lenses for digital SLR cameras.

Macro lens with a taste proper to single focal length, other highly distinct lenses.

**Macro lenses with a taste proper to single focal length, other highly distinct lenses.
Supersonic wave motor (XS)
ED glass moulded aspherical lens
Splash-/dust-proof
Aspherical lens
Aspherical lens
Splash-/dust-proof
Aspherical lens
To fully enjoy the high image quality of the full lineup of Four Thirds lenses.
### Body Cap Lenses

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<th>Model</th>
<th>Name</th>
<th>Fisheye/Body Cap</th>
<th>Weight</th>
<th>Dimensions</th>
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<tbody>
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<td>OLYMPUS</td>
<td>Body Cap Lens BCL-0980</td>
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<tr>
<td>OLYMPUS</td>
<td>Body Cap Lens BCL-1580</td>
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<tr>
<td>OLYMPUS</td>
<td>Four Thirds Adapter MMF-3</td>
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<tr>
<td>Panasonic</td>
<td>DMW-MA1</td>
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<tr>
<td>Panasonic</td>
<td>DMW-MA2M</td>
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Ultra-thin cap lens that gives you an ultra-wide-angle fisheye view

- Only 9mm thick, this lens can be used as both a body cap and as a mount adapter to enable a Four Thirds lens to be mounted on a Micro Four Thirds lens mount.

* When using the image stabilization mechanism built into the camera, set the focal length to 9mm or 8mm if the 9mm setting is not available. Focus adjustment is possible by rotating the MF lever manually. Autofocusing is not available. Communication function with the body not available. (Exif data not provided.)

### Classic Lens Adapters

<table>
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<th>Manufacturer</th>
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<tbody>
<tr>
<td>OLYMPUS</td>
<td>M.ZUIKO DIGITAL 1.4x Teleconverter MC-14</td>
<td></td>
<td>Extends the focal length of the master lens by 40% with very little image quality degradation. This lens is also dustproof/splashproof and resistant to low temperatures.</td>
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<tr>
<td>Panasonic</td>
<td>Macro Conversion Lens DMW-GMC1</td>
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<tr>
<td>Panasonic</td>
<td>Tele Conversion Lens DMW-GTC1</td>
<td></td>
<td>This converter lets you shoot a telephoto image, while maintaining the optical performance of the optical lens to which it is attached. When the converter is attached to the LUMIX G X VARIO PZ 14-42mm F3.5-5.6 ASPH. POWER O.I.S., the combination can be used as a 168mm telephoto lens with up to 2X magnification at the telephoto end.</td>
</tr>
<tr>
<td>Kenko</td>
<td>Extension Tube Set</td>
<td></td>
<td>Designed to fit between the camera body and telephoto lens, an extension tube is an interchangeable ring that enables close-up photography when mounted. The set includes two rings – one, 70mm long, and one, 36mm long.</td>
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### Converter Lenses

<table>
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<th>Manufacturer</th>
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<td>OLYMPUS</td>
<td>Fisheye Converter FCON-P01</td>
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<td>Ultra-thin cap lens that gives you an ultra-wide-angle fisheye view</td>
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<tr>
<td>Panasonic</td>
<td>Wide Conversion Lens DMW-GWC1</td>
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<tr>
<td>Panasonic</td>
<td>Macro Conversion Lens DMW-GMC1</td>
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### Classic Lens Adapters

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>OLYMPUS</td>
<td>M.ZUIKO DIGITAL 2x Teleconverter EC-20</td>
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<tr>
<td>Panasonic</td>
<td>DMW-MA3R</td>
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### Converter Lenses

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Mobility Changes Movies.

**Digital Cinema Cameras**
- Blackmagic Cinema Camera
- Blackmagic Pocket Cinema Camera
- Blackmagic Micro Studio Camera 4K
- Blackmagic Micro Cinema Camera

**Innovative Camera Systems**
- Inspire 1
- Zenmuse X5
- Zenmuse X5R
- Osmo Zenmuse X5
- MFT 15mm F1.7 ASPH

**Professional Camera Systems**
- AG-AF105A
- GY-LS300CH
- HORSEMAN TS-pro

**Industrial Camera Systems**
- AH-4413
- FASTCAM Multi
- SVCam-EVO »Tracer«

**Cinema Lenses**
- Compact Prime CP.2 Series
- 11-16 T3 CINEMA LENS
- Cine Prominar
  - 8.5mm T3.0 / 12mm T1.9 / 25mm T1.9

*These products also accept the use of lenses and cameras compliant with the Micro Four Thirds System. However, as there are functional restrictions with certain models, please consult the manufacturer of each product for details.
With their outstanding imaging capabilities, Lumix and Leica lens technologies deliver superb picture quality.

5-axis Sync IS
- the world’s most powerful image stabilization with up to 6 steps*

The M.ZUIKO DIGITAL ED 300mm F4.0 IS PRO has a built-in image stabilization mechanism built that effectively minimizes the image blurring common in telephoto shooting with a compensation effect equivalent to up to 6 steps. When combined with the “In-body 5-axis image stabilization” built into the latest Olympus system cameras**, the resulting “5-axis Sync IS” stabilization effect can be expanded to as many as 6 steps* – the world’s highest, assuring super-telephoto shooting with unprecedented stability. Together with the excellent mobility offered by the lightweight, compact design, this makes handheld super-telephoto photography possible – something which until now has been extremely difficult to achieve.

Superior optical performance with high resolution and high image quality
Taking advantage of Olympus’s long tradition of leadership in optical technology, the M.ZUIKO DIGITAL ED 300mm F4.0 IS PRO incorporates a special high-precision large-aperture lens and thin glass polished lens elements. Three Super ED (Extra-low Diffusion) lens elements are employed to minimize problems typically associated with telephoto lenses such as color fringing and chromatic aberrations. The result is the highest level of resolution ever offered by an Olympus lens.

New “Z Coating Nano” coating technology
The M.ZUIKO DIGITAL ED 300mm F4.0 IS PRO features new “Z Coating Nano” technology, in addition to the conventional ZERO coating. The new technology coats the lens surface with nano-size particles containing an air layer in the center to form a coating layer with a refractive index close to that of air. The low surface reflections achieve sharp, clear imaging with greatly reduced ghost and flare.

LEICA DG Lens
Leica, the pioneer of compact camera systems, has long impressed professionals the world over with its lenses. Its worldwide fame as a manufacturer of precision optical devices is built on a constant stream of innovations and inventions that go back more than a century.

The LEICA DG lens designed for Panasonic’s LUMIX G Series is another innovation made possible by LEICA’s command of the latest technology in optics and mechanisms. Natural imaging performance with rich gradations throughout the image plane creates an extraordinary sense of texture – so real you can almost touch it. The result is extraordinary expressive power that will allow you to truly realize your creative vision.

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 aberrations, such as spherical or 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 aspheric lenses early on, and today the plant manufactures a wide variety of lenses, including concave lenses that have a large difference in thickness and measure a mere 0.3mm at the thinnest part. The aspherical lenses with superb image rendering ability produced at this plant are now in 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 amount of light reflection over the entire visible light range (from 380 to 780nm). This significantly decreases ghosts and flaring and renders pure, clear images. This advanced coating technology is highly acclaimed by the camera and lens industry.
Voigtländer Technologies

Sigma’s innovation-renewed!
With their compact bodies and diverse range of designs, mirrorless interchangeable lens cameras have been evolving in their own unique way. To achieve a lens system ideally suited to the cameras of the new era, Sigma has redoubled its innovation efforts to create a high-performance wide-angle lens for mirrorless interchangeable lens cameras that is more polished and refined than ever before. In order to maximize the performance of mirrorless cameras, this lens takes advantage of the most advanced optical technology to achieve expressive performance worthy of Sigma’s lenses.

A lens design ideal for a mirrorless interchangeable lens camera
The simple shape of the focus ring, varying textures that distinguish each part of the lens, the use of metal on almost all external areas of the lens, the unibody design of the hood — all of these elements add up to a lens design that is ideal for mirrorless interchangeable lens cameras.

Brass bayonet mount
This lens incorporates a brass bayonet mount which features both high accuracy and extended durability. A special treatment to reinforce the mount’s strength has been applied to the surface, giving it greater strength and making it highly resistant to long-term use.

Evaluated with Sigma’s own “AI” MTF measuring system
We’ve now developed our own AI* proprietary MTF (modulation transfer function) measuring system using 46-megapixel Foveon direct image sensors. Applying this system, we check each lens in our new lines at our Aizu factory, our sole production site. Even previously undetectable high-frequency details are now within the scope of our quality control inspections, allowing us to deliver consistently high lens performance. *AI: Aizu 1

“Made in Japan”
All Sigma’s manufacturing plant, everything right down to molds and parts is carried out under an integrated production system. We are now one of the very few manufacturers whose products are solely “made in Japan”. We like to think our products are somehow imbued with the essence of our homeland, blessed as it is with clean air and water, and focused, hard-working people. We pride ourselves on the authentic quality of Sigma products, born of a marriage between highly advanced expertise and intelligent, advanced technology. Our sophisticated products have satisfied professionals and lovers of photography all over the world, because our manufacturing is based on genuine craftsmanship, underpinned by the passion and pride of our experts.

Five of the Voigtländer lenses are specifically designed for use on Micro Four Thirds-cameras. They are real stars — the “Lichtriesen” of Voigtländer —
Serving as a so-called “standard lens”, the Nokton F0.95/25mm provides pictures that correspond to the angle of view of the human eye.
Aperture is critical to the impression that people receive from a photograph.
The extremely fast F0.95 aperture makes it easy for you to capture stunning, crystal-clear images under virtually any conditions.
By using a shallow depth of field, you can create a series of different impressions from the same scene.
The superb bokeh of the Nokton makes the subject stand out for extraordinary overall results.

Video- and film-making enthusiasts will be especially impressed by the selective aperture control system featured on Nokton Micro Four Thirds-lenses.
This enables smooth, stepless and noiseless changing of the aperture.

Another highlight of five lenses is the very short closest focusing distance.
At macro setting, coupled with the fast aperture, this gives you tremendous scope for image design.

With their large, fast aperture, these lenses are extremely bright, making them able to operate very effectively in low light.
With a Nokton lens, you’ll suddenly find yourself seeking out difficult lighting conditions such as those at dawn or under heavy clouds, so that you can capture beautiful atmospheric images.

The outstanding manufacturing quality of these lenses puts them at the top of their class in every respect.
A smooth turning focus ring and click-response aperture ring reflect the high precision of our manufacturing process.
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 – a compact lens with a length of 66mm, maximum diameter of 66mm, and weight of 298g.

**High-precision mirror and aluminum 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 aluminum reflection film is treated with special processing to improve the reflection index of the reflection mirror.

**Closest focusing distance of 0.8m**

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 0.8m and of the requirement for very precise focusing with some very narrow angles of view, F/9 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.

**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 0.8m and of the requirement for very precise focusing with some very narrow angles of view, F/9 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.

**A Stepping Motor for quick, quiet auto-focusing**

The stepping motor provides fast, quiet, and comfortable autofocus. The stepping motor’s actuator allows precise control of angular rotation, and since it drives the focusing mechanism directly without any intermediary reduction gear, it is also exceptionally quiet. These features also give the lens a seamless, fluid auto-focusing action when shooting video.

**Tamron’s constantly evolving high-magnification zoom lenses have finally arrived in the world of Micro Four Thirds**

**14-150mm F/3.5-5.8 Di III Model C001**

The essence of Tamron technology in a compact, all-in-one™ zoom that minimizes aberrations and maximizes image quality

The optical design of Tamron 14-150mm includes one LD (Low Dispersion) glass element, two AD (Anomalous Dispersion) glass elements, two Molded-Glass Aspherical elements, and one Hybrid Aspherical element. This formula reduces aberrations to a bare minimum to achieve exceptional class-leading image quality. The 14-150mm zoom is the fruit of Tamron’s 20+ years of experience in designing and manufacturing world-class all-in-one zoom lenses.

Building an impressive 10.7x zoom range into an ultra-compact lens body is made possible by adopting a more sophisticated multi-stack cam layout. This advanced cam layout draws on Tamron’s extensive engineering expertise, which is focused on innovative space-saving zoom cam structures.

**A Stepping Motor for quick, quiet auto-focusing**

The stepping motor provides fast, quiet, and comfortable autofocus.

The stepping motor’s actuator allows precise control of angular rotation, and since it drives the focusing mechanism directly without any intermediary reduction gear, it is also exceptionally quiet.

These features also give the lens a seamless, fluid auto-focusing action when shooting video.
ED Lens and Aspherical Lens
To control chromatic aberration, ED glass lenses are now incorporated even in the standard KODAK PIXPRO Lens. In combination with an aspherical lens, which effectively compensates for lens distortion and spherical aberration, the PIXPRO lens can obtain clear high-resolution pictures with high contrast and reduced color blurring throughout the zoom range.

Special coating ensures superior color reproduction
Advanced technology and rigorous production management minimize any variability between each layer of coating to assure consistent, reliable response. By reducing redundant reflections from the lens surface and lens barrel, the multi-layer coating ensures excellent color reproduction with virtually no flares or ghosts.

Adoption of stand-alone small-size lightweight sealed construction
Thanks to optimized glass lens construction enables control over the moving dimensions of the focus lens. KODAK PIXPRO Lens features a miniaturized lens design and faster focus time. A micro-step motor assures smooth, efficient zooming, while the stand-alone sealed construction minimizes AF noise from video filming, prevents sound leakage, and helps keep out dirt, dust, and other foreign material.

PROMINAR – A half century of excellence –
Beginning with the Kalloflex Automat twin-lens reflex in 1954, Kowa Optical Works produced a succession of one-of-a-kind cameras for about 25 years, culminating with the Kowa Super 66. For over half a century that tradition of original design and advanced technology has been diligently maintained until finally reborn under the name of PROMINAR Micro Four Thirds lenses.

PROMINAR – Inherited design concept –
“This concept of reproducing natural colors as they are seen by the human eye” – this is the key concept driving the design of Kowa PROMINAR lenses. Comprising XD (extra-low Dispersion) lens, high precision aspherical lenses and a multi-layer film coating, these lenses are able to capture brilliant images with extremely accurate color reproduction, crisp high resolution and the lowest possible distortion all the way to the edges.

PROMINAR – The quality of tradition –
Crafted individually by master artisans who fabricate each part individually, then carefully assemble and inspect them, these lenses are reminiscent of a bygone era. Metallic materials are painstakingly shaved to produce a lens with a luxurious texture that feels good to the touch and provides the precision response you would expect from a “made-in-Japan” product.

PROMINAR – Technologies leading the way to what’s next –
The use of a 9-blade circular aperture diaphragm enables beautiful and natural defocusing effects appropriate to a PROMINAR lens. The aperture ring has a dual link iris system with click/silent switching capability compatible with both still picture and movie shooting.
Blackmagic Design Technologies

【New style of movie recording made possible by the Blackmagic design】

**Blackmagic Micro Cinema Camera**
The world’s smallest digital film camera with innovative remote control!
Introducing the Blackmagic Micro Cinema Camera, a miniaturized Super 16mm digital film camera with 13 stops of dynamic range and a revolutionary expansion port with PWM and S.Bus inputs! You can operate Micro Cinema Camera remotely and capture the action anywhere by using commonly available model airplane remote controllers and video transmitters! Imagine adjusting focus, iris and zoom wirelessly! Micro Cinema Camera is a true digital film quality camera with up to 13 stops of dynamic range, an MFT lens mount and built in RAW and ProRes recording!

**Blackmagic Pocket Cinema Camera**
Blackmagic Pocket Cinema Camera is a pocket sized Super 16 digital film camera that’s small enough to take with you everywhere, so you’ll never miss a shot! You get true digital film images with 13 stops of dynamic range, Super 16 sensor, RAW and ProRes recording, built in SD card recorder, 3.5” LCD screen and the flexibility of an active MFT lens mount. You can easily monitor and review files on the high resolution LCD, precisely check focus with 1:1 zoom and check camera status with on screen display. You even get built in metadata entry!

**Blackmagic Micro Studio Camera 4K**
The Blackmagic Micro Studio Camera is an incredibly small Ultra HD studio camera that can be remote controlled via SDI and completely customized so you can mount it virtually anywhere! You get a broadcast quality Ultra HD sensor, MFT lens mount, built-in primary color corrector, talkback, tally and a unique expansion port that features PTZ control, lens control and more! Micro Studio Camera is the perfect camera for live studio productions, sports flyovers and hidden camera work in both HD and Ultra HD!

JVCKENWOOD Technologies

【Super 35 CMOS image sensor creates professional 4K images】

**Variable Scan Mapping maintains native angle of view for a variety of lenses**
JVC’s unique variable scan mapping allows you to dynamically map the pixels on the GY-LS300 4K image sensor to your target output resolution. It enables use of a wide variety of high quality lenses maintaining their native field of view without vignetting. This feature, coupled to the zoom control capabilities of the camcorder, allows you to magnify the image of fixed focus lenses, or extend the range of zoom lenses while shooting.

**JVC Log captures 800% dynamic range, and enables color grading**
JVC has added a Log Gamma mode that expands the dynamic range by 800% with film-like latitude, preserving more information over the entire dynamic range of the sensor. In this mode, the log images will look extremely flat and lack contrast, but will contain more information for grading and manipulation in post production, giving you the opportunity to create truly cinematic results. To assist you in determining the correct exposure when shooting, the camera’s LCD and viewfinder can be mapped to a look-up table (LUT mode) that will approximate the application of grading in post.

**Cinema 4K, Cinema 2K recording for the ultimate cinema look, and more…**
Cinema 4K (4096 x 2160) and Cinema 2K (2048 x 1080) with 17:9 aspect ratio recording expand GY-LS300’s range of applications, for cinema quality documentaries or for film-quality resolution and presence. The GY-LS300 is also equipped with professional features such as a 3-position ND filter (1/4,1/16,1/64), recording on 2 SDHC/SDXC cards in succession or simultaneously, live 4K output, XLR audio input, and a long life battery.

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<table>
<thead>
<tr>
<th>Lens Model</th>
<th>Manufacturer</th>
<th>Sensor Equival</th>
<th>Dist.</th>
<th>Dust-Proof</th>
<th>Motorized</th>
<th>Closest Focusing Distance (m / in.)</th>
<th>Filter Size (φ)</th>
<th>Lens Construction Elements</th>
<th>Image Stabilizer*</th>
<th>Angle of View</th>
<th>Number of Stems</th>
<th>Minimum Aperture</th>
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<th>Lens Rear Cap</th>
<th>Lens Front Cap</th>
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Panasonic http://shop.panasonic.com/

* Since Olympus incorporates image stabilizers in the bodies of its cameras, image stabilization is available with any lens. (Corresponding models: OLYMPUS OM-D series, OLYMPUS PEN series)

* The compression level of product photographs shown in this catalog varies. Check the above tables for actual sizes.

* Specifications and design are subject to change without notice.

** DM: Digital Modulation

** 1:0.138 in certain focal length range

** 2: When setting the aspect ratio to 16:9 with DMS-GH2

** 3: Weight without the tripod adapter

For full specifications of the Four Thirds System lenses, please visit the following manufacturers’ websites:
Panasonic http://shop.panasonic.com/

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