The PENTAX K-1 Mark II: the new standard of the 35mm full-frame K series

Rich colors and subtle shades, and a beautiful bokeh and a well-defined sense of depth. When the photographer’s inspiration is truly reflected in all these elements, photographs will become more than mere records — they will evolve into truly impressive works of art.

The PENTAX K-1 Mark II has been created as the flagship model that will fulfill this goal. It features a new, advanced image-processing system to deliver the beautiful image quality which all photographers demand. It produces images that are rich in color and gradation, high in resolution, and superb in bokeh rendition.

The Pixel Shift Resolution System II — the PENTAX-original super-solution technology — now accommodates handheld photography. The AF system featuring a new algorithm assures high-precision focusing even with moving subjects.

While inheriting the PENTAX K-1’s development concept, the PENTAX K1 Mark II has advanced technologies to near perfection. When your creativity is in complete harmony with the camera, your photography will truly come alive.
Top sensitivity of ISO 819200 enhances image quality, and expands the creative boundaries of high-resolution digital SLR photography.

State-of-the-art imaging processing system
Greatly improved image quality, even in high-sensitivity photography

To reproduce lively colors and rich gradations close to memory colors in all sensitivity ranges, the PENTAX K-1 Mark II newly incorporates an original silicon sensor, which efficiently processes image signals output by the image sensor before sending them to the imaging engine. This process upgrades both image resolution and color reproduction in a high-sensitivity range, while dramatically reducing noise compared to the PENTAX K-1. In this way, the camera’s top sensitivity up to ISO 819200 (at standard output) enhances image quality, even in high-sensitivity photography.

PRIME IV
High-performance imaging engine to assure high-resolution image reproduction

The PENTAX K-1 Mark II’s PRIME IV imaging engine is the culmination of PENTAX’s high-speed, high-quality image processing technology. In addition to highly efficient noise processing, it features Fine Sharpness and Extra Sharpness functions to present the subject’s outlines more naturally and more delicately, and the PENTAX Real-time Scene Analysis System, which has adopted a breakthrough deep learning technology. It also effectively compensates for the distortion, vignetting and chromatic aberration caused by specific lens properties, while efficiently correcting the flare image effect.*

* Available in combination with D FA-, DA-, DA L- and FA-series lenses. Some of these lenses may not be compatible with these functions.

35mm full-frame image sensor
A large, high-performance image sensor to capture all lighting data

The PENTAX K-1 Mark II’s 35mm full-frame image sensor features a large imaging area and a wide pixel pitch to deliver lively, true-to-life images with rich gradations. It also assures superb noise reduction performance to capture the subject truthfully with fine details and subtle shades, its shallow depth of field allows you to control the sense of depth and bokeh (defocus) effect at will.

Approximately 36.4 effective megapixels
AA-filter-free design to optimize resolving power

The PENTAX K-1 Mark II features an AA (anti-aliasing)-filter-free design to optimize image resolving power. This design produces true-to-life images by faithfully depicting the fine details of the subject. It retains excellent simulation, even when the image is cropped during shooting, or the captured image is trimmed during processing. It allows you to capture the decisive moments in a sharp, clear image.

AA filter simulator
State-of-the-art mechanism to optically minimize moiré and false color

The PENTAX-original AA (anti-aliasing) filter simulator* effectively minimizes moiré and false color by using the camera’s 15K mechanism to apply microscopic vibration to the image sensor during exposure. It provides the option of choosing the AA-filter effect for well-balanced images or the AA-filter-free mode for greater resolving power.

* Available in combination with D FA-, DA-, DA L- and FA-series lenses. Some of these lenses may not be compatible with these functions.
The advanced Pixel Shift Resolution System II for super-high-resolution images

A PENTAX technology to produce high-quality images beyond the power of total pixels

PENTAX’s Pixel Shift Resolution System II is the super-resolution technology which realizes image resolving power and color reproduction far better than that of the conventional Bayer system. By taking advantage of the camera’s SR mechanism, it captures four images of the same scene by slightly shifting the image sensor for each image, obtaining all RGB color data and luminance data from each pixel, then synthesizing them into a single, super-high-resolution composite image. It not only improves image resolving power, but also prevents the generation of false color, reduces high-sensitivity noise, and greatly improves image quality.

Greater flexibility in handheld shooting

Innovative Dynamic Pixel Shift Resolution mode

An effective tool in outdoor shooting

When shooting at image with the Pixel Shift Resolution System, you can select the Motion Correction function. When this function is activated, the camera automatically detects the amount of subject motion during continuous shooting and minimizes negative effects during the synthesis process.

In addition to conventional shooting modes, the Pixel Shift Resolution System II features a new Dynamic Pixel Shift Resolution mode, an innovative technology that takes advantage of slight fluctuations of the subject’s position during handheld shooting. The camera closely analyzes four captured images and detects camera shake during handheld shooting before synthesizing them into a super-high-resolution composite image. By combining this mode with the camera’s SR mechanism, you can use the advanced Pixel Shift Resolution System II more flexibly, even in difficult shooting conditions such as shooting at poorly lit locations or without using a tripod.

Motion Correction function

RAW-format filing compatibility

The images captured by the Pixel Shift Resolution System can be saved as RAW-format files. You can develop those files within the camera body while adjusting various parameters or turning the Pixel Shift Resolution effect on and off to create the desired image.

HD PENTAX-D FA 24-70mmF2.8ED SDM WR
Aperture: F11; Shutter speed: 1 sec.; Exposure compensation: -1.0 EV; Sensitivity: ISO 100; White balance: Daylight; Custom Image: Landscape; Pixel Shift Resolution: ON (Motion Correction ON)
Outdoor-oriented monitor with red-lit monitor display function

The camera’s outdoor-oriented monitor, which provides easy setting of the brightness level, has been upgraded. In addition to positive settings to assure the correct brightness level in bright locations, it now provides negative settings to improve visibility in dark locations. It also features a red-lit monitor display function to facilitate monitor viewing when your eyes have become accustomed to a dark location during astronomical or nighttime photography.

Operation Assist Light

Supporting camera operations in the dark

Four Operation Assist Lights are strategically positioned around the camera body: at the upper side of the lens mount, behind the LCD monitor, at the memory card slot, and at the cable switch terminal. With a push of the illumination button, you can turn them on* to facilitate lens and memory card changes, control button operations, and attachment and removal of a cable switch, for more efficient, comfortable shooting of nighttime-outdoor scenes and poorly lit indoor subjects.

* The lights can be turned on and off individually. They are also on in the self-timer before taking a shot.

Dependable dustproof, weather-resistant construction

A completely environment-resistant imaging system, with a weather-resistant lens

A combination of the K-1 Mark II’s 87 sealing parts and the optional D-BG6 Battery Grip’s watertight body provides the assurance of water and dust into their intent. When an AW or WR-water lens is mounted, the K-1 Mark II and its lens form a remarkable digital imaging system totally resistant to demanding environmental factors.

Extra-durable body overcomes challenging field conditions, such as poor weather, darkness and freezing temperatures

SR II in-body shake reduction mechanism

Providing shake reduction for camera shake

The PENTAX original sensor-shift-type camera shake reduction mechanism to provide optimum compensation for all kinds of handheld shooting. The SR II (Shake Reduction II) features a five-axis mechanism to compensate for camera shake caused by horizontal and vertical shift* (often generated in macro photography) and camera shake caused by roll, which is difficult to handle by lens-installed shake reduction mechanisms, in addition to more conventional camera shake caused by pitch and yaw. The SR II unit is controlled with great precision as soon as the camera’s power is turned on, and provides a wide compensation range — as much as five shutter steps** — to expand the limits of handheld shooting.

* Shift means the horizontal or vertical movement. The term is also used when the mechanism causes the image sensor to function as a five-axis shift function.

** This is the amount of zoom that can be corrected in relation to the focal length of different lenses used at the time of purchase. The unit is based on the focal length of 18mm.

DR II (Dust Removal II) mechanism

Effective removal of foreign particles from the image sensor

Using its piezoelectric element, this innovative mechanism applies ultrasonic vibrations to the optical glass panel placed in front of the image sensor. This effectively removes all dust particles clinging to the image sensor surface, and prevents annoying dust spots from appearing on a captured image.

High-rigidity, extra-durable body

A shell structure, achieving a metallic chassis with a magnesium alloy casing

The K-1 Mark II’s exterior casing is made of highly rigid, lightweight magnesium alloy, which provides excellent shock-resistance and electromagnetic shielding performance. By coupling it with a high-rigidity metallic chassis housing the core components, the K-1 Mark II forms a compound structure to assure outstanding durability and exceptional reliability.

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

Extra-accurate auto-exposure and autofocus control, even in dark

An illumination level of –3EV makes it difficult to see a subject with the naked eye, and almost impossible to make accurate focus with manual focusing. Even under such low-illumination conditions, the K-1 Mark II assures high-precision auto-exposure and autofocus operation.* Thanks to its upgraded algorithm, its autofocusing response time is greatly reduced for low-illumination subjects. Coupled with its super-high-resolution imaging power, the K-1 Mark II delivers exceptional shooting performance in dark locations.

* High-precision AE/AF operation at –3EV illumination, even for subjects using the 645D-III and 645Z, using the 645D-III and 645Z lenses.

Extra-durable shutter unit

Withstanding 300,000 shutter releases for professional use

After a series of testing performance tests, the K-1 Mark II’s shutter unit has proven its exceptional durability by withstanding a total of 300,000 shutter releases. It assures outstanding operational precision and exceptional durability required for exacting professional work.

Dual card slot

Large-volume image data filing on two SD memory cards

The K-1 Mark II’s 3-card slot accepts two SD memory cards, with a choice of three data filing modes: “Single” to store a large volume of data successively, “Division” to separate data files based on the recording time for each set of data, and “RAW / JPEG Separation” for simplified data backup, and “RAW / JPEG Duplication” to duplicate an image stored on one card to another.

5 axes / 5 steps

Shake reduction along five axes

1 Pitch and yaw
2 Roll
3 Horizontal and vertical shift

Compatible with panning shots

When taking a panning shot, the mechanism efficiently prevents the shutter from slipping only when the exposure time is compensated for all camera movements, while compensating for all camera shacking movement. Because of this, the K-1 Mark II promises hand-held, five-axis correction range for both optical and panning photography, without requiring any scrunching-up operation.

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**Smart Function**

- Single-section function control

The K-III Mark II’s Smart Function is a camera operation system harmonizing an array of features with ease of operation. This functional camera operation system lets you modify your shooting style and set the desired function using just two dials positioned on the camera’s upper panel, without needing to refer to the menu screen on the LCD monitor.

**Functions controllable by Smart Function**

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**Built-in GPS module and Electronic Compass**

Automatic recognition of shooting position data

By making full use of its GPS module, Electronic Compass and SR mechanism, the K-III Mark II simplifies the astronomical photography of celestial bodies, without the help for an equatorial tripod. Based on the latitude data obtained from GPS module and other affecting factors (the camera’s direction and horizontal/vertical tilt) obtained by its various sensors, the K-III Mark II calculates the movement of celestial bodies, then synchronizes the movement of its image sensor with that of celestial bodies with great precision. Since it captures stars without a smearing effect even during extended exposure, you can record faint stars, which are difficult to grasp with the naked eye, as point images.

- **GPS Log to track the photographer’s movement**
  - The K-III Mark II’s GPS module automatically keeps track of the photographer’s movement at fixed intervals. By loading a JPEG file to your computer, you can trace your travels using a mapping application such as Google Earth.

**Auto Horizon Correction and Composition Adjustment**

- **Change of Crop setting**
  - Viewfinder shooting: change of grid pattern
  - Live View shooting: ON/OFF

**Digital level**

- **Live View shooting**
  - Change of Digital level setting
  - Live View shooting and movie recording

**Main Live View shooting functions**

- **Bulb-timer function**
  - A choice of grid display from five patterns and two colors (white and black)
  - A choice of grid display from five patterns and two colors (white and black)

**Other features**

- **Air Gapless LCD monitor**
  - **Vertical tilt** approx. 44°
  - **Horizontal tilt** approx. 35°

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**Astrotracer**

- **Effortless tracking and photographing of celestial bodies without an equatorial tripod**

By making full use of its GPS module, Electronic Compass and SR mechanism, the K-III Mark II simplifies the astronomical photography of celestial bodies, without the help for an equatorial tripod. Based on the latitude data obtained from GPS module and other affecting factors (the camera’s direction and horizontal/vertical tilt) obtained by its various sensors, the K-III Mark II calculates the movement of celestial bodies, then synchronizes the movement of its image sensor with that of celestial bodies with great precision. Since it captures stars without a smearing effect even during extended exposure, you can record faint stars, which are difficult to grasp with the naked eye, as point images.

**Live View shooting, with an option of electronic shutter mode**

- **An array of tools for creative visual expression**
  - **1:1 cropping mode**
  - **Bulb-timer function**
    - The function lets you set the bulb timer for exposure durations from 1 second to 20 minutes, improving usability in bulb shooting.
A well-defined view of the subject and intuitive operation let you focus on the subject

Optical viewfinder with a nearly 100% field of view

Assuring a clear view of the field and ease of focusing

The K-1 Mark II’s optical viewfinder provides a nearly 100 percent field of view and a 0.7-times magnification to deliver a sharp, crisp view of the subject and a large, well-defined image field, both of which are the benefits of the 35mm full-frame SLR camera. This viewfinder also provides a clear view of the image field free of aberrations, even at the edges. Its Natural-Bright-Matte III focusing screen* makes it easy to identify the in-focus point, even during manual-focus operation.

Transparent viewfinder display

An at-a-glance confirmation of the camera’s operational status

The K-1 Mark II’s transparent LCD viewfinder display allows you to select desired data, such as a grid display, and monitor it in the viewfinder. It comes in handy when correcting the camera’s tilt using the digital level or rearranging the image composition using a grid pattern, without taking the eye off the subject.

Selection of data on viewfinder display

Transparent data to be displayed in the viewfinder (grid pattern, Digital Level, AF frame and spot metering frame) can be turned on and off independently to accommodate varying shooting conditions and preferred shooting styles.

Digital Level

The Digital Level displays the K-1 Mark II’s horizontal and vertical tilt with two bar scales. Compared with the conventional type that utilizes an exposure bar scale, it not only makes it easier to identify the camera’s tilt, but also allows you to check the tilt and exposure status simultaneously. As a result, it greatly improves the camera’s operability during viewfinder shooting.

Compact, solid body

Remarkable maneuverability, despite a 35mm full-frame design

PENTAX’s development concept has been to design a compact body and optimize the ease of handling in the field. The PENTAX K-1 Mark II faithfully obliterates this concept. In addition to optimizing the positioning of the finder unit to keep the camera’s height to a minimum, PENTAX has also designed an original mechanical unit containing the shutter, mirror, and mirror driving mechanisms. PENTAX’s advanced high-density packaging technology has succeeded in achieving a compact, manueverable body for this new camera.

Floating Mirror Structure

In order to accommodate the 35mm full-frame image sensor and the large image field with a nearly 100 percent field of view, it was necessary to increase the size of the main mirror and mirror box. To minimize the size of the mirror box, PENTAX has developed a new mechanism that retracts the main mirror at a certain speed.

Customization

Creating your personal K-1 Mark II by customizing camera operations to your preference

The K-1 Mark II provides a wide range of customization settings to optimize the ease and comfort of camera operations. These settings have been designed to expand the functions of the USER Mode and the Fx (function) buttons, improve accessibility to desired functions on the control panel, and prevent accidental operational errors.

USER Mode

For different combinations of the most frequently used functions can be assigned to the mode to handle specific subjects or creative purposes.

Customization buttons

The panel displays a list of the functions and their status on the LCD, which allows you to change the contents and/or order of listed functions to suit your shooting style.

Lock button

In order to prevent accidental setting changes, the K-1 Mark II provides a lock button to temporarily maintain control buttons and dials. It allows you to choose one of seven lock functions. Type 1 prevents accidental exposure setting changes, and Types 2 to 5 prevent operational setting changes.

HD PENTAX-D FA 150-450mmF4.5-5.6ED DC AW

Aperture: F4.5-5.6; Shutter speed: 1/500; Sensitivity: ISO 400; White balance: Daylight; Camera Image Bright
Advanced picture-taking functions lets you capture a decisive moment without failure

PENTAX Real-time Scene Analysis System
Optimizing the performance of AE and AF systems and the ease of image composition

Supported by the appropriately 86,000-pixel RGB light-metering sensor and the PRIME IV imaging engine, the PENTAX Real-time Scene Analysis System analyzes such factors as brightness distribution in the image field, the subject’s primary color and its motion with great accuracy and efficiency. In addition, by adopting a breakthrough artificial intelligence technology called deep learning to its image-detection algorithm, this system assesses each individual scene more accurately, while optimizing the accuracy and performance of the light-metering, exposure-control and autofocus systems, and selecting the most appropriate focusing touch for a given scene or composition.

33-point AF system with 25 cross-shaped sensors
Assuring reliable, infallible focus on the subject

The K-1 Mark II’s sophisticated 33-point AF system has a high-precision autofocus system for AF sensors to efficiently monitor crucial areas of the image field, while providing 25 cross-shaped sensors to assure extra-accurate focus on the subject.

AF system with F2.8 luminance flux linear sensors
Three center sensors are designed to detect the luminance flux of an F2.8 lens for high-precision autofocus.* When using a very fast lens with a shallow depth of field, these sensors greatly improve the focusing accuracy.

Zone Select
This mode lets you select a set of nine sensors forming a group, which can be shifted as desired by pressing the center point. It detects a subject placed within this group, optimizes the focus, and makes its movement → as automatically.

Select-area expansion
This mode lets you place up to 25 AF points to focus on the subject, and makes the K-1 Mark II automatically track the subject when and where it is to keep the high of the encompassing area, even when it roams away from the central point. You can set the desired expansion area from 25 to 25 points. *3

The K-1 Mark II’s sophisticated field-camera concept, this unit is designed to be compact and lightweight, with a well-balanced combination of high-precision operation and outstanding durability.

High-speed drive mode
Flawless continuous shooting at approximately 4 images per second

The K-1 Mark II provides high-speed continuous shooting at a top speed of approximately 4 images per second (CF mode). You can also switch instantly to an optional speed setting of these images per second (Co or C3) at 7 images per second (CL) using the main menu or Smart Function. In the APS-C Crop mode, the drive speed can be boosted to as high as approximately 4.4 images per second to assure quick response to fast-moving subjects.

Large image recording capacity in continuous shooting
A maximum of 100 images can be captured at a high-quality 36-megapixel level

The K-1 Mark II’s large-capacity buffer memory, the K-1 Mark II lets you record a large number of images during continuous shooting: approx. 70 JPEG images (approx. 17 RAW images) at CF setting, approx. 100 JPEG images (approx. 20 RAW images) at Co setting, or approx. 100 JPEG images (approx. 200 RAW images) at C3 setting.*1

33-point AF system

1/8000-second high-speed shutter
Exceptional operational accuracy and remarkable durability

The K-1 Mark II features an electronically controlled, vertical-type shutter to optimize the performance of the 35mm full-frame image-sensor. With a top speed of 1/8000 second, it allows you to open up the aperture, even in bright locations, and take full advantage of the bokeh (defocus) effect created by the large image sensor. This also provides a flash synchronization speed of 1/200 second. By optimizing the K-1 Mark II’s field-camera concept, this unit is designed to be compact and lightweight, with a well-balanced combination of high-precision operation and outstanding durability.

Multi-mode AE system
A choice of distinctive anti-exposure modes

In addition to the conventional Program, Aperture-Priority (A) and Shutter-Priority (S) modes, the K-1 Mark II also provides the PENTAX-original Sensitivity-Priority (Tv) and Shutter-Priority (Tv) modes, both of which assure proper exposure on the subject by focusing the ISO sensitivity more productively into exposure-control operation. This multi-mode system assures more flexible control of exposure settings to express the subject’s motion or the depth of field. It also provides a wide exposure compensation range of ±6EV (in still-image shooting) and a range of exposure control.

Hyper Program and Hyper Manual
Flexible control of the depth of field and the subject’s motion

In the Program (P) mode, the K-1 Mark II features the PENTAX-developed Hyper Program mode, which allows you to set a desired shutter speed and aperture using the front and rear dials, while retaining a proper exposure level. This diminishes the need for turning the model dial when switching to the TV or Av modes.

Scene Analyze AUTO
Original scene-detection technology, developed through the adopting of artificial intelligence technology

While using the optical real-time scene-analysis, it is also assisted by an algorithm that adopts the deep-learning artificial intelligence technology, and makes an extensive analysis of a given scene based on the enormous volume of data accumulated from previous scenes.

SAFOX 12
Advanced AF system, with an expanded AF detection area

In order to optimize the ease of image composition over the large 35mm full-frame image field, the PENTAX K-1 Mark II features the latest SAFOX 12, equipped with a light sensor sensor, to expand the AF detection area. To accommodate the longer optical path required for the expanded AF area, the camera features an innovative design in which incoming light is turned back within the AF module. Thanks to the optimization of the condenser lens, it also provides a total of 35 AF sensor points. This state-of-the-art unit therefore boasts both compact dimensions and exceptional image-forming performance.

Improved AF performance
Thanks to the incorporation of the latest AF algorithm, the PENTAX K-1 Mark II assures high-speed autofocus operation, from the activation of the AF system to the capture of the subject in focus. It captures the subject’s motion with great precision, even when the colors of the subject and the background are nearly identical. It also provides outstanding tracking performance with subjects which move laterally or vertically within the image field. The camera’s overall AF performance has been upgraded to a new level.

86,000-pixel RGB light-metering sensor
High-precision scene analysis based on the subject’s color, shape and motion

The K-1 Mark II’s appropriately 86,000-pixel RGB light-metering sensor not only delivers surrounding matching power, but also detects color with great precision. After accurately measuring the subject’s shape, primary color and motion, it feeds the obtained data to the PENTAX Real-time Scene Analysis System for ultra-accurate scene analysis.

*1 The K-1 Mark II’s original technology is available during real-time shooting when the exposure mode is set to Scene Analyze Auto and the Current Image mode sets to face detection.
Image composition and shooting functions optimize your creativity and inspiration

### Custom Image
Effortless expression of the ideal tone and shade for each subject

The K-3 Mark II Custom Image function allows you to apply the preferred finishing touch to your image, based on your subject or creative intentions. With the addition of Auto Select, in which the camera automatically detects the type of scene or subject and selects the best finishing touch for you, and Flat, which produces a hue image most similar to real-life colors, the K-3 Mark II provides a total of 13 Custom Image modes. Each mode provides precise adjustment of parameters such as saturation, shade, hue, contrast and sharpness.*

* The Custom Image mode is fixed to Auto Select when the camera’s exposure mode is set to AUTO.

** The Skin Tone correction function can be activated only when the Face Detection mode is selected.

Clarity:+

Clarity:-

![Image 42x530 to 162x609]

and healthy skin tones. It depicts your subject with smooth texture and healthy skin tones.

The Clarity control function is an image-processing technology effective in reproducing the glossy texture of metal and the sheen of the day or splashing water. By adjusting the smoothness of a silky or shiny surface, you can control the quality of texture and the degree of clarity. The Skin Tone correction function** restores a tender texture and a healthy tone of the subject’s skin, while keeping the high-resolution rendition in its hair and clothing.

### HDR
Faithful reproduction of highlights and shadows

The K-3 Mark II’s HDR (High Dynamic Range) mode* delivers an image similar to the scene detected by the naked eye, by minimizing washed-out highlights and pitch-black shadows, even with extreme high-contrast scenes. It also allows you to set a range of exposure differ to use the Automatic Position Adjustment function.** Since this mode can save original image files in the RAW format, you can adjust parameters such as saturation, shade, hue, contrast and sharpness, changing HDR settings or turning the D-Raw mode off. By using a PC and the included software, you can also edit a single RAW-format file into three separate RAW-format images, and save them as independent files.

* This HDR function cannot be set in motion shooting or when auto white balance is turned on.

** The Automatic Position Adjustment function is fixed at the OFF mode when the Interval or Interval Movie shooting mode is selected.

### Multiple exposure
Three ways to synthesize highly creative images

The K-3 Mark II lets you capture the desired number of images — from two to 2,000 — to synthesize a single composite image, with three synthesis modes: additive, additive and comparative brightening. In Live View shooting, the K-3 Mark II displays a translucent image of the already-captured image on its LCD monitor, allowing you to make precise aligment of the images.

### CTE
For expressing the colors of the subject as vividly as possible without losing the natural quality

In contrast to the standard auto white balance mode, which is designed to suppress the effect of a light source color on the image’s color reproduction, the CTE (Color Temperature Enhancement) mode emphasizes the image’s dominant color based on the color temperature. It is useful in dramatizing natural and sunset scenes or more-controlled landscapes under the cloudy sky. It also affects in presenting color fading or the loss of colors such as dark greens and faint pinks.

### In-body RAW data development
Application of the desired finishing touches without the need for a computer

The PENTAX K-3 Mark II develops RAW-format files within the camera body without the help of a PC, and lets you save them as JPEG- or TIFF-format files. This assures greater flexibility in creating a captured image that is more faithful to your creative intentions, without requiring a PC. Thanks to a host of adjustable parameters, it also allows you to add the desired finishing touch to your image regardless of a location, until you are truly satisfied with the results.

### 4K-compatible Interval Movie shooting
Documenting a constantly changing subject in high resolution

The K-3 Mark II’s Interval Movie mode allows you to record still images of a slowly changing subject at a fixed interval, and link them into a single movie file. You can play back the 4K-resolution (3,840x2,160 pixels) movie files,* as if fast-forwarding the time on the scene. The K-3 Mark II also provides the Star Stream function, which lets you draw the magical traces of stars in a movie.

* When playing back the video file on a device other than the K-3 Mark II, the file is saved in a non-PENTAX raw format.

### Wi-Fi compatibility
Remote control of the camera using a smartphone

By wirelessly connecting the PENTAX K-3 Mark II with your smartphone,** you can capture images from a distance, browse them on the smartphone, and transfer them to another device.** You can not only review shooting functions and change their settings, but also adjust the focus, release the shutter, and confirm the captured images.

** The Automatic Position Adjustment function is fixed at the OFF mode when the Interval or Interval Movie shooting mode is selected.

** The Wireless Position Adjustment function is fixed at the OFF mode when the Interval or Interval Movie shooting mode is selected.

### Movie recording
Full HD movies with a beautiful bokeh effect

The K-3 Mark II records body, true-to-life movie. Thanks to a shallower depth of field provided by its 23mm full-frame design, it effectively produces a beautiful bokeh effect. You can also record sound in movies using an external microphone (commercial product, not included with the K-3 Mark II), or monitor it during recording using headphones (commercial product, not included with the K-3 Mark II).

### IMAGE Transmitter 2 compatibility
Tethered photography from a personal computer

By installing the optional IMAGE Transmitter 2 tethering software on your PC and connecting it with the K-3 Mark II via USB terminal, you can operate the K-3 Mark II, automatically transfer and save recorded images, and check photographic data on your computer. This greatly improves the efficiency of studio shooting.

Note: For proper use, the software must be upgraded to the latest version. Please access our official website for details.

**Exclusive software for high-quality finish and browsing
Digital Camera Utility™ 5
Supported by the acclaimed SILKYPIX® image development engine, this software allows you to browse through captured images and develop them into RAW-format files on a computer.
Exceptional optical performance to deliver well-defined images

The K-1 Mark II inherits PENTAX’s time-proven K mount. It accepts not only D FA-series lenses optimized for digital imaging, but also FA- and FA Limited-series lenses to accommodate a wide range of creative intentions and applications.

D FA* D FA

High-resolution, high-performance lens series optimized for 35mm full-frame format

D FA* series lenses are designed for uncompromising optical performance, while D FA-series lenses assure well-balanced imaging power. They effectively compensate for various aberrations even at the edges of the K-1 Mark II’s wide image field, while optimizing resolving power and contrast across the image.

HDR PENTAX-D FA 15-30mmF2.8ED SDM WR

This large-aperture, ultra-wide-angle zoom lens captures a dynamic image of sweeping landscapes with its overwhelming perspective. Thanks to its minimal distortion, it is also ideal for photographing starry skies.

HDR PENTAX-D FA 24-70mmF2.8ED SDM WR

With its maximum aperture of F2.8, this large-aperture, standard zoom lens assures remarkable resolving power and rich contrast. It is effective in capturing dramatic visual expressions, such as beautiful bokeh and pan-focus effects.

HDR PENTAX-D FA 28-105mmF3.5-5.6ED DC WR

Covering wide-angle to medium-telephoto ranges, this versatile standard zoom lens is perfect for capturing most everyday scenes. In compact, lightweight design also makes it handy for traveling.

HDR PENTAX-D FA 35mmF2.8 AL Limited

This large-aperture, ultra-wide-angle zoom lens captures a dynamic image of sweeping landscapes with its overwhelming perspective. It is effective in capturing dramatic visual expressions, such as beautiful bokeh and pan-focus effects.

FA Limited

Distinctive lenses to broaden the scope of photography

Compatible with the 35mm full-frame format, these high-grade lenses provide unique focal lengths deduced from the experiences of many professionals and outstanding imaging power with a truthful sense of perspective. Its exterior casing is made of high-grade machined aluminum for a beautiful finish and durability.

SBD PENTAX-FA 31mmF1.8 Limited

SBD PENTAX-FA 43mmF1.9 Limited

SBD PENTAX-FA 77mmF1.8 Limited

SBD PENTAX-FA 35mmF2AL

SBD PENTAX-FA50mmF1.4

Rich gradation and true-to-life color reproduction

Designed for life-size macro photography, this compact, lightweight macro lens can also be used as a compact, large-aperture, unifocal standard lens.

SBD PENTAX-D FA MACRO 100mmF2.8 WR

This high-performance macro lens provides a sufficient working distance and an exceptionally shallow depth of field, even in life-size macro photography. It allows you to pay attention to a primary element of the subject.
All APS-C-format, K-mount interchangeable lenses are usable on the K-1 Mark II without any modification. They deliver exceptional image quality, despite their compact, lightweight designs.

**Crop mode**

When a DA*- Limited or DA series lens is mounted on the K-1 Mark II, its Crop mode automatically switches an image area with attachment of a lens.

### DA* / DA Limited / DA Lenses

- **AF wide-angle zoom**
  - HD PENTAX-DA 20mmF2.8ED[IF] S A
dm
  - HD PENTAX-DA 30mmF2.4ED[IF] SDM
- **AF standard zoom**
  - HD PENTAX-DA 40mmF2.8ED[IF] SDM
  - HD PENTAX-DA 50mmF1.8ED
  - HD PENTAX-DA 50mmF2.8ED
  - HD PENTAX-DA 60mmF2.8ED
  - HD PENTAX-DA 70mmF2.4ED
  - HD PENTAX-DA 100mmF2.8ED WR
  - HD PENTAX-DA 150mmF2.8ED
  - HD PENTAX-DA 200mmF3.5ED
  - HD PENTAX-DA 300mmF4ED
  - HD PENTAX-DA 500mmF4ED
  - HD PENTAX-DA 600mmF4ED
  - HD PENTAX-DA 1000mmF4ED
- **AF telephoto zoom**
  - HD PENTAX-DA 35mm-80mmF4ED
  - HD PENTAX-DA 50-200mmF4ED
  - HD PENTAX-DA 70-200mmF4ED
  - HD PENTAX-DA 50-300mmF4ED
  - HD PENTAX-DA 300mmF4ED
  - HD PENTAX-DA 500mmF4ED
  - HD PENTAX-DA 800mmF5.6ED
  - HD PENTAX-DA 16-50mmF2.8ED
  - HD PENTAX-DA 16-50mmF4ED
  - HD PENTAX-DA 18-55mmF3.5-5.6ED
  - HD PENTAX-DA 35mm-100mmF4ED
  - HD PENTAX-DA 50mm-300mmF4ED
  - HD PENTAX-DA 60-250mmF4ED
  - HD PENTAX-DA 70-300mmF4ED
  - HD PENTAX-DA 100-300mmF4ED
  - HD PENTAX-DA 150-600mmF5.6ED
  - HD PENTAX-DA 300-600mmF6.3ED
  - HD PENTAX-DA 500-1350mmF8.0ED
  - HD PENTAX-DA 800-1600mmF11.5ED

### System accessories

- **Battery Grip D-BG6**
  - A high-performance dust and weather-resistant flash unit featuring an LED light
- **Battery Charger Kit D-LI90**
  - Features a standard socket for extended shooting with playback
- **AC Adaptor Kit K-AC167**
  - Charges the built-in rechargeable battery
- **Waterproof Remote Control O-RC1**
  - Enables full remote operation from a computer
- **Cable Switch CS-205**
  - A shutter release accessory for remote operation
- **Image transfer software Image Transmitter O-IT1**
  - Sends images directly from the camera body
- **Image Sensor Cleaning Kit O-IC1**
  - A cleaning stick for quick, easy removal of dust from image sensor

For enhanced operability and greater photographic applications.
Nomenclature

- LED light for lens mount
- DC input terminal
- INFO button
- Wi-Fi lamp
- AF button
- External microphone
- AF assist light
- Mirror
- Operation controls
- Display magnification (up to 5x)
- Timer
- AF/AF J lens
- USB terminal (USB Type-C)
- DC input terminal
-镣elter wireless sync
- Mirror Lock release lever
- SD/SDHC/SDXC Memory Card (commercial item)
- Lens Mount...
- LCD monitor
- Movie Record, Star Stream  
- Battery eject button
- Battery release button
- AF Mode dial lock release lever
- Movie Record
- Flash Modes...
- Image Sensor...
- Image Rotation
- Color Moiré Correction
- Favorite
- Magnification...
- Compression...
- Composition Adjustment...
- File Name: “IMGP****” or User Assigned file name, File name numbering: Sequential, Reset...
“It’s better to be small if you want to carry it outdoors.”
“It must withstand the rain, mist or dust.”

In response to comments such as these from both professional and amateur photographers, PENTAX has provided compact, lightweight and dependable field cameras since the time of film photography.

There were famed medium format film cameras, such as the PENTAX 6x7 and 645. The PENTAX LX boasted the world’s first dustproof, weather-resistant construction.* The PENTAX ME and MX became the world’s smallest, lightest models.* While they left their names in camera history because of their remarkable maneuverability and superb imaging power, they were also epoch-making cameras which helped PENTAX gain a reputation as the world’s leading brand of field cameras.

* The remarks “world’s first” and “world’s smallest, lightest” are based on PENTAX’s research.

The PENTAX *ist-D, PENTAX’s first digital SLR camera, was the world’s smallest, lightest model in its category.* The PENTAX K10D and 645D, both of which were named triple-crown winners of the world’s most prestigious camera awards, greatly expanded the boundary of outdoor photography by assuring outstanding dustproof, weather-resistant and cold-proof performance.

The PENTAX K-1 and its successor PENTAX K-1 Mark II feature a host of innovative functions highly useful in outdoor photography, and are expected to further expand the possibilities of field photography. PENTAX remains a leading field camera brand, and its illustrious history continues into the future.

* The remarks “world’s first” and “world’s smallest, lightest” are based on PENTAX’s research.

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

• Images taken with this product that are for anything other than personal enjoyment cannot be used without permission according to the stipulations specified in the Copyright Act. Users are advised to take care, as there are cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or items on displays. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also. • The liquid crystal panel used for the monitor is manufactured using extremely high precision technology. Although the level of the functioning pixel is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image. • This product is a Class B information technology device that conforms to the standards prescribed by The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) in Japan. Although it is primarily designed and manufactured for use in the household environment, it may cause some electromagnetic interference to radio and TV receivers. Users are advised to follow the instructions described in the operating manual. • Users are advised to carry spare batteries for extended shooting sessions. • Images appearing in the LCD monitor are simulated. Due to certain qualities of the printing process, there may be some discrepancies in color between the actual product and product images appearing in this brochure. • Users are advised to check the product serial number upon their purchase. • Designs and specifications are subject to change without notice. • The contents of this brochure are all copyrighted, and must not be used, duplicated or transmitted, whether in part or in entirety, without permission. This brochure is produced for personal, noncommercial use only, and must not be used for any purpose other than its intended use.