SIGMA 17-70mm F2.8-4 DC MACRO OS HSM

LENS HOOD LH780-03
(Supplied)

With a focal range that covers all your everyday needs along with macro functionality,
this large-aperture APS-C zoom lens combines superior performance with a conveniently compact form.

With its wide zoom range, this lens has a focal range equivalent to 25.5-105mm on a 35mm lens. Thanks to Sigma's latest technologies, it's exceptionally lightweight and 30% more compact by volume than previous lenses of its type. Its low F-number equips photographers to shoot subjects at extremely close range, making this the perfect lens for travel, family photos, artistic compositions, and many other uses. It's a compact lens ideal for everyday use, offering uncompromising optical performance, functionality, quality, and elegance.

Contemporary line can handle all sorts of photo opportunities

Sigma is organizing all its interchangeable lenses into three product lines; Contemporary, Art and Sports. Featuring the very latest technology, and combining optical performance with compactness, the Contemporary line covers a wide range of needs. Incorporating the very latest technology in these lenses, Sigma has solved the difficult problem of keeping size and weight low without compromising optical performance. The SIGMA 17-70mm F2.8-4 DC MACRO OS HSM is the first product from the Contemporary line. Featuring a wide zoom range, the lens has a focal range equivalent to 25.5-105mm on a 35mm lens.

Excellent for macro photography

This lens' minimum focusing distance is 22cm and the maximum magnification ratio is 1:2.8. At 70mm, the working distance becomes 5.52cm. When it comes to telephoto, it can shoot pictures with a similar sensation to a macro lens. Also,

without the need to change the lens, it enables photographers to take a close up pictures of subjects such as jewelry and flowers. In order to secure a clear field of view, the design of this lens is very thorough, even down to the precise position of the engraved letters on the lens.

30% Smaller Than Conventional Models

For a lens which is used in everyday situations, the small size makes a big difference. By incorporating a smaller OS unit and optimizing the structure and power distribution of optical elements, the lens barrel has now become more compact. In order to ensure high accuracy of the product, the new compound material TSC (Thermally Stable Composite), which has high affinity to metal parts, is introduced for the lens barrel. It results in better durability of the parts and smaller zoom rings and scale rings. The dimension of this lens is 30% smaller than our conventional models.

Superior Image Quality Throughout The Entire Zoom Range

This lens incorporates 2 FLD (“F” Low Dispersion) glass elements, which have performance equal to fluorite, 1 SLD (Special Low Dispersion) glass element and 3 aspherical glass lenses including double sided aspherical lens. By optimizing the power alignment of the lens, both chromatic aberration of magnification and axial chromatic aberration have been corrected. From infinity to macro, it achieves superior image quality through entire zoom range. This lens offers extraordinary expressive power and is capable of surpassing the requirement of the rigorous checking process of our new MTF measuring system “A1”.

Large maximum aperture of F2.8

The aperture value is F2.8 at the wide end (17mm), and is F4 at the telephoto end (70mm). The bright viewfinder aids focusing and composition of images. The fast apertures also offer useful functions such as fast shutter speeds to prevent an object from being blurred and ensuring a smooth bokeh in the background.

Optical Stabilizer

No Optical Stabilizer

With Optical Stabilizer

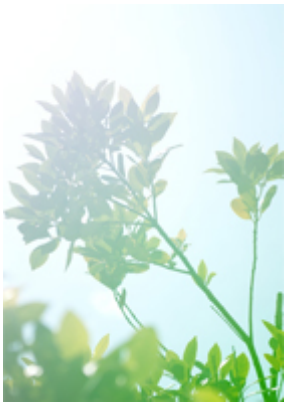
This lens incorporates an OS system which offers superior stabilization, making it possible to compensate for camera shake even in macro range photography where a small blur can be easily identified.

*1. The closer the lens is to the object, the less effective the OS function is.

*2. For Sony and Pentax, OS function is not incorporated.

Flare and ghosting conscious design

With Super Multi-Layer Coating



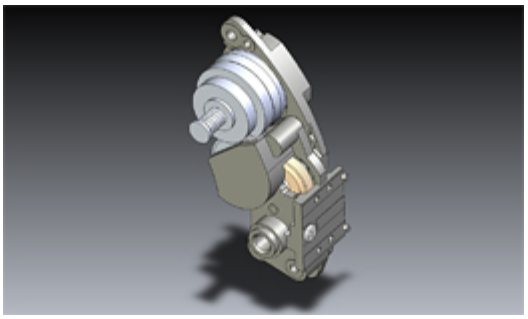
No Super Multi-Layer Coating

In order to achieve high rendering on this flagship lens, flare and ghosting were thoroughly measured from an early stage to establish an optical design which is resistant to strong incident light such as backlight. The Super Multi-Layer Coating reduces flare and ghosting and provides sharp and high contrast images even in backlit conditions.

Incorporating Rounded Diaphragm

The 7 blade-rounded diaphragm creates an attractive blur to the out-of-focus areas of the image.

Hyper Sonic Motor



Hyper Sonic Motor

HSM (hypersonic motor) delivers high AF speed and extremely quiet performance.

Brass made bayonet mount

This lens incorporates brass made bayonet mount which has both high accuracy and solidity, same as the mount for camera body. The special treatment to reinforce the strength is applied on the surface to make it a high quality lens that is resistant for long-term use.

Ease of use

The new product lines incorporate rubber for the attachment part of the provided lens hood. For better usability, the design of the lens cap and AF / MF changeover switch has been improved.

Newly developed “USB DOCK” exclusively for new product lines

Based on these new lines, we have developed special software (SIGMA Optimization Pro) that can update the lens firmware and adjust parameters such as focus.

Evaluation with Sigma's own MTF measuring system “A1”

46-megapixel Foveon direct image sensor

We used to measure lens performance with MTF measuring system using conventional sensors. However, we've now developed our own proprietary MTF (modulation transfer function) measuring system (A1) using 46-megapixel Foveon direct image sensors. Even previously undetectable high-frequency details are now within the scope of our quality control inspections. The SIGMA 17-70mm F2.8-4 DC MACRO OS HSM will all be checked using this “A1” before they are shipped.

“Made in Japan”

All Sigma's manufacturing - right down to molds and parts - is carried out under an integrated production system, entirely in Japan. 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 attuned 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.

Applicable for the Mount Conversion Service

As an experienced lens manufacturer that has been creating a diverse range of interchangeable lenses, we are proud to introduce a new paid service “Mount Conversion Service” *. With this service, the mount of your current SIGMA lenses can be changed to another mount of your choice. It gives a new life to your favorite lenses when you wish to use it on a different camera body.

* This “Mount Conversion Service” is different from a normal repair. In order to apply for the service, please contact your nearest authorized subsidiary / distributor of SIGMA.

TIPA 2013 BEST ENTRY LEVEL DSLR LENS Award.

Available in a wide variety of APS-C camera model mounts, the Sigma 17-70mm delivers a very useful zoom range of 25.5-105mm (equivalent), plus has close-focusing capability (22cm, 8.7”.) The incorporation of a smaller OS unit (in those lenses for cameras without built-in stabilization) makes for a more compact design (79 x 82mm, 3.1 x 3.2”.) The lens is constructed with 16 elements in 14 groups and contains 2 FLD, 1 SLD and 3 aspherical glass elements for enhanced image quality. A 7-blade diaphragm, Hyper-Sonic Motor, brass made bayonet mount, and SIGMA USB DOCK for firmware updates round out the impressive specifications.

* Currently, 28 publication from Europe, South Africa, Canada and USA are members of the TIPA (Technical Image Press Association) organization and chief editors and technical editors of these publications constitute this organization. Since 1991, TIPA has presented many awards in several sectors, including imaging.

Specifications

Lens construction	16 elements in 14 groups
Angle of view (for SD1)	79.7 - 22.9 degrees
Number of blades in diaphragm	7 Blades (Rounded diaphragm)
Minimum aperture (W)	F22
Minimum focusing distance	22cm / 8.7in.
Maximum magnification	1:2.8
Filter size	72mm
Diameter x length	Diameter 79mm x 82.0mm / 3.1in. x 3.2in.
Weight	465g / 16.4oz.

For Sigma

Corresponding AF Mounts

[17-70mm F2.8-4 DC MACRO OS HSM]
SIGMA / CANON / NIKON

[17-70mm F2.8-4 DC MACRO HSM]
SONY / PENTAX

Corresponding Digital SLR Camera

DC lenses have an image circle that covers APS-C size image sensors. Not for use on digital cameras having image sensors larger than APS-C size or on 35mm or APS film cameras, as vignetting will occur. The angle of view varies depending on which camera the lens is mounted on. To find the 35mm camera-equivalent focal length, multiply the DC lens focal length by the crop factor (digital multiplier) of 1.5, 1.6, or 1.7, depending on the brand of DSLR camera on which the lens will be used. To find which DC lens is equivalent to a full-frame lens, divide the focal length of the full frame lens by the same crop factor.

Sony and Pentax mounts are not incorporated with OS function.

AF will not function with Pentax ist* series and K100D DSLR cameras that do not support HSM.

The appearance and specification are subject to change without notice.