



OUR EYES, YOUR VISION
ENHANCE YOUR
PENTAX EXPERIENCE

PENTAX

THE EXTENSION OF VISION.

A great picture starts with a great idea and now that you are the owner of a PENTAX SLR the vision formed in your head becomes reality through our world-renowned range of lenses and accessories. PENTAX has been at the forefront of photography since 1919, innovating and pushing back technological boundaries for decades. We have built our reputation around excellence and the proof is in the testimony of many of the world's greatest photographers who choose to use our products over all others. PENTAX lenses are regarded as some of the best in the business, delivering the sharpest detail and the most accurate colours. Our accessories have been carefully thought out to further extend the performance of your PENTAX SLR, allowing you to get closer than ever before to that dream shot you never thought possible.

For the ultimate in creativity an SLR system makes the most sense. With the arrival of the digital SLR the popularity of photography has never been stronger and as a result there are more lenses and accessories than ever before. Fortunately PENTAX can draw upon all of its experience in manufacturing groundbreaking SLR cameras and has clocked up an impressive list of achievements: the first

manufacturer to develop a camera with a pentaprism for through-the-lens viewing, the first to develop a camera with a TTL meter for perfect exposure accuracy, the first to produce a camera with an electronically-controlled shutter and the first to produce a camera with auto exposure. PENTAX has never stopped pushing back boundaries and when it comes to great pictures, lens quality has always been the number one priority.

One of the guiding principles in the PENTAX lens philosophy has always been user-friendliness and this approach has led the PENTAX design team to develop lenses which are exceptional in quality as well as handling. Innovation leads in the development of cameras and accessories and the PENTAX research and design centres are dedicated to creating and manufacturing lenses that are easy to operate, look stylish and which deliver the PENTAX promise of fuss-free great looking pictures. Photography is at the centre of our modern lifestyle and PENTAX has recognised this with its lens range. The ultimate purpose of technology is to make life easier. You will see for yourself how PENTAX lenses provide the seamless connection between a great moment and a great picture.



MAGICAL MOMENTS CAPTURED IN DETAIL AND CLARITY.

THE PENTAX OPTICAL SYSTEM.

The craft of creating a great picture rests as much on good equipment as good technique. Photography, or drawing with light, is a challenging mix of artistry and technology and when conditions are against you it takes a very special camera and lens to capture a great image. Capturing a great picture from testing circumstances is the true measure of a good photographer, and good photographers only use the best equipment. When light is low the focus is on a sharp lens to extract the maximum amount of detail from a subject. Get it right at the taking stage and you can give your software the day off. With PENTAX lenses a good picture will rarely have to be rescued by a computer.

Because photography has been at the centre of the PENTAX world for so long, we know how important the harmony is between a camera and its lens. PENTAX has made sure that all its components share the same synergy, resulting in perfectly smooth operation with no complications to get in the way of you and your photography. In this new world of digital cameras PENTAX leads the market with the biggest range of digitally-optimised lenses, offering you every angle on the world around you; from ultra-wide to ultra-close and everything in between. Every aspect of a PENTAX lens adheres to a strict principle of quality and design and the integration of camera and lens is something that PENTAX has worked very hard on. We are confident that our system will match your expectations and we are constantly striving to exceed them.

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PENTAX K-MOUNT: COMPETENT AND COMPATIBLE.

A camera is only as good as the lens it is fitted to. A photographer knows this, and will form a very special bond between the camera and lens. Many professionals have a favourite optic and choose to use that over all others. Thanks to the PENTAX K-mount and its huge range of lenses the choice is limited only by imagination. A lens is the business end of a great picture and knowing how to get the most from it is the difference between a good and a bad image. Lens craft is at the very heart of photography and PENTAX knows and understands this which is why its K-mount system offers access to one of the biggest range of lenses in the world.

When PENTAX first introduced the K-mount bayonet in 1975 its desire was to create and inspire long-term compatibility of all PENTAX lenses and camera bodies. The mount is now the most widely used system in the world.



KEEPING PACE WITH YOUR FAST LIFESTYLE: OUR FAST LENSES.

Lenses are mechanical objects, relying on a focusing system inside the lens barrel to move the internal optical elements towards or away from the subject to achieve that perfect focus. Any kind of delay between the photographer pressing the shutter and the lens focusing can result in a missed opportunity. PENTAX has recognised this and has worked hard to perfect a system called TTL Phase Detection which registers the precise point of focus with incredible speed and accuracy. Small motors work with astonishing speed to place the lens elements in exactly the right position to achieve perfect sharpness.

While autofocus has revolutionised the speed and convenience of photography on the move, there are still plenty of occasions when the focusing system could be put to the test.

PENTAX lenses are more than up to the challenge thanks to the latest generation of SDM (Supersonic Direct-drive Motor) ultrasonic focussing systems. Fitted to all DA* series lenses, these motors work quieter and more accurately than conventional AF lenses. Our latest generation of optics utilise these motors along with internal focusing to provide a userfriendly lens that truly becomes an extension of your own eye.

A dual drive in our DA* lenses means that these latest optics can also be used on older generation PENTAX digital camera bodies. Whilst the latest PENTAX digital SLR cameras use the SDM AF system, DA* lenses also feature a conventional AF drive for use with earlier, pre-SDM digital SLR cameras.

HAVE IT YOUR WAY WITH OUR LENSES!

Whatever your take on the world around you, there is a PENTAX lens to suit your mood and your vision. Photographers are experimental by nature and PENTAX encourages creativity. We have ensured that there is a lens available to you for whatever purpose you have in mind. From wide-angle, standard, telephoto, zoom or macro we have what you need in our famous lens system:

- A standard lens offers you a view of the world equivalent to that of the human eye. In the digital range the focal length for a standard lens is 35mm. A standard lens is small and light making it ideal for portraits and moderate close-focusing up to around 30cm.
- For a wider view of the world opt for a wide-angle lens to pack more of the scene into your composition. Typical focal lengths generally lie between 12 and 35mm. Wide-angles have traditionally been the preserve of architectural and landscape photography but lend themselves equally well for pictures of other subjects with impact. If you want to get closer to the action or take some creative portraits, a wide-angle has it covered.

- To get closer to the action without intruding on your subject the telephoto is the lens to choose. Popular subjects for telephotos are wildlife, sport and portraits but landscapes can look great through a long lens, as a compressed perspective can make background elements such as mountains look far more dramatic.
- For detailed close-up views, there is only one lens to choose: the macro. These are capable of focusing down to 19.5cm away from the subject delivering a life-size view with a ratio of 1:1!
- Zooms are flexible and versatile and make the ideal travelling companion where space is at a premium. PENTAX make a range of zooms ranging from wide-angle to telephoto.



Taken with a wide-angle lens



Taken with a standard lens



Taken with a telephoto lens

TAKING THE STRESS OF MODERN LIVING IN ITS STRIDE: ULTIMATE PROTECTION.

It's not just inside PENTAX lenses where you will find first-class engineering. PENTAX DA* series lenses are built to the highest standards and tolerances and are ready to deliver you exceptional images whenever and wherever

you choose. PENTAX has ensured that they can take the best of the worst weather. Each lens is specially sealed at key points in order to prevent water splashes, dust and dirt ingress, which could result in damage and interference.



10mm*

20mm*

35mm*

50mm*

70mm*

135mm*

200mm*

300mm*

FIXED FOCAL LENGTH LENSES

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ZOOM LENSES

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MACRO LENSES

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(*equivalent to 35mm film format)



A COMMITMENT TO QUALITY: THE PENTAX OBSESSION.



smc PENTAX DA 14mm f/2.8 ED [IF]



PENTAX lenses that appear under in the smc-DA range are especially suited to our digital SLRs. The smc-DA 14mm lens is equivalent to a 21mm angle of view on conventional film cameras and offers fast operation within a compact body. A 77mm filter ring allows professional "slim" filters to be fitted while high-quality ED glass delivers brilliant sharpness and saturated colours.

As an added bonus to purist photographers, a Quick Shift Focus System allows instant manual focusing even while the camera is in AF mode.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
11/12	90	22	17cm	1:5.3	83.5x69mm	420g	77mm

smc PENTAX DA 10 – 17mm f/3.5 – 4.5 ED [IF] Fish-Eye



When accurate perspective isn't on your creative agenda then take a different path and opt for this handy little fisheye zoom which allows you to zoom steplessly from 100 degrees to a quite extraordinary 180 degree angle of view. Thanks to its clever design the lens can be focused as close as 14cm from your subject and because the front element is dirt and water repellent you don't have to worry if you get just a little too close to your subject! The PENTAX SP coating provides that extra protection, and can easily be cleaned (with a PENTAX lens cloth, of course!).



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
8/10	180-100	22-32	14cm	1:4.2	68x71.5mm	320g	-

smc PENTAX DA 12 – 24mm f/4.0 ED AL [IF]



The equivalent of an 18–36mm zoom in 35mm terms, this wide-angle zoom lends itself nicely to creative photography on the move thanks to its compact size and impressive capability. Thanks to aspherical lens technology and low-dispersion ED lens elements, colourful and crystal clear images are guaranteed. The lens covers an angle of between 99 and 61 degrees which makes it perfect for getting close to your subjects and blowing perspective out of the water!



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
11/13	99–61	22	30cm	1:8.3	87.5x84mm	430g	77mm

smc PENTAX DA 16 – 45mm f/4.0 ED (AL)



Embracing the wide-angle to standard lens range, this versatile zoom extends your creativity allowing you to play wide and yet still home in on specific details when the opportunity demands. Aspherical lens elements are used to ensure crisp focusing throughout the zoom range and a small size and lightweight construction makes this lens a favoured optic with photographers on the go.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
10/13	83–35	22	28cm	1:3.8	72x92mm	365g	67mm

smc PENTAX DA* 16 – 50mm f/2.8 ED AL [IF] SDM



The smc-DA* 16–50mm lens is our ultimate standard zoom and one which we are very proud of. With a constant maximum aperture of f/2.8 right across the zoom range it is more than capable of performing in difficult lighting situations. A Quick Shift Focus System offers the photographer full manual control of the lens even while in AF mode and thanks to an SP coating on the front element the lens is perfectly protected – whatever the weather.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
12/15	83–31.5	22	30cm	1:4.8	84x98.5mm	600g	77mm

smc PENTAX DA 17 – 70mm f/4.0 AL [IF] SDM



This lens is an indispensable tool for enthusiast photographers. The smc-DA 17–70mm captures the equivalent of a 26–107mm focal length in 35mm film format – a usefully wide standard zoom range for SLR photography. Thanks to its extremely high quality optics brilliant images are assured, whether you're shooting wideangle or moderate telephoto shots. The fast aperture through its entire focal length range has plenty in reserve for scenes in which the lighting conditions leave something to be desired. The lens is designed with 17 lens elements in 12 groups, including an aspherical element to reduce aberrations. Additionally, there are useful features such as internal focusing and the Quick Shift Focus System. The autofocus smc-DA 17–70mm is exclusively equipped with ultrasonic auto focus drive found in the new PENTAX DSLRs.



Exclusively for compatible camera bodies.

GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
12/17	79–23	22	28cm	1:3.1	75x93.5mm	485g	67mm

smc PENTAX DA 18 – 55mm f/3.5 – 5.6 AL II



The successor to our classic standard zoom. During its redesign the optics were enhanced to suit the higher resolution of our new DSLR cameras. The result: a 220gramme lightweight that allows you to master practically any standard shooting situation. With a zoom range of approx. 28 to 85mm (in 35mm film format) it is always ready – whether you're shooting portraits, landscapes or other situations that require a spontaneous response. 11 lens elements in 8 groups, including an aspheric element, provide optimum sharpness and colour depth. The dirtresistant PENTAX SP coating of the front lens element helps you to create "clean" photographs any time. An added convenience is the focus ring that can instantly be engaged to assist in manual focusing.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
8/11	76–29	22–38	25cm	1:2.9	67.5x68mm	220g	52mm

smc PENTAX DA 18 – 250mm f/3.5 – 6.3 ED AL [IF]



A specialist and an allrounder in one: the optics of the smc-DA 18–250mm are particularly matched to high performance digital SLR cameras. Its extended focal length range create your perfect partner in practically any photographic situation. This lens offers a stepless equivalent zoom range of 27.5 to 382.5mm in 35mm film format – making it the first choice for those unexpected or unpredictable photographic situations. The finely reproduced and true-to-life colours that the demanding photographer expects are assured with this extremely versatile lens. High quality aspherical lens elements and ED glass reduce aberrations to a minimum and assure a fast response in varying conditions.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
13/16	76–6.5	22–45	45cm	1:3.6	75x85.5mm	455g	62mm



**smc PENTAX DA* 50 – 135mm
f/2.8 ED [IF] SDM**



The second addition to the new generation of PENTAX lenses, this smc-DA* 50 – 135mm lens offers a focal length equivalent to 75 – 205mm in 35mm terms. Exceptional construction utilizing latest generation materials gives this lens the performance edge, making it ideally suited for fast focusing of moving subjects. A constant f/2.8 maximum aperture allows superb performance in low light and thanks to the unique PENTAX SP lens coating on the lens front element you can be assured that this is one lens that will come back time and again for more punishment.

GROUPS/ ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNI- FICATION	DIAMETER/ LENGTH	WEIGHT	FILTER- SIZE
14/18	31.5–11.9	22	100cm	1:5.9	76.5x136mm	765g	67mm

smc PENTAX DA 50 – 200mm f/4.0 – 5.6 ED



A 4x zoom which delivers an effective zoom range of 75 – 300mm in 35mm terms. 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.

GROUPS/ ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNI- FICATION	DIAMETER/ LENGTH	WEIGHT	FILTER- SIZE
10/11	31.5–8.1	22–32	110cm	1:4.2	66.5x78.5mm	255g	52mm

smc PENTAX DA 55 – 300mm f/4.0 – 5.8 ED



As far as your eye can see. With this resourceful zoom you can capture nearby scenes just as easily and as perfectly as long distance shots. With an 85 to 450mm focal length (in 35mm film format) the smc-DA 55–300mm offers an extremely wide zoom range. The optical design was especially developed to meet the requirements of high-resolution digital SLR cameras. A high performance ED lens element is incorporated to keep colour aberrations to a minimum and the special PENTAX SP coating of the front lens element provides effective protection against dirt and fingermarks. Additionally, the lens has a wide focusing ring for those who prefer to focus manually.

GROUPS/ ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNI- FICATION	DIAMETER/ LENGTH	WEIGHT	FILTER- SIZE
8/12	29–5.4	22–32	140cm	1:3.6	71x111.5mm	440g	58mm



**smc PENTAX DA* 200mm
f/2.8 ED [IF] SDM**



Top-level technology to match the highest photographic requirements. In terms of absolute resolving power the new 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-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. Additionally, the lens body is completely sealed against spray and dust.

GROUPS/ ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNI- FICATION	DIAMETER/ LENGTH	WEIGHT	FILTER- SIZE
8/9	8.1	22	120cm	1:5	83x134mm	825g	77mm



**smc PENTAX DA* 300mm
f/4.0 ED [IF] SDM**



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, it offers brilliant solutions for longer telephoto focal length demands, being equivalent to a 460mm lens in 35mm film format. Special ED lens elements reliably reduce colour aberrations to a minimum. The smc-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 spray and dust. Additionally, it is also equipped with a tripod mount.

GROUPS/ ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNI- FICATION	DIAMETER/ LENGTH	WEIGHT	FILTER- SIZE
6/8	5.4	32	140cm	1:4.2	83x184mm	1,070g	77mm





smc PENTAX D-FA 50mm f/2.8 Macro 1:1



A truly exceptional lens which offers real-time life size images of subjects in a small and lightweight body. This is a lens which macro photographers can use handheld thanks to a super bright f/2.8 maximum aperture. A floating lens element ensures that subjects are distortion-free, a common problem afflicting lesser macro lenses and for flower and plant photography this lens has no competitor. These D-FA lenses can also be used with 35mm film SLR cameras.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
7/8	47	32	19.5cm	1:1	67.5x60mm	265g	49mm

smc PENTAX D-FA 100mm f/2.8 Macro 1:1



Just like its smaller brother, this lens again has 1:1 capability for capturing subjects in lifesize detail. A focus-lock allows the photographer manual control over the lens making it impossible to inadvertently change the focus while composing. A slightly longer focal length offers the photographer a longer working distance over the 50mm macro, making this lens the perfect choice for subjects that a more difficult to reach. A floating rear element reduces aberrations at any focussing distance. These D-FA lenses can also be used with 35mm film SLR cameras.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
8/9	24.5	32	30.3cm	1:1	67.5x80.5mm	345g	49mm

LIMITED EDITION: LIMITLESS POSSIBILITIES.

PENTAX knows a thing or two about traditional photography. With a track record as maker of some of the world's finest film cameras our values in this traditional world have been carried over to the digital one. Lenses are tactile instruments of beauty and we know that photographers appreciate quality when they see it. While some manufacturers compromise by producing cheaper plastic-bodied lenses, our "Limited Edition" range is here to confirm the PENTAX philosophy of performance through design. All our "Limited Edition" range feature metal bodies with engraved aperture rings and depth-of-field scales and come with a

matching metal lens hood that has been designed to match the construction of the lens. Our attention to detail knows no limits.

The name "Limited Edition" does not mean that these lenses won't be around forever. Far from it. Chances are they will outlive most cameras! The name instead refers to the fact that they are produced to higher tolerances than mass-produced lenses and assembled with even greater diligence, so their daily production output is limited. A discerning product for the discerning photographer.

smc PENTAX DA 35mm f/2.8 Macro Limited Edition



Bringing more pleasure to photography: the new smc-DA 35mm is the first macro lens in the acclaimed "Limited" range. As with all lenses in this range it is characterised by its highly compact design – however, its macro capabilities are the defining crucial aspect. Of equal importance is its flawless reproduction quality – attained in part by an innovative new lens coating. Further important characteristics are its 1:1 reproduction ratio, 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 retractable lens hood is particularly convenient. With a 53.5mm focal length equivalent in 35mm film format, the smc-DA 35mm is, of course, useful beyond its macro tasks – it is eminently well suited as a standard lens of outstanding high quality.



GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
8/9	44	22	13.9cm	1:1	63x46.5mm	215g	49mm



smc PENTAX DA 21mm f/3.2 AL Limited Edition



A compact and precisely-engineered lens fully deserving of its place in our "Limited Edition" line-up. For premium lens quality the whole optical design of the smc-DA 21mm is based around an aspherical lens element. With a minimum focusing distance of 20cm a floating lens element allows for aberration-free images while retaining the lens' compact shape. Again, the Quick Shift Focus System is an added feature, along with highly effective water and oil repelling SP coating, making it a preferred lens for reportage or travel photographers on the move.

GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
8/5	68	22	20cm	1:5.9	63x25mm	140g	49mm



smc PENTAX DA 40mm f/2.8 Limited Edition



Another "Limited Edition" lens, but this time one with a fixed focal length of 40mm which offers the equivalent field-of-view on a 35mm film camera as a 60mm lens. An ultra-flat design gives this lens the nickname Pancake which goes some way to explain its exceptionally thin design. Weighing an amazing 90g it is a featherweight lens and one that can be used in manual focus mode easily thanks to PENTAX's Quick Shift Focus System.

GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
4/5	39	22	40cm	1:7.7	63x15mm	90g	49mm



smc PENTAX DA 70mm f/2.4 Limited Edition



A superb lens for detailed portrait and landscape work, this incredibly compact optic offers the 35mm equivalent of a 105mm lens, making it perfect for the roving photographer. Producing incredibly sharp and high-contrast images this lens is the preferred choice of photographers looking to record their subjects in stunning detail and clarity. Again, this lens utilises the PENTAX Quick Shift Focus System for fast manual focusing in AF mode.

GROUPS/ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFICATION	DIAMETER/LENGTH	WEIGHT	FILTER-SIZE
6/8	23	22	70cm	1:8.3	63x26mm	130g	49mm



LET THERE BE LIGHT!

THE PENTAX FLASH SYSTEM.

Without light there is no photograph. No photograph means no memory. Thanks to the PENTAX range of optimised flashguns no shooting situation has been left out. The PENTAX system has been designed to work seamlessly with every PENTAX digital SLR camera, allowing the photographer to concentrate on the subject and composi-

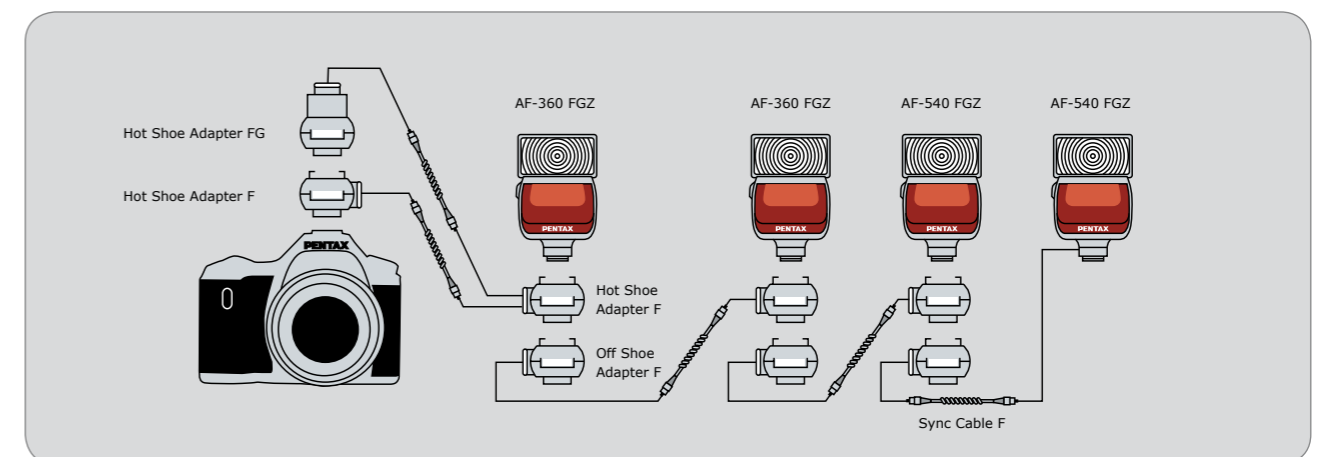
tion without having to worry about settings and adjustments. Of course that doesn't mean that purists cannot have it their way either. Our flashguns feature clear, well-designed controls and features for manual adjustment, affording every photographer full control of the frozen moment.

LIGHT TO GO.

Sufficient lighting is crucial to successful photography. Unfortunately, in a great number of situations the light is far less than perfect. That's why PENTAX has developed a range of efficient flashguns that provide accurate and consistent light for virtually any situation. Perfect communication between your digital PENTAX SLR and PENTAX flashgun makes it all possible.

For the K20D we recommend the AF-360 FGZ or AF-200 FG for general use or the top range AF-540 FGZ with a high guide number, tilt and swivel flash head and very fast recycling time. Additionally, the K20D body is equipped with an x-sync socket so it is completely at home with studio flash set-ups.

SYSTEM FLASHES.



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



AF-360 FGZ

Type	ELECTRONIC FLASH WITH ZOOM HEAD		
Guide number	36 at 85mm, 30 at 50mm (ISO 100)		
Compensation	Flash exposure -3.0 to +1.0 EV, in 0.5 EV steps		
Flash functions	P-TTL, A-TTL, Automatic, Manual (6 steps 1/1-1/32), Slave, Wireless, Flash with 1st and 2nd curtain sync, SB function for distance measurement, Contrast Control, High-Speed-Synchronisation		
Head	Auto zoom, manual zoom, vertical bounce: -10°, 0°, 45°, 60°, 75°, 90°		
Flash range	0.7 - 5.4m at f/5.6/ISO 100		
Power requirements	4x AA batteries (or rechargeable)		
Battery life	Recycle time	No. of flashes	
	Alkali-Manganese (LR6)	approx. 6sec.	approx. 250
	Nickel Metal Hydrid (Ni-MH)	approx. 6sec.	approx. 160
Compatibility	Digital, 35mm, 645, 67 (medium format)		
Dimensions	76x142x107mm (WxHxD)		
Weight	270g (without batteries)		
Accessories	Soft case		

AF-540 FGZ

Type	ELECTRONIC FLASH WITH ZOOM HEAD		
Guide number	54 at 85mm, 45 at 50mm (ISO 100)		
Compensation	Flash exposure -3.0 to +1.0 EV, in 0.5 EV steps		
Flash functions	P-TTL, A-TTL, Automatic, Manual (7 steps 1/1-1/64), Slave, Wireless, Flash with 1st and 2nd curtain sync, SB function for distance measurement, Contrast Control, High-Speed-Synchronisation		
Head	Auto zoom, manual zoom, vertical bounce: -10°, 0°, 45°, 60°, 75°, 90° horizontal rotation: right: 0°, 30°, 60°, 90°, 120°, 150°, 180° left: 0°, 30°, 60°, 90°, 135°		
Flash range	0.8-8m at f/5.6/ISO 100		
Power requirements	4x AA batteries (or rechargeable)		
Battery life	Recycle time	No. of flashes	
	Alkali-Manganese (LR6)	approx. 6sec.	approx. 200
	Nickel Metal Hydrid (Ni-MH)	approx. 6sec.	approx. 160
Compatibility	Digital, 35mm, 645, 67 (medium format)		
Dimensions	76x142x107mm (WxHxD)		
Weight	380g (without batteries)		
Accessories	Soft case		



TR Power Pack 3 for the AF-540 FGZ



The ultimate power source for independent photography. Professional photography demands sufficient power. This means the TR Power Pack 3 for the AF-540 FGZ (not for use with AF-360 FGZ). The use of 6 C-type batteries extends the shooting capacity and shortens the recycling time.

Compatible	AF-540 FGZ
Battery	6x C-type alkaline batteries (NiCd batteries are not usable)
Number of flashes	approx. 700
Recycling time	approx. 4.5sec.
Size	95x190x40mm (WxHxD)
Weight	340g (without batteries) 740g (with batteries)
Standard accessories	Connecting cable (1.5m), case, strap

The flash must have batteries installed when using the Power Pack.

AF-200 FG

Type	ELECTRONIC FLASH		
Guide number	20 at 28mm (35mm film format) (at ISO 100)		
Compensation	Flash exposure -0.5 and 1 EV		
Flash functions	PTTL; ATTL; automatic; Manual (Full)		
Head	Focal length 28 mm/24 mm (with builtin diffuser) (values given refer to focal lengths for 35mm film format) vertical: 30°/39°; horizontal: 26.5°/35°		
Flash range	0.7 - 3.6m at f 5.6/ISO 100		
Power requirements	4x AA batteries (or rechargeable)		
Battery life	Recycle time	No. of flashes	
	Alkali-Manganese (LR6)	approx. 4sec.	approx. 300
	Nickel Metal hydride (Ni-MH 2,700mAh)	approx. 4sec.	approx. 400
	AA Lithium	approx. 4sec.	approx. 450
Compatibility	Digital, 35mm, 645, 67 (medium format)		
Dimensions	68x83.5x93mm (WxHxD)		
Weight	190g (without batteries)		



HOT SHOE ADAPTER F

The Hot Shoe Adapter F is particularly suitable for the SF- and Z-series cameras and the flash units of the FTZ- and FGZ ranges. It connects a flash unit to a sync cable. Up to 4 units can be connected together.



HOT SHOE ADAPTER FG

The Hot Shoe FG is designed so that the camera's built-in flash can be used in conjunction with the adapter. The top of the adapter has a socket for the sync cable.



OFF SHOE ADAPTER F

The Off Shoe Adapter F is particularly suitable for use with the FTZ- and FGZ ranges. The Off Shoe Adapter F is comparable to the Hot Shoe Adapter F, but the bottom of the adapter features a standard tripod screw mount.



SYNC CABLE F

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



OFF CAMERA SHOE CLIP

This clamp attachment has a hot shoe (without electrical contacts) and is used to attach a flash to an object up to 2.5cm thick.



CARING GOES BEYOND THE CAMERA.

KEEPING YOUR PENTAX PERFECT.

With PENTAX, the service and performance of our products extends well beyond the camera and lens which is why we have carefully developed a range of accessories designed to work perfectly and enhance your PENTAX experience. With our range of battery grips, focusing screens, belts, bags, eye cups and cleaning accessories it is possible to custom build your own camera system, adapted to your

individual needs as a photographer. A particularly useful tool is the sensor Cleaning Set that efficiently removes the last bit of stubborn dust on the sensor surface. Used carefully, the Cleanng Set is also recommended for use with the K20D to eliminate any damp dust that may be missed by the camera's Dust Removal system.



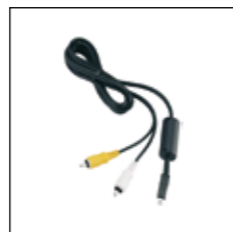
IR Remote Control F



Cable release



USB cable



AV cable



AC Mains adapter Kit



Battery grip D-BG2



D-L150 Li-Ion battery



K-BC50E Battery charging kit



Eye cup FL



Eye cup FO



Eye cup FP



Viewfinder cap



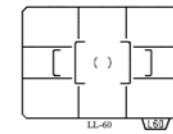
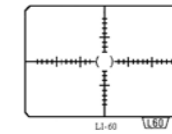
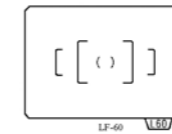
Display protection foil



Shoulder strap



Neoprene Shoulder strap



Interchangeable focusing screens

For specific professional applications you can replace the standard focussing screen of the K20D with either a grid screen or a plain ground-glass screen with ruled scale markings.



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 center. This magnifier is an effective way to optimally judge the image in the finder.



Sensor Cleaning Kit

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



Battery Grip D-BG2 for PENTAX K20D, K10D

The PENTAX Battery Grip D-BG2 provides extra power to ensure best results when the camera is in continuous use. Not only does the grip use the same Li-Ion battery as the camera – so there is always plenty of spare power – but it also features an additional shutter release and aperture and shutter speed dials that are ideally positioned for shooting in portrait format. Thanks to the outstanding PENTAX ergonomic design the camera always fits comfortably in the hand. The battery cradle also contains a slot for an additional memory card and remote control. Battery not included.



Battery Grip D-BG3 for PENTAX K200D

The outstanding energy management of the PENTAX K200D means that you can get up to 1,000 shots on one set of batteries. Astonishing as that may be the D-BG3 Battery Grip effectively doubles that! Just like the camera the Battery Grip operates with standard, widely available AA batteries. The grip also provides an additional shutter release and is shaped for optimal ergonomic comfort for fatigue-free extended use. Additional storage space is provided in the battery cradle for an extra memory card and remote control.



Professional Backpack

A camera backpack with a zippered enclosure for a camera-body, two lenses and a flash as well as an additional compartment for a laptop or other equipment.



Camera Case

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



Nylon case

You don't always need to carry all your equipment. Very often just a camera and standard lens will suffice. The nylon case offers excellent protection for general walk-around use.



Aluminium case

Do you need a safe place for all your equipment? Nothing is better than this aluminium case. Adjustable rigid partitions provide for optimum spacing and guarantee that everything remains well protected in its place.

Backpack

The best method for transporting a larger selection of equipment. The removable insert (30x40x12cm) offers a safe place for camera, flashgun, several lenses and accessories. There is also an extra pocket for a laptop. Reflective strips provide extra security at evening and night time.

GLOSSARY



super multi coating

super multi coating is the benchmark of all PENTAX lenses. smc describes a high quality coating of the lens elements that consists of seven microscopically thin layers. The normal light loss at the lens surface between air and glass is reduced from 4% to 0.2%.



Aspherical Lenses

Contrary to spherical, aspherical lenses do not have a uniformly curved spherical shape. The form of an aspherical lens is adapted to a specific task and the curvature of each is individually computed. The production of these lenses is accordingly complex. The greatest advantage of aspherical lenses: several types of optical aberrations can be corrected at one time. They are used particularly in high-quality lenses allowing for the use of fewer lens elements so that a high luminous intensity is attained.



ED Glass

Normal glass lenses tend to divide the incident light into its various colour components, as a prism would do. This happens particularly at the edges, adding unwanted colour fringing to the photo. The longer the focal length of the lens the more apparent is the fringing effect. ED glass is an exceptionally high-quality special glass that prevents this so-called chromatic aberration to a very great extent.



Inner Focusing

Each lens is composed of several groups of lens elements. With an Inner Focusing design only one of these groups is moved. Inner Focusing brings a number of advantages compared to a conventional focusing design where all the lens groups are moved: it works faster and the overall length of the lens remains unchanged so the centre of balance remains constant. Additionally, since the front lens element doesn't rotate, filters do not have to be readjusted every time the focus point changes.



Supersonic Direct-drive Motor

Small motors manage the actual focusing of an autofocus system. With the "Supersonic Direct-drive Motor" PENTAX has developed a technology that propels the focusing procedure with an ultrasonic motor. PENTAX SDM lenses drive the autofocus system significantly faster and operate more quietly than conventionally driven AF lenses.



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 Coating

SP (Super Protection) coating is a special coating of the front lens element of particular PENTAX lenses. It is based on a fluoride bonding and prevents the contamination of the lens by water-based or oily substances. SP coated lenses are much more easily cleaned of finger marks, smears or other matter than may come in contact with the lens.



Water and dust protection

Humidity and dirt are the natural enemies of high performance electronics and precision optics. So that neither water nor dust can penetrate, the latest PENTAX DSLR bodies and DA* lenses are protected by a extensive system of seals for thorough external protection.

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The manufacturer reserves the right to change specifications,
design, equipment and scope of supply without notice.

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