

A | Art

SIGMA 24mm F1.4 DG HSM

F1.4 maximum aperture. The new horizon for a large aperture wide-angle lens with rendering performance that is at a whole new level.

1. Art line delivers high-level artistic expression.
2. Highest optical performance in its class.
3. Customization and flexible adjustment for convenience or a specific purpose is possible.
4. New product lines from SGV concepts that are setting new benchmarks for image quality.



Launch: TBD

Corresponding AF mounts: SIGMA, Canon and Nikon

Accessory: Case, Petal-Type Hood (LH830-03) supplied.

*The Appearance and specifications are subject to change without notice.

New “F1.4” joins SIGMA’s Art line.

The highest optical performance in its class, perfect for a variety of subjects from cityscapes to the star-filled night sky.

SIGMA has a proven reputation for wide-angle lens design and manufacturing. Drawing on this experience and design know-how, refined through development of the SIGMA 35mm F1.4 DG HSM | Art and SIGMA 50mm F1.4 DG HSM | Art, we have successfully minimized sagittal coma flare, chromatic aberration, distortion and vignetting to achieve exceptional levels of optical performance with almost no aberration or distortion. This lens provides the best possible performance when photographing a variety of subjects from cityscapes, mountain ranges and the star-filled night sky that demands great rendering, to indoor photography with low illumination or scenes with a smooth bokeh effect. Enjoy the astonishing optical performance from the new “F1.4” series that has just joined the SIGMA’s iconic Art line.

[Special Features]

1. Art line delivers high-level artistic expression.

SIGMA is organizing all its interchangeable lenses into three product lines; Contemporary, Art, and Sports, where each line has a distinctive concept. Designed with a focus on sophisticated optical performance and abundant expressive power, our Art line delivers high-level artistic expression. With the astonishing rendering performance that meets the high standard, along with landscapes, portraits still-life, close-up, and casual snaps, they are perfect for the kind of photography that unleashes the inner artist. Ideal for studio photography, they offer just as much expressive scope when capturing architecture and starry skies and many other scenes.

2. Highest optical performance in its class.

By minimizing aberration using the latest design technology and know-how that has been

accumulated from lens development over many years, this lens achieves astonishing rendering performance, even in the corners, with ultra-high resolution. Whilst featuring higher resolution around the focus point, the lens ensures a smooth and natural bokeh effect. Both high definition rendering without color aberration and natural bokeh expression are possible, even from the maximum aperture.

● Excellent correction of sagittal coma flare

Generally it is ideal for a lens to have a high rendering performance from the maximum aperture throughout the entire image. For instance, sagittal coma flare, where the point light sources do not gather at one point and leaves a tail, is a typical flare that occurs especially with wide-angle lenses.

The SIGMA 24mm F1.4 DG HSM | Art has an optimized power layout, positioning aspherical lens elements at the rear and adjusting the incidence angle of the light source, enabling high rendering performance even from the widest aperture. It is perfect for astronomical photography and shooting illuminations because of the reduced blur on the point light sources near the edge of the image.

● Excellent correction of chromatic aberration

One of the elements required to achieve high rendering performance is the correction of chromatic aberration. Particularly, for axial chromatic aberration that is hard to correct even during image processing, the lens development stage was vital in ensuring minimized distortion. The SIGMA 24mm F1.4 DG HSM | Art incorporates FLD ("F" Low Dispersion)* glass and SLD (Special Low Dispersion) glass elements to minimize chromatic aberration of magnification which is mainly visible around the edge of the image. Moreover the power layout ensures the correction of axial chromatic aberration. Without any color blur, it achieves high image quality throughout the entire focusing range, thus achieving sharp and high contrast image rendering.

* FLD glass is the highest level low dispersion glass available with extremely high light transmission. This optical glass has a performance equal to fluorite glass which has a low refractive index and low dispersion compared to current optical glass. It also benefits from high anomalous dispersion. These characteristics give excellent correction for residual chromatic aberration (secondary spectrum) which cannot be corrected by ordinary optical glass and ensures high definition and high contrast images.

● Minimized distortion

It is not possible to compensate for distortion that is often observed with wide-angle lenses just by changing the aperture value. Therefore, the lens development stage was vital in ensuring minimized distortion. The SIGMA 24mm F1.4 DG HSM | Art adjusted the incidence angle of the light source from the surface of the first lens and positioned each aspherical glass element to optimize the power layout at respective positions. This has helped it succeed in minimizing distortion throughout the entire image.

● High peripheral brightness

For a lens with a large diameter, brightness in the peripheral areas tends to be consequently lower compared to the center. By improving the efficiency at large apertures and minimizing vignetting, it secures very good brightness. Without considering the lack of light even at the open aperture, it ensures high contrast images for indoor photography, astronomical photography and when photographing blue sky.

● Designed to minimize flare and ghosting

Flare and ghosting were thoroughly measured and monitored from the lens development stage to establish an optical design which is resistant to strong incidental light such as backlight. The Super Multi-Layer Coating reduces flare and ghosting and provides sharp and high contrast images even in backlit conditions.

3. Customization and flexible adjustment for convenience or a specific purpose is possible.

SIGMA USB DOCK and exclusive software make customization possible

● New Additional function added to “SIGMA USB DOCK (optional)”

With the optional SIGMA USB DOCK, you can update your lens firmware, adjust focus points and customize the setting of Full-time MF function and the timing to operate the Full-time MF function. By

attaching this lens to a SIGMA USB DOCK, which is connected to a computer, the dedicated software “SIGMA Optimization Pro” offers various types of customization and adjustment.

4. New product lines from SGV concepts that are setting new benchmarks for image quality.

● Design Concept

With the new product lines, supplied hoods incorporate rubber for the connected part. Lens caps and AF/MF switches are also newly designed in order to improve usability. For the parts inside, metals and a new material called TSC (Thermally Stable Composite)*, which works well with metals, are located to achieve products with high accuracy. The lens barrel includes the year of release, engraved for users to recognize when the lens was released.

* TSC (Thermally Stable Composite) offers thermal expansion characteristics similar to those of aluminum. Parts made with TSC deform less, making possible lens construction of extremely high precision. As compared to polycarbonate containing 20% glass, a commonly used material, TSC offers approximately 70% higher elasticity. As compared to polycarbonate containing 30% glass, it offers 25% higher elasticity. (Comparison is between SIGMA-produced components.)

● Evaluation with SIGMA’s own MTF measuring system “A1”

We used to measure lens performance with MTF measuring system using conventional sensors. However, we have 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. All SIGMA 24mm F1.4 DG HSM | Art lenses will be checked using this “A1” before they are shipped.

* A1: Aizu1

● “Made in Japan”

All SIGMA's manufacturing – right down to molds and parts – with a few exceptions, are carried out under a single 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.

[Other Features]

● Incorporating Rounded Diaphragm

The 9 blade-rounded diaphragm creates an attractive blur to the out-of-focus areas of the image.

● Hyper Sonic Motor ensures High AF Speed

The HSM (Hyper Sonic Motor) ensures a silent, high-speed AF function.

By optimizing the AF algorithm, smoother AF is achieved. It incorporates a new full-time manual focusing mechanism that switches to manual focusing, simply by rotating the focus ring, even when AF is being used. This allows the photographer to make focus adjustments quickly and easily.

With the optional SIGMA USB DOCK, you can also set it to conventional full-time manual focus override.

* Depending on the mount, initial operation of full-time manual focus differs.

● Brass made bayonet mount

This lens incorporates a brass made bayonet mount which has both high accuracy and durability. A special treatment to reinforce its strength is applied to the surface giving it greater strength and making it highly resistant to long-term use.

● Applicable for the Mount Conversion Service (charge apply)

As an experienced lens manufacturer that has been creating a diverse range of interchangeable lenses, we have started the innovative chargeable service “Mount Conversion Service”. With this service, the

mount of your lenses of new SGV product lines can be changed to another mount of your choice. It gives a new life to your favorite lenses from the new product lines 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.

[Specification] For Sigma

Lens Construction: 15 elements in 11 groups | Minimum aperture: F16 | Filter size: ø77mm | Angle of view (35mm): 84.1° | Minimum focusing distance: 25cm/9.8in. | Dimensions (Diameter x Length): ø85.0mm x 90.2mm/3.3in. x 3.6in. | Number of diaphragm blades: 9 (Rounded diaphragm) | Maximum magnification ratio: 1:5.3 | Weight: 665g/23.5oz.

[UPC Code]

SIGMA : 0085126-401566 Nikon : 0085126-401559 Canon : 0085126-401542

[Accessories]

Petal type Lens Hood LH830-03 (supplied) : 0085126-931346

FRONT CAP LCF III 77mm (supplied) : 0085126-930011

REAR CAP LCR II (supplied)

SIGMA : 0085126-929497 Nikon : 0085126-929503 Canon : 0085126-929510

SIGMA USB DOCK (optional accessory)

SIGMA : 0085126-878566, Nikon : 0085126-878559, Canon : 0085126-878542,

SIGMA WR PROTECTOR 77mm (optional accessory) : 0085126-930967

SIGMA PROTECTOR 77mm (optional accessory) : 0085126-931094

SIGMA WR UV FILTER 77mm (optional accessory) : 0085126-930707

SIGMA WR CIRCULAR PL FILTER 77mm (optional accessory) : 0085126-930837

[Contact]

For the further information, please find the nearest authorized Sigma Service Station from the link below.

<http://www.sigma-photo.co.jp/english/network/>

[Information]

SIGMA GLOBAL VISION: <http://www.sigma-global.com>