

5 REASONS TO CHOOSE PENTAX

1 Heavy-duty construction designed for all weather shooting

Have you ever hesitated to take your camera on an outing because you were concerned about it getting wet or dirty? The PENTAX DIGITAL SLR system features weather-resistant dustproof cameras, lenses and accessories.

All are fully sealed to keep out water, moisture and dust, so that you can enjoy taking pictures, wherever you are.



2 Shake-reduction mechanism compatible with all PENTAX lenses

Thanks to the PENTAX-developed SR (Shake Reduction) mechanism, PENTAX DSLR cameras can minimize the adverse effects of camera-shake effectively with all compatible interchangeable lenses.



3 100% field of view Pentaprism viewfinder



The 100% pentaprism viewfinder enables high precision and comfortable shooting by delivering a sharp, crisp view of the subject and a large, well-defined image field.

4 Compact, lightweight lenses for easy portability



By incorporating the PENTAX-developed SR (Shake Reduction) mechanism in the camera body, PENTAX can offer a range of light and easy to carry lenses, and with a design that is optimised for full-frame and APS-C image sensors, you can explore your photographic creativity.

5 Large range of K-Mount lenses compatible with APS-C and Full-frame sensor cameras



PENTAX owns a large line-up of K-Mount lenses that can be used with APS-C and Full-Frame sensors. Whether for high-magnification telephoto shooting, wide-perspective scenic photography, or a specialised application like macro or fish-eye photography, PENTAX offers a wide selection of both unifocal and zoom lenses to meet your needs.

YOUR PENTAX RETAILER:

RICOH IMAGING EUROPE S.A.S
Parc Tertiaire SILIC • 7-9, avenue Robert Schuman
B.P. 70102 • 94513 RUNGIS CEDEX • FRANCE

www.ricoh-imaging.eu

RICOH
imagine. change.

PENTAX

LENSES AND ACCESSORIES

PENTAX K Mount



RICOH
imagine. change.

QUALITY IN DETAIL



| Advantages of the PENTAX system

SHARP IMAGES WHATEVER LENS IS USED

The PENTAX digital SLR K series cameras have a built-in Shake Reduction (SR) mechanism in the camera body. This enables great freedom in the design without being constricted by the optical system or mechanisms that correct for hand shaking. The lens can be made into a compact design, and even better rendering performance can be achieved. With up to 5 stop benefit, the stabilization guarantees you sharp images, even in difficult light situations or using telephoto lenses. The considerable advantage of the built-in stabilization is that all K-mount lenses are stabilized.



A VERY LARGE RANGE OF K-MOUNT LENSES COMPATIBLE WITH APS-C AND FULL-FRAME SENSOR CAMERAS

PENTAX offers a very extensive range of interchangeable lenses optimized for APS-C sensor size. Whether it's high-magnification telephoto shooting, wide-perspective scenic photography, or a specialized application like macro or fish-eye, PENTAX offers a wide selection of both unifocal and zoom lenses to meet your needs.

All APS-C-format, K-mount interchangeable lenses are also usable on the PENTAX K-1 full-frame DSLR with the crop function.



HIGH-RESOLUTION, HIGH-PERFORMANCE LENS SERIES OPTIMIZED FOR FULL-FRAME FORMAT

Today, there are 15 PENTAX lenses that cover the full-frame image circle, including the 5 new ones from the PENTAX-D FA range.

| Content

- 03 PENTAX optical technologies
- 04 Lenses - the fundamentals
- 05 Choosing a lens for a specific application
- 07 The PENTAX lens line-up
- 09 Wide-angle lenses
- 12 Standard zoom lenses
- 19 Telezoom lenses
- 23 Fixed focal length lenses
- 33 Macro lenses
- 35 The PENTAX flash system
- 37 Your complete range of accessories
- 41 Lens comparison chart

| PENTAX optical technologies

Since 1919 PENTAX has been one of the most innovative manufacturers in the field of optics.



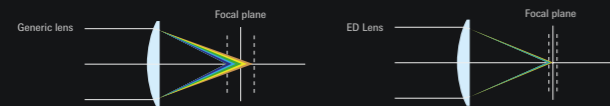
AL (Aspherical Lens)

Various types of aberration can occur in optical lenses that hinder the achieving of the ideal imaging performance. One type is spherical aberration where the light rays do not converge in a single focal point, resulting in blurring of the point image. Aspherical lenses (AL) can be used to minimize this aberration and reduce the number of component lenses for enabling a compact, high-performance lens design. In addition to glass-molded aspherical lenses, PENTAX has developed hybrid aspherical lenses, where special transparent resin is affixed to optical glass, and resin molded aspherical lenses. The optimal aspherical lens is selected based on the lens configuration, aperture size, application, and other factors.



ED (Extra-low Dispersion) Glass

The refraction rate of glass varies depending on the light wavelength. For this reason, because natural light consists of light of various wavelengths, this light fails to converge to a single focal point when passing through a lens. When an image is enlarged on a computer screen, you can sometimes see purple blurring around images of red points, for example. This is called chromatic aberration. In typical lenses using optical glass, this is difficult to correct as the focal length becomes longer. To minimize the chromatic aberration, PENTAX uses ED (Extra-low Dispersion) Glass, Anomalous Dispersion Glass, and high-refraction low dispersion glass, all of which have low spectral dispersion of light beams. The appropriate glass types are used for attaining exceptional imaging performance in both telephoto lenses and wide-angle lenses.



Electromagnetic Diaphragm Control Mechanism

This mechanism performs diaphragm control operations by receiving electronic signals from the camera body and shifting the aperture blades with the driving motor built into the lens. It lets the user change aperture settings more flexibly during movie recording, because it operates very quietly by minimizing the diaphragm control noise that otherwise could be recorded in movie clips. It also controls aperture more accurately to assure stable, high-precision exposure control, especially when an AF rear converter is used for shooting.** The HD PENTAX-DA 55-300mmED PLM WR RE lens does not accept the rear converters A14X-S and A2X-S.



Round Iris Diaphragm

This round-shaped diaphragm produces a natural, beautiful bokeh (out-of-focus) effect, while minimizing the streaking effect of point light sources.



Bokeh effect with Round Iris Diaphragm



SMC PENTAX

The SMC PENTAX is the benchmark of all PENTAX lenses. The SMC PENTAX lenses describes the high quality images.



Full-frame

It means that the lens image circle covers the full-frame sensor format.



HD (High Definition) Coating

Thanks to its higher light transmittance with reduced reflection, High Definition multi-layer lens coating enables sharp, clear images free of flare and ghost images, even under demanding lighting conditions such as backlight.



Ghosting in backlight

No ghost image with HD coating



SP (Super Protection) Coating

SP coating is a PENTAX-original special coating that provides superior performance in repelling water and oils. It is used on the front surface of the first high-performance lens for effective protection of the lens surface. This coating not only prevents adhesion of dust, water drops, oils, and other substances, but it also makes it easy to wipe off objects that adhere to the lens.



IF (Inner Focusing)

Typical interchangeable lenses use an all-group shifting system where the entire lens group moves to focus. By contrast, an IF system moves only a portion of the lens system to focus. In the IF system, the lenses driven by the motor during the AF operation are lighter for faster AF operation and shorter minimum shooting distance, which enables improved imaging performance during closeup shooting. Also, the total lens length does not change due to the focusing operation for preventing weight imbalances, which is particularly advantageous for super telephoto lenses.



RE (Retractable mechanism)

The retractable mechanism allows to have more compactness and portability of the lens.



Internal Lens Motor AF (SDM, DC, PLM)

Some lenses include SDM (supersonic direct-drive motor), DC (direct current motor) and PLM (pulse motor) in their lens names. These lenses perform the AF operation using the motor drive in the lens barrel. This enables a quieter and smoother AF operation than body AF operation driven by the focusing mechanism motor inside the camera body, and enables an easy, comfortable focusing operation. The SDM supersonic motor includes a brake mechanism for allowing high-accuracy speed control and position control. Lenses that employ a drive mechanism which directly links the PLM and lead screw are not only silent, but offer high-speed, high-precision AF operation.



Quick Shift Focus System

The PENTAX Quick Shift Focus System allows instant switching between Auto Focus and Manual Focus simply by turning the focusing ring on the lens. A clever clutch mechanism takes care of the rest.



Water and dust protection

Humidity and dirt are the natural enemies of high performance electronics and precision optics. AW lenses provide maximum weather-resistant and dustproof performance preventing the intrusion of drizzle and dust into the lens barrel. WR lenses come with a simplified weather-resistant construction designed to repel a light splash of water.



| Lenses - the fundamentals

How to read lens information

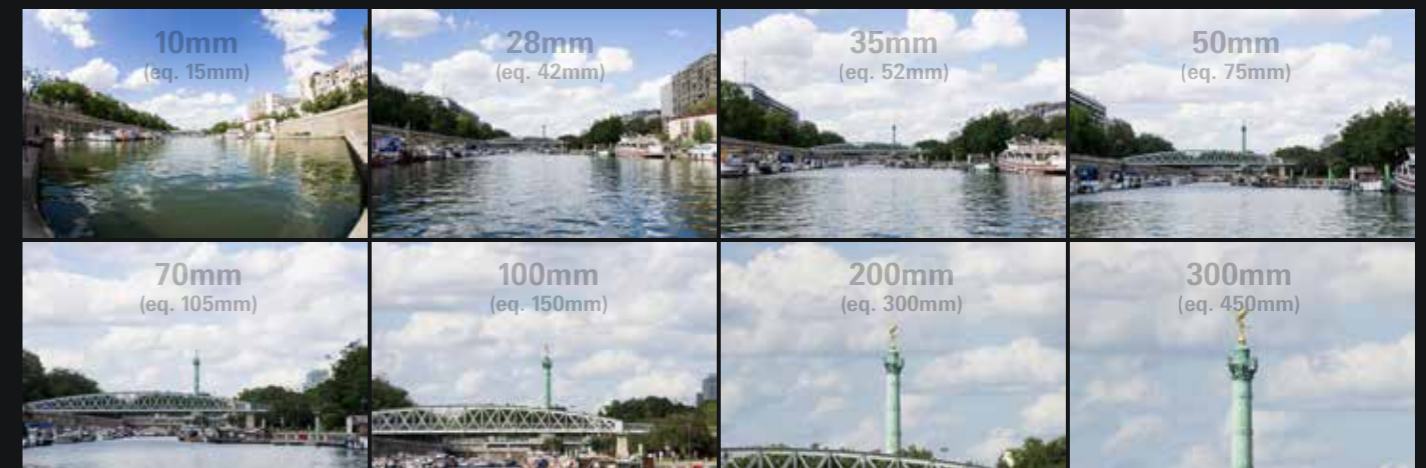
Lens series	Maximum focal length	Aperture at maximum focal length	Lens technology
	Minimum focal length	Aperture at minimum focal length	
DA 18-135mm	F3.5-5.6	ED AL (IF) DC WR	

Focal length

Focal length is the basic characteristic of a lens: it defines the area of a scene that can be viewed and recorded by a given sensor. Focal length is expressed in millimetres (mm).

Zoom lenses can have multiple focal lengths in one lens. They are versatile and can be used for different types of photography without having to change lens.

Fixed focal length lenses have only one focal length. They are brighter because they generally have a maximum aperture wider than zooms. This enables shooting in low light conditions or using high shutter speeds to freeze movement.



Depth of field

The diaphragm of the lens is similar to the iris of the human eye which allows the amount of light input into the lens to be varied by controlling its size.

The aperture not only has a role in controlling the amount of light entering the lens and reaching the sensor, but also has a large effect on the depth of field.

Separate from autofocus, depth of field defines the area of sharpness in front of and behind the point of focus.



The wider the aperture (e.g. F1.4 or F2.8),

→ the more light enters into the lens,
→ the shallower the depth of field:
the main subject stands out and the background is blurred

The smaller the aperture (e.g. F11 ou F16)

→ the less light enters into the lens,
→ the deeper the depth of field:
foreground and background will be in focus

Choosing a lens for a specific application

Wondering what goal to choose ? Want to photograph portraits, flowers, sport or landscapes ? Each area has it's own peculiarities. Here are some tips to help when choosing a lens. It is important to know what you plan shooting.



© Thibaud Epeche



Landscapes, architecture, indoor or groups

Wide-angle or ultra-wide-angle lenses provide a benefit in the great outdoors. Allowing monuments and views to be captured in their entirety or to capture the most information in a confined space. For architecture, attention to the phenomenon of perspective distortion.



Sport, show or animal photography

Bright long focal length lenses, telephoto or telezoom (100mm to 300mm), are better for this photography. While being at a distance from the subject these lenses will allow you to feel closer.



© Christoph Brunen



Macro photography

To capture small subjects and detail such as flowers, insects and water droplets, a macro lens will help. Focussing closer these allow the subjects to be larger in the image even to a life-size 1:1. For instance the DA 35mm Macro allows focusing down to 14cm preserving life-size detail.



© Dmitri Men'chikov



Portrait

Focal lengths of around 70 to 100mm are ideal for portrait photography. These are the least distorting for the shape of the face offering a pleasing result. Also highlight the subject from the background by choosing a wide aperture (F2.8 or more) to give a shallow depth of field.



© Olga Babitch



© Laurence Bouly



© Bruno Giordano



Weather resistance

Protect against humidity and dust

If you want to take your lens everywhere with you with no fear of sea spray, a wet tropical climate or dust. Then choose a weather-resistant lens which benefits from protective seals.



Reportage

If you like reportage photography, photos taken on the spot like street photography, it is better to choose a focal length close to the vision of the human eye, about 35mm equivalent to 50mm in 35mm format.



The versatile lens

If you are looking for a lens that may be suitable for landscape, portrait or reportage, you can opt for a universal zoom lens such as the DA 18-270mm or DA 18-135mm. This is a zoom with a focal range which extends from wide-angle to telephoto. Despite a lower brightness than the specialized lenses, these are ideal for everyday use. Extremely versatile and convenient particularly when travelling.



© Laurence Bouly



For fast and quiet focusing

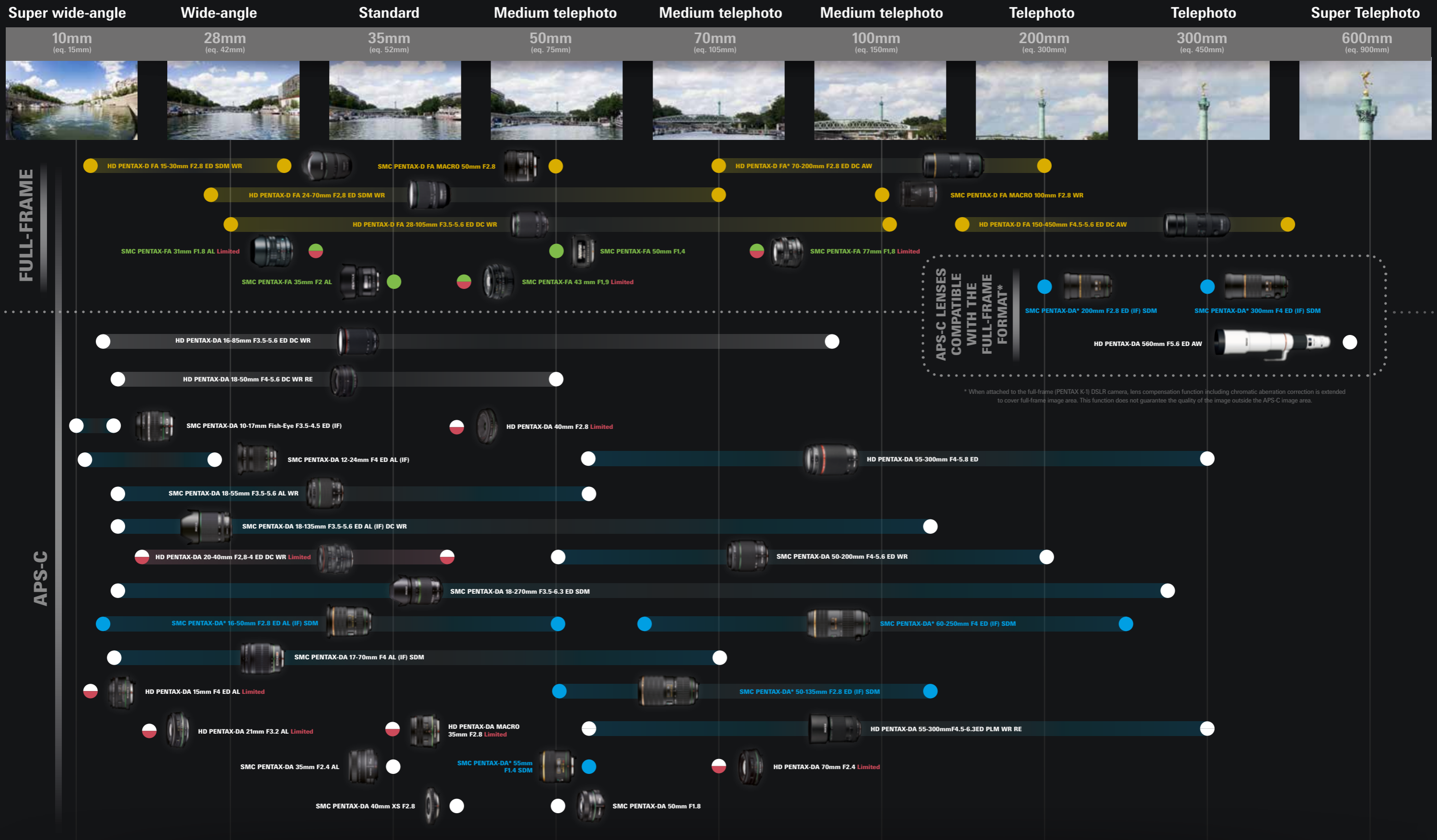
If you want the ultimate in performance, choose a lens with an ultrasonic, direct current or pulse motor. It will offer you a fast, precise and quiet focusing.



© Laurence Bouly

Let your imagination run free and you'll discover a new world. PENTAX has ideal lenses for photographing your environment. Throughout the brochure you will find icons to help you to choose your lens based on its use.

| The PENTAX K-Mount lens line-up



DA Series

The PENTAX-DA series provides balanced performance in combination with PENTAX digital SLR cameras. These lenses assures crystal-clear imaging with a deep richness and three-dimensional sensation going beyond mere numerical evaluation. These lenses also offers an outstanding operability with a compact and lightweight body.

DA* Series

These are super high-performance lens created for enabling digital single-lens reflex (SLR) cameras to reach unprecedented levels of image quality and provide even more dramatic photographic expression. We have striven to reach the highest levels of uncompromising optical performance, including advanced imaging performance that corrects various types of aberrations for all focal lengths and shooting distance ranges.

D FA*/ D FA Series

These series feature a high-resolution, high-performance lenses optimized for full-frame format. D FA*-series lenses are designed for uncompromising optical performance, while D FA-series lenses assure well-balanced imaging power. They effectively compensate for various aberrations even at the edges of the PENTAX K-1's wide image field, while optimizing resolving power and contrast across the image.

FA Series

The PENTAX FA lens series were originally designed for film SLR cameras, but they are also fully compatible with digital SLR cameras. The FA series features full image coverage with full automatic and manual aperture control.

Limited Series

These high-grade lenses provide unique focal lengths deduced from the experiences of many professionals and outstanding imaging power with a truthful sense of perspective. Its exterior casing is made of high-grade machined aluminum for a beautiful finish and durability.

WIDE-ANGLE LENSES

The wide-angle zoom lenses allow a wide framing of close objects or of large scenes such as landscapes. You can also choose to use these lenses to enhance perspective.

© Andrei Tourtsevitch

smc PENTAX-DA 10-17mm Fish-Eye F3.5-4.5 ED (IF)



N.21580

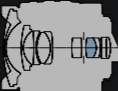
- Equivalent to 15-26mm in full-frame format
- Fish-eye lens for amazing shots
- Fast manual focusing in AF mode with Quick Shift focus system
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- SP (Super Protect) front lens element coating to protect against dirt and finger marks

Fish eye lenses open unusual perspectives. With extraordinary optical characteristics this lens substantially extends your creative possibilities. It zooms steplessly through a picture angle of 180 to 100 degrees, which permits a new level of dramatic imaging nuances. With the special optical design you can create striking macro photographs from a distance of only 2.5cm. Employing ED (Extra-low Dispersion) glass, this lens effectively overcomes chromatic aberration throughout the image – an effect particularly noticeable with enlargements. Thanks to the IF (inner focus) system, the lens length does not change during focusing for easy handling and compactness. What’s more, the front lens element uses the unique PENTAX SP protective coating to repel dirt and water.



© Norio Matsumoto

Ideal for:



- Construction: 10 elements in 8 groups • Minimum focusing distance: 14cm • Maximum magnification: 0.39X
- Angle of view (°): 180 - 100 • Filter size: not applicable • Dimensions (d x l): 68 x 71.5mm • Weight: 320g

smc PENTAX-DA 12-24mm F4 ED AL (IF)



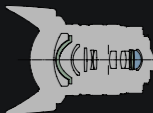
N.21577

- Equivalent to 18-37mm in full-frame format
- 2X zoom within a wide-angle lens
- Fast manual focusing in AF mode with Quick Shift focus system
- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- SP (Super Protect) front lens element coating to protect against dirt and finger marks

Extreme focal lengths are a challenge, particularly in digital SLR photography. The smc PENTAX-DA 12-24mm F4 ED AL (IF) offers you a lens that permits a total range of wide-angle photography. Utilising aspherical (AL) and extra-low dispersion (ED) lens elements, crystal-clear photos with marvellous colour depth are assured. The lens covers a subject angle range between 99 and 61 degrees, which corresponds to a focal length of 18 to 37mm in full-frame format. Thanks to the IF (inner focus) system, the lens length does not change during focusing for easy handling and compactness. The Quick-Shift Focus System allows a seamless switching from AF to MF.



Ideal for:



- Construction: 13 elements in 11 groups • Minimum focusing distance: 30cm • Maximum magnification: 0.12X
- Angle of view (°): 99 - 61 • Filter size: 77mm • Dimensions (d x l): 84 x 88mm • Weight: 430g



© Hideyuki Motegi

- Image circle covering full-frame sensor
- Equivalent to 23-46mm with APS-C format camera
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Large F2.8 aperture to offer outstanding depth of field control in any lighting condition
- Ultrasonic lens motor for an extremely fast and silent focus
- Weather-resistant construction against humidity and water splashes
- HD coating to optimize light transmittance and minimize reflections
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- Round-shaped diaphragm to produce beautiful bokeh

Thanks to its exaggerated perspective typical of an ultra- wide-angle lens and high-resolution imaging power, it captures dynamic, sweeping views of subjects, especially in landscape photography. Treated with the PENTAX-developed HD Coating, it produces well-defined, fine-detailed images with ample light levels even at the edges of the image field, while effectively reducing chromatic aberration, distortion and coma to a minimum. Despite its ultra-wide-angle perspective, it can capture the subject with an excellent bokeh (defocus) effect on the background. Even in macro photography from its minimum focusing distance of 28 centimeters, it can capture subjects with a well-defined sense of depth. Its large F2.8 maximum aperture also comes in handy for photographing nightscapes and starry skies. The built-in SDM (Supersonic Direct-drive Motor) provides quiet, high-speed autofocus operation. Moreover, special seals applied throughout the lens body provide this zoom lens with dependable weather-resistant construction, effectively preventing the intrusion of water into the lens interior.

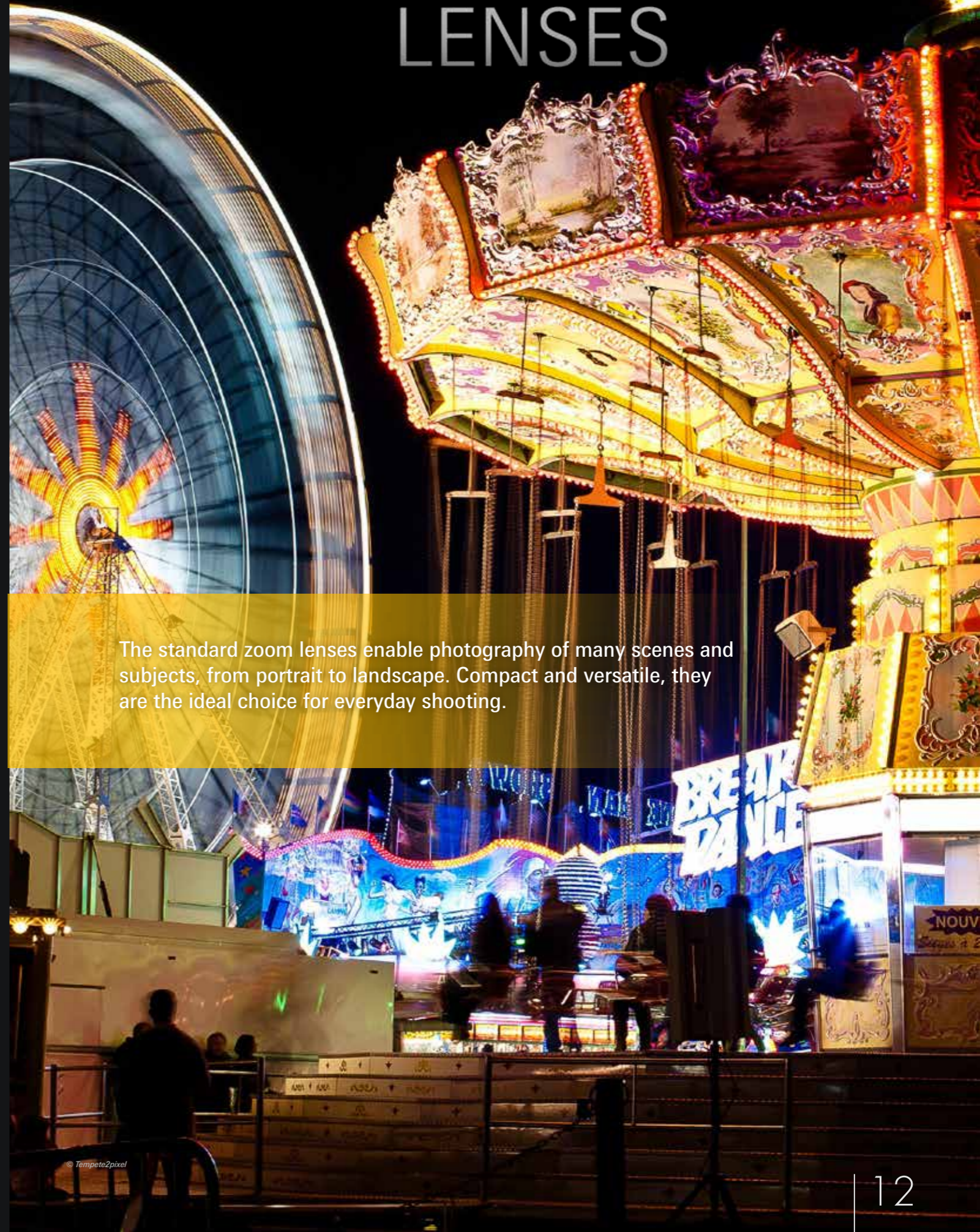
Ideal for:



- Construction: 18 elements in 13 groups • Minimum focusing distance: 28cm • Maximum magnification: 0.20X
- Angle of view (°): 111-72 (Full-frame), 86-50 (APS-C)
- Filter size: not applicable • Dimensions (d x l): 98.5 x 143.5mm • Weight: 1040g



STANDARD ZOOM LENSES



The standard zoom lenses enable photography of many scenes and subjects, from portrait to landscape. Compact and versatile, they are the ideal choice for everyday shooting.

© Tempete2pixel



© Toshiki Nakanishi

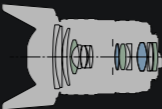
- Equivalent to 25-77mm in full-frame format
- High-performance Star (*) series developed for the highest level of image rendition
- Ultrasonic lens motor for an extremely fast and silent focus
- Weather-resistant construction against humidity, water splashes and dust
- Large F2.8 aperture to offer outstanding depth of field control in any lighting condition
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- Fast manual focusing in AF mode with Quick Shift focus system

The DA Star (*) series lenses open a new chapter of PENTAX lens history. Fundamental characteristics of the series: they have super fast Supersonic Motor, utilizing the latest generation of ultrasonic motor technology, and their housings are completely sealed against water and dust. The supersonic technology is specifically designed for cameras introduced since the PENTAX K10D. However, these new, outstanding lenses are also compatible with older camera models as they are also equipped with the conventional autofocus drive system. The DA* 16-50mm is the ultimate standard zoom. With a continuous aperture of 2.8 it's more than capable of handling poor lighting conditions. The Quick Shift focus system provides for decisive manual focus capabilities – allowing for instantaneous manual focusing without switching from the autofocus mode. And rounding off the new, intelligent design of the Star (*) series lenses is the PENTAX proprietary SP coating, which effectively protects the front lens element against dirt and pollution. Thanks to the IF (inner focus) system, the lens length does not change during focusing for easy handling without becoming unbalanced.



Ideal for:

- Construction: 15 elements in 12 groups
- Minimum focusing distance: 30cm
- Maximum magnification: 0.21X
- Angle of view (°): 83 - 31.5
- Filter size: 77mm
- Dimensions (d x l): 84 x 98mm
- Weight: 565g



- Equivalent to 24-130mm in full-frame format
- 5.3X zoom ratio lens covering ultra-wide angle
- Weather-resistant construction against humidity and water splashes
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
- HD coating to optimize light transmittance and minimize reflections
- Fast manual focusing in AF mode with Quick Shift focus system
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Round-shaped diaphragm to produce beautiful bokeh
- SP (Super Protect) front lens element coating to protect against dirt and finger marks

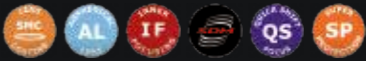
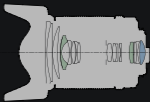
This interchangeable zoom lens not only provides the high 5.3-times zoom ratio, but it also features the PENTAX-exclusive HD coating to deliver sharp, clear images even under demanding lighting conditions such as backlight, an ED (Extra-low Dispersion) glass element to effectively compensate for chromatic aberrations, and aspherical optical elements to minimize color bleeding. Its weather-resistant body makes it extremely dependable and durable under demanding outdoor conditions.



© Toshiki Nakanishi

- Construction: 16 elements in 12 groups • Minimum focusing distance: 35cm • Maximum magnification: 0.26X
- Angle of view (°): 83-19° • Filter size: 72mm • Dimensions (d x l): 94 x 78mm • Weight: approx. 488g

Ideal for:



- Equivalent to 26-107mm in full-frame format
- High-magnification 4.1X zoom lens
- Ultrasonic lens motor for an extremely fast and silent focus
- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- IF (inner focus) system to keep the lens length during focusing

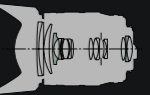
This single lens features a wide usage range for unfettered shooting and control of out-of-focus (bokeh) effect. Two aspherical lenses are used to correct various types of aberrations and provide delineation performance over the entire zoom range. The ultrasonic motor drive AF mechanism (SDM), inner focus system, and the high magnification zoom at more than 4X from wide to telephoto make this a high-performance standard zoom lens that also enables smooth and easy operation. The Quick-Shift Focus System that enables manual focusing after focusing by the AF without any need for a switching operation. The SP (super protect) coating on the front lens allows to repel water and dirt.



© Yann Boudin

- Construction: 17 elements in 12 groups • Minimum focusing distance: 28cm • Maximum magnification: 0.31X
- Angle of view (°): 79 - 23 • Filter size: 67mm • Dimensions (d x l): 75 x 93mm • Weight: 485g

Ideal for:



HD PENTAX-DA 18-50mm F4-5.6 DC WR RE



N.21357

- Equivalent to 27-76mm in full-frame format
- Retractable mechanism for more compacity and portability
- Weather-resistant construction against humidity and water splashes
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
- HD coating to optimize light transmittance and minimize reflections
- Round-shaped diaphragm to produce beautiful bokeh
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- Fast manual focusing in AF mode with Quick Shift focus system

This standard zoom lens has been developed as a compact, easy-to-use everyday lens that meets user demand for a downsized, high-resolution digital SLR imaging system. Thanks to its retractable mechanism, it provides the world's shortest length in the stored position: just 41 millimeters*. Despite its ultra-compact design that assures outstanding portability, it also features the PENTAX-original HD Coating, super-low dispersion glass elements and aspherical elements to effectively compensate various aberrations for sharp, high-contrast, well-balanced images. Its built-in DC motor assures smooth, quiet autofocus operation, while its weather-resistant body makes it extremely dependable and durable in demanding outdoor conditions.

* The world's shortest standard zoom lens for use with digital SLR cameras (as of February 1, 2015, based on RICOH IMAGING research)



© Masaaki Aihara

- Construction: 11 elements in 8 groups
- Minimum focusing distance: 0.3m
- Maximum magnification: 0.23X
- Angle of view (°): 76 - 31.5
- Filter size: 58mm
- Dimensions (d x l): 71 x 41mm
- Weight: 158g

Ideal for:



smc PENTAX-DA 18-55mm F3.5-5.6 AL WR



N.21880

- Equivalent to 28-85mm in full-frame format
- Weather-resistant construction against humidity and water splashes
- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- Fast manual focusing in AF mode with Quick Shift Focus System
- SP (Super Protect) front lens element coating to protect against dirt and finger marks

This lens is ideal for many shooting situations, at 235g you can take it anywhere with you. An optical system with a high-performance aspherical lens and Anomalous Dispersion Glass is used for correcting various types of aberration and enabling full edge-to-edge lighting and sharp resolution. Also incorporating many advanced technologies, specific curvature of the lens element and an optimized lens formula, this Weather-resistant lens ensures sharp images and contrast with particularly fine details.



© Tempete2pixel

- Construction: 11 elements in 8 groups
- Minimum focusing distance: 25cm
- Maximum magnification: 0.34X
- Angle of view (°): 76 - 29
- Filter size: 52mm
- Dimensions (d x l): 68 x 67mm
- Weight: 235g

Ideal for:



smc PENTAX-DA 18-135mm F3.5-5.6 ED AL (IF) DC WR



N.21977



© Laurence Bouly

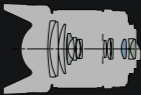
- Equivalent to 28-207mm in full-frame format
- Weather-resistant construction against humidity and water splashes
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
- AL (Aspherical Lens) to reduce aberrations and provide crystal clear images
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- IF (inner focus) system to keep the lens length during focusing

This lens combines quality and versatility. With a magnification ratio of 7.5x and a zoom range equivalent to 28-207mm in full-frame format, it offers a wide choice of compositions and is suitable for many photographic situations. For shooting outdoors and off the beaten track, it is equipped with 7 protection seals to protect it from bad weather. With a built-in AF motor, the focusing speed is faster and quieter than when the AF motor is in the SLR body. Also equipped with a round-shaped diaphragm, it produces natural, beautiful bokeh (out-of-focus effect).

Ideal for:



- Construction: 13 elements in 11 groups
- Minimum focusing distance: 40cm
- Maximum magnification: 0.24X
- Angle of view (°): 11.9 - 76
- Filter size: 62mm
- Dimensions (d x l): 73 x 76mm
- Weight: 405g



smc PENTAX-DA 18-270mm F3.5-6.3 ED SDM



N.21497

- Equivalent to 28-414mm in full-frame format
- Ultrasonic lens motor for an extremely fast and silent focus
- Round-shaped diaphragm to produce beautiful bokeh
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Minimum shooting distance of 0.49m over entire zoom range

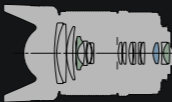
This high-magnification zoom lens offers 15-times zoom ratio and makes it extremely versatile and handy. It allows the user to effortlessly capture a wide variety of subjects, ranging from landscapes and snapshots to sports events, without the need of lens changes. Thanks to the PENTAX-original SDM autofocus system driven by a built-in supersonic motor, this zoom lens offers exceptionally smooth and quiet autofocus operation. Also equipped with a round-shaped diaphragm, it produces natural, beautiful bokeh (out-of-focus effect). Incorporating two extra-low dispersion (ED) elements in its optics, it delivers bright, high-resolution images even at the edges, while effectively minimizing chromatic aberration.



© Laurence Bouly

- Construction: 16 elements in 13 groups • Minimum focusing distance: 49cm • Maximum magnification: 0.26X
- Angle of view (°): 76 - 6 • Filter size: 62mm • Dimensions (d x l): 76 x 89mm • Weight: 453g

Ideal for:



HD PENTAX-DA 20-40mm F2.8-4 ED Limited DC WR



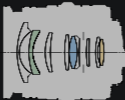
N.23000 / N. 23010

- Equivalent to 30.5-61.5mm in full-frame format
- High quality aluminium finish and excellent optical performance of the DA Limited line-up
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Round-shaped diaphragm to produce beautiful bokeh
- Weather-resistant construction against humidity and water splashes
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
- HD coating to optimize light transmittance and minimize reflections

This model is the first zoom lens of the high-grade Limited Lens series, which is renowned for its exceptional visual description, distinctive appearance and meticulous finish in every detail. It features a two-times zoom range covering focal lengths from moderate wide angle to standard, and a large maximum aperture of F2.8 at its wide-angle end. In addition to the state-of-the-art HD coating and completely round-shaped diaphragm, it also comes equipped with a weather-resistant construction for the first time in the Limited lens series, and a smooth, quiet AF system driven by a lens-installed AF motor, to capture beautiful, high-quality images, even under demanding weather and environmental conditions.



Ideal for:



- Construction: 9 elements in 8 groups • Minimum focusing distance: 28cm • Maximum magnification: 0.20X
- Angle of view (°): 70 - 39 • Filter size: 55mm • Dimensions (d x l): 71 x 68.5mm • Weight: 283g

HD PENTAX-D FA 24-70mm F2.8 ED SDM WR



N.21310

- Image circle covering full-frame sensor
- Equivalent to 37-107mm with APS-C format camera
- Large F2.8 aperture to offer outstanding depth of field control in any lighting condition
- HD coating to optimize light transmittance and minimize reflections
- Weather-resistant construction against humidity and water splashes
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Ultrasonic lens motor for an extremely fast and silent focus
- Fast manual focusing in AF mode with Quick Shift focus system
- Round-shaped diaphragm to produce beautiful bokeh

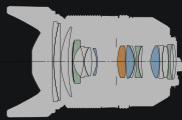
When mounted on the PENTAX K-1 full-frame DSLR, this large-aperture standard zoom lens covers a focal-length range from 24mm ultra-wide-angle to 70mm standard,* and provides a maximum aperture of F2.8 over the entire zoom range. By incorporating three ED (Extra-low Dispersion) optical elements and four aspherical optical elements, it ensures sufficient light levels even at the edges of the image field and minimizes various aberrations to deliver fine-detailed, high contrast and high resolution images. The built-in SDM (Supersonic Direct-drive Motor) provides a quiet, high-speed autofocus operation. Also equipped with a round-shaped diaphragm, it produces natural, beautiful bokeh (out-of-focus effect).



© Yoshiaki Kobayashi

- Construction: 17 elements in 12 groups • Minimum focusing distance: 0.38m • Maximum magnification: 0.20X
- Angle of view (°): Angle of view: 84-34.5 (Full-frame), 61-23 (APS-C)
- Filter size: 82mm • Dimensions (d x l): 88.5 x 109.5mm • Weight: 787g

Ideal for:



HD PENTAX-D FA 28-105mm F3.5-5.6 ED DC WR



N.21297

- Image circle covering full-frame sensor
- Equivalent to 43-161mm with APS-C format camera
- HD coating to optimize light transmittance and minimize reflections
- Weather-resistant construction against humidity and water splashes
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Round-shaped diaphragm to produce beautiful bokeh

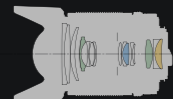
This new compact, lightweight standard zoom lens provides a focal-length range from wide angle to medium telephoto. Despite its compact, highly maneuverable body, this versatile zoom lens is designed to accommodate the image circle of a large full-frame image sensor, thanks to the adoption of state-of-the-art optics and high-performance optical elements. When mounted on the PENTAX K-1 camera body, it delivers high-resolution imaging power, making it an ideal everyday-use lens. In its 15-element, 11-group optics, this zoom lens incorporates two high-precision aspherical optical elements, one ED (Extra-low Dispersion) glass optical element and one anomalous-dispersion glass optical element, to deliver bright, sharp images with minimal chromatic and spherical aberrations. Since its optics is designed to assure ample resolving power for the large, high-pixel image sensor, it produces well-defined, fine-detailed images.



© Kei Taniguchi

- Construction: 15 elements in 11 groups • Minimum focusing distance: 0.5m • Maximum magnification: 0.22X
- Angle of view (°): Angle of view: 75-23.5 (Full-frame), 53-15.5 (APS-C)
- Filter size: 62mm • Dimensions (d x l): 73 x 86.5mm • Weight: 440g

Ideal for:





With telephoto lenses, the photographer can capture details when he can not approach the subject, especially for wildlife or sport photography.

© Andrei Tourtsevitch

smc PENTAX-DA* 50-135mm F2.8 ED (IF) SDM



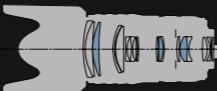
N.21660

- Equivalent to 76.5-207mm in full-frame format
- High-performance Star (*) series developed for the highest level of image rendition
- Large F2.8 aperture to offer outstanding depth of field control in any lighting condition
- IF (inner focus) system to keep the lens length during focusing
- Weather-resistant construction against humidity, water splashes and dust
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Fast manual focusing in AF mode with Quick Shift Focus System

This telephoto zoom lens has a zoom ratio of approximately 2.7X and enables shooting of landscapes, portraits and also sports and other high-mobility shooting. This lens has a brightness of F2.8 over the entire zoom range for enabling a wide range of out-of-focus (bokeh) effect and capturing just the right moment with the high-speed shutter. The lens also features compact mobility for easy shooting. This lens features a compact ultrasonic motor for enabling an internal AF mechanism (SDM mechanism). It also includes a brake function to enable easy speed and position control for smooth and precise AF operation. Thanks to the IF (inner focus) system, the lens length does not change during focusing for easy handling without becoming unbalanced. Three ED (extra-low dispersion) glass lenses are used for eliminating any chromatic aberration. This enables taking of stunning images at high resolutions, beautiful color gradations with sharp colors, and more lifelike imaging. The DA* 50-135mm also features the PENTAX SP (Super Protect) front lens element coating to protect against dirt and finger marks.



Ideal for:



- Construction: 18 elements in 14 groups • Minimum focusing distance: 1m • Maximum magnification: 0.17X
- Angle of view (°): 31.5 -11.9 • Filter size: 67mm • Dimensions (d x l): 76.5 x 136mm • Weight: 685g

smc PENTAX-DA 50-200mm F4-5.6 ED WR



N.21870

- Equivalent to 76.5-307mm in full-frame format
- Weather-resistant construction against humidity and water splashes
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Fast manual focusing in AF mode with Quick Shift Focus System
- SP (Super Protect) front lens element coating to protect against dirt and finger marks

A 4x zoom which delivers an effective zoom range of 75-300mm in full-frame format. Now that's impressive! An 11 element construction provides richly saturated images packed with detail and makes this lens a favoured choice of landscape photographers where homing in on distant detail is important. The design includes one extremely low-dispersion ED glass element to control chromatic aberration. This lens is equipped with protective seals and is resistant to humidity. It is the perfect complement to the DA 18-55 WR for complete weather-resistant equipment.



© Wolfgang Baus

- Construction: 11 elements in 10 groups • Minimum focusing distance: 1.1m • Maximum magnification: 0.24X
- Angle of view (°): 31.5 -8.1 • Filter size: 49mm • Dimensions (d x l): 69 x 79.5mm • Weight: 285g

Ideal for:



HD PENTAX-DA 55-300mm F4-5.8 ED WR



N.22270

- Equivalent to 84.5-460mm in full-frame format
- Weather-resistant construction against humidity and water splashes
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Fast manual focusing in AF mode with Quick Shift focus system
- HD coating to optimize light transmittance and minimize reflections
- SP (Super Protect) front lens element coating to protect against dirt and finger marks

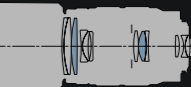
With its 5.5 times zoom ratio covering from 84.5 to 460mm focal length (in full-frame format) the HD-DA 55-300mm offers an extremely wide zoom range. It features PENTAX-original HD coating* to deliver sharp, clear images even under such demanding lighting conditions as backlight. A high performance ED lens element is incorporated to keep colour aberrations to a minimum. Its weather-resistant construction enhances reliability and durability during challenging outdoor shooting conditions, allowing the photographer to capture high-impact telephoto images without worries. This lens can be used for a wide range of shooting from portraits to sports and landscapes and is characterized by a natural out-of-focus (bokeh) effect.



© Laurence Bouly

- Construction: 12 elements in 8 groups • Minimum focusing distance: 1.4m • Maximum magnification: 0.28X
- Angle of view (°): 29 -5.4 • Filter size: 58mm • Dimensions (d x l): 72 x 111.5mm • Weight: 466g

Ideal for:



HD PENTAX-DA 55-300mm F4.5-6.3 ED PLM WR RE

HD

ED

QS

SP

WR

PLM

RE

N.21277

- Equivalent to 84.5-460mm in full-frame format
 - Short minimum focusing distance of 0.95m
 - Compact telephoto zoom lens thanks to its retractable mechanism
 - KAF4 is PENTAX's first K-mount with electromagnetic diaphragm control system for a quiet sound operation during movie recording
 - Rear focus system and PLM (pulse motor), direct drive lead screw system for a High-speed AF
 - Weather-resistant construction against humidity and water splashes
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
 - HD coating to optimize light transmittance and minimize reflections
 - Fast manual focusing in AF mode with Quick Shift Focus System
 - SP (Super Protect) front lens element coating to protect against dirt and finger marks
 - Round-shaped diaphragm to produce beautiful bokeh

This zoom lens provides focal lengths between 84.5mm and 460mm in the full-frame format to cover medium- to super-telephoto ranges. Thanks to its upgraded AF performance and especially to the PLM mechanism, it assures quiet, high-speed AF operation in still-image shooting, as well as smooth AF tracking operation during movie recording to minimize operation noise caused by focus and aperture shifts. Its newly designed, high-quality optics provide a minimum focusing distance of 0.95m, expanding the range of photographic applications. With the adoption of a retractable structure, it measures a mere 89 millimeters in length, making it easy to carry around. Coupled with its weather-resistant construction, this zoom lens assures outstanding reliability even in demanding shooting conditions.



- Construction: 14 elements in 11 groups • Minimum focusing distance: 0.95m • Maximum magnification: 0.30X
- Angle of view (°): 29-5.4 • Filter size: 58mm • Dimensions (d x l): 76.5 x 89mm • Weight: 442g

smc PENTAX-DA* 60-250mm F4 ED (IF) SDM

SMC

ED

IF

SDM

QS

SP

AW

N.21750

- Equivalent to 92-383mm in full-frame format
 - High-performance Star (*) series developed for the highest level of image rendition
 - Ultrasonic lens motor for an extremely fast and silent focus
- Weather-resistant construction against humidity, water splashes and dust
 - ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
 - Fast manual focusing in AF mode with Quick Shift focus system
 - IF (inner focus) system to keep the lens length during focusing

With constant aperture F4, fast and quiet ultrasonic focusing, protective seals, this powerful telephoto zoom lens with a magnification ratio of 4.2X will seduce many photographers fond of portraits, sport or wildlife. Equipped with ED glass, it will guarantee better colour rendering. Its internal focusing and its protection against humidity and dust make it a reliable lens for outdoor use. This lens comes with a tripod collar.



- Construction: 15 elements in 13 groups • Minimum focusing distance: 1.1m • Maximum magnification: 0.15X
- Angle of view (°): 26.5 -6.5 • Filter size: 67mm • Dimensions (d x l): 82 x 167.5mm • Weight: 1040g

HD PENTAX-D FA* 70-200mm F2.8 ED DC AW

AW

DC

HD

ED

QS

SP

FF

N.21330

- Image circle covering full-frame sensor
 - 3X ratio telezoom (eq. to 107-307mm with APS-C format camera)
 - Large F2.8 aperture to offer outstanding depth of field control in any lighting condition
 - Weather-resistant construction against humidity, water splashes and dust
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
 - New Aero Bright Coating and HD Coating to optimize light transmittance and minimize reflections
 - ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
 - Round-shaped diaphragm to produce beautiful bokeh

Designed for use with PENTAX K-mount digital SLR cameras, this large-aperture telephoto zoom lens is a new addition to the high-performance Star (*) series developed for the highest level of image rendition. This telephoto zoom lens has been developed as a new model of the PENTAX Star (*) series, which boasts the highest image quality of all PENTAX interchangeable lenses by compensating various aberrations to a minimum. Thanks to its large-aperture design, it provides a large maximum aperture of F2.8 at all focal lengths from 70mm to 200mm. Coupled with other PENTAX-original lens-coating technologies - such as the newly developed Aero Bright Coating II assuring exceptionally low reflectance, and the high-grade HD Coating - it produces extra-sharp, high-contrast images free of flare and ghost images, even under demanding lighting conditions such as in backlight. In addition to four super-low dispersion glass elements and two ED (Extra-low Dispersion) glass elements, its optics includes a pair of new Super ED glass elements to effectively compensate chromatic aberration over the entire zoom range and deliver crisp, high-resolution images with edge-to-edge sharpness. Its dustproof, weather-resistant body also makes it extremely dependable and durable in demanding outdoor conditions.



© Kei Taniguchi

- Construction: 19 elements in 16 groups • Minimum focusing distance: 1.2m • Maximum magnification: 0.13X
- Angle of view (°): 34.5-12.5 (Full-frame), 23-8.1 (APS-C)
- Dimensions (d x l): 91.5 x 203mm • Weight: 1755g

HD PENTAX-D FA 150-450mm F4.5-5.6 ED DC AW

AW

DC

HD

ED

QS

SP

FF

N.21340

- Image circle covering full-frame sensor
 - 3X ratio supertelephoto zoom (eq. to 230-690mm with APS-C format camera)
 - Weather-resistant construction against humidity, water splashes and dust
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
 - HD Coating to optimize light transmittance and minimize reflections
 - ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
 - Round-shaped diaphragm to produce beautiful bokeh

This lens is designed to be compact and light enough to handhold during long-range shooting of such subjects as wildlife, aircraft and sports. It features the PENTAX-original, high-grade HD Coating to produce extra-sharp, high-contrast images even under demanding lighting conditions such as in backlight. It also incorporates three ED (Extra-low Dispersion) glass elements and a super-low dispersion glass element to effectively compensate chromatic aberration. Its dustproof, weather-resistant body also makes it extremely dependable and durable in demanding outdoor conditions.



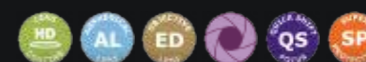
© Yoshiaki Kobayashi

- Construction: 18 elements in 14 groups • Minimum focusing distance: 2m • Maximum magnification: 0.22X
- Angle of view (°): Angle of view: 16.5-5.5 (Full-frame), 10.7-3.6 (APS-C)
- Filter size: 86mm • Dimensions (d x l): 95 x 241.5mm • Weight: 2000g

FIXED FOCAL LENGTH LENSES

A zoom lens is often complemented by brighter fixed focal length lenses, which are chosen according to areas of interest (macro, portrait, reportage). Ultra bright, these often prove to be indispensable in low-light conditions. Compact, they can shoot more discreetly. PENTAX stands out with its famous pancakes and DA Limited range.

HD PENTAX-DA 15mm F4 ED AL Limited



N.21470 / N.21480

- Equivalent to 23mm in full-frame format
- High quality aluminium finish and excellent optical performance of the DA Limited line-up
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours and saturated colours
- Round-shaped diaphragm to produce beautiful bokeh

- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- HD coating to optimize light transmittance and minimize reflections

This ultra wide-angle lens has a focal length equivalent to 23mm in full-frame format, which provides unique images with larger perspective and depth of field. The lenses of the PENTAX DA Limited Edition Series benefit from optical quality and construction without compromise. The lens includes an aspherical lens and extra-low dispersion (ED) glass lens to correct distortion and chromatic aberration for delineation performance. In addition, the extremely compact and lightweight design allows the use of 49mm filters and even circular polarizing filters for landscape photos. The lens also includes a built-in retractable sliding flower-shaped hood.



© Bruno Giordano

Ideal for:



- Construction: 8 elements in 6 groups • Minimum focusing distance: 28cm • Maximum magnification: 0.15X
- Angle of view (°): 86 • Filter size: 49mm • Dimensions (d x l): 63 x 39.5mm • Weight: 189g

HD PENTAX-DA 21mm F3.2 AL Limited



N.21410 / N.21420

- Equivalent to 32mm in full-frame format
- High quality aluminium finish and excellent optical performance of the DA Limited line-up
- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- HD coating to optimize light transmittance and minimize reflections

- Round-shaped diaphragm to produce beautiful bokeh
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- Large F3.2 aperture to offer outstanding depth of field control in any lighting condition

This compact and robust lens offers high speed and compact dimensions. A hybrid aspherical lens and floating mechanism are used for providing sharp, crystal-clear images at all shooting distances. This lens uses a new-generation multicoating that reduces the reflection rate in the visible spectrum up to 50% or more than conventional multicoating. This enables the reduction of flare and ghosting for the shooting of bright, high-contrast images even under backlighting and other adverse conditions. The highly effective water and oil repelling SP coating and the Quick Shift focus system makes this lens ideal for demanding reportage or spontaneous travel photography.



Ideal for:



- Construction: 8 elements in 5 groups • Minimum focusing distance: 20cm • Maximum magnification: 0.17X
- Angle of view (°): 68 • Filter size: 49mm • Dimensions (d x l): 63 x 25mm • Weight: 134g

smc PENTAX-DA 35mm F2.4 AL



N.21987

- Equivalent to 53.5mm in full-frame format
 - AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
 - Fast manual focusing in AF mode with Quick Shift focus system
- Large F2.4 aperture to offer outstanding depth of filed control in any lighting condition
 - SP (Super Protect) front lens element coating to protect against dirt and finger marks

This lens offers an angle of view equivalent to 53.5mm in full-frame format. This allows the photographer to cover an angle of view close to that of the human eye. Perfect for everyday photos and discrete shots thanks to its small size. It also includes a hybrid lens for outstanding image quality to the edges of the image. It also benefits from PENTAX ghostless treatment to minimize flare defects and ghost images to ensure successful pictures in all conditions.



Ideal for:



- Construction: 6 elements in 5 groups • Minimum focusing distance: 30cm • Maximum magnification: 0.17X
- Angle of view (°): 44 • Filter size: 49mm • Dimensions (d x l): 63 x 45mm • Weight: 124g

HD PENTAX-DA 40mm F2.8 Limited



N.21390 / N.21400

- Equivalent to 61mm in full-frame format
 - High quality aluminium finish and excellent optical performance of the DA Limited line-up
- Round-shaped diaphragm to produce beautiful bokeh
 - Fast manual focusing in AF mode with Quick Shift focus system
 - Large F2.8 aperture to offer outstanding depth of filed control in any lighting condition

This is another first-class lens from the legendary PENTAX Limited Edition series. With a 40mm focal length (61mm in full-frame format) this lens is offered as a standard lens with exclusive optical characteristics. Outstanding sharpness, very high luminous intensity, and Quick Shift focus system that instantly switches from auto to manual focus. Additionally, it features an ultra-flat design and weighs a feather-like 89g.



Ideal for:



- Construction: 5 elements in 4 groups • Minimum focusing distance: 40cm • Maximum magnification: 0.13X
- Angle of view (°): 39 • Filter size: 49mm • Dimensions (d x l): 63 x 15mm • Weight: 89g

smc PENTAX-DA 40mm XS F2.8



N.22137

- Equivalent to 61mm in full-frame format
 - Designed by Marc Newson
 - Fast manual focusing in AF mode with Quick Shift focus system
 - Large F2.8 aperture to offer outstanding depth of filed control in any lighting condition
- Round-shaped diaphragm to produce beautiful bokeh
 - SP (Super Protect) front lens element coating to protect against dirt and finger marks
 - Extremely compact and lightweight - 52g

This fixed focal length lens designed by Marc Newson is one of the finest lens in the world. It offers a focal length equivalent to 61mm in full-frame format. Its small size makes it easy to carry. Its large F2.8 aperture ensures sharp images in many shooting situations. The front lens of this lens benefits from SP (Super Protect) fluorine-based coating against water splashes, dirt and finger marks.



© Olga Babitch

Ideal for:



- Construction: 5 elements in 4 groups • Minimum focusing distance: 40cm • Maximum magnification: 0.13X
- Angle of view (°): 39 • Filter size: 27mm • Dimensions (d x l): 63 x 9.2mm • Weight: 52g

smc PENTAX-DA 50mm F1.8



N.22177

- Equivalent to 76.5mm in full-frame format
 - Large F1.8 aperture to offer outstanding depth of filed control in any lighting condition
 - Round-shaped diaphragm to produce beautiful bokeh
- Fast manual focusing in AF mode with Quick Shift focus system
 - SP (Super Protect) front lens element coating to protect against dirt and finger marks

This medium telephoto lens is ideal for portraits. Its large aperture F1.8 combined with its round iris diaphragm produces natural, beautiful bokeh (out-of-focus effect). It also provides access to higher shutter speeds in low light situations to avoid blurred pictures. The front lens has been specially treated with SP (Super Protect) coating against water, dust and finger marks. Compact and lightweight, this lens will assist you in all your outings.



Ideal for:



- Construction: 6 elements in 5 groups • Minimum focusing distance: 45cm • Maximum magnification: 0.15X
- Angle of view (°): 31.5 • Filter size: 52mm • Dimensions (d x l): 63 x 38.5mm • Weight: 122g

smc PENTAX-DA* 55mm F1.4 SDM

SDM

Star (*)

QS

SP

AW

N.21790

- Equivalent to 84.5mm in full-frame format
 - High-performance Star (*) series developed for the highest level of image rendition
 - Ultrasonic lens motor for an extremely fast and silent focus
 - Round-shaped diaphragm to produce beautiful bokeh
 - Fast manual focusing in AF mode with Quick Shift focus system
- Weather-resistant construction against humidity, water splashes and dust
 - Large F1.4 aperture to offer outstanding depth of field control in any lighting condition
 - SP (Super Protect) front lens element coating to protect against dirt and finger marks
 - smc PENTAX to lower surface reflection and reduce ultraviolet rays

This lens features high resolution for sharp, crystal-clear images of subjects and a smoothly connected out-of-focus (bokeh) softness. This is a medium telephoto lens that is ideal for portraits. The lens uses Anomalous Dispersion Glass for reducing color blurring and enabling images with high contrast and sharpness. In addition, it also uses the «Aero Bright Coating», allowing greater light transmittance and better filtering of flare. Its Supersonic Direct-drive Motor (SDM) technology ensures speed and quiet operation focus. Protection against humidity and dust makes it a reliable lens for outdoor use.



© Olga Babitch

Ideal for:





HD PENTAX-DA 70mm F2.4 Limited

HD


QS

SP

N.21430 / N.21440


- Equivalent to 107mm in full-frame format
 - High quality aluminium finish and excellent optical performance of the DA Limited line-up
 - Round-shaped diaphragm to produce beautiful bokeh
 - Large F2.4 aperture to offer outstanding depth of field control in any lighting condition
 - Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
 - HD coating to optimize light transmittance and minimize reflections



Highly efficient optical glass is the key to the design of this short telephoto lens with an overall length of only 26mm and weighing a mere 131g. This lens produces unusually sharp and high-contrast results. With a focal length of 70mm (107mm in full-frame format) it is a multi-talented masterpiece that gets the most out of portrait or grandiose landscape photographs. It is also equipped with Quick Shift Focus System for fast manual focusing in the AF mode and the front lens element is protected with the original PENTAX SP technology.



© Thibaud Epeche

Ideal for:





- Construction: 6 elements in 5 groups • Minimum focusing distance: 70cm • Maximum magnification: 0.12X
- Angle of view (°): 23 • Filter size: 49mm • Dimensions (d x l): 63 x 26mm • Weight: 131g

smc PENTAX-DA* 200mm F2.8 ED (IF) SDM

SDM

ED

IF

QS

SP

AW

FF

N.21700

- Full-frame image circle compatible *
 - Equivalent to 307mm in full-frame format
 - High-performance Star (*) series developed for the highest level of image rendition
 - Ultrasonic lens motor for an extremely fast and silent focus
 - Large F2.8 aperture to offer outstanding depth of field control in any lighting condition
- Weather-resistant construction against humidity, water splashes and dust
 - ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
 - Fast manual focusing in AF mode with Quick Shift focus system

Top-level technology to match the highest photographic requirements. In terms of absolute resolving power the 200mm lens from the PENTAX DA* series leaves nothing to be desired. The fast aperture design delivers outstanding results under the most unfavourable lighting conditions. High-quality ED lens elements reduce colour aberrations to practically imperceptible levels and raise the recording quality to an absolutely brilliant level. As well as its optical benefits the smc PENTAX-DA* 200mm excels with handling ease: its ultrasonic focus operates extremely fast and silently, the inner focusing system effectively maintains the critical focal point and the special PENTAX SP coating of the front lens element efficiently prevents the adherence of dirt and finger marks. Additionally, the lens body is completely sealed against humidity, water splashes and dust.

* When attached to the full-frame (PENTAX K-1) DSLR camera, lens compensation function including chromatic aberration correction is extended to cover full-frame image area. This function does not guarantee the quality of the image outside the APS-C image area.



© Arsen Alaberdiv

Ideal for:





- Construction: 9 elements in 6 groups • Minimum focusing distance: 1.2m • Maximum magnification: 0.20X
- Angle of view (°): 8.1 • Filter size: 77mm • Dimensions (d x l): 83 x 134mm • Weight: 825g

smc PENTAX-DA* 300mm F4 ED (IF) SDM

SDM

ED

IF

QS

SP

AW

FF

N.21760

- Full-frame image circle compatible*
 - Equivalent to 460mm in full-frame format
 - High-performance Star (*) series developed for the highest level of image rendition
 - Ultrasonic lens motor for an extremely fast and silent focus
 - Weather-resistant construction against humidity, water splashes and dust
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
 - Fast manual focusing in AF mode with Quick Shift focus system

Like the 200mm lens, the smc-DA* 300mm also offers first-class performance for demanding professional requirements. Specifically designed for highly efficient modern DSLR systems, the smc PENTAX-DA* 300mm also offers brilliant solutions for longer telephoto focal length demands, being equivalent to a 460mm lens in full-frame format. Special ED lens elements reliably reduce colour aberrations to a minimum. The smc PENTAX-DA* 300mm offers the same handling benefits as its 200mm sibling: the ultrasonic focus is extremely fast and silent, the inner focusing system effectively maintains the critical focal point and the special PENTAX SP coating of the front lens element efficiently prevents dirt from adhering. The lens body is also completely sealed against water splashes and dust. Additionally, it is also equipped with a tripod mount.

* When attached to the full-frame (PENTAX K-1) DSLR camera, lens compensation function including chromatic aberration correction is extended to cover full-frame image area. This function does not guarantee the quality of the image outside the APS-C image area.



© Norio Matsumoto

Ideal for:





- Construction: 8 elements in 6 groups • Minimum focusing distance: 1.4m • Maximum magnification: 0.24X
- Angle of view (°): 5.4 • Filter size: 77mm • Dimensions (d x l): 83 x 184mm • Weight: 1070g



- Full-frame image circle compatible *
- Equivalent to 859mm in full-frame format
- Weather-resistant construction against humidity, water splashes and dust
- Smooth, quiet AF operation driven by a built-in Direct Current (DC) motor
- ED (Extra-low Dispersion) lens elements for brilliant sharpness and saturated colours
- Round-shaped diaphragm to produce beautiful bokeh
- HD coating to optimize light transmittance and minimize reflections
- Fast manual focusing in AF mode with Quick Shift focus system

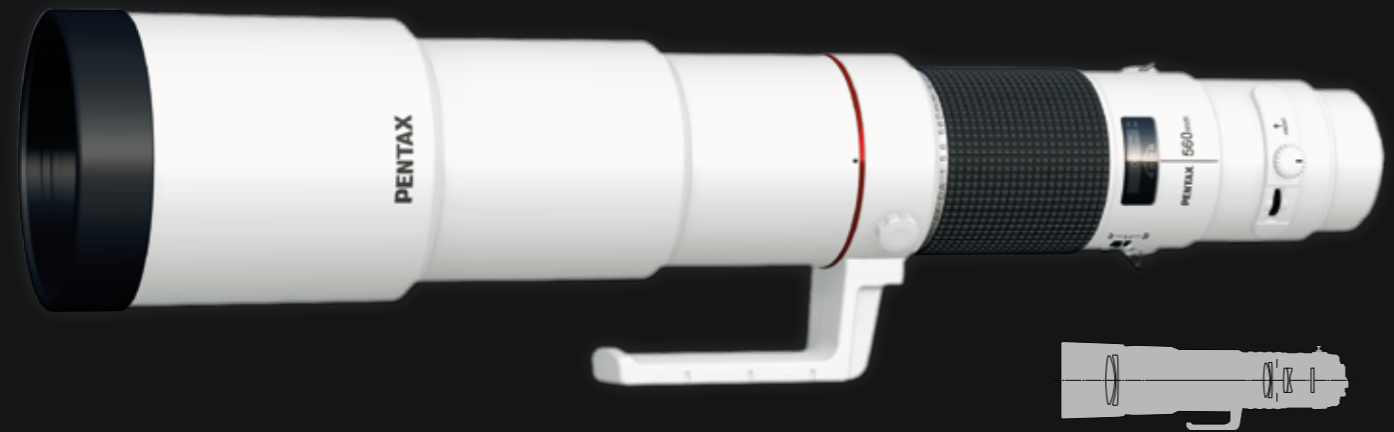
Thanks to the incorporation of PENTAX-original HD coating - a newly developed high-grade multi-layer lens coating against flare and ghost images - and telescope-type optics, this super-telephoto lens delivers clear, well-defined images of distant subjects. With its 2 extra-low dispersion optical elements, it delivers bright, high resolution images even at the edges, while effectively minimizing chromatic aberration. It also benefits from smooth autofocus operation using an AF driving motor (DC motor) installed in the lens barrel. This lens features a weather-resistant construction with 29 special seals to prevent the intrusion of dust and water and a built-in removable filter holder in the barrel to obtain the desired polarizing effect. This lens also uses a round iris diaphragm for reducing the beam of light when shooting point light sources and for enabling representation of round out-of-focus (bokeh) effect.

* When attached to the full-frame (PENTAX K-1) DSLR camera, lens compensation function including chromatic aberration correction is extended to cover full-frame image area. This function does not guarantee the quality of the image outside the APS-C image area.

Ideal for:



- Construction: 7 elements in 6 groups • Minimum focusing distance: 5.6m • Maximum magnification: 0.10X • Angle of view (°): 2.9
- Filter size: 112mm • Dimensions (d x l): 130 x 522mm • Weight: 3040g



The PENTAX FA lens series was originally designed for film SLR cameras, but it is also fully compatible with digital SLR cameras.

The FA series features full image coverage with full automatic and manual aperture control.

© Nagarazoku

smc PENTAX-FA 31mm F1.8 AL Limited



- Compatible with PENTAX film and digital SLR cameras
- Equivalent to 47.5mm with APS-C format camera
- High Quality aluminium finish and excellent optical performance of the FA Limited line-up
- Large F1.8 aperture to offer outstanding depth of field control in any lighting condition
- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- Built-in lenshood
- smc PENTAX to lower surface reflection and reduce ultraviolet rays

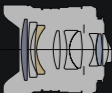
This unique lens delivers exceptional wide-angle image quality and a perspective similar to that of the human eye. It incorporates a glass-moulded aspherical lens element and high-reflection, low dispersion lenses for sharp imaging performance with natural perspective and high contrast, and the floating lens system allows proper imaging performance at all shooting distances for providing exceptional image quality for every situation. It features a beautiful aluminium body and comes equipped with a flower-shaped lens hood.



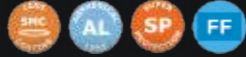
© Bruno Giordano

- Construction: 9 elements in 7 groups • Minimum focusing distance: 30cm • Maximum magnification: 0.17X
- Angle of view (°): 70 (Full-frame), 49 (APS-C) • Filter size: 58mm • Dimensions (d x l): 68.5 x 65mm • Weight: 345g

Ideal for:



smc PENTAX-FA 35mm F2 AL



N.22190

- Compatible with PENTAX film and digital SLR cameras
- Equivalent to 53.5mm with APS-C format camera
- Large F2 aperture to offer outstanding depth of field control in any lighting condition
- smc PENTAX to lower surface reflection and reduce ultraviolet rays
- AL (Aspherical Lens) element to reduce aberrations and provide crystal clear images
- SP (Super Protect) front lens element coating to protect against dirt and finger marks

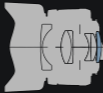
This lens has an optical system using a hybrid aspherical lens and ghostless coating, large flower-shaped hood, and other key points for eliminating coma aberration and flare at the edges of the image, which is typically a problem for large aperture wide angle lenses. This lens also features abundant gradations and deep color reproduction. The supplied hood includes a window for enabling easy operation of the circular polarizing filter.



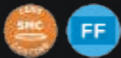
Ideal for:



- Construction: 10 elements in 9 groups • Minimum focusing distance: 30cm • Maximum magnification: 0.17X
- Angle of view (°): 63 (Full-frame), 44 (APS-C) • Filter size: 49mm • Dimensions (d x l): 64 x 44.5mm • Weight: 195g



smc PENTAX-FA 43mm F1.9 Limited



N.20180 / N.20170

- Compatible with PENTAX film and digital SLR cameras
- Equivalent to 66mm with APS-C format camera
- High Quality aluminium finish and excellent optical performance of the FA Limited line-up
- Large F1.9 aperture to offer outstanding depth of field control in any lighting condition
- smc PENTAX to lower surface reflection and reduce ultraviolet rays

This high-performance lens has a ghostless coating and uses high-refraction glass lenses extravagantly for delivering superior delineation performance up to usage limits. The lens has a brightness of F1.9, sharp imaging with abundant gradations, closeup shooting capabilities up to a minimum of 0.45m, and an 8-blade iris aperture for natural, soft out-of-focus (bokeh) effect for features that could only be found in a high-performance single focal point lens. The body uses a machined aluminum material for an elegant feel.



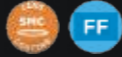
Ideal for:



- Construction: 7 elements in 6 groups • Minimum focusing distance: 45cm • Maximum magnification: 0.12X
- Angle of view (°): 53 (Full-frame), 36.5 (APS-C) • Filter size: 49mm • Dimensions (d x l): 27 x 64mm • Weight: 155g



smc PENTAX-FA 50mm F1.4



N.20817

- Compatible with PENTAX film and digital SLR cameras
- Equivalent to 76.5mm with APS-C format camera
- Large F1.4 aperture to offer outstanding depth of field control in any lighting condition
- smc PENTAX to lower surface reflection and reduce ultraviolet rays

The smc PENTAX-FA 50mm F1.4 lens provides an angle of view similar to the human eye. Its natural perspective of subjects makes it ideally suited for everyday use including portrait, still life and landscape photography. You can also take greater advantage of its large aperture by using for indoor shooting without a flash and astronomical photography to capture the expansive night sky. The smc PENTAX allows to lower surface reflection, reduce ultraviolet rays, and deliver clear, high-contrast images.



© Bruno Giordano

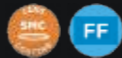
Ideal for:



- Construction: 7 elements in 6 groups • Minimum focusing distance: 45cm • Maximum magnification: 0.15X
- Angle of view (°): 47 (Full-frame), 31.5 (APS-C) • Filter size: 49mm • Dimensions (d x l): 65 x 37mm • Weight: 220g



smc PENTAX-FA 77mm F1.8 Limited



N.27980 / N.27970

- Compatible with PENTAX film and digital SLR cameras
- Equivalent to 118mm with APS-C format camera
- High Quality aluminium finish and excellent optical performance of the FA Limited line-up
- Large F1.8 aperture to offer outstanding depth of field control in any lighting condition
- smc PENTAX to lower surface reflection and reduce ultraviolet rays

The smc PENTAX-FA 77mm F1.8 Limited is a versatile, high-resolution short telephoto lens of exceptional optical quality. It is specifically designed for portrait photography and accurately reproduces the tones, colours and texture of the subject's skin, clothes and accessories as well as assuring an excellent rendering of highlight and out of focus areas. It also features PENTAX's exclusive FREE (Fixed Rear Element Extension) focusing system to ensure sharp, crisp image reproduction over the entire focusing range. The F1.8 brightness and 9-blade aperture enables a natural out-of-focus (bokeh) effect that instills depth to the image. It features a beautiful aluminium body and comes equipped with a built-in lens hood.



Ideal for:



- Construction: 7 elements in 6 groups • Minimum focusing distance: 70cm • Maximum magnification: 0.14X
- Angle of view (°): 31.5 (Full-frame), 21 (APS-C) • Filter size: 49mm • Dimensions (d x l): 48 x 64mm • Weight: 270g





MACRO LENSES

A whole universe to explore !
A macro lens is suitable for more than shooting close-up subjects.
It is the subject to image size ratio which gives the Macro stamp.

HD PENTAX-DA MACRO 35mm F2.8 Limited



N.21450 / N.21460

- Equivalent to 53.5mm in full-frame format
- Magnification to 1:1
- High quality aluminium finish and excellent optical performance of the DA Limited line-up
- HD coating to optimize light transmittance and minimize reflections
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- Round-shaped diaphragm to produce beautiful bokeh

Ideal for:



As with all lenses from the Limited series, it is characterised by its highly compact design – however, its macro capabilities are the defining feature. Of equal importance is its flawless reproduction quality – attained in part by an innovative HD lens coating for clear, highcontrast images. Further important characteristics are its 1:1 magnification ratio, approximately 3cm working distance from the lens front surface, excellent lens speed, dirt resistant front lens element with the PENTAX exclusive SP coating, Quick Shift focus system for instantaneous focus corrections without having to deactivate autofocus, and an aluminium lens barrel. The FREE (fixed rear element extension) focusing system is also used to correct various types of aberrations from the close distances to the infinity end and to produce images with low distortion. The retractable lens hood is particularly convenient. This macro lens has a natural angle of view close to the naked eye and can also be used as a standard lens.



- Construction: 9 elements in 8 groups
- Minimum focusing distance: 14cm
- Maximum magnification: 1X
- Angle of view (°): 44
- Filter size: 49mm
- Dimensions (d x l): 63 x 46.5mm
- Weight: 215g

smc PENTAX-D FA MACRO 50mm F2.8



N.21530

- Compatible with PENTAX film and digital SLR cameras
- Equivalent to 76.5mm with APS-C format camera
- Magnification to 1:1
- Fast manual focusing in AF mode with Quick Shift focus system
- smc PENTAX to lower surface reflection and reduce ultraviolet rays

Ideal for:



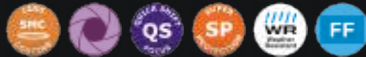
The most remarkable characteristics of this lens: weight and size. Relative to conventional macro systems the advanced design of the smc PENTAX-D FA 50mm attains a dramatic reduction in weight and a substantially more compact body. All this without compromising its impressive optical characteristics: 1:1 magnification. A highly refined level of sharpness throughout the entire focusing range, and the Floating System technology that ensures that your images are free of distortion – particularly at close range where lenses are more susceptible. The particular strengths of this lens unfold where the distance-to-subject is very small. Flower and plant photography as well as copying work are among the domains of the PENTAX-D FA 50mm.



© Tempete2pixel

- Construction: 8 elements in 7 groups
- Minimum focusing distance: 19cm
- Maximum magnification: 1X
- Angle of view (°): 47 (Full-frame), 31.5 (APS-C)
- Filter size: 49mm
- Dimensions (d x l): 67.5 x 60mm
- Weight: 265g

smc PENTAX-D FA MACRO 100mm F2.8 WR



N.21910

- Image circle covering full-frame sensor
- Equivalent to 153mm with APS-C format camera
- Magnification to 1:1
- Weather-resistant construction against humidity and water splashes
- Fast manual focusing in AF mode with Quick Shift focus system
- SP (Super Protect) front lens element coating to protect against dirt and finger marks
- smc PENTAX to lower surface reflection and reduce ultraviolet rays
- Round-shaped diaphragm to produce beautiful bokeh

Ideal for:



This lens has the same outstanding characteristics as its 50mm sister model, and has managed to minimize the weight and size when compared to other macro lenses. This lens produces a 1:1 magnification ratio and features the unique PENTAX FREE technology; ensuring exceptional focusing distance to infinity by effectively reducing annoying aberrations at any focusing distance. With 150mm focal length (converted to 35mm film format) the photographer enjoys the comfort and safety of a greater working distance to the subject making it ideal for photographing insects, for example. The PENTAX-D FA 100mm has, like its sister model, a switch that locks the focus setting, making it impossible to inadvertently change the focus while concentrating on getting the perfect shot. This lens is equipped with protective seals and is resistant to humidity.



© Thibaud Epeche

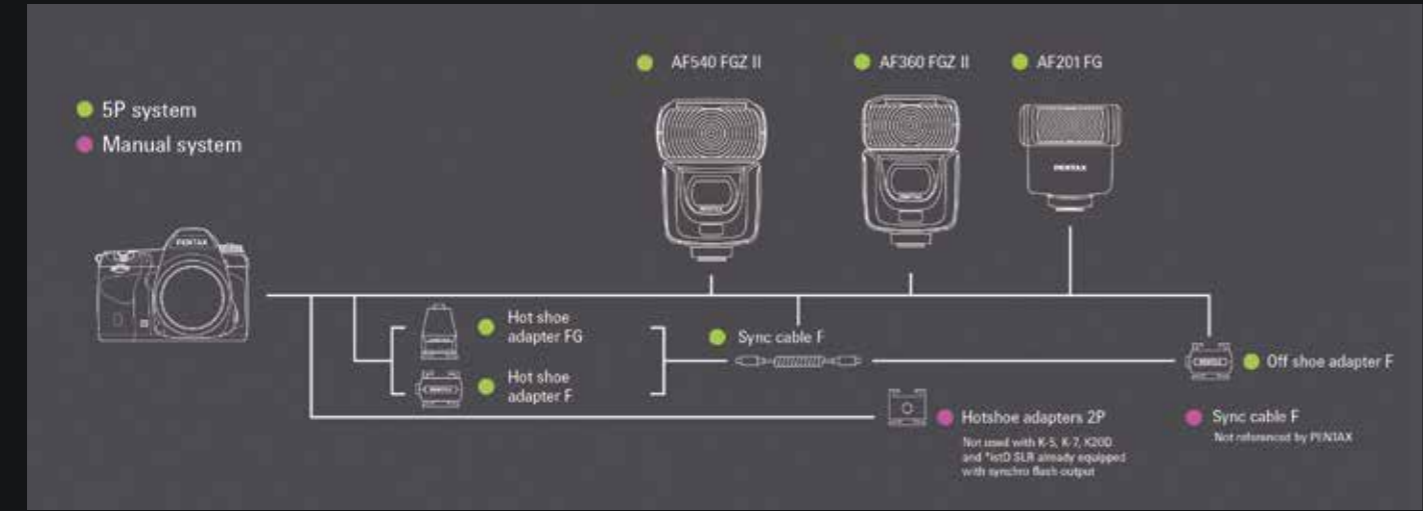
- Construction: 9 elements in 8 groups
- Minimum focusing distance: 30cm
- Maximum magnification: 1X
- Angle of view (°): 24.5 (Full-frame), 16 (APS-C)
- Filter size: 49mm
- Dimensions (d x l): 65 x 81mm
- Weight: 340g

| The PENTAX flash system

Sufficient lighting is the key requirement for successful photos. That's why PENTAX has developed a total flash system, assuring accurate, consistent, quality light in virtually any situation.

SYSTEM FLASHES

With the PENTAX flash accessories a wide range of applications are available. We show a few possible combinations here.



FLASHES



N.30456

AF540 FGZ II

Type	ELECTRONIC FLASH WITH ZOOM AND SWIVEL HEAD		
Guide number	54 (ISO 100)		
Compensation	Flash exposure -4.0 to +2.0 levels (1/3, 1/2 step)		
Flash functions	P-TTL auto, manual (9 steps 1/1-1/256), multi, wireless (P-TTL/Manual), 1st curtain sync, 2nd curtain sync, Contrast control, High-speed synchronisation		
Flash range	Approx. 0.8 m - 8.0 m (Guide No. 45, ISO 100, F5.6)		
Swivel Head	Vertical and horizontal bounce possible, click stops provided, lock provided at 0°.		
AF spot beam	LED white beam emitted under low light or low-contrast conditions. Effective range: Approx. 1 m - 7 m (According to our testing conditions.)		
Power requirements	4 AA batteries, (Alkaline (LR6), Nickel-Metal Hydride (Ni-MH), or Lithium (FR6))		
Battery life		Recycle time	No. of flashes
	Alkali-manganese (LR6)	Approx. 5 sec.	Approx. 200
	Nickel metal hydride (Ni-MH)	Approx. 3 sec.	Approx. 250
	AA lithium (FR6)	Approx. 5 sec.	Approx. 350
Compatibility	Digital, full-frame, 645, 67 (medium format)		
Dimensions	76 mm (W) × 113 mm (H) × 108 mm (D)		
Weight	Approx. 350 g without batteries		
Accessories	Soft case, stand for flash		



FLASH SYSTEM

HOTSHOE ADAPTERS 2P



Attached to the camera's hotshoe, this adapter provides a JIS-B-type sync socket at the side and a 2P hotshoe at the top.

N.31014

OFF SHOE ADAPTER F



Attached to the camera's hotshoe, this adapter incorporates its own hotshoe at the top to provide an extra flash sync contact for connection with a F5P sync cord.

N.31046

HOT SHOE ADAPTER FG



Attached to the camera's hotshoe, this adapter lets you position a dedicated flash unit away from the camera body using a F5P sync cord. The flash can be operated alone or in combination with the camera's built-in flash.

N.31045

HOT SHOE ADAPTER F



Attached to the camera's hotshoe, this adapter includes its own hotshoe on the top to add another flash unit when using the F5P sync cord.

N.31022

SYNC CABLE F

The sync cable F is the connector between the flash adapters and is available as a 0.5m spiral cable or a 3m straight cable.

N.37347 / N.37349



Your complete range of accessories

Great accessories ensure that you'll get the most out of your camera system.

Interchangeable Lens

DA-series lenses

D-FA-series lenses

FA/FAJ-series lenses

A-series lenses

Converter

1.4X AF converter

645-series lenses

Adapter K for 645-series lenses

S-mount lenses

K mount adapter

Spotting scope

PF-CA35 camera adapter

Straps

Shoulder strap

Hand strap

Connectivity

OFC-1 Flucard

Image Sync

Image Sync application

Flash System

AF540 FGZ II

AF360 FGZ II

AF201 FG

Off-camera shoe adapter F

Hotshoe adapter 2P

Sync Cable F

Hotshoe adapter F

Hotshoe adapter FG

Finder accessories

Eyecup MII

Eyecup

Magnifier eyecup O-ME53

Dioptr correction lens M

Focusing screen AF square

Focusing screen divided

Focusing screen scaled

Focusing screen blank

Power sources

Battery grip

Lithium-ion battery

Battery charger

AC cord

AA battery holder

AC adapter

Other accessories

GPS Unit

O-4CKI sensor cleaning kit

Lens cleaning kit

Set of protective films for LCD screen 3"

Remote control

Remote control

Weather resistant remote control

Cable switch

Finder accessories

Eyecup MII

Eyecup

Magnifier eyecup O-ME53

Dioptr correction lens M

Focusing screen AF square

Focusing screen divided

Focusing screen scaled

Focusing screen blank

Finder accessories

Eyecup MII

Eyecup

Magnifier eyecup O-ME53

Dioptr correction lens M

Focusing screen AF square

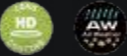
Focusing screen divided

Focusing screen scaled

Focusing screen blank

LENS SYSTEM

Converter HD PENTAX-DA AF 1.4X AW



N.37962

This compact, high-performance rear converter not only extends the focal length of the main lens by 1.4 times, but also accommodates the flawless autofocus operation of the main lens, and features a dependable weather-resistant, dustproof construction for all-weather shooting. It works perfectly with both the camera-driven AF system and the lens-driven AF system (such as the SDM- and DC- series lenses). With the application of PENTAX-developed HD coating — a high-grade, multi-layer coating designed to minimize reflectance inside the lens while optimizing light transmittance — it lets the user capture crisp, highcontrast images free of flare and ghost images, even under such adverse lighting conditions as backlight.



smc PENTAX-DA* 300mm F4 ED [IF] SDM



With HD PENTAX-DA AF REAR CONVERTOR 1.4X AW

Compatible lenses for HD PENTAX-DA AF REAR CONVERTER 1.4x AW (as of April 2015)

Lens Name	Phase-matching AF	Contrast AF
HD PENTAX-DA 16-85mm F3.5-5.6 ED DC WR	○	△
HD PENTAX-D FA 150-450mm F4.5-5.6 ED DC AW	△	△
HD PENTAX-DA 18-50mm F4.5-6.3 DC WR RE	△	△
smc PENTAX-DA* 55mm F1.4 SDM *1	○	○
smc PENTAX-DA* 200mm F2.8 ED [IF] SDM	○	○
smc PENTAX-DA* 300mm F4 ED [IF] SDM	○	○
smc PENTAX-D FA MACRO 50mm F2.8	○	○
smc PENTAX-D FA MACRO 100mm F2.8 WR	○	○
smc PENTAX-DA 14mm F2.8 ED [IF]	○	○
smc PENTAX-DA 35mm F2.4 AL	○	○
smc PENTAX-DA 50mm F1.8	○	○
HD PENTAX-DA 560mm F5.6 ED AW	△	○
smc PENTAX-DA* 16-50mm F2.8 ED AL [IF] SDM	○	○
smc PENTAX-DA* 50-135mm F2.8 ED [IF] SDM	○	○
smc PENTAX-DA* 60-250mm F4 ED [IF] SDM	○	○
smc PENTAX-DA FISH-EYE 10-17mm F3.5-4.5 ED [IF]	△	○
smc PENTAX-DA 12-24mm F4 ED AL[IF]	○	○
smc PENTAX-DA 17-70mm F4 AL [IF] SDM	○	△
smc PENTAX-DA 18-55mm F3.5-5.6 AL WR	△	○
smc PENTAX-DA 18-135mm F3.5-5.6 ED AL [IF] DC WR	△	○
smc PENTAX-DA 18-270mm F3.5-6.3 ED SDM	△	△
smc PENTAX-DA 50-200mm F4-5.6 ED WR	△	△
smc PENTAX-DA 55-300mm F4-5.8 ED	△	○

Lens Name	Phase-matching AF	Contrast AF
HD PENTAX-DA 55-300mm F4-5.8 ED WR	△	○
smc PENTAX-DA L 18-55mm F3.5-5.6 AL	△	○
smc PENTAX-DA L 18-55mm F3.5-5.6 AL WR	△	○
smc PENTAX-DA L 50-200mm F4-5.6 ED	△	△
smc PENTAX-DA L 50-200mm F4-5.6 ED WR	△	△
smc PENTAX-DA L 55-300mm F4-5.8 ED	△	○
smc PENTAX-DA 40mm F2.8 Limited	○	○
HD PENTAX-DA 40mm F2.8 Limited	○	○
smc PENTAX-DA 70mm F2.4 Limited	○	○
HD PENTAX-DA 70mm F2.4 Limited	○	○
smc PENTAX-DA 35mm F2.8 Macro Limied	○	○
HD PENTAX-DA 35mm F2.8 Macro Limited	○	○
HD PENTAX-DA 20-40mm F2.8-4 ED Limited DC WR	○	○
smc PENTAX-FA 35mm F2AL	○	○
smc PENTAX-FA 50mm F1.4 *1	○	○
smc PENTAX-FA 31mm F1.8 AL Limited	○	○
smc PENTAX-FA 43mm F1.9 Limited	○	○
smc PENTAX-FA 77mm F1.8 Limited	○	○
smc PENTAX-DA 16-45mm F4 ED AL	○	○
smc PENTAX-DA 18-55mm F3.5-5.6 AL	△	○
smc PENTAX-DA 18-55mm F3.5-5.6 AL II	△	○
smc PENTAX-DA 50-200mm F4-5.6 ED	△	△
smc PENTAX-DA 18-250mm F3.5-6.3 ED AL [IF]	△	△

○: Compatible
△: Compatible with condition

Phase-matching AF: When you use the lens with «△», rarely it will not in-focus with Phase-matching AF.

Contrast AF: When you use the lens with «△», rarely it will not in-focus with Contrast AF.

*1 Open aperture starts from F2.4

* AF support confirmed model: K-3 II / K-3 / K-S2 / K-S1 / K-50 / K-30 / K-5II / K-5 IIs / K-5 / K-01 / K-7 / K-r (Update of latest body firmware is needed)

* With K-7, contrast AF might not in-focus.

* Open aperture will be one stop darker

K-mount adapter



This adapter is designed to allow use of PENTAX M42 screw mount lenses on a K mount SLR. P and A modes only.

N.30120

Adapter K for 645-series lenses



This adapter is designed to allow use of 645-series lenses on a K mount SLR.

N.38455

PF-CA35 camera adapter

The PF-CA35 allows you to transform your spotting scope from an observation device into a high quality telephoto lens. This solidly built adapter has a total of 5 lenses in 4 groups, all of them fully multi-coated, resulting in brilliant edge to edge sharpness with the finest detail and true colour image reproduction.

Dimensions 59 x 149mm, Weight 250g, Works best on a PF-80 or PF-100 scope

N.70510



FINDER ACCESSORIES



Eyecup MII

Attached to the camera’s viewfinder eyepiece, this eyecup eliminates the space between the face and the eyepiece ring for easy image viewing for those who do not wear eyeglasses.

N.30087



Eyecup FT

This eyecup is designed for the PENTAX K-1 DSLR.

N.30128



Finder loupe O-ME53

The Finder loupe increases the viewfinder image by a factor of 1.2. The entire image view is increased, not just the centre. This magnifier is an effective way to optimally assess the image in the finder.

N.30150



Correction lenses M

These correction lenses allow for adjustment of the viewfinder image to your eyesight from -5 to +3 m-1 per meter.

N.30731 / N. 30732 / N. 30733
N.30734 / N. 30735 / N. 30736
N.30737 / N. 30738

Interchangeable focusing screens

For specific professional applications you can replace the standard focussing screen of many PENTAX DSLR's with either a grid screen or a plain ground-glass screen with ruled scale markings.

N.38578 / N.38579 / N.38580 / N.38581



POWER SOURCES



AC Adapter

To supply continuous power to your DSLR.



Battery grip

The battery grip increases the power available to take pictures. A number of functions are available on the battery grip to allow ease of shooting in the portrait orientation. Controls vary from model to model and include AE and green buttons, shutter release and depth of field preview. Weather-resistant sealing allows you to store additional SD cards and remote control safely.

N.38799 (D-BG5) / N.38607 (D-BG6)




AA Battery holder

Some PENTAX DSLR are compatible with the AA battery holder which is very convenient when traveling.

N.39100 (BH-109)


REMOTE CONTROLS



Remote control O-RC1

Allows shooting from a distance. Can be used in bad weather (rain, drizzle).


N.39892



Remote control F

Allows shooting from a distance of approx. 5 meters from the front of the camera and 5m from the back of the camera.

N.37377




Cable switch

This cable is used to trigger the shutter without causing movement of the camera. Particularly useful for macro photography or long exposures.

N.37248 CS-205 / N. 30239 (CS-310)


PROTECTION



Professional backpack

This backpack has many compartments dedicated for photographic equipment (an SLR, two lenses, a flash and accessories). You will also have the ability to store a laptop.

N.50278



Camera case

Something extra up your sleeve: the PENTAX camera case easily accommodates a camera body, two lenses and various accessories.

N.50099 (Black) / N.50276 (White)

OTHER ACCESSORIES



O-GPS1 GPS unit

The O-GPS1 unit enables to record shooting location data. It mounts on the hot shoe and records the latitude, longitude, altitude, universal time coordinated (UTC) and direction of the shooting location into captured images Exif data. Using mapping software such as Google Earth™, the user can easily recall shooting locations and directions on a map. The O-GPS1 also offers a Simple Navigation function and an electronic compass function. With its weather-resistant construction, it can also be used in light rain.

N.39012




WiFi connection with O-FC1 FLUCARD for PENTAX 16GB

The O-FC1 FLUCARD for PENTAX 16GB provides wireless LAN functions** using a smartphone or tablet computer. You can release the SLR shutter and change exposure settings from a distance while checking the Live View image, and download and browse captured images on your smartphone/tablet monitor.

** These functions are available with smartphones and tablet computers supported by iOS and Android operating systems.

N.38610






Lens cleaner

Removes easily and safely particles of dust, smudges and fingerprints on your lens. It is equipped with a retractable brush and a flexible cleaning tip.


N.50166



Set of protective films for LCD screen 3”

Set of 3 protective films for the LCD screen against dust, scratches and stains. Does not interfere with the readability of the screen. Adhesive, without glue, leaves no residue.

N.50251



O-ICK1 sensor cleaning kit

Dust is removed and collected from the sensor with a specially coated cleaning head. Adhesive papers are provided that strip away the dust particles.

N.39357




Image Sync

Image Sync is an application that, when combined with supported cameras enables remote capture, image view, copying image to a mobile device, uploads to social media, and other functionality. Available on iOS and Android.

Lenses comparison chart

	Fixed focal length										
	HD DA	HD DA	smc DA	HD DA	smc DA	smc DA	smc DA*	HD DA	smc DA*	smc DA*	HD DA
	15mm F4 ED AL Limited	21mm F3.2 AL Limited	35mm F2.4 AL	40mm F2.8 Limited	40mm F2.8 XS	50mm F1.8	55mm F1.4 SDM	70mm F2.4 Limited	200mm F2.8 ED (IF) SDM	300mm F4 ED (IF) SDM	560mm F5.6 ED AW
Picture											
Icons											
Equivalent in full-frame format	23mm	32mm	53.5mm	61mm	61mm	76.5mm	84.5mm	107mm	307mm	460mm	859mm
Angle of view (degrees)	86°	68°	44°	39°	39°	31.5°	28.6°	23°	8.1°	5.4°	2.9°
Lens construction (groups / elements)	6/8	5/8	5/6	4/5	4/5	5/6	8/9	5/6	8/9	6/8	6/7
Maximum aperture	f/4	f/3.2	f/2.4	f/2.8	f/2.8	f/1.8	f/1.4	f/2.4	f/2.8	f/4	f/5.6
Minimum aperture	f/22	f/22	f/22	f/22	f/22	f/22	f/22	f/22	f/22	f/32	f/45
Minimum focusing distance	0.18m	0.20m	0.30m	0.40m	0.40m	0.45m	0.45m	0.70m	1.2m	1.4m	5.6m
Filter diameter	49mm	49mm	49mm	49mm	27mm	52mm	58mm	49mm	77mm	77mm	112mm
Maximum magnification	0.15X	0.17X	0.17X	0.13X	0.13X	0.15X	0.17X	0.12X	0.20X	0.24X	0.10X
Weather resistant construction	-	-	-	-	-	-	yes	-	yes	yes	yes
AF operation	yes	yes	yes	yes	yes	yes	SDM	yes	SDM	SDM	DC
Round shaped diaphragm	yes	yes	-	yes	yes	yes	yes	yes	-	-	yes
Compatible analog and digital SLR	-	-	-	-	-	-	-	-	-	-	-
Others	Aluminium construction	Aluminium construction	-	Aluminium construction	-	-	Aerobright coating	Aluminium construction	-	Tripod collar	Tripod collar
Diameter and maximum length	63 x 39.5 mm	63 x 25 mm	63 x 45 mm	63 x 15 mm	63 x 9.2 mm	63 x 38.5 mm	70.5 x 66 mm	63 x 26 mm	83 x 134 mm	83 x 184 mm	130.3 x 521.7 mm
Weight	189 g	134 g	124 g	89 g	52 g	122 g	375 g	131 g	825 g	1070 g	3040 g
Lens hood	Built-in	included MH-RB843 black or silver	PH-SA49, RH-RC49	included MH-RE49 black or silver	-	RH-RA52	included PH-RBH58	included MH-RF49 black or silver	included PH-RBK77	included PH-RBK77	Built-in
Case	Included DA-70	Included DA-21	S70-70	Included DA-40 Limited	DA-40	S70-70	included S90-100	Included DA-70	included S120-160	included S120-210	included nc
Reference	Black - 21470 Silver - 21480	Black - 21410 Silver - 21420	21987	Black - 21390 Silver - 21400	22137	22177	21790	Black - 21430 Silver - 21440	21700	21760	22180

Fixed focal length					Wide-angle			Standard zoom			Standard zoom					Telezoom					Macro							
smc FA	smc FA	smc FA	smc FA	smc FA	smc DA	smc DA	HD DFA	smc DA*	HD DA	smc DA	HD DA	smc DA	smc DA	HD DA	HD DFA	HD DFA	smc DA*	smc DA	HD DA	HD DA	smc DA*	HD DFA*	HD DFA	HD DA	smc DFA	smc DFA		
31mm F1.8 AL Limited	35mm F2 AL	43mm F1.9 Limited	50mm F1.4	77mm F1.8 Limited	10-17mm fish-eye F3.5-4.5 ED (IF)	12-24mm F4 ED AL (IF)	15-30mm F2.8 ED SDM WR	16-50mm F2.8 ED AL (IF) SDM	16-85mm F3.5-5.6 ED DC WR	17-70mm F4 AL (IF) SDM	18-50mm F4.5-6 DC WR RE	18-55mm F3.5-5.6 AL WR	18-135mm F3.5-6.3 ED AL (IF) DC WR	18-270mm F3.5-6.3 ED SDM	20-40mm F2.8-4 ED Limited DC WR	24-70mm F2.8 ED SDM WR	28-105mm F3.5-5.6 ED DC WR	50-135mm F2.8 ED (IF) SDM	50-200mm F4.5-6 ED WR	55-300mm F4.5-6.3 ED WR	55-300mm F4.5-6.3 ED PLM WR RE	60-250mm F4 ED (IF) SDM	70-200mm F2.8 ED DC AW	150-450mm F4.5-5.6 ED DC AW	35mm F2.8 Macro Limited	50mm F2.8 Macro	100mm F2.8 WR Macro	
47.5mm (with APS-C DSLR camera)	53.5mm (with APS-C DSLR camera)	66mm (with APS-C DSLR camera)	76.5mm (with APS-C DSLR camera)	118mm (with APS-C DSLR camera)	15-26mm	18.5-37mm	23-46mm (with APS-C DSLR camera)	24.5-76.5 mm	24.5-130 mm	26-107mm	27.5-76.5 mm	27.5-84.5 mm	27.5-207 mm	27.5-414mm	30.5-61.5 mm	37-107mm (with APS-C DSLR camera)	43-161mm (with APS-C DSLR camera)	76.5-207 mm	76.6-307 mm	84.5-460 mm	84.5-460 mm	92-383mm	107-307mm (with APS-C DSLR camera)	230-690mm (with APS-C DSLR camera)	53.5mm	76.5mm (with APS-C DSLR camera)	153mm (with APS-C DSLR camera)	
70° (Full-frame) 49° (APS-C)	63° (Full-frame) 44° (APS-C)	53° (Full-frame) 36.5° (APS-C)	47° (Full-frame) 31.5° (APS-C)	31.5° (Full-frame) 21° (APS-C)	180-100°	99-61°	111-72° (Full-frame) 86.50° (APS-C)	83-31.5°	83-19°	79-23°	76-31.5°	76-29°	11.9-76°	76-6°	70-39°	84-34.5° (Full-frame) 61.22° (APS-C)	75-23.5° (Full-frame) 53.15.5° (APS-C)	31.5-11.9°	31.5°-8.1°	29-5.4°	29-5.4°	26.5-6.5°	34.5-12.5° (Full-frame) 23.8.1° (APS-C)	16.5-5.5° (Full-frame) 10.7.3.1° (APS-C)	44°	47° (Full-frame) 31.5° (APS-C)	24.5° (Full-frame) 16° (APS-C)	
7/9	9/10	6/7	6/7	6/7	8/10	11/13	13/18	12/15	12/16	12/17	8/11	8/11	11/13	13/16	8/9	12/17	11/15	14/18	10/11	8/12	11/14	13/15	16/19	18/14	8/9	7/8	8/9	
F1.8	F2	F1.9	F1.4	F1.8	F3.5-4.5	F4	F2.8	F2.8	F3.5-5.6	F4	F4-5.6	F3.5-5.6	F3.5-5.6	F3.5-6.3	F2.8-4	F2.8	F3.5-5.6	F2.8	F4-5.6	F4-5.8	F4-6.3	F4	F2.8	F 4.5-5.6	F2.8	F2.8	F2.8	
F22	F22	F22	F22	F22	F22-32	F22	F22	F22	F22-38	F22	F22-32	F22-38	F22-36	F22-45	F22-32	F22	F22-38	F22	F22-32	F22-32	F22-32	F32	F22	F22-27	F22	F32	F32	
0.3m	0.3m	0.45m	0.45m	0.7m	0.14m	0.30m	0.28m	0.30m	0.35m	0.28m	0.3m	0.25m	0.40m	0.49m	0.28m	0.38m	0.5m	1m	1.1m	1.4m	0.95m	1.1m	1.2m	2m	0.14m	0.19 m	0.30m	
58mm	49 mm	49mm	49mm	49mm	-	77mm	-	77mm	72mm	67mm	58mm	52mm	62mm	62mm	55mm	82mm	62mm	67mm	49mm	58mm	58mm	67mm	77mm	86mm	49mm	49mm	49mm	
0.17X	0.17X	0.12X	0.15X	0.14X	0.39X	0.12X	0.20X	0.21X	0.26X	0.31X	0.23X	0.34X	0.24X	0.26X	0.20X	0.20X	0.22X	0.17X	0.24X	0.28X	0.30X	0.15X	0.13X	0.22X	1X	1X	1X	
-	-	-	-	-	-	-	yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	yes	
yes	yes	yes	yes	yes	yes	yes	SDM	SDM	DC	SDM	DC	yes	DC	SDM	DC	SDM	DC	SDM	yes	yes	yes	PLM	SDM	DC	DC	yes	yes	yes
-	-	-	-	-	-	-	-	-	-	-	-	-	-	yes	yes	yes	-	-	-	-	-	-	-	-	yes	-	yes	
yes	yes	yes	yes	yes	-	-	-	-	-	-	-	-	-	-	-	yes	yes	-	-	-	-	-	yes	yes	-	yes	yes	
Aluminium construction	-	Aluminium construction	-	Aluminium construction	Fish-eye in a zoom lens	-	-	-	-	-	-	-	-	-	Aluminium construction	-	-	-	-	-	-	Tripod collar	Tripod collar	Tripod collar	Aluminium construction	-	Aluminium construction	
65 x 68.5 mm	64 x 44.5 mm	64 x 27 mm	65 x 37 mm	64 x 48 mm	68 x 71.5 mm	84 x 88 mm	98.5mm x 143.5mm	84 x 98 mm	78 x 94 mm	75 x 93.5 mm	71 x 41 mm	68 x 67 mm	73 x 76 mm	75.8 x 89 mm	71 x 68.5 mm	88.5 x 109.5 mm	71 x 68.5 mm	76.5 x 13.6 mm	69 x 79.5 mm	72 x 111.5 mm	76.5 x 89 mm	82 x 167.5 mm	91.5 x 203 mm	95mm x 241.5 mm	63 x 46.5 mm	67.5 x 60 mm	65 x 81 mm	
345 g	195 g	155 g	220 g	270 g	320 g	430 g	1040 g	565 g	488 g	485 g	158 g	235 g	405 g	453 g	283 g	787 g	440 g	685 g	285 g	466g	442g	1040 g	1755 g	2000 g	215 g	265 g	340 g	
Built-in	included PH-RBA 49	included MH-RA 49	PH-RA49 PH-SA49 RH-RC49	Built-in	Built-in	included PH-RB177	Built-in	included PH-RB177	included PH-RBA72	included PH-RBM67	included PH-RB158	included PH-RBC52	included PH-RBC62	included PH-RBD62	included MH-RA55	included PH-RBD82	included PH-RBC	included PH-RBK67	included PH-RBD49	included PH-RB158	included PH-RBK58	included PH-RBK67	included PH-RBM77	included PH-RBA86	Built-in	included PH-RBC49	included PH-RBE49	
original case included	included S80-80	original case included	S70-70	original case included	included S80-80	S100-120	original case included	included S100-140	S90-140	S90-140	S80-80	included S80-120	included S80-120	included S80-120	included P70-150	included S120-150	S80-120	included S80-160	included S80-120	included S80-160	S80-120	included S100-200	included HS110-230	included HS120-270	included DA70	included S80-80	included S80-120	
Black - 20290 Silver - 20280	22190	Black - 20180 Silver - 20170	20817	Black - 27980 Silver - 27970	21580	21577	21280	21650	21387	21740	21357	21880	21977	21497	Black - 23000 Silver - 23010	21310	21297	21660	21870	22270	21277	21750	21330	21340	Black - 21450 Silver - 21460	21530	21910	

Glossary

DA Series
The PENTAX-DA series provides balanced performance in combination with PENTAX digital SLR cameras. These lenses assure crystal-clear imaging with a deep richness and three-dimensional sensation going beyond mere numerical evaluation. These lenses also offers an outstanding operability with a compact and lightweight body.

DA* Series
These are super high-performance lens created for enabling digital single-lens reflex (SLR) cameras to reach unprecedented levels of image quality and provide even more dramatic photographic expression. We have striven to reach the highest levels of uncompromising optical performance, including

advanced imaging performance that corrects various types of aberrations for all focal lengths and shooting distance ranges.

D FA*/D FA Series
These series feature a high-resolution, high-performance lenses optimized for full-frame format. D FA*-series lenses are designed for uncompromising optical performance, while D FA-series lenses assure well-balanced imaging power. They effectively compensate for various aberrations even at the edges of the PENTAX K's wide image field, while optimizing resolving power and contrast across the image.

FA Series
The PENTAX FA lens series were originally designed for film SLR cameras, but they are also fully compatible with digital SLR cameras. The FA series features full image coverage with full automatic and manual aperture control.

Limited Series
These high-grade lenses provide unique focal lengths deduced from the experiences of many professionals and outstanding imaging power with a truthful sense of perspective. Its exterior casing is made of high-grade machined aluminum for a beautiful finish and durability.

▲ *When attached to the full-frame (PENTAX K-1) DSLR camera, lens compensation function including chromatic aberration correction is extended to cover full-frame image area. This function does not guarantee the quality of the image outside the APS-C image area.*

PENTAX optical technologies

SMC PENTAX
The SMC PENTAX is the benchmark of all PENTAX lenses. The SMC PENTAX lenses describes the high quality images.

HD (High Definition) Coating
Thanks to its higher light transmittance with reduced reflection, High Definition multi-layer lens coating enables sharp, clear images free of flare and ghost images, even under demanding lighting conditions such as backlight.

AL (Aspherical lenses)
Various types of aberration can occur in optical lenses that hinder the achieving of the ideal imaging performance. One type is spherical aberration where the light rays do not converge in a single focal point, resulting in blurring of the point image. Aspherical lenses (AL) can be used to minimize this aberration and reduce the number of component lenses for enabling a compact, high-performance lens design. In addition to glass-molded aspherical lenses, PENTAX has developed hybrid aspherical lenses, where special transparent resin is affixed to optical glass, and resin molded aspherical lenses. The optimal aspherical lens is selected based on the lens configuration, aperture size, application, and other factors.

ED (Extra-low dispersion ED lens elements)
The refraction rate of glass varies depending on the light wavelength. For this reason, because natural light consists of light of various wavelengths, this light fails to converge to a single focal point when passing through a lens. When an image is enlarged on a computer screen, you can sometimes see purple blurring around images of red points, for example. This is called chromatic aberration. In typical lenses using optical glass, this is difficult to correct as the focal length becomes longer. To minimize the chromatic aberration, PENTAX uses ED (Extra-low Dispersion) Glasses, Anomalous Dispersion Glass, and high-refraction low dispersion glass, all of which have low spectral dispersion of light beams. The appropriate glass types are used for attaining exceptional imaging performance in both telephoto lenses and wide-angle lenses.

Round Iris Diaphragm
This round-shaped diaphragm produces a natural, beautiful bokeh (out-of-focus) effect, while minimizing the streaking effect of point light sources.

Inner Focusing
Typical interchangeable lenses use an all-group shifting system where the entire lens group moves to focus. By contrast, an IF system moves only a portion of the lens system to focus. In the IF system, the lenses driven by the motor during the AF operation are lighter for faster AF operation and shorter minimum shooting distance, which enables improved imaging performance during closeup shooting. Also, the total lens length does not change due to the focusing operation for preventing weight imbalances, which is particularly advantageous for super telephoto lenses.

Internal Lens Motor AF (SDM, DC, PLM)
Some lenses include SDM (super-sonic direct-drive motor), DC (direct current motor) and PLM (pulse motor) in their lens names. These lenses perform the AF operation using the motor drive in the lens barrel. This enables a quieter and smoother AF operation than body AF operation driven by the focusing mechanism motor inside the camera body, and enables an easy, comfortable focusing operation. The SDM super-sonic motor includes a brake mechanism for allowing high-accuracy speed control and position control. Lenses that employ a drive mechanism which directly links the PLM and lead screw are not only silent, but offer high-speed, high-precision AF operation.

Quick Shift focus system
The PENTAX Quick Shift focus system allows instant switching between Auto Focus and Manual Focus simply by turning the focussing ring on the lens. A clever clutch mechanism takes care of the rest.

SP (Super Protection)
SP (Super Protection) coating is a PENTAX-original special coating that provides superior performance in repelling water and oils. It is used on the front surface of the flared high-performance lens for effective protection of the lens surface. This coating not only prevents adhesion of dust, water drops, oils, and other substances, but it also makes it easy to wipe off objects that adhere to the lens.

Water and Dust Protection
Humidity and dirt are the natural enemies of high performance electronics and precision optics. AW lenses provide maximum weather-resistant and dustproof performance preventing the intrusion of drizzle and dust into the lens barrel. WR lenses come with a simple flared weather-resistant construction designed to repel a light splash of water.