RICOH
imagine. change.

PENTAX KP

PENTAX KP

HD PENTAX-DA40mmF2.8 Limited Aperture:F6.3; Shutter speed:1/100sec; Exposure compensation:-1.3EV; Sensitivity:ISO 800; White balance:CTE; Custom image:Natural | SPAIN/Madrid Photo:Yukio Uchida

The PENTAX KP captures moments of wonder and excitement in magnificent, high-resolution images

The world is full of wonders, like the beautiful, breathtaking scenes and exciting, delightful moments you come across. The PENTAX KP captures these once-in-a-lifetime moments, faithfully and beautifully.

Its compact body is packed with state-of-the-art technologies including a high-performance optical viewfinder. It is also extremely resistant to environmental factors: rain, snow and freezing temperatures. Most of all, it boasts overwhelming image power, supported by approximately 24.3 effective megapixels and a top sensitivity of ISO 819200.

Regardless of time or location, the PENTAX KP is a new-generation digital SLR camera that captures the beautiful, fascinating moments, anywhere in the world you might be. It delivers true beauty of the world in high-quality digital images.

PENTAX KP Black
HD PENTAX-DA 15mmF4 ED AL Limited Black

PENTAX KP Silver
HD PENTAX-DA 70mmF2.4 Limited Silver

PENTAX
KP

HD PENTAX-DA20-40mmF2.8-4ED Limited DC WR Aperture:F4.0; Shutter speed:1/80sec; Exposure compensation:-0.7EV; Sensitivity:ISO 800; White balance:AUTO WB; Custom image:Bright I SPAIN/Madrid Photo:Adrian Morris

Upper HD PENTAX-DA16-85mmF3.5-5.6ED DC WR Aperture:F7.1; Shutter speed:1/250sec; Exposure compensation:-1.0EV; Sensitivity:ISO 800; White balance:Daylight; Custom image:Reversal Film | SPAIN/Madrid
Lower HD PENTAX-DA70mmF2.4 Limited Aperture:F5.6; Shutter speed:1/320sec; Exposure compensation:+0.3EV; Sensitivity:ISO 200; White balance:AUTO WB; Custom image:Portrait | ITALY/Rome

Photo:Yukio Uchida

HD PENTAX-DA16-85mmF3.5-5.6ED DC WR Aperture:F4.5; Shutter speed:1/100sec; Exposure compensation:-0.3EV; Sensitivity:ISO 200; White balance:Multi Auto WB; Custom image:Landscape | SPAIN/Toledo

Photo:Yukio Uchida

Upper HD PENTAX-DA21mmF3.2AL Limited Aperture:F8.0; Shutter speed:1/500sec; Exposure compensation:0.0EV; Sensitivity:ISO 400; White balance:AUTO WB; Custom image:Bright | FRANCE/Paris
Middle HD PENTAX-DA21mmF3.2AL Limited Aperture:F3.2; Shutter speed:1/1406sec; Exposure compensation:0.0EV; Sensitivity:ISO 3200; White balance:AUTO WB; Custom image:Natural | FRANCE/Paris
Lower HD PENTAX-DA21mmF3.2AL Limited Aperture:F8.0; Shutter speed:1/640sec; Exposure compensation:0.0EV; Sensitivity:ISO 400; White balance:Daylight; Custom image:Natural | FRANCE/Paris

Photo:Julien Legrand

Upper HD PENTAX-DA20-40mmF2.8-4ED Limited DC WR Aperture:F4.0; Shutter speed:1/60sec; Exposure compensation:-1.0EV; Sensitivity:ISO 1600; White balance:AUTO WB; Custom image:Bright | SPAIN/Madrid
Lower HD PENTAX-DA21mmF3.2AL Limited Aperture:F4.0; Shutter speed:1/4000sec; Exposure compensation:-0.7EV; Sensitivity:ISO 200; White balance:AUTO WB; Custom image:Bright | SPAIN/Madrid

Photo:Adrian Morris


PENTAX
KP
SR
HD PENTAX-DA 1:4.0-6 20-40mm ED Limited DC WR 9601839 ø55mm


AUTO
HDR
C1
C2
C3
AE
F×3
40 35 30 25 20
∞ 5 2 1.5 0.6
32 22 16 8.4 4.8 16 22 32

Superiority

Capture the world in your own style, using the PENTAX KP's advanced features

ISO 819200 NEW

The PENTAX KP couples a new-generation CMOS image sensor with the PRIME IV imaging engine and an accelerator unit to greatly expand the upper limit of the sensitivity range without generating annoying noise. With a top sensitivity of ISO 819200 (standard output sensitivity), it assures super-high-sensitivity photography to deliver high-resolution, rich-gradation images with faithful reproduction of the subject's texture and a sense of depth, even at higher sensitivities. It also produces high-quality images across the entire sensitivity range, from the lowest to the highest.

ISO102400

PRIME IV with accelerator unit NEW

By coupling the PRIME IV imaging engine assuring exceptional data processing performance with an accelerator unit, the PENTAX KP achieves high-level noise reduction, while providing super-high-sensitivity, high-resolution digital imaging flawless and comfortable, high-speed operation.

PRIME IV
PENTAX Real Image Engine IV

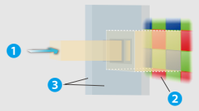
Accelerator unit

AA-filter simulator
PENTAX-original feature to minimize moiré and false colors

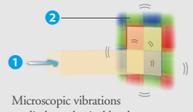
With the help of the SR mechanism, this simulator* applies microscopic vibrations to the image sensor unit during exposure to reduce adverse effects, such as moiré and false colors, to the level generated by an optical AA filter. It lets you choose the desired visual effect based on your subject, between the filtering power of the AA simulator and the exceptional resolving power of an AA-filter-free design.

** This simulator cannot be used in some shooting modes, and doesn't work with some functions.*
** This simulator works most effectively with a shutter speed of 1/1000 second or slower.*

■ Principle of optical AA filter



■ Principle of AA-filter simulator

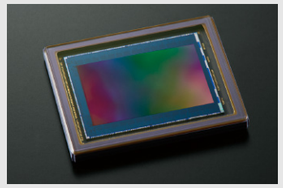


Microscopic vibrations applied at sub-pixel level

1 *Light* 2 *Color filter* 3 *AA filter*

New-generation APS-C-size CMOS image sensor with approximately 24.3 effective megapixels, and optical AA-filter-free design NEW

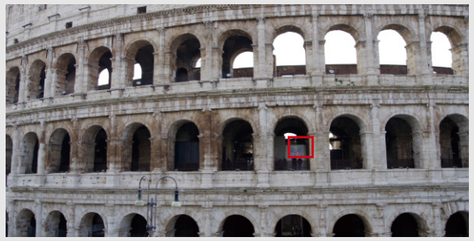
The PENTAX KP incorporates a new-generation APS-C-size CMOS image sensor with approximately 24.32 effective megapixels to produce high-resolution images. It is also designed without an optical AA (anti-aliasing) filter to optimize the image sensor's outstanding imaging power. It delivers sharp, fine-detailed images with a truthful sense of depth.

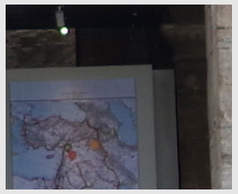


Pixel Shift Resolution System

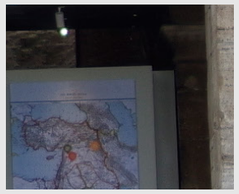
Driven by the camera's in-body SR(Shake-Reduction) mechanism, this innovative system* captures four images of the same scene by shifting the image sensor by a single pixel for each image, then synthesizing them into a single composite image. Since it obtains all color data in each pixel to compose an image, it delivers super-high-resolution images far more truthful than those captured by normal shooting processes. It assures true-to-life color reproduction without false colors,while effectively reducing annoying noise. When the Motion Correction function** is activated, it automatically detects the amount of subject movement during exposure, and minimizes negative effects during the synthesizing process.

** When using this system, we advise stabilizing the camera firmly on a tripod, and to use either the self-timer setting of the drive mode or a mirror lock-up function.*
** * The Motion Correction function may not correct certain types of subject movement. It does not guarantee that movement is properly corrected with all subjects. The user may turn this function off when needed.*





Pixel Shift Resolution : OFF



Pixel Shift Resolution : ON

Compact, slim design

PENTAX has devoted much of its effort to the downsizing of camera bodies. By optimizing the design of internal components and mechanisms, the PENTAX KP packages an array of advanced functions in its compact, slim body to assure simple, carefree shooting not only during daily outings, but also on trips and outdoor activities.

High-precision AE/AF operation at -3EV illumination

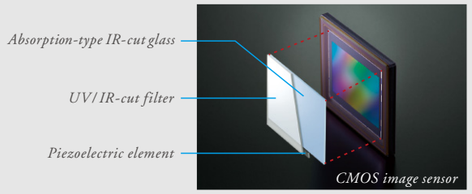
When shooting in the moonlight or candlelight, ordinary autofocus systems can be confused, while manual focusing becomes difficult. Even with low-contrast subjects positioned under dim light, however, the PENTAX KP's advanced auto-exposure, autofocus system captures the subject in sharp focus and optimum exposure.* Coupled with a super-high top sensitivity of ISO819200, it allows you to capture well-defined, sharply focused images of low-lit scenes, without resorting to manual operation.

** AF performance measured at ISO 100, at room temperature and with 25 middle sensors; AE performance measured at ISO100 and with a 50mm F1.4 lens.*

DR II (Dust Removal II) mechanism

DR II Dust Removal II

One of the greatest advantages of an SLR camera is the ability to change lenses. By applying ultrasonic vibrations generated by a piezoelectric element to the optical glass panel placed in front of the image sensor, this mechanism effectively removes dust particles clinging to the image sensor surface, and prevents annoying dust spots from appearing on captured images — even when you change lenses at dusty outdoor locations.



Dustproof, weather-resistant construction

AW All Weather WR Weather Resistant

The PENTAX KP's body features 67 sealing parts to prevent the intrusion of water and dust into the interior. By mounting an AW- or WR-series lens,* it creates a highly airtight digital imaging system to assure dependable performance even under poor weather conditions.

** AW stands for All Weather (dustproof and weather-resistant construction), while WR stands for Weather Resistant (simplified weather-resistant construction).*

Extra-durable, high-rigidity body

The PENTAX KP's exterior casing is made of a highly rigid, lightweight magnesium alloy with remarkable durability and outstanding electromagnetic-shielding performance. Coupled with a high-rigidity, corrosion-resistant metallic chassis, it forms an extremely durable, dependable body structure.

Excellent cold-resistant performance at -10°C

Anticipating use in the bitter-cold winter or at high-latitude, low-temperature locations, PENTAX has subjected the PENTAX KP to exacting environmental tests at temperatures as low as -10°C, and gathered a vast amount of data on operational precision, response and stability, as well as fluctuations in battery voltage.* As the result, it guarantees solid, trouble-free operation in creating accurate records of valuable scenes.

** Battery performance declinesas the temperature goes down. When shooting in cold environments, the user is advised to carry spare batteries and keep them warm by storing them in an inside pocket.*

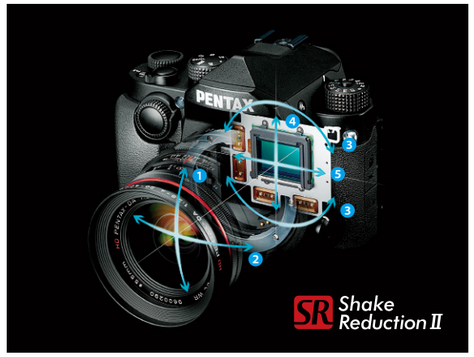
Versatility

Discover new shutter chances of the world with the PENTAX KP

SR II five-axis shake reduction mechanism with five shutter-step compensation

The PENTAX KP compensates for camera shake that the photographer's skills alone cannot correct. Its SR II (Shake Reduction II) five-axis mechanism assures optimum compensation not only for common camera shake caused by pitch and yaw, but also for camera shake caused by horizontal and vertical shift (often generated in macro photography), and that caused by roll, which is difficult to handle by lens-installed shake reduction mechanisms. Thanks to a wide compensation range of five shutter steps,* it assists you in handheld shooting which previously required use of a tripod, and captures sharp, blur-free images. It assures solid shake-reduction performance with all types of lenses, and is even compatible with panning shots.

** Measured in conformity to CIPA standards, using the smc PENTAX-DA 18-135mm F3.5-5.6 ED AL [IF]DC WR lens at a focal length of 135mm.*



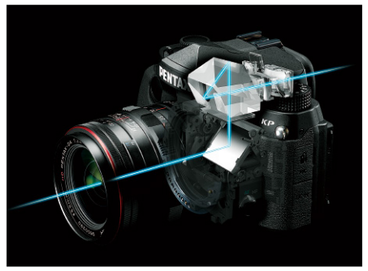
❶❷ *Pitch and yaw* ❸ *Roll* ❹❺ *Horizontal and vertical shift*

Tilt-type LCD monitor with outdoor monitor and red-lighted monitor display functions

The PENTAX KP's LCD monitor features a versatile tilt mechanism; its position can be adjusted to any desired angle for effortless, fatigue-free shooting in high- and low-angle photography. In addition to an Air Gapless structure used to minimize internal reflections, it also features a tempered-glass cover to assure excellent visibility even in sunny outdoor locations, while effectively protecting the monitor from scratches. It even provides two handy features to improve monitor visibility during outdoor shooting: an outdoor monitor function to instantly adjust the monitor's brightness level to the prevailing lighting condition via the Smart Function, and a red-lighted monitor display function to facilitate menu reading in the dark.

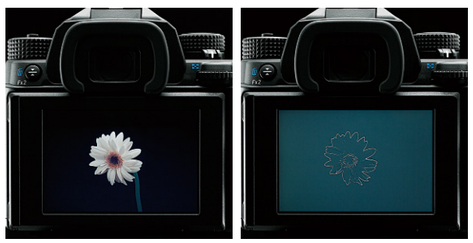
Optical glass-pentaprism viewfinder with nearly 100% field of view

Thanks to its nearly 100-percent field of view, the PENTAX KP's viewfinder provides a large, bright view of the subject almost identical in size to that of the captured image. Its optical design provides a real-time view of the subject, while its glass pentaprism delivers a large, well-defined image field at approximately 0.95-times magnification (with a 50mm F1.4 lens set at infinity). Its Natural Bright Matte III focusing screen makes it easy to identify the in-focus point. This standard focusing screen can be replaced with optional screens to accommodate specialized applications.



Live View image-capture tools

In Live View mode, the PENTAX KP provides a wide range of creative image-capture tools, including Grid Display and Electronic Level (horizontal and vertical tilt indication). Its autofocus system provides the shift, expansion and reduction of the AF area, as well as Face Detection and Auto Tracking functions, making it ideal for portrait photography. In addition to the conventional Highlight Edge function, it also features a new Extract Edge function to emphasize the focused section of the subject' s outline for speedy manual-focus operation.



Normal monitor *Extract Edge*

Auto Horizon Correction and Composition Adjustment

The PENTAX KP assists your image composition with innovative technologies and user-friendly functions. By taking advantage of the SR II mechanism, the Auto Horizon Correction function rotates the image sensor to compensate for the camera's horizontal tilt during handheld shooting. When using a tripod, the Composition Adjustment function makes minute adjustment to image composition by changing the position of the image sensor.

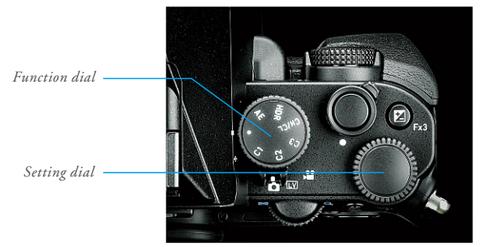
Exchangeable grips NEW

With the PENTAX KP, you can replace the grip to accommodate a particular lens or suit your preference of holding comfort or shooting style.

Grip L (O-GP1672; optional accessory) : Featuring a large body for a firm hold of the camera, this grip is ideal for use with large-aperture telephoto lenses and high-magnification zoom lenses.
Grip M (O-GP1671; optional accessory) : Excelling in portability and holding balance, this grip works well with standard zoom lenses.
Grip S (O-GP167 ; standard accessory) : Sporting a slim body ideal for casual shooting, this grip makes a perfect partner for Limited-series lenses.

Smart Function

The PENTAX-original Smart Function lets you select the desired function through an intuitive, two-dial operation. This innovative system greatly improves the camera's operability by letting you assign the most frequently used functions to three custom positions (C1 to C3) for instant switching.



USER Mode (U1 to U5)

The PENTAX KP accommodates user demands for specific photographic themes and creative intentions. It features a total of five USER Mode settings, to each of which you can assign a combination of desired functions. Four preset combinations are already assigned to U1 to U4,* allowing you to choose the best combination for a given scene or subject, or adjust part of a combination to better serve your purpose.

** Default settings : U1 : HDR landscape, U2 : Macro, U3 : Astrophoto, U4 : Manual lens*

Control button customization

The PENTAX KP provides three Fx buttons, to which you can assign frequently used functions. You can also customize the function of the AF/AE-L button, and assign a different set of functions to the front and rear e-dials and the green button for each exposure mode.

Still-image / LV/ Movie switching lever NEW

The PENTAX KP provides simple lever-action switching for selecting the shooting mode from Still-image, Live View (LV) and Movie. It lets you start a shooting session in the preferred shooting style, or the desired creative settings, the moment the camera's power is turned on.

Electronic Level

The PENTAX KP's Electronic Level detects and displays horizontal slant and vertical tilt, making it easy to accurately level the scene. During viewfinder shooting, it indicates the horizontal tilt on a bar scale, so you can confirm the horizontal alignment of an image without taking your eye off the subject.

ASTROTRACER

The PENTAX KP tracks celestial bodies without an equatorial platform. Based on the data obtained by the GPS unit, it calculates the movement of celestial bodies, then shifts the image sensor in synchronization with their movement. Since it captures stars without a streaking effect even during extended exposures, you can record faint stars as point images.

Shooting

Capture images as seen by the naked eye, or as visualized by your creativity

SAFOX 11 with high-speed AF algorithm

The PENTAX KP features the high-performance SAFOX 11 AF sensor module in its autofocus system. This dependable module features a diffraction lens to effectively compensate for chromatic aberration and assure pinpoint focus on the subject, even under such adverse conditions as when shooting against backlight or photographing high-contrast subjects.

[High-speed AF algorithm] **NEW**

This latest autofocus algorithm assures a faster autofocusing speed than the one used in the conventional SAFOX 11 module, allowing you to react more swiftly and effortlessly to unexpected shutter chances.

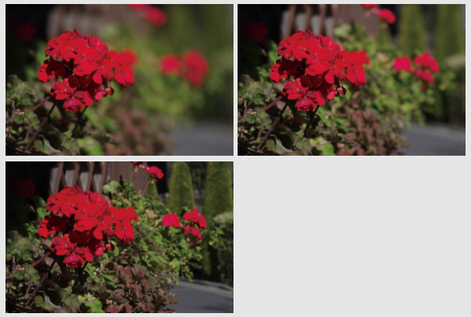
Motion Bracketing **NEW**

This new function continuously captures three images taken at different shutter speeds, while retaining the proper exposure level.

■***Left*** *Aperture:F10; Shutter speed:1/4 sec; Sensitivity:ISO 200*
■***Center*** *Aperture:F4.5; Shutter speed:1/30sec; Sensitivity:ISO 320*
■***Right*** *Aperture:F4.5; Shutter speed:1/250 sec; Sensitivity:ISO 200*

Depth-of-field Bracketing **NEW**

This new function continuously captures three images at different aperture values, while retaining the proper exposure level.

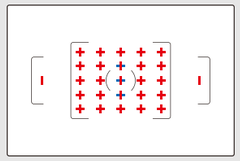


■***Upper left*** *Aperture:F1.8; Shutter speed:1/5000sec; Sensitivity:ISO 100*
■***Upper right*** *Aperture:F5.0; Shutter speed:1/640sec; Sensitivity:ISO 100*
■***Lower left*** *Aperture:F14; Shutter speed:1/125sec; Sensitivity:ISO 200*

27-point AF system (with 25 cross-type sensors)

Featuring 27 sensor points across the image field, the PENTAX KP's sophisticated AF system not only captures the subject in sharp focus, but also automatically refocuses on an active subject when it moves away from the initial point, with the help of neighboring points. Among 27 points, 25 cross-type sensors are positioned in the middle to assure high-precision autofocus operation with all types of subjects.

Cross-type sensor
Linear sensor
F2.8 luminance linear sensor



[F2.8 luminance flux linear AF sensors]

Three center sensors — one in the middle, and two others positioned above and below it — are designed to detect the luminance flux of an F2.8 lens for high-precision autofocusing. When using a very fast lens with a maximum aperture of larger than F2.8, these sensors assure focusing accuracy better than that of other sensors(designed for a F5.6 luminance flux).

[AF area selection]

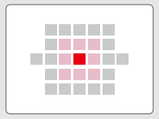
The PENTAX KP lets you select the desired AF area and set it to the desired position in the image field, based on your subject. It provides a choice of AF mode from Auto (27 points), Zone Select (nine points), Select (a use-selected single point), or Spot (the center point). It also features a select-area expansion mode to assist in the shooting of moving subjects.

•Zone Select

This mode lets you select a set of nine points forming a square zone, which can be shifted to the desired position by moving the center point. It detects a subject placed within this zone, captures it in pinpoint focus, and even tracks its movement — all automatically.

•Select-area expansion

When you select one of the 27 sensor points, this function captures the subject in sharp focus using that point. When the subject moves away, it automatically tracks its movement and refocuses on it,with the help of neighboring points. It provides a choice of expansion area from eight, 24 or 26 points.*



** When the subject moves away from the selected AF area, the number of sensor points used in autofocus operation may be reduced.*

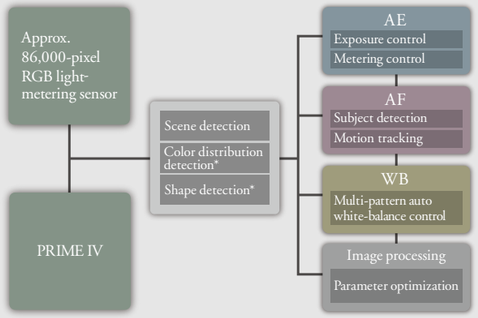
[Auto Tracking]

Supported by the PENTAX Real-time Scene Analysis System, the Auto Tracking function accurately detects the subject's motion based on various factors including color and movement, then keeps pinpoint focus on the subject throughout the imaging process by automatically shifting the in-focus point.*

** This function is available when the camera's AF mode is set to AFC (Continuous AF) or AFA (Auto Select AF).*

PENTAX Real-time Scene Analysis System

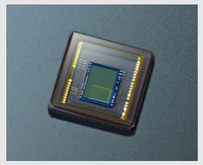
Supported by the PRIME IV imaging engine and the approximately 86,000-pixel RGB light-metering sensor, this system performs high-accuracy, in-depth analysis of each individual scene, and selects the most appropriate finishing touch for a given scene or subject, based on such factors as brightness distribution in the image field, and the subject's shape, color and motion. It also optimizes the accuracy and performance of the camera's auto-exposure and autofocus systems.



** Performed by a deep leaning procces.*

Approximately 86,000-pixel RGB light-metering sensor

The PENTAX KP features an RGB light-metering sensor with approximately 86,000 pixels, which detects the subject's shape, color and motion with great accuracy for extra-accurate scene assessment.



Scene Analyze AUTO

Supported by the PENTAX Real-time Scene Analysis System, this mode automatically optimizes exposure settings, then selects the most appropriate finishing touch for each subject. When using the optical viewfinder, it is also assisted by an algorithm developed by adopting deep learning artificial intelligence technology to perform more complete scene assessment.

Slowest Tv (shutter speed) limit setting in ISO AUTO mode **NEW**

In addition to the conventional AUTO mode, the PENTAX KP also provides a new ISO AUTO mode, which allows you to directly set the limit of the slowest Tv value (shutter speed). This mode allows you to make more minute adjustments in scenes prone to camera shake and subject shake.

Electronically controlled shutter unit with high-speed, noiseless operation and a top speed of 1/24000-second **NEW**

The PENTAX KP provides a choice of mechanical and electronic shutter modes. In the electronic shutter mode,* the shutter unit produces very little noise and vibration during shutter-curtain operation, making it ideal for shooting at locations where silence is required. Since this mode provides a top shutter speed of 1/24000 second, it also comes in handy when you want to use an open aperture in bright, sunny locations. In Live View or mirror lock-up shooting, it provides even quieter, lower-vibration operation.

** The electronic shutter mode can be used with continuous shooting, bracketing, mirror lock-up, and multiple exposure functions.*
** In the electronic shutter mode, the SR mechanism and the AA-filter simulator are inoperable.*
** When shooting a fast-moving subject in the electronic shutter mode, the subject may appear to be distorted.*

High-speed continuous shooting at approximately seven images per second

The PENTAX KP provides high-speed continuous shooting at a top speed of approximately seven images per second. It also lets you choose a speed of approximately 0.8 or three images per second, allowing you to select the speed that best suits the movement of your subject.

Hyper Program and Hyper Manual

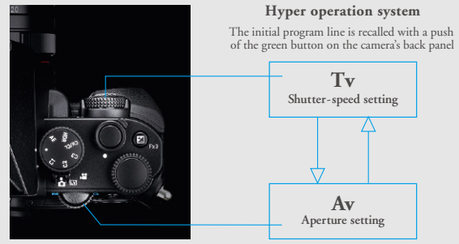
The PENTAX KP features PENTAX-original exposure modes, which lets you express the subject's motion and the depth of field more flexibly.

[Hyper Program mode(P)]

When the camera's exposure mode is set to Program, Hyper Program mode lets you instantly switch to the Aperture-priority or Shutter-priority mode with a single turn of the e-dial, while retaining the proper exposure level. This eliminates the need for switching the mode dial to the Tv or Av position. A push of the green button recalls the initial settings in the Program mode.

[Hyper Manual mode(M)]

When the green button is pressed during manual-exposure operation, the PENTAX KP regards manually selected settings as the proper exposure. By activating the AE-lock function, you can even shift aperture and/or shutter-speed settings while retaining the initial exposure level.



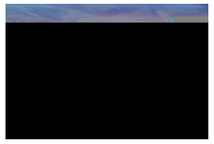
Creativity

Enjoy unlimited creative freedom in digital imaging

HDR (High Dynamic Range)

This function* creates images similar to those detected by the naked eye, by capturing three images taken at different exposure levels and synthesizing them into a single composite image, while minimizing white-washed highlights and pitch-black shadows. It provides a choice of the exposure shift range (±1 EV, ±2 EV and ±3 EV) and the Automatic Position Adjustment function** to correct the misalignment of the three images.

** The HDR function cannot be used in some shooting modes, and is not compatible with some other functions.*
*** The Automatic Position Adjustment function may not be usable under certain shooting conditions.*



HDR OFF *HDR (Type3)*

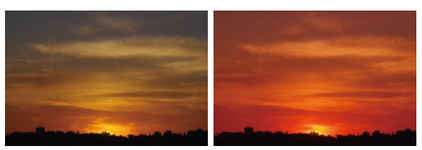
Digital filters

The PENTAX KP provides a choice of nine filters during shooting, and 21 filters during playback, to create unique visual effects for your images. You can apply as many as 20 filters to a single image to create a distinctive, personalized work of art.

Shading *Invert Color*

CTE (Color Temperature Enhancement)

In contrast to the standard Auto White Balance mode, which is designed to suppress the effect of light source color on the image's color reproduction, this unique mode automatically adjusts the white balance setting to emphasize the image's dominant color. It is useful in dramatizing sunrise and sunset scenes, or fresh green leaves in spring.



AWB *CTE*

In-body RAW data development

The PENTAX KP provides in-body development of RAW-format files, and saves them as separate JPEG or TIFF files. This lets you capture desired images more flexibly and creatively, without requiring a computer. Since it provides a wide range of adjustable parameters, you can add the desired finishing touch to your image, regardless of the location.

Custom Image

The Custom Image function* provides 13 distinctive modes to apply the preferred finishing touch to images, based on your subject or creative intentions. Since it lets you adjust various parameters in advance, you can capture images with the desired finishing touch without requiring post-shooting image retouching.

** When the exposure dial is set to AUTO, this function is locked to the Auto Select mode.*

Vibrant

Clarity Control and Skin Tone Correction

The Clarity Control function is very effective in recreating the glossy texture of metals or the transparency of the sky or splashing water. The latest image-processing technology lets you adjust the smoothness of the subject's texture and the image's clarity to the desired level in nine steps (between -4 and +4).

The Skin Tone Correction function* automatically locates the subject's face and detects its skin area, then recreates a natural texture and healthy tone by adjusting the imaging parameters affecting the skin's smoothness and texture. It provides a choice of two settings: Type 1 to adjust color and brightness, and Type 2 to add texture correction.

** This function can be activated only when the camera detects a face.*

Without Skin Tone Correction *With Skin Tone Correction (Type 2)*

4K-resolution Interval Movie

This mode records still images of a slowly changing subject at a fixed interval, then synthesizes them into a single movie file. You can play back the high-quality, 4K-resolution (3840 × 2160 pixels) movie file* as if fast-forwarding it through time on the camera's monitor.

** When playing back the movie file on a device other than the PENTAX KP, the user is advised to use a PC operating environment supporting 4K-resolution movie playback.*

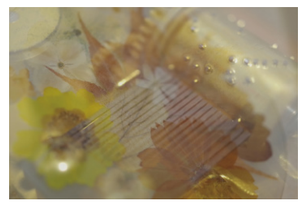
Movie recording

The PENTAX KP captures high-resolution Full HD movie clips by taking full advantage of its lens interchangeability and large image sensor. During movie recording, you can use the Continuous AF (AF.C) mode,* or take advantage of such advanced features as aperture control function, SR mechanism, and creative image-capture tools. You can even record stereo sound by combining the built-in microphone with an external microphone.

** This mode is usable only when the HD PENTAX-DA 55-300mm F4.5-6.3ED PLM WR RE lens is mounted on the PENTAX KP.*

Multiple exposure
(additive, average and comparative brightness modes, with two to 2,000 images)

This function creates a single composite image from two to 2,000 images, with a choice of three synthesis modes: average, additive and comparative brightness. During Live View shooting, it displays a translucent image of already captured images on the camera's LCD monitor, allowing you to make precise alignment of the selected images.



Wi-Fi functions

The PENTAX KP incorporates a Wi-Fi module to support operations using mobile devices such as smartphones and tablets. You can browse captured images,* transmit them to another device, and even upload them onto SNS, blog and image-sharing websites with great ease.

** Image Sync is required for browsing captured images. Refer to the Image Sync section of this brochure for detailed information.*

Image Sync

When installed in a mobile device such as a smartphone or tablet, this dedicated software allows you to operate the PENTAX KP from a distance.* It lets you remotely control camera operations such as exposure setting, focusing, shutter release and image viewing.**

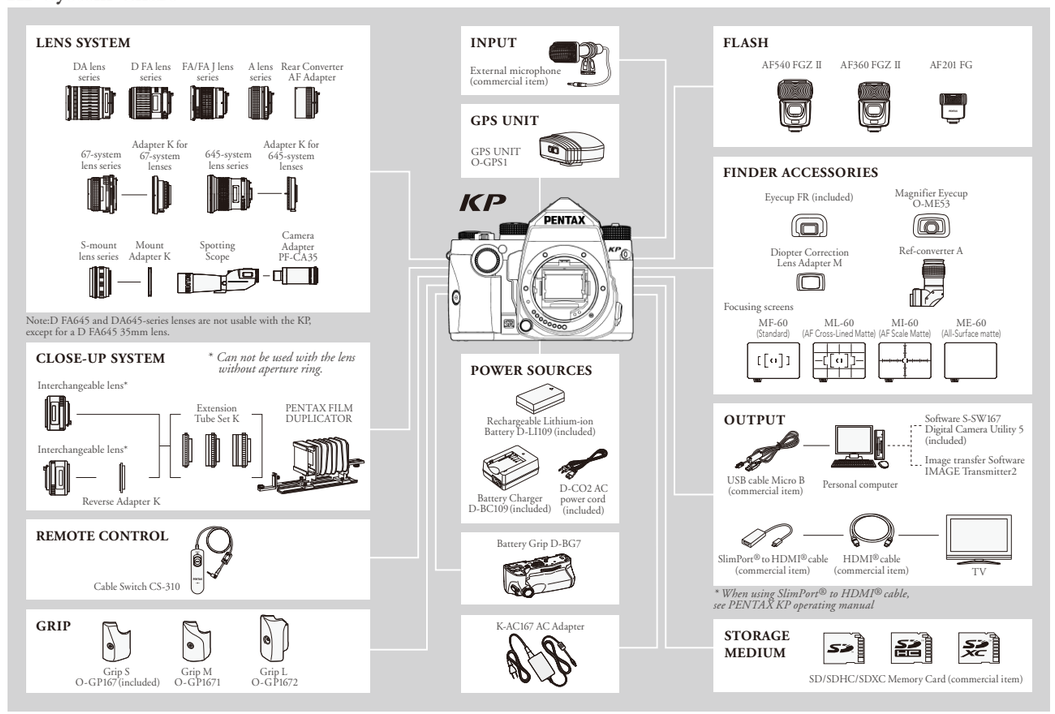
** Image Sync can be downloaded free of charge from the App Store for iPhone models, or Google Play™ for Android™ models.*
*** Access the RICOH IMAGING official website or contact our customer service center for compatible operating systems.*

Digital Camera Utility™ 5

Included in the PENTAX KP package, this software lets you browse through captured images, develop them into RAW-format files and save them as separate JPEG or TIFF files on your computer. Since you can take a closer look at shooting data and make more minute color adjustment on the computer screen, you can take more time in the image-editing process to apply the desired finishing touch to your image.

SILKYPIX®

KP System Chart



** There are limitation when combining lenses and accessories. For details, contact your nearest service center.*

Names and Functions of the Working Parts

Storage capacity ** With 8GB memory card*

[Still]

shots

Recorded Pixels	RAW	JPEG											
	(6016×4000)	L:24M (6016×4000)			M:14M (4608×3072)			S:6M (3072×2048)			XS:2M (1920×1280)		
Quality Level	PEF	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★
8GB	151	527	1192	2339	889	1996	3837	1964	4309	7923	4723	9824	16374

[Movie]

hh:mm:ss

Recorded Pixels	Full HD (1920×1080)					HD (1280×720)	
	60i	50i	30p	25p	24p	60p	50p
8GB	00:32:15	00:38:21	00:32:15	00:38:21	00:39:51	00:32:15	00:38:21

** You can record up to 25min. or 4GB movie for one shooting. * "Testing your camera" refers to confirmed operation by RICOH to the customer.*
** Use a high-speed SD memory card when recording movies. If the writing speed cannot keep up with the recording speed, recording may be interrupted.*

System Requirements

The following system requirements must be met in order to connect the PENTAX KP to a personal computer, and use Digital Camera Utility 5 software on the computer.

[Windows]

- OS:Windows 10 / Windows 8.1 (32bit / 64bit)/ Windows 8 (32bit / 64bit) / Windows 7 (32bit / 64bit)
- CPU:Intel Core 2 Duo or higher
- RAM:4GB or more
- Free Disk Space:Program installation and start-up:100 MB or more of available space Image file saving:Approximately 10 MB per file (JPEG) / approximately 30MB (RAW)
- Monitor:1280 x 1024 dots, 24 bit full-color or more

[Macintosh]

- OS:OS X 10.12 / 10.11 / 10.10 / 10.9 / 10.8 /
- CPU:Intel Core 2 Duo or higher
- RAM:4GB or more
- Free Disk Space:Program installation and start-up:100 MB or more of available space Image file saving:Approximately 10 MB per file (JPEG) / approximately 30MB (RAW)
- Monitor:1280 x 1024 pixels, 24 bit full-color or more

Note: The operation system must be pre-installed in the computer, and updated to the latest version. The system requirements above do not necessarily guarantee proper operation with all computers.

■Tested SD/SDHC/SDXC memory card

[Panasonic/Toshiba/Sandisk]
SD memory card capacity: 1GB, 2GB
SDHC memory card capacity: 4GB, 8GB, 16GB, 32GB
SDXC memory card capacity: 64GB

[Sandisk]
SDXC memory card capacity: 128GB, 256GB, 512GB

January 2017

Specification

Model Description
Type:TTL autofocus, auto-exposure SLR digital-still camera with built-in retractable P-TTL flash **Lens Mount:**PENTAX KAF2 bayonet mount (AF coupler, lens information contacts, K-mount with power contacts) **Compatible Lens:**KAF4, KAF3, KAF2 (power zoom not compatible), KAF, KA mount lens

Image capture unit
Image Sensor: Primary color filter, CMOS. Size: 23.5x 15.6(mm) **Effective Pixels:**Approx. 24.32 megapixels **Total Pixels:**Approx. 24.96 megapixels **Dust Removal:**Image sensor cleaning using ultrasonic vibrations "DR II" **Sensitivity (Standard output):**ISO AUTO / 100 to 819200 (EV steps can be set to 1EV, 1/2EV or 1/3EV) **ISO AUTO Setting:**ISO Range (Maximum), ISO Range (Minimum) ISO Sensitivity Options (AUTO, Tv)Minimum Shutter Speed (AUTO: SLOW / MIDDLE / FAST, TV: 1/6000 to 30 sec.) **Image Stabilizer:**Sensor-shift shake reduction (SR II) **AA Filter Simulator:**Moiré reduction using SR unit. OFF / Type1 / Type2 / Bracket (2 frames) / Bracket (3 frames)

File formats
File format:RAW (PEF / DNG), JPEG (Exif 2.3), DCF2.0 compliantes **Recorded Pixels:**JPEG:L(24M:6016x4000), M(14M:4608x3072), S(6M:3072x2048), XS (2M:1920x1280) RAW:(24M:6016x4000) **Quality Level:**RAW (14bit):PEF, DNG JPEG: ★★★ (Best), ★★ (Better), ★(Good), RAW + JPEG simultaneous capturing available **Color Space:**sRGB, AdobeRGB **Storage Medium:**SD, SDHC and SDXC Memory Card (Conforms to USH-I standards) **Storage Folder:**Folder Name:Date (100_1018,101_1019...) or User assigned folder name (Default "PENTX") **Recording File:**File Name:"IMGP****"or User assigned file name File name numbering: Sequential, Reset

Viewfinder
Type: Pentaprism Finder **Coverage (FOV):**Approx. 100% **Magnification:**Approx. 0.95x (50mmF1.4 at infinity) **Eye-Relief Length:**Approx. 20.5mm (from the view window), Approx. 22.3mm (from the center of lens) **Diopter adjustment:**Approx. -2.5m to +1.5m^{-1} **Focusing Screen:**Interchangeable Natural-Bright-Matte III focusing screen

Live view
Type:TTL method using image sensor **Autofocus:**AF Method: Contrast detection AF Mode: Single AF (AF.S) AF Active Area: Face detection, Tracking, Multiple AF points, Select, Spot Focus Peaking: Highlight Edge/Extract Edge/OFF **Display:** Field of View approx. 100%, Magnified view (up to 16x), Grid Display (4x4 Grid, Golden Section, Scale display, Square 1, Square 2, Grid Color:Black/White), Histogram, Highlight Alert, Composition Adjustment

LCD monitor
Type: Tiltable TFT color LCD monitor featuring an air-gapless structure, tempered-glass front panel **Size:**3.0 inch (aspect ratio 3:2) **Dots:**Approx. 921K dots **Adjustment:**Brightness, Saturation and Colors adjustable **Outdoor View Setting:** Adjustable ±2 step **Night Vision LCD Display:**ON / OFF

White Balance
Type:TTL method using image sensor **White Balance:**AUTO WB, Multi Auto WB, Daylight, Shade, Cloudy, Fluorescent Light (D:Daylight Color, N:Daylight White, W:Cool White, L:Warm White), Tungsten Light, CTE, Manual WB (up to 3 settings), Color Temperature Configuration (up to 3 settings), Copying the white balance setting of a captured image **Fine Adjustment:**Adjustable ±7 steps on A-B axis or G-M axis

Autofocus System
Type:TTL: Phase-matching autofocus **Focus Sensor:**SAFOX 11, 27 point (25 cross type focus points in the center) **Brightness Range:**EV-3 to 18 (ISO 100 / at normal temperature) **AF mode:**Single AF (AF.S), Continuous AF (AF.C), Auto select AF (AF.A) **AF Point Selection:**Auto (27 AF points), Zone select, Select, Expanded Area (S, M, L), Spot **AF Assist Light:**Dedicated LED AF assist light

Metering
Type:TTL open aperture metering using 86K pixel RGB sensor, Multi-segment, Center-weighted and Spot metering **Metering Range:**EV-3 to 20 (ISO100 at 50mm F1.4) **Exposure Mode:**Scene Analyze Auto, Program, Sensitivity Priority, Shutter Priority, Aperture Priority, Shutter & Aperture Priority, Manual, Bulb, USER1, USER2, USER3, USER4, USER5 **EV Compensation:**±5EV (1/2EV steps or 1/3EV steps can be selected) **AE Lock:**Can be assigned to the AF / AE-L button, Fx1 button,Fx2 button,Fx3 button

Shutter
Type: Electronically controlled vertical-run focal plane shutter / Electronic shutter **Shutter Speed:**Mechanical shutter: Auto:1/6000 to 30 sec., Manual: 1/6000 to 30 sec. (1/3EV steps or 1/2EV steps), Bulb (Timed exposure setting possible from 10 sec. to 20min.) Electronic shutter: Auto:1/24000 to 30 sec., Manual: 1/24000 to 30 sec. (1/3EV steps or 1/2EV steps)

Drive modes
Mode Selection:[Still Image] Single Frame, Continuous (H, M, L), Self-timer (12s, 2s, Continuous), Bracketing (2, 3 or 5 frames), Depth of Field Bracketing (3frames), Motion Bracketing (3frames), Mirror-up, Multi-Exposure, Interval Shooting, Interval Composite, Interval Movie Record, Star Stream * Bracketing, Interval Shooting, Interval Composite, Interval Movie Record and Star Stream are possible to use with Self-timer * Depth of Field Bracketing is available in Av mode. Depth of Field Bracketing is possible to use with Self-timer * Motion Bracketing is available in Tv mode. Motion Bracketing is possible to use with Self-timer * Multi-Exposure is possible to use with Continuous Shooting or Self-timer **Continuous Shooting:**Max. approx. 7.0 fps, JPEG (L: ★★★ at Continuous H):up to approx. 28 frames, RAW:up to approx. 8 frames, RAW+:up to approx. 7 frames Max. approx. 3.0 fps, JPEG (L: ★★★ at Continuous M):up to approx. 70 frames, RAW: up to approx. 15 frames, RAW+: up to approx. 10 frames Max. approx. 0.8 fps, JPEG (L: ★★★ at Continuous L):up to approx. 100 frames, RAW: up to approx. 100 frames, RAW+: up to approx. 25 frames* ISO100* Continuous shooting speed slows down with Electoronic shutter or High sensitivity **Multi-Exposure:**Composite Mode(Additive / Average / Bright) Number of Shots (2 to 2000 times) **Interval Shooting:**[Interval Shooting] Interval: 2s. to 24h. / Standby Interval: Min. •1s. to 24h., Number of shots: 2 to 2000 times, Start Interval: Now / Self-timer / Set Time [Interval Composite] Interval: 2s. to 24h. / Standby Interval:Min. •1s. to 24h., Number of shots: 2 to 2000 times, Start Interval: Now / Self-timer / Set Time, Composite Mode: Additive / Average / Bright, Save Process: ON / OFF [Interval Movie] Recorded Pixels:4K / FullHD / HD, File Format: Motion JPEG (AVI), Interval:2s. to 24h. / Standby Interval: Min •1s. to 24h., Number of shots: 8 to 2000 times (8 to 500 times at 4K), Start Interval: Now / Self-timer / Set Time [Star Stream] Recorded Pixels: 4K / FullHD / HD, File Format: Motion JPEG (AVI), Interval:2s. to 24h. / Standby Interval: Min •1s. to 24h., Number of shots: 8 to 2000 times (8 to 500 times at 4K), Start Interval: Now / Self-timer / Set Time, Fade-out: OFF / Low / Medium / High

Flash
Built-in Flash: Built-in retractable P-TTL flash, GN: approx. 6.0 (ISO100/m), Angle of view of 28mm lens (35mm format equivalent) **Flash Modes:**Auto Flash Discharge (Scene Analyze Auto), Auto Flash + Red-eye Reduction (Scene Analyze Auto) Flash On, Flash On+ Red-eye Reduction, Slow-speed Sync, Trailing Curtain Sync, Manual Flash Discharge (Full-1/128), Wireless (Controller) **Sync Speed:**1/180sec. **Flash Exposure Compensation:**-2.0~+1.0EV **External Flash:**P-TTL, Leading Curtain Sync, Trailing Curtain Sync, Contrast-control-sync, High-speed sync, Wireless sync* Contrast-control-sync requires two or more dedicated external flash

Capture Settings
Custom Image: Auto Select, Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Flat, Bleach Bypass, Reversal Film, Monochrome, Cross Processing **Cross Process:**Random, Preset 1-3, Favorite 1-3 **Digital Filter:**Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome **Clarity:**Adjustable ±4 step **Skin Tone:**Type1, Type2, OFF **HDR:**Auto, HDR1, HDR2, HDR3, Advanced HDR, OFF, Exposure bracket value adjustable, Automatic composition correction function **Pixel Shift Resolution:**ON / OFF* Motion Correction ON / OFF **Lens Correction:**Distortion Correction, Peripheral Illumin. Correction, Lateral Chromatic Aberration Correction, Diffraction Correction **D-RANGE Compensation:** Highlight Correction, Shadow Correction **Noise Reduction:**Slow Shutter Speed NR, High-ISO NR **Horizon Correction:**SR ON: Correction up to 1.0 degrees, SR OFF:Correction up to 1.5 degrees **Composition Adjustment:**Adjustment range of ±1mm up, down, left or right (±0.5mm when rotated); Rotating range of ±1 degree **Electronic Level:**Displayed in viewfinder:Horizontal direction only, Displayed on LCD monitor: Horizontal and vertical direction **Program Line:** AUTO, Normal, Hi-speed Priority, DOF Priority (Deep), DOF Priority (Shallow), MTF Priority

Movie
File Format:MPEG-4 AVC / H.264 (MOV) **Recorded Pixels:**Full HD (1920x1080, 60i / 50i / 30p / 25p / 24p) HD (1280x720, 60p/50p) **Auto Focus:** AF Method:Contrast detection AF mode:Single AF (AF.S), Continuous AF (AF.C)* Continuous AF (AF.C) is available with the dedicated lens.AF area: Multiple AF points, Select, Spot Focus Peaking: Highlight Edge/ Extract Edge / OFF **Sound:** Built-in stereo microphone, external microphone (Stereo recording compatible) Recording Sound Level adjustable **Recording Time:**Up to 25 minutes or 4GB; automatically stops recording if the internal temperature of the camera becomes high. **Custom Images:**Auto Select, Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Flat, Bleach Bypass, Reversal Film, Monochrome, Cross Processing **Cross Processing:**Random, Preset 1-3, Favorite 1-3. **Digital Filter:**Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome

Playback
Playback View: Single frame, Multi-image display (6,12, 20, 35, 80 segmentation), Display magnification (up to 16x, Quick Zoom view available), Grid display (4x4 Grid, Golden Section, Scale display, Square 1, Square 2, Grid Color: Black / White), Rotating, Histogram (Y histogram, RGB histogram), Bright area warning, Auto Image Rotation, Detailed information, Copyright Information (Photographer, Copyright holder), GPS information (latitude, longitude, altitude, Coordinated Universal Time), Orientation, Folder Display, Calendar Filmstrip Display, Slide Show, **Delete:**Delete single image, delete all, select & delete, delete folder, delete instant review image **Digital Filter:**Base Parameter Adj, Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome, Tone Expansion, Sketch, Water Color, Pastel, Posterization, Miniature, Soft, Starburst, Fish-eye, Slim, Monochrome **RAW Development:** RAW file select:Select Single Image, Select Multiple Images, Select a folder RAW Development Parameter:White Balance, Custom Image, Sensitivity, Clarity, Skin Tone, Digital filter, HDR, Pixel Shift Resolution, Shadow Correction, High-ISO NR, Distortion Correction, Peripheral Illumin. Corr., Lateral Chromatic Aberration Correction, Diffraction Correction, Color Fringe Correction, File Format (JPEG / TIFF), Aspect Ratio, JPEG Recorded Pixels, JPEG Quality, Color Space **Edit:** Image Rotation, Color Moiré Correction, Resize, Cropping (Aspect ratio and Slant adjustment available), Movie Edit (Divide or delete selected frames), Capturing a JPEG still picture from a movie, Saving RAW data in buffer memory, Image Copy

Customization
USER Mode: Up to 5 settings can be saved **Function Dial:**C1, C2, C3(ISO Sensitivity, EV Compensation, Bracket Value, Custom Image, AF Mode, AF Active Area, Focus Peaking, Program Line, Shutter Mode Selection, Recorded Pixels, AA Filter Simulator, Grid Display, LCD Display Options, Image Magnification, Outdoor View Setting)* Recroded Pixles: [Still Image] L, M, S or XS selectable [Movie] Full HD or HD selectable **Custom Functions:**24 items **Mode Memory:** 18 items **Button Customization:**Fx1 Button (EV Compensation, ISO Sensitivity, Preview, AE Lock, Change AF Area, One Push File Format, Electronic Level, Wi-Fi, Night Vision LCD Display, Operation Control Lock),Fx2 Button (EV Compensation,ISO Sensitivity, Preview, AE Lock, Change AF Area, One Push File Format, Electronic Level, Operation Control Lock),Fx3 Button (EV Compensation, ISO Sensitivity, Preview, AE Lock, Change AF Area, One Push File Format, Electronic Level, Operation Control Lock),AF/AE-L button (AF1, AF2, Cancel AF, AE Lock) Various settings for the action of the e-dials in each exposure mode can also be saved. **AF Customization:**AF.S: Focus-priority / Release-priority 1st Frame Action in AF.C: Release-priority / Auto /Focus-priority Action in AF.C Continuous:Focus-priority, Auto, FPS-priority Hold AF Status: OFF, Low, Medium, High AF in Interval Shooting: Locks focus at 1st exposure, Adjusts focus for each shot **Operation Control Lock:**Type1:Disables exposure control operations in standby mode Type2:Disables the control functions of OK button, MENU button and Four-way controller in standby mode **Text Size:**Standard, Large **World Time:**World Time settings for 75 cities (28 time zones) **Language:** English, French, Germany, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Traditional Chinese, Simplified Chinese, Japanese **AF Fine Adjustment:**±10 step, Uniform adjustment, Individual adjustment(up to 20 can be saved) **Indicator Lamps:**Self-timer (ON / OFF), GPS (ON / OFF) **Copyright Information:**Names of "Photographer" and "Copyright Holder"are embedded to the image file. Revision history can be checked using the provided software.

Power supply
Battery Type: Rechargeable Lithium-ion Battery D-LI109 **AC Adapter:**AC Adapter Kit K-AC 167 (Optional) **Battery Life:**Number of recordable images: (with 50% flash usage): approx. 390 images, (without flash usage):approx. : 420 images Playback time: Approx. 270 minutes* With a fully-charged Rechargeable Lithium-ion Battery under the temperature at 23°C. Tested in compliance with CIPA standard. Actual results may vary depending on the shooting condition.

Interfaces
Connection Port:USB2.0 (micro B), External power supply terminal, Stereo microphone input / Cable switch input (ø3.5mm connector) **USB Connection:** MSC/PTP (SlimPort compatible) **Video output:**USB terminal *SlimPort to HDMI adapter required

Wireless LAN
Standards:IEEE 802.11b/g/n (Standard wireless LAN protocol) **Frequency (Center Frequency):**2412MHz to 2462MHz (channels: Ch.1 to Ch.11) **Security:**Authentication:WPA2, Encryption:AES

Dimensions and Weight
Dimensions: Approx. 131.5mm (W) x101.0mm (H) x 76.0mm (D) (excluding protrusions) **Weight:**Approx.703g (Including dedicated battery and SD Memory Card) Approx. 643g (body only)

Operating Environment
Temperature:'-10°C~40°C (14°F~104°F) **Humidity:**85% or less (no condensation)

Accessories
Included: Strap O-ST162, Rechargeable Lithium-ion Battery D-LI109, Battery Charger D-BC109, AC plug cord, Software (CD-ROM) S-SW167 <Mounted on the camera> Eye-cup FR, Hot shoe cover FK , Body mount cap KII Triangular ring and protective cover, Grip S O-GP167 **Software:**Digital Camera Utility 5

Line up

PENTAX KP Body Kit
Black

PENTAX KP Body Kit
Silver

PENTAX KP Product Site http://www.ricoh-imaging.co.jp/english/product/kp

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Attention In order to use PENTAX products properly and safely, you are strongly advised to read the operating manuals carefully and thoroughly before use.

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February 2017