

K20D

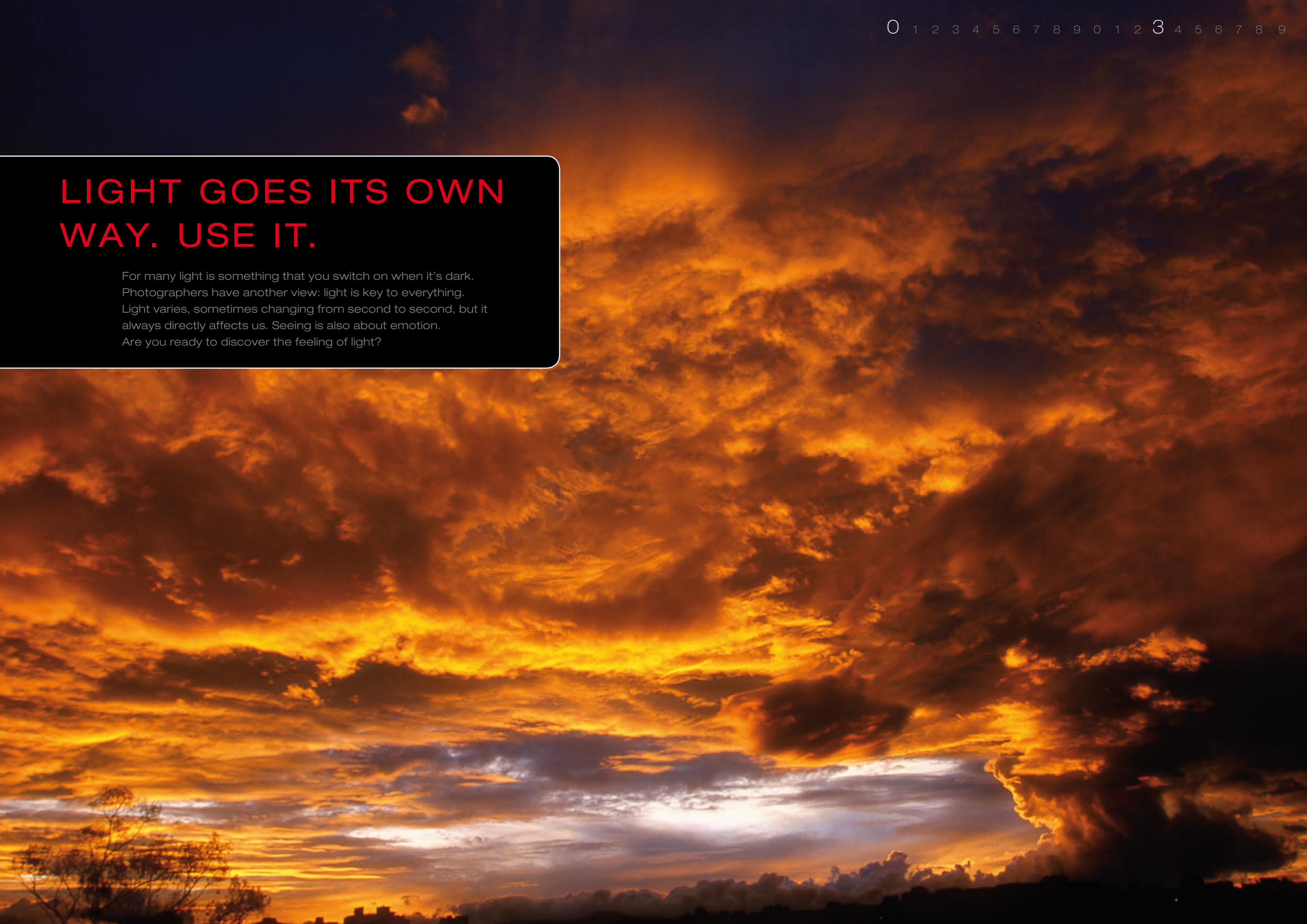
LIGHT CREATES.



PENTAX

LIGHT GOES ITS OWN WAY. USE IT.

For many light is something that you switch on when it's dark. Photographers have another view: light is key to everything. Light varies, sometimes changing from second to second, but it always directly affects us. Seeing is also about emotion. Are you ready to discover the feeling of light?



K20D**FASTER, HIGHER, FURTHER. HOW ABOUT BETTER?**

Digital photo technology has advanced enormously in the past few years. The internationally acclaimed PENTAX K10D has shown just how much enthusiasm can be generated and how high standards can be set by a digital SLR. The expectations attached to the K10D's successor are just as demanding. From the outset the concept for the new PENTAX K20D was clearly to exceed expectations. The K20D is not simply a technically updated version of the K10D: it is a new camera.

TECHNOLOGICAL PROGRESSION.

A completely new CMOS sensor has been developed for the K20D, with an impressive 14.6 megapixels of resolution. Along with the indispensable pentaprism finder the K20D also offers Live View – for additional freedom when photographing. The camera has a unique ability to locate dust precisely on the sensor.

OUTSTANDING IMAGE QUALITY.

The new CMOS sensor of the K20D delivers images with extremely fine resolution and brilliance. The reason: our engineers have succeeded in reducing picture noise to an absolute minimum. Also new is the PENTAX Dynamic Range Enlargement (DRE) that provides clearly improved contrast range for your photos.

SINGULAR CONTROL CONCEPT.

Most SLRs nowadays pack extensive features into the camera body. However, the features of real value are those that make it possible for the photographer to easily set up the camera so it is ideally suited to their needs. This is where the new K20D achieves a completely new level. A few examples: the Digital Preview image can be stored as a JPEG image, so that, uniquely, changes in white balance settings can be made later; in Raw format photos can also be comprehensively worked on in the camera. Other examples: front/back focus error correction, calibratable monitor, user selectable file names – you adapt the camera to your individual way of working.

LIGHT AT EYE LEVEL.

For decades our fascination with light has been the driving force in our continual development of innovative optical solutions.

The new PENTAX K20D is the next milestone along our route, offering amazing potential for photographers to capture their own view of things and create them in their pictures.



IT IS BETTER WHEN THINGS WORK TOGETHER.

The new PENTAX K20D works fast, precisely and with all relevant information on display. All the features work seamlessly and allow the photographer to take over at any time. This opens the door for ultimate creativity and images created will show brilliant quality and the strength of individual expression.



UNBELIEVABLE DETAIL: 14.6 MEGAPIXEL CMOS SENSOR.

At any given moment an infinitely large number of light rays strikes the earth. These gradations of light stimulate a firework of colour, light and dark. The intense emotion of a photograph is dramatically enhanced by the ability of the camera to capture light within the scene without any loss or degradation. Towards this end a completely new, high-performance sensor has been developed for the PENTAX K20D. With over 14 million pixels supplying the data to the similarly newly developed 14-bit analogue to digital converter, the image is nearer to reality. The result: image quality that leaves a similar film-based photo in the shade.

WATER OFF A DUCK'S BACK: A COMPLETELY SEALED BODY.

The K20D makes light work of heavy weather. 72 seals on the camera body and 38 seals on the battery grip combine to ensure that humidity, dust and sand cannot adversely affect the camera. Additionally, the fibreglass reinforced polycarbonate body with high-grade steel chassis offers the necessary robustness to meet the challenges of demanding daily use.

POWERFUL STABILITY: PENTAX SHAKE REDUCTION.

Pin-sharp pictures are the basis of good photography. The PENTAX Shake Reduction system gives picture taking security in situations where camera shake would not be prevented without a tripod or other camera support. There is also a unique additional advantage of the PENTAX Shake Reduction system. It is integrated into the camera body so it is always available, and with any lens.

KEEP PACE WITH LIGHT: PENTAX PRIME PROCESSOR.

Only a camera of the highest quality will produce pictures with intensity and strength. This is the central idea behind the development of the PRIME processor for the K20D. This engine supplies the necessary computing power to influence subtle colour nuances, to comfortably process RAW data, to purposefully manipulate and store preview pictures, to improve the dynamic range of photos and much, much more. Additionally, the PRIME processor allows continuous shooting from approximately 3 frames per second, up to 20 fps in the Burst Mode. The K20D is fast, however, as stated before, the PENTAX designers had one mission priority: how to produce photos of outstanding quality – not how quickly a lot of shots can be taken.

MORE USEFUL THAN EVER: PENTAX DIGITAL PREVIEW.

Get your settings right first time with Digital Preview. Even with an instant digital image it is often worthwhile to preview the shot, and the ability to adjust settings such as white balance and colour tone is so useful. You can even save the previewed image as a JPEG, to keep that perfectly timed shot. The large 2.7" monitor with 230,000 dots shows the result useful clarity and detail.

MINIMISE INTERFERENCE: PENTAX NOISE CONTROL.

With a wide sensitivity range from ISO 100 to ISO 6,400 the sensor of the K20D gives its excellent colour fidelity and impressive vividness in practically any photographic lighting situation. The reason is PENTAX Noise Control that efficiently avoids disturbing picture noise. The significant difference compared to conventional noise reduction is that instead of reducing picture noise after shooting, the K20D prevents noise at the outset, where it first develops. The relevant components were designed in such a way that noise is hardly worth mentioning.

SUBTLE SHADOW DETAIL: PENTAX DYNAMIC RANGE ENLARGEMENT.

More delineation, more depth, closer to the original – PENTAX Dynamic Range Enlargement (DRE) tackles an issue that is as old as photography. Until now neither film nor digital imaging could accurately represent the huge dynamic range of the human eye. To put it simply, results were muddy shadows or blown-out highlights. With DRE the dynamic range of your photographs will increase by a full stop – enhancing your photos from drab contrastless depths.

YOUR CAMERA IS AN EXTENSION OF YOUR EYE.

Photography lives through successful pictures. A good camera can do much towards this by making sure that nothing clouds this enjoyment, and can even increase it by offering you new ideas. Really good cameras can do both.



SEE WHAT'S GOING ON: PENTAX LIVE VIEW.

The ability to frame your subject through the lens that takes the image is fundamental to SLR photography. Focus point, depth of field, lighting conditions are just a few of the parameters to check through the taking lens. Now there is a new way. Live View is a real time preview that allows you to experiment with a variety of settings and to try out ideas. What you see on the large 2.7" monitor of the K20D is what you get when you press the shutter button. Live View picture grid lines can be superimposed on the display to compose the scene more precisely. The image can be magnified by a factor of 10, to check critically fine sharpness of detail prior to shooting. The Live View screen offers easy viewing comfort, not only through its increased size of 2.7" and a clear, bright display, but also through its enhanced viewing angle. The display is easily viewed from angles of up to 160°, so comfortably composing a shot from an unusual position is easy.

CLARITY AND COMFORT: THE PENTAPRISM VIEWFINDER.

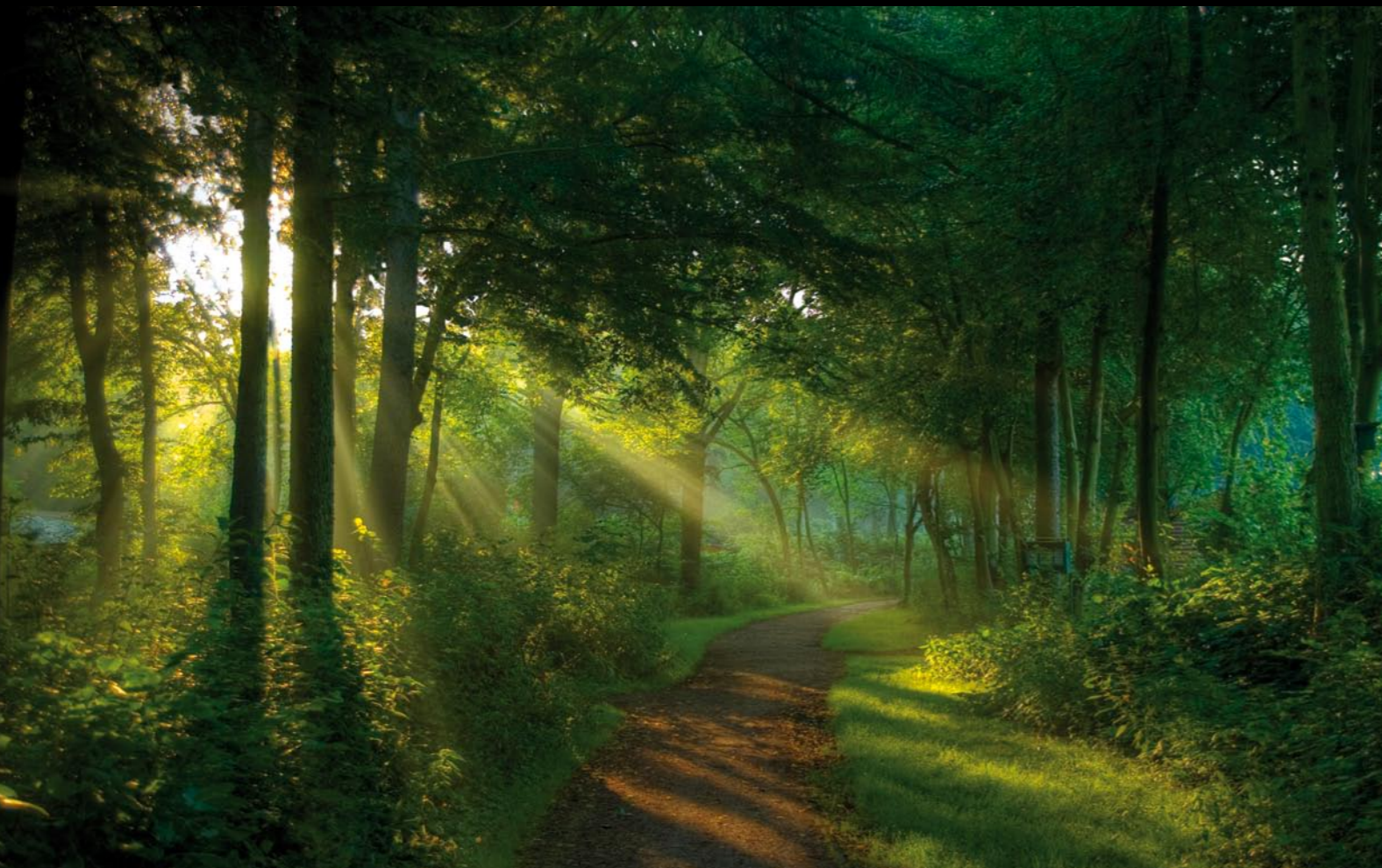
To critically check composition, the K20D has state-of-the-art technology with Live View and digital preview. However, experienced photographers know that the optical viewfinder remains an indispensable tool in SLR photography. That is why the pentaprism viewfinder of the K20D offers a 95 per cent image field with 0.95x magnification – one the best available today in digital SLR cameras.

CHECKING THE SENSOR: PENTAX DUST ALERT.

Experienced photographers have their own techniques for checking the sensor is clear of dust, and so has the K20D. Dust Alert further advances the Dust Removal function with real reliability. Dust particles can remain clinging to the sensor under very special conditions even if it has shifted after vibration. Dust Alert locates persistent and annoying dust particles and indicate their exact location with pinpoint accuracy, making it easy to clean the sensor with the special (optional) Cleaning Stick.



Perfect particle detector: persistent dust has no chance in the K20D. Any possible contamination of the image sensor can be pinpointed exactly on the monitor – the right way up and the right way round. The red lens alignment dot on the lens mount indicated on the monitor facilitates proper orientation.



IN CONTROL OF DRAMATIC LIGHTING.

It's really thrilling when you're on the limit. And that applies to photography as well. Harsh contrast – glaring highlights and deep shadows – on the narrow edge between bright and dark. The PENTAX K20D is an expert for pushing the limits.



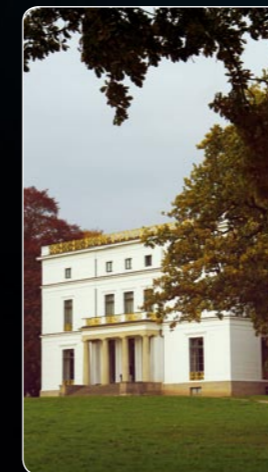
SMOOTH IS SHARP: PENTAX SHAKE REDUCTION.

Most shots are taken spontaneously – so the vast majority of photographs are taken handheld and not with a tripod. That's why every photographer knows that it is extremely difficult to avoid situations where a shot will be blurred due to camera shake. Times when the lighting conditions require a longer shutter speed. Times when the camera, for various reasons, cannot be held sufficiently steady. The PENTAX Shake Reduction system substantially increases your chances of a sharp shot. If the camera registers a gyroscopic movement, the highly efficient, opto-magnetical sensor technology ensures that the image sensor compensates with a counter movement. Pin sharp photos are the result. This system extends the range by up to 4 stops – an obvious advantage to the photographer. The PENTAX Shake Reduction system is an integral part of the camera body and is fully functional with any lens – such a great advantage!



The CMOS plate with electro-magnets for controlling Shake Reduction is mounted between metal frames with permanent magnets attached.

A WORLD OF DETAIL.



Everything that we see is the result of the interaction between light and surface. The human eye has an enormous ability to notice the subtlest nuances. As does the PENTAX K20D. Until now it has been difficult for any camera, whether digital or film, to capture large differences in contrast. The face of a backlit person for example; or the surface detail of a bright object in front of a dark background. Thanks to the new PENTAX Dynamic Range Enlargement your images will take a major step forward, extending the recordable contrast range. Basically, this assures that there is proper highlight control for the bright areas and sufficient light for the darker areas – almost as if you were making a double exposure. The result: more modulation within the dark ranges and more detail in the bright portions. You'll immediately see a substantial increase in spatiality and tension in your photos.



MAKING THE MOST OF THE MOMENT.

Creativity covers a broad spectrum. That is why the PENTAX K20D features all you need to work your way and offer huge potential. Exposure metering, focusing, data management – the camera is always ready to capture your ideas with speed and absolute precision.



THE DRIVING FORCE: PENTAX PRIME.

In order to harness the power of the 14.6 megapixel image sensor, the tried and tested PENTAX PRIME (PENTAX Real Image Engine) processor is at the heart of the K20D. It controls all processes of image development and recording to memory. Digital data flow-rate of up to 800 Mb/sec. provides for extremely fast processing and uncompromised image quality. (The latter, by the way, in conjunction with the equally newly updated 14-bit analogue-to-digital converter.) The aim of perfect image quality with the lowest possible noise tipped the scales in favour of the 14-bit technology used in the K20D. The A/D converter provides images in both JPEG-format (8 bit colour depth) and RAW data (12 bit colour depth) with "more information than necessary" and provides for absolutely brilliant results.

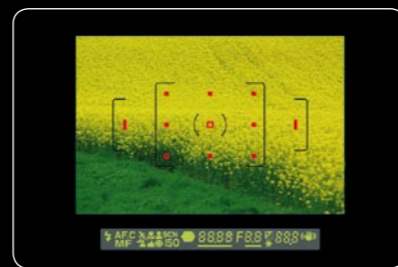
11 PRECISION POINTS: THE AUTOFOCUS SYSTEM.



Precise focus is crucial for maximum expressional impact of a photo. The K20D works with an 11-point autofocus system. In the automatic mode the camera recognizes the nearest object and focuses on it. Alternatively, each of the 11 focus points can be individually selected in order to customise the screen display to your own preferred way of working. Additionally, it's also possible to set the focus point to the centre of the frame.

In A.F.C autofocus mode the focus continuously adjusts as the subject moves. With certain lenses the focus can be adjusted manually in automatic mode or you can simply switch to manual for full control. In either case the 9 cross and 2 vertical sensors provide bitingly sharp results.

A special highlight: The K20D permits front/back focus correction. This function – previously found only in professional DSLRs – makes the most of your lenses. It can be used to adjust and correct the focus point for individual lenses, or lenses designed for film cameras.



PRECISE ILLUMINATION: EXPOSURE MEASUREMENT.

A camera's exposure system is fundamental to its ultimate performance. The K20D analyses the light with 16 separate metering segments. This provides a precise balance of the light-to-dark ranges of the scene, assuring optimum exposure for each photo. Again, flexibility is provided as the K20D also offers both centre-weighted and spot metering. Exposure metering can also be combined with the focussing distance when necessary.

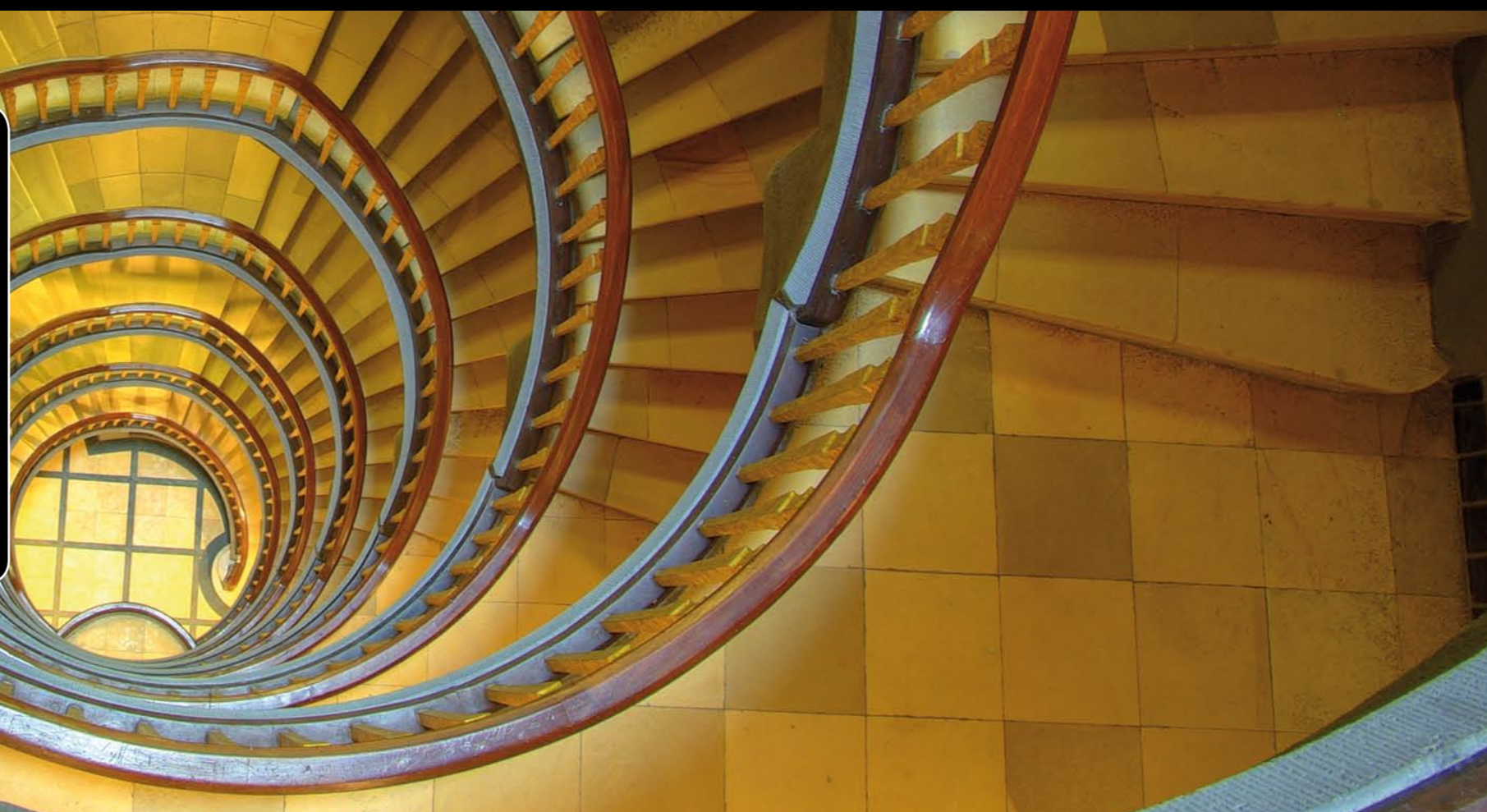
AMAZING NOISE: EXTENDED ISO RANGE.

The ISO range of the K20D covers an expanded ISO range of between ISO 100 and ISO 6,400 – with extremely low noise. In conjunction with the work on the 14.6-megapixel CMOS sensor, the PENTAX developers considered every design nuance in order to progress their goal of ultimate noise reduction. Even the electronic components of the camera were physically laid out so that their effect as noise sources would be minimal. The result is brilliant images in any critical lighting situation.

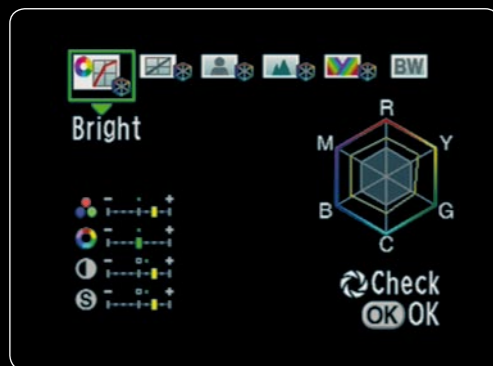
There are numerous options for choosing the ISO value. The camera can automatically select a suitable ISO sensitivity and there is also the option of setting an ISO range with minimum and maximum values. Of course, sensitivity can be set manually, with intermediate value settings possible. And finally SV-Automatic, or Sensitivity-Priority Mode, can be selected. In this mode the ISO sensitivity can be changed with the control dial at any time – shot by shot – with the camera automatically selecting the correct aperture and shutter speed. With all its variations and in any of the selected modes the ISO value is clearly indicated in the viewfinder.

LIGHT IS THE PLAY. YOU ARE THE DIRECTOR.

As a photographer you know the importance light plays in the success of your photography. The difference in time of day, angle of view, quality of light all have the potential to dramatically alter the final image. Just sit and watch, and wait. Then choose your moment.



EMOTION AND DECISION: COMPREHENSIVE COLOUR MANAGEMENT.



Colour management through Custom Image

Strong, vivid colours or a natural hue with muted contrast – the optimum basic colour mood is very much an individual preference. You can alter the colour balance to meet your concept of the image, so the PENTAX K20D offers a number of options to match your individual style. Altogether six colour dynamics settings can be preselected in the Custom Image function. The selections available include "natural", "vivid", "bright" and "monochrome" (black-and-white); additionally there are colour refinements particularly suited to landscape and portraits. The monochrome mode also offers extensive filtering options as well as various tone selections.



Mode: Natural



Mode: Vivid



Mode: Bright

ESTABLISH THE ATMOSPHERE: WHITE BALANCE.

Proper colour balance depends on white balance: with the K20D you can either let the camera set this automatically or you can manually enter your own preference. The K20D assesses the colour temperature in 100 Kelvin or 20 Mired steps. If that isn't enough then you can further fine-tune the colour temperature value. Use the preview function to show the result of your adjustment. Colour temperature can be saved as three individual settings. Colour space is just as easily selected. Select Adobe® RGB (best for electronic image processing and copying) or S-RGB standard (best for printing).

TRY IT, DON'T SPECULATE: BRACKETING.

It is sometimes difficult for even the most experienced photographers to set the correct exposure. This is where exposure bracketing comes into play. Taking either 3 or 5 consecutive exposures, each set to over and under exposure, leaves you secure in the knowledge that you've got the shot exactly right. And if that's not enough the camera also offers the option of other bracketing modes, including white balance, focus, colour saturation and contrast. A small but fine detail is that to shoot a bracketed sequence, whether for three or five exposures, you only have to press the shutter release once.



Bracketing: Contrast



Bracketing: White balance





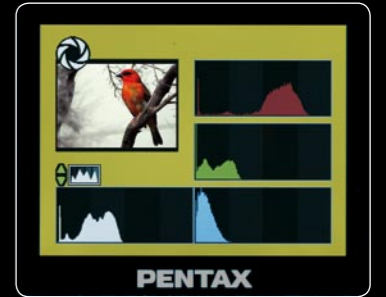
THE BEST DEVELOPED.

Real quality is found in the small details. It's something that you can feel. The developers of the PENTAX K20D knew this and developed a camera for people much like themselves. People with a passion: a passion for photography.

PERFECT PREVIEW? JUST SAVE IT.

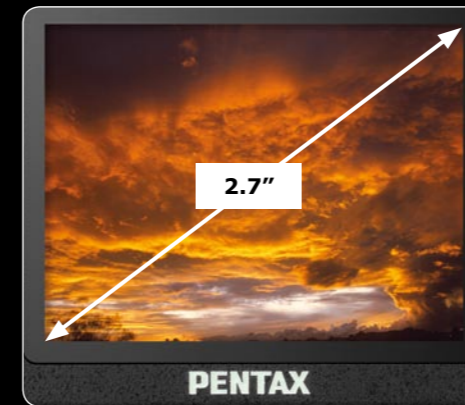
The digital preview allows you to examine the shot to make sure all parameters are exactly right for perfect result. All the critical parameters can be analysed on the large 2.7" monitor: you can alter the white balance, contrast or saturation and see how the photo changes immediately. The preview picture image can be also be magnified for a more critical evaluation. The RGB histogram and the over- and under-exposure warnings are clearly displayed, to help even further.

Often enough the first preview shot is the one that you're after. If this were the case, it would be annoying to have to shoot it again to "really" capture it – especially if the lighting has changed. No worry: the K20D lets you store the preview picture, even if you've made some adjustments to the white balance! At present only PENTAX offers this function.



THE INTELLIGENT CAMERA ADAPTS: CALIBRATE THE WIDE ANGLE MONITOR.

The 2.7" (6.9cm) LCD monitor screen fills the rear of the K20D body. With its 230,000 dots, the screen provides a razor-sharp image with a viewing angle of up to 160°. However, the biggest advantage is that the colour balance of the TFT display can be calibrated precisely. This enables you, for example, to guarantee that the colours on the monitor correspond to the colour settings of your printer right from the outset. Additionally, the monitor of the K20D can be adapted to different lighting situations.



An optimally adjusted monitor is crucial for evaluating a photograph. With carefully designed features, such as 32x magnification and the grid overlay, the K20D's monitor gives the photographer fine control over his work.

THE BIGGER PICTURE: INDIVIDUAL FILE NAMES.

Would you like to separate your landscape photographs from your portraits with ease? Or find your holiday photos in an instant? No problem. The K20D allows you to assign specific file names to your photos, making it much easier and quicker to identify pictures. You can manually input a file name with a combination of up to 4 letters and/or numbers.

EVERYTHING IS CLEAR: INNOVATIVE MENU LAYOUT.

A large range of features normally results in an overly extensive camera menu. To make the options much clearer and easier to read, the selection bar of the K20D functions menu acts like a magnifying glass. The size of the active selection increases by around 150%. Also, words that are abbreviated on the menu are fully spelled out when selected.

LOWER COMPRESSION, BETTER PHOTOS: FILE FORMAT CHOICES.

The RAW data of your digital image is just like your negatives or slides from the film age. Instead of conventional RAW files, which can only be worked on with the specific manufacturers' software, the K20D can alternatively store your photos in DNG format that is compatible with Adobe Photoshop®. For simpler applications or for archiving, you can select compressed JPEG format. Four quality settings can be selected: Good, Better, Best, and Premium.

MAXIMUM CONTROL MINIMUM EFFORT.

Innovative technology not only gives more choice, but also simplicity and ease. It is so easy to become an expert in light with the PENTAX K20D.



SO SIMPLE, SO HELPFUL: EXPOSURE CONTROL.



The PENTAX Hyper Program, or extended program shift function creates a freedom that no other camera can offer. When the mode dial is set to "P", the camera is in Program mode: shutter speed and aperture are selected automatically. With a turn of the front input dial you can instantly change the automatically selected shutter speed and the camera will automatically select the correct aperture, and you have switched to shutter priority. Turning the rear dial changes the aperture and the camera adjusts the shutter speed accordingly – aperture priority. A simple push of the button and the camera jumps back to Program mode.

There is plenty of choice when it comes to automatic modes. The Sensitivity Priority (Sv) mode calculates shutter speed and aperture on based on a chosen ISO value. Shutter Priority (Tv) mode sets the optimum aperture for your chosen exposure time. Aperture Priority (Av) mode sets the correct shutter speed for the selected aperture. Shutter and Aperture Priority (TAv) mode calculates the ideal sensitivity range based on the selected shutter speed/aperture combination. In the USER mode you can set your own exposure mode and camera focusing preferences. Furthermore, the functions of the front and rear input dials are fully programmable.

A BUTTON WITH A BRAIN: THE PROGRAMMABLE RAW BUTTON.

One of the most popular features of the K10D is the direct RAW button. The K20D's RAW Button is now fully programmable. You can specify which configuration is used when the button is pressed, and choose between these useful options: save in RAW format, as RAW and JPEG formats or only as JPEG. The default mode when the camera is switched on is just as easy to set. If required, the camera will maintain its settings after switching off.

INSTANT RAW DEVELOPMENT: PROCESSING PICTURES IN CAMERA.

Image processing begins when the picture is taken. However, before releasing the shutter the photographer can decide whether the picture tone is natural, vivid or bright. Other parameters, such as saturation, sharpness, contrast and colour can also be precisely adjusted and stored according to the photographer's preferences. Photos recorded in RAW can be worked on directly in camera and then stored as JPEG files. The following parameters can be changed during in-camera development: resolution, compression, white balance, sensitivity, chroma, saturation, sharpness and contrast. An additional useful tool is digital filters. Whether for colour photography or for black and white, the PENTAX K20D offers a wide selection of adjustments.

TIMELAPSE MADE EASY: THE INTERVALOMETER FUNCTION.

The movement of the sun over the sky, the blossoming of a flower, the changes in a crowded square over the course of the day – the world provides numerous situations that lend themselves to a series of photos. The PENTAX K20D offers a unique Interval timer function that allows you to shoot a series of photos at set intervals. Up to 99 images can be taken at intervals between one second and 24 hours.

THE NEXT STEP: PHOTO BROWSER AND PHOTO LABORATORY.

Digital photography also encompasses image management and image processing. You are no doubt quite experienced at doing on your own computer what used to be done by specialist retouchers in the darkroom. With the new PENTAX PHOTO Browser you can easily transfer, organise, manage and store your pictures directly on the hard drive of your computer. With the new PENTAX PHOTO Laboratory have you a tool that pushes to the limit the ability of your camera to render detail. The software reads universal DNG format as well as PENTAX RAW files so that you can get the best out of your pictures with a choice of software. You can influence and control white balance, colour intensity, exposure and make classical image edits such as the correction of converging lines – and much, much more. The result: brilliant and tonally rich photographs.

ULTIMATE OPTICS.

Photography is all about seeing. The way you see the world is enhanced with the quality of the lens you look through, and with PENTAX that quality is our utmost priority.

A POWERFUL COMBINATION: LENS AND SLR CAMERA.

In photography everything depends on the best use of the light available and this is exactly the task of a lens. The lens determines just how good the entire optical system will be and substantially determines the quality of the resulting photograph. PENTAX offers a range of lenses with outstanding optical characteristics as well as innovative technology. Our SLR cameras rank among the best in the market, complementing perfectly each component of the PENTAX imaging system. Lens and SLR body development are precisely co-ordinated so each works in harmony with the other.

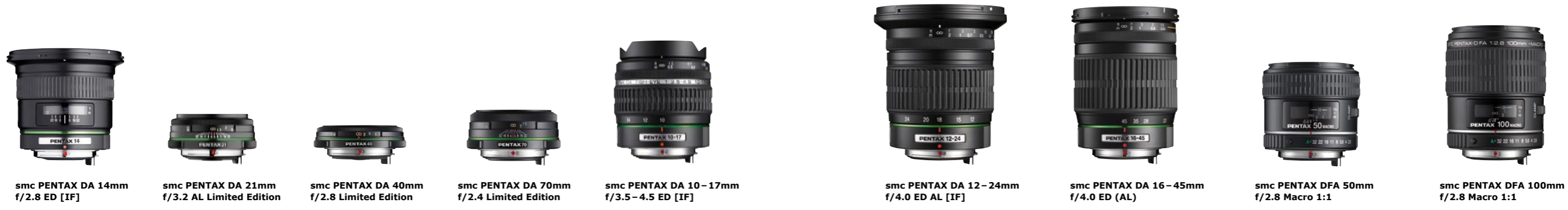
The newest generation of PENTAX DA* lenses feature SDM (Supersonic Direct-drive Motor) ultrasonic drive. The autofocus capability of this lens range is highly precise, ultra fast and especially quiet. A practical advantage of the DA* lenses is protection against dust and water. Together with the inner focusing design these lenses achieve a remarkable level of operational ease.

A number of new lenses accompany the release of the K20D. PENTAX now has one of the most extensive ranges of digitally optimised lenses.

smc PENTAX DA* 200MM F/2.8 ED [IF] SDM smc PENTAX DA* 300MM F/4.0 ED [IF] SDM

- > Ultimate DA* lens quality
- > Ultra fast and quiet focussing
- > Part of a range of first class telephoto lenses with ultrasonic autofocus
- > High quality ED lens elements for brilliant image quality
- > Inner focussing for outstanding handling comfort
- > Protected against water, dust and dirt
- > Dirt-resistant PENTAX SP coating on front lens element
- > Dual autofocus
- > Tripod adapter (PENTAX DA* 300 mm f/4.0 ED [IF] SDM only)





smc PENTAX DA 18-55MM F/3.5-5.6 AL II
smc PENTAX DA 55-300MM F/4-5.8 ED

- > Powerful standard zoom lenses
- > Focal length of 28-83mm and 85-450mm respectively (35mm film equivalent)
- > New lenses specially designed for DSLRs
- > Dirt-resistant PENTAX SP Coating on the front lens element
- > Manual focussing via focussing ring



Image likewise only

smc PENTAX DA 18-250MM F/3.5-6.3 ED AL [IF]

- > Enormous zoom range of 18-250mm (28-383mm 35mm film equivalent)
- > All purpose lens: from wide-angle to telephoto
- > Minimum focussing distance 45cm
- > Effective compensation against colour shifts through the use of high-quality aspherical lens elements (AL) and ED lens elements



smc PENTAX DA 35MM F/2.8 MACRO LIMITED EDITION

- > First macro lens of the renowned Limited Range
- > Magnification to 1:1
- > Aluminium tube
- > Built-in lens hood



smc PENTAX DA* 16-50MM F/2.8 ED AL [IF] SDM

- > The ultimate standard zoom lens
- > Ultrasonic autofocus
- > Constant maximum aperture of f/2.8
- > Quick Shift Focus System enables manual focus correction while in autofocus mode
- > Dirt-resistant PENTAX SP Coating on front lens element



smc PENTAX DA* 50-135MM F/2.8 ED [IF] SDM

- > Outstanding zoom lens in the medium telephoto range: 75-205mm (35mm film equivalent)
- > Ultrasonic autofocus
- > First class lens construction with fast constant maximum aperture
- > Inner focussing
- > Dirt-resistant PENTAX SP Coating on front lens element



USE THE RIGHT TOOL FOR THE JOB: INTERCHANGEABLE LENSES.



18mm 21mm 28mm 35mm 43mm 55mm 75mm 120mm 140mm 200mm 300mm 600mm

LENSES – OPTIONALLY AVAILABLE

(To show the equivalent focal length for a film camera, multiply the digital lens's focal length by 1.5. This figure is shown in brackets)

LENS	GROUPS/ ELEMENTS	ANGLE OF VIEW (°)	MINIMUM APERTURE	MIN. FOCUSING DISTANCE	MAG. RATIO.	DIAMETER/ LENGTH	WEIGHT	FILTER SIZE
Lenses designed for digital cameras								
smc PENTAX DA 14mm f/2.8 ED [IF] (21mm)	11/12	90	22	17cm	1:5.3	83.5x69mm	420g	77mm
smc PENTAX DA 21mm f/3.2 AL Limited Edition (32mm)	8/5	68	22	20cm	1:5.9	63x25mm	140g	49mm
smc PENTAX DA 35mm f/2.8 Macro Limited Edition (53mm)	8/9	44	22	13.9cm	1:1	63x46.5mm	215g	49mm
smc PENTAX DA 40mm f/2.8 Limited Edition (60mm)	4/5	39	22	40cm	1:7.7	63x15mm	90g	49mm
smc PENTAX DA 70mm f/2.4 Limited Edition (105mm)	6/8	23	22	70cm	1:8.3	63x26mm	130g	49mm
smc PENTAX DA 10-17mm f/3.5-4.5 ED [IF] Fish-Eye (15-25.5mm)	8/10	180-100	22-32	14cm	1:4.2	68x71.5mm	320g	-
smc PENTAX DA 12-24mm f/4.0 ED AL [IF] (18-36mm)	11/13	99-61	22	30cm	1:8.3	87.5x84mm	430g	77mm
smc PENTAX DA 16-45mm f/4.0 ED (AL) (24-67mm)	10/13	83-35	22	28cm	1:3.8	72x92mm	365g	67mm
smc PENTAX DA 18-55mm f/3.5-5.6 AL II (28-83mm)	8/11	76-29	22-38	25cm	1:2.9	68x67.5mm	220g	52mm
smc PENTAX DA 18-250mm f/3.5-6.3 ED AL [IF] (28-383mm)	13/16	76-6.5	22-45	45cm	1:3.6	75x85.5mm	455g	62mm
smc PENTAX DA 50-200mm f/4.0-5.6 ED (75-300mm)	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 (85-450mm)	8/12	29-5.4	22-32	140cm	1:3.6	71x111.5mm	440g	58mm
smc PENTAX DA* 16-50mm f/2.8 ED AL [IF] SDM (24-75mm)	12/15	83-31.5	22	30cm	1:4.8	84x98.5mm	600g	77mm
smc PENTAX DA* 50-135mm f/2.8 ED [IF] SDM (75-205mm)	14/18	31.5-11.9	22	100cm	1:5.9	76.5x136mm	765g	67mm
smc PENTAX DA* 200mm f/2.8 ED [IF] SDM (300mm)	8/9	8.1	22	120cm	1:5	83x134mm	825g	77mm
smc PENTAX DA* 300mm f/4.0 ED [IF] SDM (450mm)	6/8	5.4	32	140cm	1:4.2	83x184mm	1070g	77mm
Lenses designed for digital and film cameras (digital/film)								
smc PENTAX DFA 50mm f/2.8 Macro 1:1 (75mm)	7/8	47	32	19.5cm	1:1	67.5x60mm	265g	49mm
smc PENTAX DFA 100mm f/2.8 Macro 1:1 (150mm)	8/9	24.5	32	30.3cm	1:1	67.5x80.5mm	345g	49mm
Converters for all cameras without autofocus (usable only in manual focus)								
smc PENTAX A 1.4xS	4/5	-	-	-	-	64.5x21.5mm	145g	-
smc PENTAX A 2xS	6/7	-	-	-	-	64.5x39mm	210g	-
smc PENTAX A 1.4xL	5/5	-	-	-	-	65.5x28.5mm	175g	-
smc PENTAX A 2xL	5/6	-	-	-	-	65.5x63mm	255g	-
smc PENTAX F 1.7x Autofocus adapter	4/6	-	-	-	-	64x26mm	135g	-

A FLASH OF INSPIRATION.

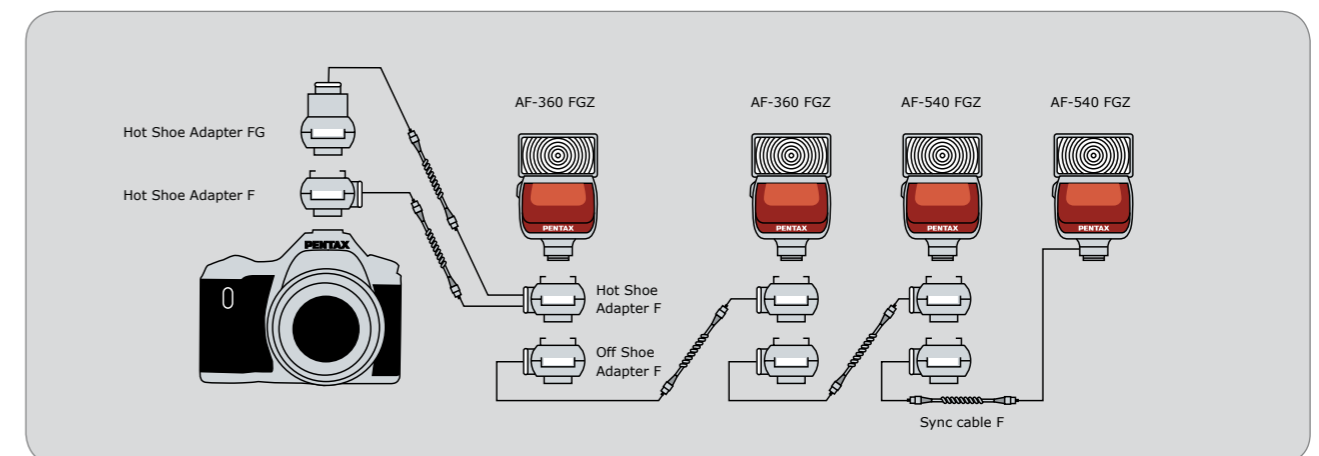
Sometimes available light just isn't enough. PENTAX has developed efficient flashguns that supply accurate, consistent light for those situations where ambient falls short.



LIGHT TO GO.

Sufficient light is a pre-requisite for successful photography. Because a significant proportion of photographic situations are in poor lighting conditions PENTAX has developed efficient flashguns that supply accurate, consistent light for you in any situation. Seamless communication between your PENTAX digital SLR camera and its PENTAX flashgun makes it possible.

For the K20D we recommend the AF-360 FGZ or AF-200 FG as a standard general purpose flashgun, while the AF-540 FGZ, the top range model, offers, among other things, a high guide number, bounce and swivel flash head as well as a rapid recycling time. With a flash sync socket on the side of the camera body the K20D is also ready to link up with high-quality studio lighting units.



With the PENTAX flash accessories a number of flashguns can be connected together for extra flexibility. A few possible combinations are shown here.

THE IMPRESSIVE WORLD OF PENTAX DSLR SYSTEM ACCESSORIES.

The shoot will go much better with seamless integration between camera, lens and accessories, and that is precisely what you get with PENTAX cameras, lenses and flashes, plus the extensive accessory range available from PENTAX.

FLASH ACCESSORIES



HOT SHOE ADAPTER F
The Hot Shoe Adapter F is particularly suitable for the digital SLRs, as well as SF- and Z-series cameras and the FTZ- and FGZ series flashguns. It connects a sync cable to a flash unit. 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 series flashes. 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.

CASES AND OTHER USEFUL ACCESSORIES



BATTERY GRIP
The PENTAX Battery Grip D-BG2 attaches to the base of the K20D, improving handling, and, with an extra (optional) Li-Ion battery, doubles the number of shots available. An additional vertically aligned shutter release, as well as input dials for shutter speed and aperture control, offer vertical shooting with ease.



VIEWFINDER 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 check image details in the viewfinder.



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.



REMOTE CONTROL F
Fire the shutter without touching the camera! The infrared remote control operates the shutter from in front of or behind the camera, up to 5 metres away.



CABLE RELEASE CS-205
The alternative to the IR remote control. This cable release offers smooth exposure release when the camera is mounted on a tripod and has a shutter release lock for long exposures.



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



PRO RUCKSACK
Camera backpack with zipped closure especially designed for photo equipment (camera, two lenses, flash). There is additional space for a laptop and everything else you'd need for a day out.



NYLON CASE
You don't always need all your equipment. Very often just the camera and standard lens will suffice. This compact case ensures the camera is well protected during transport.



ALUMINIUM CASE
Do you need a safe place for all your equipment? Nothing offers more than an aluminum case. Adjustable rigid partitions provide optimum spacing and guarantee that everything remains well padded and in place.

TECHNICAL DATA

You may find additional technical data on the Internet at www.pentax.com

TYPE	Digital SLR camera with interchangeable lenses TTL metering and integrated P-TTL automatic flash, Metal chassis with fibre-reinforced polycarbonate body	EXPOSURE	Exposure compensation: ±3EV (1/2EV steps), ±2EV (1/3EV steps), Sensitivity: automatic, manually selectable (ISO 100, 200, 400, 800, 1,600, 3,200, 6,400)
CCD	23.4x15.6mm CMOS Sensor with primary colour filter 15.07 Megapixel – total 14.6 Megapixel – effective Opto-magnetical 3D sensor with Shake Reduction function	DRIVE MODES	Single, Continuous (Hi/Low) (2.8fps, 38 JPEG images (Hi), 16 RAW images), Auto Bracketing, Self Timer 12 or 2sec. (with mirror lock up), IR remote control instant or 3sec. delay
LENS MOUNT	K _{AF2} bayonet, compatible with K _{AF2} , K _{AF} , K _A lens mounts, K _{AF} power zoom function available, K- lens mounts with restrictions, M42 and medium format lenses with adapter are mechanically compatible* and control	FLASH	Built-in P-TTL Automatic Flash with automatic operation in low light conditions, guide number 13 at ISO 100, flash coverage 28mm (35mm equivalent) hotshoe on camera top for system flash, flash sync 1/180sec., X-sync (sync connector)
COLOUR DEPTH	3x8 bit in JPEG, 3x12 bit in RAW, (internal 3x14 bit)	CUSTOM IMAGE	5 selectable colour profiles, as well as black & white photograph function with various filter options
IMAGE FORMATS/RESOLUTION	RAW: (PEF, DNG), JPEG (Exif 2.21), DCF JPEG: 14.6 MP (4,672x3,120), 10 MP (3,872x2,592), 6 MP (3,008x2,000), 2 MP (1,824x1,216) (JPEG baseline in quality steps of Premium, Best, Better, Good) RAW: 14.6 MP (4,688x3,120)	WHITE BALANCE	Automatic or manual, Daylight, Shade, Cloudy, Tungsten light, Fluorescent light (W, D, N), Flash, manual balance, 3 different settings for Kelvin and Mired values with fine adjustments
MEMORY	SD, SDHC card	DIGITAL FILTERS	Black & White (4 choices), Sepia (3 choices), 18 colour, Colour extracting (6 choices), Image Format Size (6 choices), Soft focus (3 choices), Illustration, HDR (3 choices), Slim filter (+/-8 choices), and Playback Brightness
VIEWFINDER	Built-in pentaprism finder with a 95% field of view and 0.95x magnification (with 50mm f/1.4 lens, infinity, -1m ⁻¹), with interchangeable Natural Bright Matt II focusing screen Dioptre correction -2.5 – +1.5 dpt.	PRINT OPTIONS	DPOF (Digital Print Order Form), Print Image Matching III, PictBridge
MONITOR	2.7" low-temperature polysilicon TFT Colour LCD Monitor with 230,000 dots, brightness control, colour calibration, background lighting, wide viewing angle (approx. 160°), nine-image and single image review with 32x magnification, Hot Spot indicator and Histogram display with RGB channel indicators (also in Preview function), automatic image rotation for orientation viewing	MENU LANGUAGES	19 languages, including GB, D, F, E, I
PREVIEW	Live View (TTL via image sensor), grid overlay available, optical depth of field preview, digital preview on LCD monitor	CAMERA OPTIONS	Dust Alert, Shake Reduction, Intervalometer
FOCUS	TTL Phase Matching with 11 focus points (SAFOX VIII) with viewfinder indications adjustable between automatic and manual focus point selection, spot focus. Support for lenses with supersonic focusing motors. Manual focus	POWER REQUIREMENTS	Rechargeable Li-Ion battery D-LI50, Battery Grip D-BG2 for D-LI50 with vertical shutter release, AC mains adapter (available optionally)
EXPOSURE MODES	Program Automatic 1/4,000 – 30sec., User Program, Program Automatic (Hyper Program), Sensitivity Priority, ISO Automatic, Aperture Priority, Shutter Priority, Green Mode, Manual and Bulb	DIMENSIONS	141.5x101x70 mm (WxHxD)
METERING SYSTEM	TTL open-aperture 16-segment metering coupled with lens and AF information, adjustable between multi-segment, centre-weighted and spot metering	WEIGHT	715g (without battery or card)
		SYSTEM REQUIREMENTS	PC: Windows XP, Vista Mac: OS X 10.2 or higher
		CONNECTIVITY	USB 2.0, AV connector (compatible with NTSC or PAL)
		STANDARD ACCESSORIES	AV Cable I-IVC28 USB Cable I-USB17 Shoulder strap O-ST53 Body cap Eyepiece cap ME Eye cup FP Hot shoe cover FK 1x rechargeable Li-Ion battery D-LI50 Battery Charger D-BC50 Software S-SW74 Software S-SW75

*Due to the high resolution of the camera and the absence of some or all electronic contacts on various lens mounts, no statement can be made regarding the actual function range of individual lenses.

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

As of January 2008

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