

Specifications

Model Description	Type: TTL autofocus, auto-exposure SLR digital-still camera with built-in retractable P-TTL flash Lens Mount: PENTAX K _{mount} bayonet mount (AF coupler, lens information contacts, K-mount with power contacts) Compatible Lens: K _{mount} , K _{mount} (power zoom not compatible), K _{mount} mount lenses
Image Capture Unit	Image Sensor: Primary color filter, CMOS. Size: 23.7x15.7 (mm) Effective Pixels: Approx. 16.28 megapixels Total Pixels: Approx. 16.49megapixels Dust Removal: SP coating and CMOS sensor operations Sensitivity (Standard output): AUTO/100 to 51200 (EV steps can be set to 1EV, 1/2EV, or 1/3EV) Image Stabilizer: Sensor shift Shake Reduction
File Formats	File Format: RAW (DNG), JPEG (Exif 2.3), DCF2.0 compliant Recorded Pixels: JPEG:16M (4928x3264), 12M(4224x2816), 8M(3456x2304), 5M(2688x1792) RAW:16M(4928x3264) Quality Level: RAW (12bit):DNG JPEG: ★★★★★(Best), ★★(Better), ★(Good) RAW and JPEG simultaneously recordable Color Space: sRGB, AdobeRGB Storage Medium: SD, SDHC, and SDXC Memory Card (Eye-Fi card compatible) Storage Folder: Date (100_1018, 100_1019_)/PENTX (100PENTX, 101PENTX...) PENTX can be changed by user
View Finder	Type: Pentaprism Finder Coverage (FOV): Approx. 100% Magnification: Approx. 0.92x (50mmF1.4 at infinity) Eye-Relief Length: Approx. 21.7mm (from the view window), Approx 24.5mm (from the center of lens) Dioptr Adjustment: Approx. -2.5m to +1.5m ⁻¹ Focusing Screen: Interchangeable Natural-Bright-Matte III focusing screen
Live View	Type: TTL method using CMOS image sensor Focusing Mechanism: Contrast detection + Face Detection, Tracking, Select, Spot Display: Field of View approx. 100%, Magnified view (2x, 4x, 6x), Grid display (4x4 Grid, Golden Section, Scale display), Bright/dark area warning, Histogram
LCD Monitor	Type: TFT color LCD monitor, wide angle viewing Size: 3.0 inches Dots: Approx. 921,000 dots Adjustment: Brightness and colors adjustable
White Balance	Auto: Method using a combination of the CMOS image sensor and the light source detection sensor Presets: Daylight, Shade, Cloudy, Fluorescent Light (D: Daylight Color, N:Daylight White, W: Cool White, L: Warm White), Tungsten, Flash, CTE, Manual, Color Manual: Configuration using the display screen (up to 3 settings can be saved), Color Temperature 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 IX i+, 11 point (9 cross type focus points in the center) Brightness Range: EV-1 to 18 (ISO 100) AF Mode: Auto AF (AF.A), Single AF (AF.S), Continuous AF (AF.C) Focus priority or shutter priority mode for AF.S Focus priority or FPS priority mode for AF.C AF Point Selection: Auto:5 points, Auto:11 points, Select(Expanded Area AF available), Spot AF Assist Light: Dedicated LED AF assist light
Metering	Type: TTL open aperture, 77 segmented metering, center-weighted and spot metering Exposure Compensation: EV0 to 22 (ISO100 at 50mm F1.4) Exposure Modes: Auto Picture mode: automatically selects from Standard, Portrait, Landscape, Macro, Moving Object, Night Scene Portrait, Night Scene, Blue Sky, Forest Scene Mode: Portrait, Landscape, Macro, Moving Object, Night Scene Portrait, Sunset, Blue Sky, Forest, Night Scene, Night Scene HDR ¹ , Night Snap, Food, Pet, Kids, Surf & Snow, Backlight Silhouette, Candlelight, Stage Lighting, Museum ¹ JPEG only Program, Sensitivity Priority, Shutter Priority, Aperture Priority, Shutter & Aperture Priority, Manual, Bulb EV Compensation: ± 5EV (1/2EV step or 1/3EV can be selected) AE Lock: Can be assigned to the AF/AE-L button from the menu.
Shutter	Type: Electronically controlled vertical-run focal plane shutter Shutter Speed: Auto: 1/6000 to 30 sec., Manual: 1/6000 to 30 sec. (1/3EV steps or 1/2EV steps), Bulb

Drive Modes	Mode Selection: Single frame, Continuous (Hi, Lo), Self-Timer (12 sec., 2 sec.), Remote Control (0 sec., 3 sec.), Auto Bracketing (3 frames) Continuous Shooting: Approx. 6 fps (JPEG, Continuous Hi), Approx. 3 fps (JPEG, Continuous Lo)
Built-in Flash	Type: Built-in retractable P-TTL pop-up flash Guide number: approx. 12 (ISO100/m) Angle of view: coverage: wide angle-lens, equivalent to 28mm in 35mm format Flash Modes: P-TTL, Red-eye Reduction, Slow-speed Sync, Trailing Curtain Sync, High-Speed Sync and Wireless Sync are also available with PENTAX dedicated external flash. Sync Speed: 1/180 sec. Flash Exposure Compensation: -2.0 to +1.0 EV
Capture Functions	Custom Image: Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Bleach Bypass, Reversal Film, Monochrome, Cross Processing Noise Reduction: Slow Shutter Speed NR, High-ISO NR Dynamic Range Setting: Highlight Correction, Shadow Correction Lens Correction: Distortion Correction, Lateral Chromatic Aberration Correction Digital Filter: Extract Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Color HDR Capture: Auto, HDR 1, HDR 2, HDR 3, Automatic composition correction function, Exposure Bracket Value: ±1EV, ±2EV, ±3EV Multi-exposure: Number of shots: 2-9, Exposure adjusted automatically. Horizon Correction: SR On:correction up to 1 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 degrees Interval Shooting: Shooting interval: 3 sec. to 24 hr., Number of shots: up to 999 images, Start interval setting: immediately, from the set time Electronic Level: Displayed in viewfinder (horizontal direction only); displayed on LCD monitor (horizontal direction and vertical direction)
Movie	File Format: MPEG-4 AVC / H.264 Recorded Pixels: FullHD(1920x1080),16.9,30fps/25fps/24fps, HD(1280x720),16.9,60fps/50fps/30fps/25fps/24fps, VGA(640x480),4.3,30fps/25fps/24fps) Quality Level: ★★★★★(Best), ★★(Better), ★(Good) Sound: Built-in monaural microphone, Recording Sound Level Recording Time: Up to 25 minutes; automatically stops recording if the internal temperature of the camera becomes high. Custom Image: Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Bleach Bypass, Reversal Film, Monochrome, Cross Processing Digital Filter: Extract Color, Toy Camera, Retro, High Contrast, Invert Color, Color Interval Movie: Recording interval: 3 sec., 5 sec., 10 sec., 30 sec., 1 min., 5min., 10 min., 30 min., 1 hr., Recording time: 4 sec. to 99 hr.,Start Interval setting: immediately, from the set time ¹ The File format is Motion JPEG(AVI).
Playback Functions	Playback View: Single frame, Multi-image display (4, 9, 16, 36, 81 segmentation), Display magnification (up to 16x, scrolling and quick magnification available), rotating, histogram, bright/dark area warning, copyright display, calendar filmstrip, display, folder display, slideshow, Eye-Fi transfer Delete: Delete single image, delete all images, select & delete, delete folder, delete instant review image Digital Filter: Monochrome, Extract Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Color, Tone Expansion, Sketch Filter, Water Color, Pastel, Posterization, Miniature, Soft, Starburst, Fish-eye, Slim, Base Parameter Adjustment RAW Development: File Format (JPEG), Image Capture Settings(Aspect Ratio, Recorded Pixels, Quality Level, Color Space), Lens Correction (Distortion Correction, Lateral Chromatic Aberration Correction), Custom Image, White Balance, Sensitivity, High-ISO NR, Shadow Correction Edit: Resize, Cropping (Aspect ratio and Slant adjustment available), Index, Movie Editing (Divide or delete selected frames), Capturing a JPEG still picture from a movie, Saving the RAW file data in the buffer memory

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 the K-50 that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please 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 functioning pixels 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. 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. • All sample images in this brochure are simulated for the purpose of illustrating the product's features and functions. • The product colors shown in this brochure may not be identical with those of actual products, due to the printing process. • Please check the product serial number upon your 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 personal use.

Customization	USER Mode: Up to 2 settings can be saved Custom Functions: 22 Items Mode Memory: 12 items Button/Dial Customization: RAW/Fx Button (One Push File Format, Exposure Bracketing, Optical Preview, Digital Preview, Composition Adjustment, Select AF Point), AF/AE-L button (Enable AF1, Enable AF2, Cancel AF, AE Lock) Various settings for the action of the e-dials in each exposure mode can also be saved. Text Size: Standard, Large World Time: World Time settings for 75 cities (28 time zones) AF Fine Adjustment: ±10 step, Uniform adjustment, Individual adjustment (up to 20 can be saved) Copyright Information: Names of "Photographer" and "Copyright Holder" are embedded to the image file.
Power Supply	Battery Type: Rechargeable Lithium-Ion Battery D-LI109 With AA Battery Holder D-BH109 (optional), four AA batteries (Lithium, Ni-MH rechargeable, alkaline) can be used. AC Adapter: AC Adapter Kit K-AC128 (optional) Battery Life: (Rechargeable Lithium-Ion Battery D-LI109):Number of recordable images: approx. 410 images (with 50% flash usage), approx. 480 images (without flash usage) Playback time: approx. 270 minutes ¹ Using a new lithium-ion battery under the temperature at 23°C. Tested in compliance with CIPA standard. Actual results may vary depending on the shooting conditions/circumstances. [AA Lithium batteries]:Number of recordable images:approx. 710 images (with 50% flash usage), approx. 1250 images (without flash usage) Playback time: approx. 560 minutes ¹ Using 4x Energizer Ultimate Lithium Batteries under the temperature at 23°C. Tested in compliance with CIPA standard. Actual results may vary depending on the shooting conditions/circumstances.
Interfaces	Connection Port: USB2.0 (high-speed compatible) / AV output terminal USB Connection: MSC/PTP Video Output Format: NTSC/PAL
Dimensions and Weight	Dimensions: Approx. 129.0 mm (W) x 96.5 mm (H) x 70.0 mm (D) (excluding the operation parts and protrusion) Weight: Approx. 650 g (loaded and ready with the dedicated battery and SD Memory Card), Approx. 590 g (body only)
Included accessories	Package Contents: USB Cable I-USB7, Strap O-ST132, Rechargeable Lithium-ion Battery D-LI109, Battery Charger D-BC109, Software (CD-ROM) S-SW138 <Mounted on the camera> Hot shoe cover F., Body Mount Cover Software: SILKYPIX [®] Developer Studio 3.0 LE

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The PENTAX K-50 is the perfect partner for all types of active shooting, and a talented guide to a brand-new photographic experience

A camera that is amazingly mobile and sporty, one that can preserve all your memories in beautiful images. An elegantly contoured body that fits perfectly in the hand, and is comfortable to carry. With a weather-resistant construction that withstands the rain, exceptional imaging power even in the dark, high-speed continuous shooting to capture a once-in-a-lifetime moment, and a large viewfinder image, the PENTAX K-50 takes you everywhere — even beyond the conventional boundaries of photography!



K-50



Standard colors: black, white and red

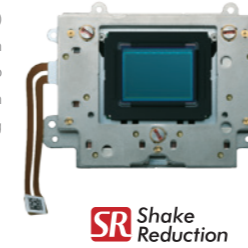


PENTAX K-50 with SMC PENTAX-DA*16-50mm F2.8 ED AL(IF) SDM (at 50mm) Aperture : F7.1; Shutter speed : 1/640 sec. ; Exposure compensation : -0.3 EV ; Sensitivity : ISO 100 ; White balance : AWB ; Custom image : Bright

The K-50 Navigates You to Beautiful Images

In-body SR mechanism to minimize camera shake with any lens

Featuring the PENTAX-original SR (Shake Reduction) mechanism, the K-50 minimizes camera shake with all compatible lenses — from wide-angle to telephoto — to assure sharp, blur-free images, even in such demanding situations as when using a telephoto lens or photographing dimly lit scenes.

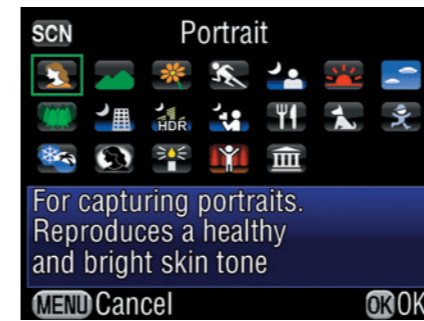


Without SR

With SR

Scene modes to produce professional-quality images with ease

With its 19 scene modes, the K-50 automatically optimizes camera and exposure settings for a particular scene or subject to produce a beautiful, professional-quality image.



Scene mode monitor display

Super-high-sensitivity shooting at ISO 51200 to capture low-light scenes and freeze fast-moving subjects

The K-50 offers super-high-sensitivity shooting with a top sensitivity of ISO 51200 (when expanded) to record well-defined images with minimal noise. You can handhold the K-50 to capture nightscapes without the help of a flash or tripod. With active subjects such as athletes, pets and stage performers, you can raise the shutter speed to prevent subject shake.



ISO100



ISO800



ISO3200

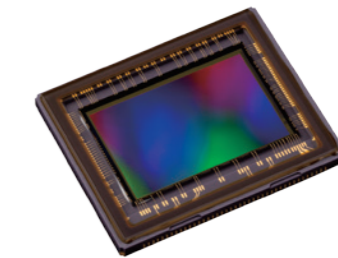


ISO12800

A PENTAX-exclusive technology designed for exceptional results

PRIME M imaging engine with 16.28 effective megapixels to deliver true-to-life, high-resolution images

The K-50 features a large APS-C-size CMOS image sensor to produce a beautiful bokeh effect. With approximately 16.28 effective megapixels, this sensor performs superbly in high-sensitivity ranges, while minimizing annoying noise. The PENTAX-original PRIME M imaging engine then makes the best use of the image data collected by the sensor. It raises the sensitivity to as high as ISO 51200 to compensate for the graininess of low-light scenes, while applying delicate processing to the subject's outlines, to produce natural, true-to-life images.



CMOS image sensor

PRIME M PENTAX Real Image Engine M



PRIME M imaging engine

Auto Picture mode for hands-off selection of the best shooting mode

When the mode dial is set to the AUTO position and the shutter release button is pressed, the K-50's Auto Picture mode automatically selects the most appropriate shooting mode for a given subject or scene — such as Portrait, Landscape or Moving Object — and optimizes all camera settings, assuring beautiful results, even for SLR beginners.



Auto Picture mode : Portrait

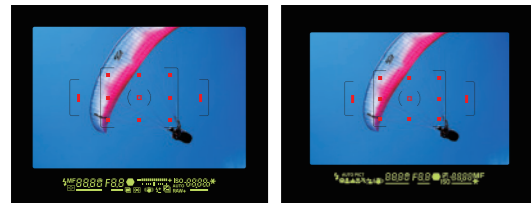
The K-50 Brings Inspiration and Excitement to Active Photographers

Large, easy-to-view viewfinder with nearly 100% field of view and 0.92-times magnification

Thanks to the incorporation of a high-quality glass pentaprism, the K-50's optical viewfinder offers an approximately 92% magnification to assure a large, clear view of the subject — even with the fast-moving subjects found in sports. In addition, the viewfinder offers a nearly 100% field of view for quick, accurate image composition.



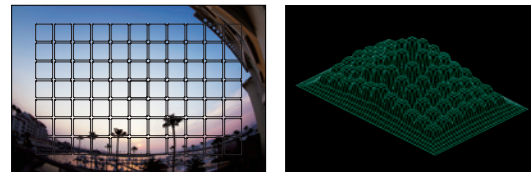
Glass pentaprism



K-50's viewfinder (0.92-times magnification) K-4's viewfinder (0.86-times magnification)

77-segment multi-pattern metering for faithful reproduction of high-contrast scenes

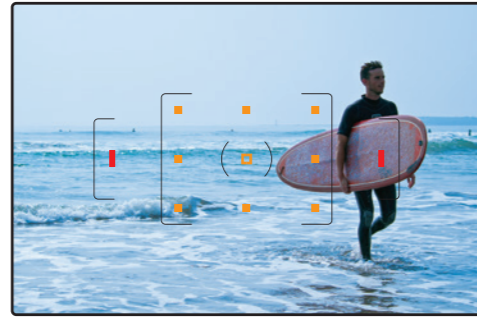
The K-50's advanced metering system makes extremely accurate measurement of illumination levels across the image field. By assessing such factors as the camera's alignment (horizontal or vertical), the subject's distance and position, and the lens's magnification, it then calculates the optimum exposure level for a given scene, assuring the best balance between subject and background, highlights and shadows. The K-50 also offers the option of center-weighted and spot metering.



Grid pattern of 77-segment multi-pattern metering Light distribution of 77-segment multi-pattern metering

11-point AF for speedy, pinpoint focusing on the subject

With its 11 sensor points, the K-50's AF system lets you compose the image exactly the way you like it. It features nine cross-type sensors in the middle for accurate, unflinching detection of the subject.

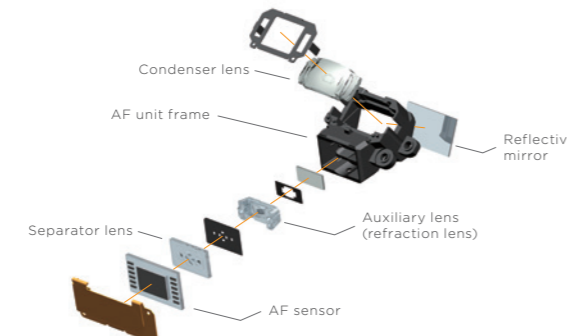


Nine cross-type sensors () are positioned in the middle.

A PENTAX-exclusive technology designed for exceptional results

SAFOX IX i+ AF module for exceptional autofocus accuracy

The K-50 features the state-of-the-art SAFOX IX i+ as its AF module. It assures extra-accurate autofocusing by minimizing chromatic aberrations within the module with the use of a refraction lens. Its light source sensor also compensates for the minute focusing errors caused by the different wavelengths of various sources. Because of this, the K-50 captures the subject in sharp, crisp focus, even under artificial light sources.



Select-area expansion to track a moving subject

When photographing a moving subject in the AF.C (Continuous) mode, this function keeps tracking the subject even when it moves away from a pre-assigned select point by assessing the distance data collected by neighboring focus sensors. This prevents erroneous focusing on the background.



When the central sensor is selected as a select point, the eight neighboring sensors are used to assist the tracking. The activated sensors are highlighted in pink on the status screen.



The sensor point shifts automatically (as does the superimposed select point), as the subject moves away. (Note: Only the in-focus point is displayed on the actual status screen.)

1/6000-second high-speed shutter to freeze the action

With its top speed of 1/6000 second, the K-50's high-speed shutter lets you freeze the split-second action of fast-moving subjects, such as athletes and pets. When shooting in bright sunshine, it also lets you open up an aperture to intentionally throw the background out of focus without overexposing the subject.

High-speed burst shooting at six images per second for the best shot of a moving subject

The K-50's burst shooting mode captures a maximum of six images in a single second.* Whether it's composition, focus or expression, this mode gives you a better chance of capturing the best shot of a moving subject within a series of recorded images.



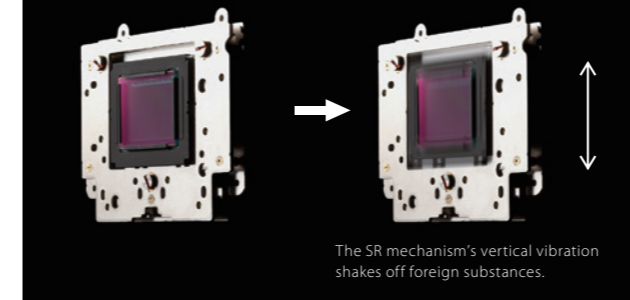
*When using the D-L1109 battery. Approximately five frames per second with AA-size lithium batteries.

DR mechanism to always keep the image sensor clean



The surface of the CMOS image sensor is treated with PENTAX-original SP (Special Protect) coating to minimize the clinging of dust. Any dust that does adhere to the surface is then effectively removed by the DR (Dust Removal) mechanism, which shakes the dust off the sensor using high-speed vibration to prevent any annoying dust spot from appearing on captured images.

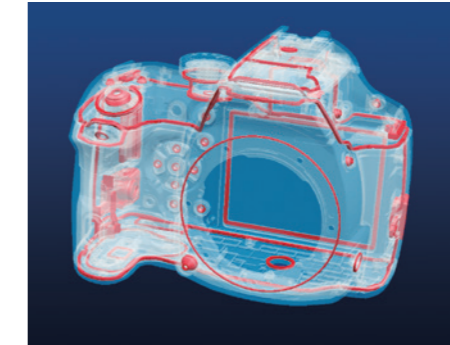
The SP coating applied to the sensor (low-pass filter) prevents adhesion of foreign substances.



The SR mechanism's vertical vibration shakes off foreign substances.

Weather-resistant, dustproof, cold-resistant body for dependable performance even in harsh conditions

Since the K-50 features a dependable weather-resistant, dustproof construction, you can bring the camera along for all kinds of picture-taking, regardless of location or weather. Thanks to cold resistance down to -10°C, you can even use it for mid-winter outdoor shooting.



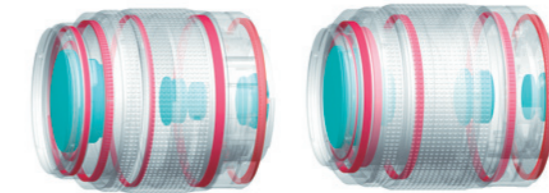
Distribution of seals

Note: Battery performance will deteriorate as the temperature at the shooting location falls. For shooting in cold locations, we advise carrying spare batteries, and keep them warm by storing them in a warm spot of your outfit.

WR/AW-series lenses** for all-weather, all-location shooting



Newly added to the WR series, the DA L 18-55mm F3.5-5.6AL WR and DA L 50-200mm F4-5.6ED WR lenses feature a simplified weather-resistant construction to repel a light splash of water. A selection of the DA* AW series featuring a more rugged weather-resistant, dustproof construction is also available. By coupling the K-50 with any of these lenses, you can create a highly dependable, all-weather digital imaging system.



SMC PENTAX-DA L18-55mm F3.5-5.6AL WR SMC PENTAX-DA L50-200mm F4-5.6ED WR

Dual power supply to prevent battery shortages

In addition to the standard rechargeable lithium-ion battery, the K-50 can also be powered by four AA-size batteries using the optional battery holder. Even when the standard battery runs out of charge, you can easily replace it with easy-to-obtain AA-size batteries and resume shooting without any delay.



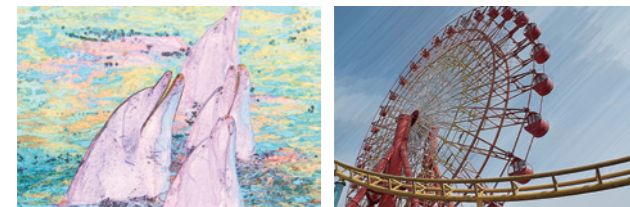
Rechargeable lithium-ion battery AA-size batteries (with optional D-BH109 Battery Holder)



The K-50 Provides a Range of Creative Tools for Personalized Expressions

Digital filters for easy image modifications

A digital filter can change the tone or gradation of your image to give it a more striking impression. You can choose one of seven filters during shooting, or apply one of 19 filters later to a recorded image. You can experiment with different filters until you find the desired visual effect. You can even apply multiple filters to a single image, or fine-tune the parameters of a specific filter to explore your own creative possibilities.



Water Color

Pastel

Recording of Full HD and interval movies, with a choice of creative tools

The K-50 captures beautiful Full HD movie clips (at 30 frames per second, in MPEG-4 format). You can add various visual effects using custom images and digital filters, and also remove unwanted segments using simple-to-use editing tools. The K-50 also provides the interval movie mode, which captures a series of movie clips at a fixed interval, then edits them into a single movie (in Motion JPEG). This mode lets you dramatize familiar, everyday events, such as the blossoming of a flower, by compressing the progress of the event into a shorter timeframe.

Note: The camera's shake reduction mode is switched to digital movie SR during movie recording.



HDR Shooting to prevent pitch-black shadows and whitewashed highlights

The K-50's HDR (High Dynamic Range) mode works effectively in high-contrast scenes, as it captures three images at different exposure levels (normal, over and under), then selects the ideally exposed areas from these images to produce one extra-wide-gradation composite picture free of excessive shadows and highlights. With this mode, you can create an image with a gradation similar to human vision, or add a dynamic, artistic expression with exaggerated contrast.



HDR image



Normal image

Note: The HDR mode is available only in JPEG recording format. This mode is not selectable during RAW+ shooting.

In-body RAW development and buffer RAW filing for flexible post-recording image development and storage

Since the K-50 offers in-body, computer-free development of RAW-format files, you can create the most satisfying image by choosing the desired custom image or adjusting white-balance settings. It also has a buffer RAW filing function that stores the last-captured JPEG-format image as RAW-format data, allowing you to make desired adjustments after shooting, without compromising image quality.

Note: Only the last-captured JPEG-format image (the last image of the sequence in continuous shooting, or a normal-exposure image in HDR shooting) can be filed as RAW-format data.

Flexible Live-View shooting, with easy tracking of the subject on the LCD monitor

Low-and high-angle shooting is often a troublesome task with the optical viewfinder. The K-50's Live-View mode, however, makes it easier and more comfortable for you, since it lets you angle the camera more freely. It also allows you to more accurately visualize the final image (such as brightness and tone) on the LCD monitor. You can even take advantage of such handy tools as the Face Recognition AF mode and a grid display during Live-View shooting.



Note: Simulated image.

Multiple exposure for easy composition of dramatic images

You can tell a fascinating story simply by combining several scenes in a single image. The K-50 lets you compose a single picture from as many as nine separate images. During Live-View shooting, you can even check an existing composite image on the LCD monitor when framing the next image, for easy composition of the entire image.



PENTAX K-50 with SmC PENTAX-DA55-300mmF4-5.8ED (at 300mm)
Aperture : F6.3 ; Shutter speed : 1/640 sec. ; Exposure compensation : 0.0EV ; Sensitivity : ISO 100 ; White balance : Daylight ; Custom image : Bright



PENTAX K-50 with SmC PENTAX-DA*60-250mmF4ED [IF] SDM (at 250mm)
Aperture : F4.0 ; Shutter speed : 1/800 sec. ; Exposure compensation : +0.3EV ; Sensitivity : ISO 400 ; White balance : CTE ; Custom image : Reversal Film




PENTAX K-50 with SmC PENTAX-DA15mmF4ED AL Limited
Aperture : F5.6 ; Shutter speed : 1/250 sec. ; Exposure compensation : 0.0EV ; Sensitivity : ISO 200 ; White balance : AWB ; Custom image : Reversal Film




 PENTAX K-50 with SmC PENTAX-DA*16-50mm F2.8 ED AL [IF] SDM (at 16mm)
Aperture : F4.5 ; Shutter speed : 1/1000 sec. ; Exposure compensation : +1.0EV ; Sensitivity : ISO 100 ; White balance : AWB ; Custom image : Bright




 PENTAX K-50 with SmC PENTAX-DA*55mmF1.4 SDM
Aperture : F4.5 ; Shutter speed : 1/50 sec. ; Exposure compensation : 0.0EV ; Sensitivity : ISO 100 ; White balance : AWB ; Custom image : Portrait



 PENTAX K-50 with SmC PENTAX-DA 50mmF1.8
Aperture : F5.6 ; Shutter speed : 1/80 sec. ; Exposure compensation : +1.3EV ; Sensitivity : ISO 100 ; White balance : CTE ; Custom image : Vibrant



 PENTAX K-50 with SmC PENTAX-DA 35mmF2.8 Macro Limited
Aperture : F5.0 ; Shutter speed : 1/200 sec. ; Exposure compensation : 0.0EV ; Sensitivity : ISO 100 ; White balance : AWB ; Custom image : Reversal Film

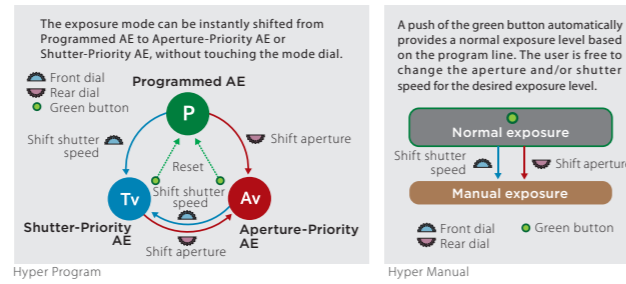
The K-50 Lets You Capture Images in Your Style

Dual electronic dials for effortless fingertip control

A pair of electronic dials are strategically positioned — one at the front and another to the back of the camera grip — to allow instant shift of aperture and shutter speed with fingertip control. This intuitive control system makes picture-taking more fun and spontaneous than ever before.

Flexible exposure system for easy control of light and shadow, bokeh effect and subject motion

The K-50's Hyper Program mode lets you choose one of the three auto-exposure modes (Program, Aperture-priority and Shutter-priority) without the need to turn the mode dial. The K-50's comprehensive exposure control system also offers such options as the Metered Manual (with Hyper Manual control for simplified manual exposure operation), Sv (Sensitivity-priority) and Tv (Shutter and Aperture-priority) modes to satisfy individual preferences.



An array of customization features to personalize camera operation

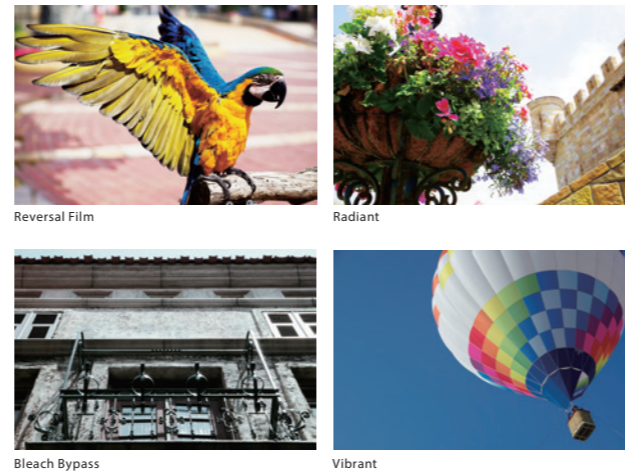
The most frequently used functions often differ from user to user. That's why the K-50 offers the flexibility of assigning user-preferred functions to the two electronic dials and the RAW/Fx and AF/AE-L buttons. By assigning a function demanding frequent setting changes to your choice of dial or button, you are assured of speedy, intuitive control. You can also assign your favorite settings to the USER mode to eliminate the need to set individual functions separately.



Custom images to add distinctive finishing touches



The K-50's custom image mode lets you choose the desired finishing touch for a captured image, from a choice of 11 custom images including Vibrant, Radiant and Bleach Bypass. With each custom image, you can make minute adjustment of the base parameters to further customize the effect.



Note: The base parameters of each custom image are adjustable, including saturation, hue, key, contrast, sharpness, filter effect (Monochrome only), tone (Bleach Bypass, Monochrome and Muted only).

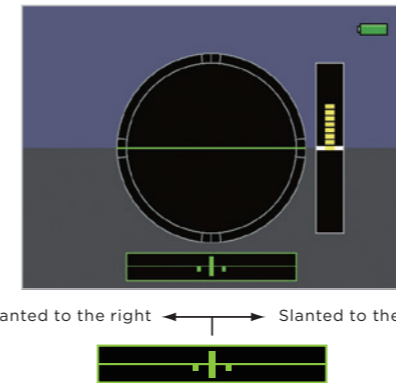
D-range setting for effective compensation of extreme highlights and shadows

This feature allows you to produce an extra-wide-contrast image free of pitch-black shadows and washed-out highlights — particularly effective when photographing extremely high-contrast subjects such as backlit scenes.



Digital level for pinpoint detection of inclination

The high-precision digital level detects and indicates the horizontal and vertical inclination of the camera at a glance, useful for ensuring the precise horizontal or vertical alignment of the camera in landscape photography. In addition to the indication on the LCD monitor, the inclination is also displayed on the exposure bar scale in the viewfinder.***



Note: In the LCD monitor, horizontal inclination is indicated at bottom, while vertical inclination is displayed on the right.

Automatic horizon correction to compensate for a minute slant of the frame

Each time the shutter is released, the K-50 automatically compensates for any undetectable horizontal slanting of the image field. The camera detects its inclination at the moment of exposure, then rotates the CMOS image sensor to a level position using the SR mechanism. This function comes in handy during handheld shooting, when the photographer often tilts the camera unintentionally.

Note: The maximum compensation angle is ± 1.5 degrees with SR on, or ± 1 degree with SR off.

Composition adjustment to make fine framing adjustments

This function allows you to make minute adjustment of framing by rotating and/or shifting the CMOS image sensor without the need to remove the K-50 from a tripod. By eliminating the need to adjust the tripod, it makes framing adjustments speedy and effortless.

Compatibility with GPS unit for the tracking of nature and celestial bodies

The K-50 is compatible with the optional O-GPS1 GPS unit. When installed on the K-50 camera body, this unit records the latitude, longitude and altitude of a shooting location on a captured image for easy image filing and quick data search. It can also display an electronic compass to point the exact direction the camera is facing. It even offers the ASTROTRACER function, which automatically synchronizes the camera's CMOS image sensor with the movement of celestial bodies based on the GPS data. As the result, you can capture faint stars as solid points, rather than blurry streaks.



Note: The Simple Navigation function is not available with the K-50.

Compatibility with Eye-Fi wireless LAN memory cards

Since the K-50 accepts Eye-Fi wireless LAN memory cards, you can make wireless transfer of captured images to a smartphone or personal computer. The user has a choice of Eye-Fi transfer mode from AUTO (automatic transfer of unsent images), SELECT (transfer of user-selected images) or OFF (no image transfer made).



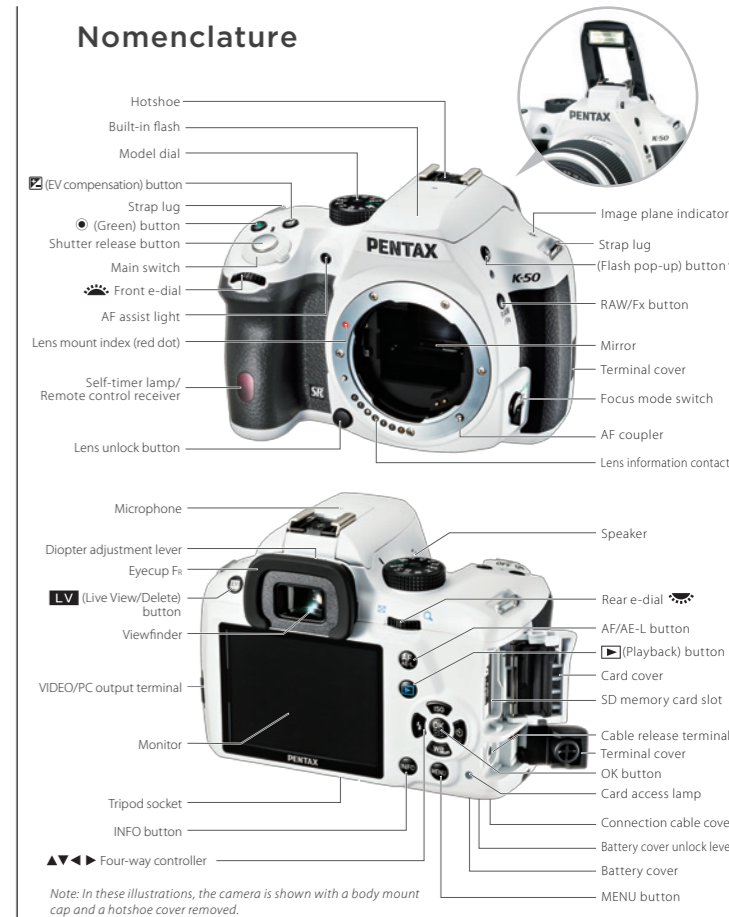
Popular RAW-data development and image-processing software included

SILKYPiX® Developer Studio 3.0 LE

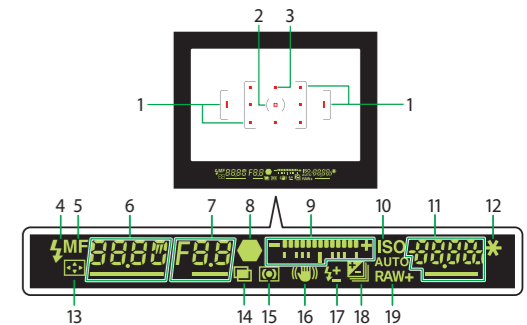
This software develops RAW-format data, and saves the results as JPEG- or TIFF-format files. Based on the acclaimed SILKYPiX® data processing engine, it features high-speed development of the RAW-format files captured by the K-50, including exposure and white-balance adjustments and advanced color conversion. It also has a simple-to-command user interface, for flawless, intuitive control.



Nomenclature



Viewfinder display



- | | | | |
|-----------------------|---|--------------------------------|---------------------|
| 1 AF frame | 7 Aperture value | 12 AE lock | 18 EV compensation/ |
| 2 Spot metering frame | 8 In-focus indicator | 13 AF point shift | Exposure bracketing |
| 3 AF point | 9 EV bar scale | 14 Multiple exposure | 19 File format |
| 4 Flash indicator | 10 ISO/ISO AUTO | 15 AE metering | |
| 5 Manual focus | 11 ISO Sensitivity/Remaining image storage capacity (indicated after shutter release) | 16 Shake reduction | |
| 6 Shutter speed | | 17 Flash exposure compensation | |






120 color combinations to express your style and taste

In addition to three standard colors, the K-50 offers 17 optional colors for the camera body, and six for the grip. With a total of 120 color combinations to choose from, you will find the one that makes your photo life more exciting and fashionable.

Note: The color samples shown in this brochure are computer-simulated, and may differ from actual colors.

Order/purchase steps in the K-50 color ordering system

  Choose the desired color using the color simulator in the K-50 product brochure or on the PENTAX home page.

Order  Specify the desired color at your local retail store.

Production  Your K-50 will be produced upon the reception of your order.

Pick-up  Pick up your K-50 at your local retail store.

PENTAX will deliver your K-50 to your local retail store.
Note: There may be some delay in certain situations, such as when an excessive number of orders are received.



Regular color
Black x Black



Regular color
White x Black



011 Pink x Black



Regular color
Red x Black



022 Orange x Black



028 Yellow x Black



034 Green x Black



040 Purple x Black



046 Blue x Black



052 Cocoa Brown x Black



001 Black x White



006 White x White



012 Pink x White



017 Red x White



023 Orange x White



029 Yellow x White



035 Green x White



041 Purple x White



047 Blue x White



053 Cocoa Brown x White



002 Black x Brown



007 White x Brown



013 Pink x Brown



018 Red x Brown



024 Orange x Brown



030 Yellow x Brown



036 Green x Brown



042 Purple x Brown



048 Blue x Brown



054 Cocoa Brown x Brown



003 Black x Aqua



008 White x Aqua



014 Pink x Aqua



019 Red x Aqua



025 Orange x Aqua



031 Yellow x Aqua



037 Green x Aqua



043 Purple x Aqua



049 Blue x Aqua



055 Cocoa Brown x Aqua



004 Black x Pink



009 White x Pink



015 Pink x Pink



020 Red x Pink



026 Orange x Pink



032 Yellow x Pink



038 Green x Pink



044 Purple x Pink



050 Blue x Pink



056 Cocoa Brown x Pink



005 Black x Yellow



010 White x Yellow



016 Pink x Yellow



021 Red x Yellow



027 Orange x Yellow



033 Yellow x Yellow



039 Green x Yellow



045 Purple x Yellow



051 Blue x Yellow



057 Cocoa Brown x Yellow



Product lineup



PENTAX K-50 body
• K-50 body



PENTAX K-50 Lens Kit
• K-50 body
• SMC PENTAX-DA 18-55mm F3.5-5.6 AL WR lens



PENTAX K-50 Double Zoom Kit
• K-50 body
• SMC PENTAX-DA 18-55mm F3.5-5.6 AL WR lens
• SMC PENTAX-DA 50-200mm F4-5.6 ED WR lens



PENTAX K-50 18-135 Lens Kit
• K-50 body
• SMC PENTAX-DA 18-135mm F3.5-5.6 ED ALL[F]DC WR lens

Note: The color samples shown in this brochure are computer-simulated, and may differ from actual colors.

The K-50's Lens Interchangeability Opens Up a Whole New World of Photographic Expression

Since PENTAX K-series SLRs compensate for camera shake by themselves, the optics of interchangeable lenses can be designed functionally and space-efficiently without the need to install blur-compensating elements. That's why they are superb in image rendition and durability. With a full selection of interchangeable lenses to choose from, you can experiment with their distinctive characteristics and discover new photographic expressions.

The HD/smC PENTAX series brings the K-mount tradition to the future

Fish-eye zoom | SMC PENTAX-DA FISH-EYE10-17mm F3.5-4.5ED[IF]

Ultra-wide-angle zoom | SMC PENTAX-DA12-24mmF4ED AL[IF]

Standard zoom | SMC PENTAX-DA*16-50mm F2.8ED AL[IF] SDM
SMC PENTAX-DA17-70mmF4AL[IF] SDM
SMC PENTAX-DA18-55mmF3.5-5.6AL WR

Telephoto zoom | SMC PENTAX-DA*50-135mmF2.8ED[IF] SDM
SMC PENTAX-DA*60-250mmF4ED[IF] SDM
SMC PENTAX-DA50-200mmF4-5.6ED WR
SMC PENTAX-DA55-300mmF4-5.8ED

High-magnification zoom | SMC PENTAX-DA18-135mmF3.5-5.6ED AL[IF] DC WR
SMC PENTAX-DA18-270mmF3.5-6.3ED SDM

Ultra-wide-angle | SMC PENTAX-DA15mmF4ED AL Limited
SMC PENTAX-DA14mmF2.8ED[IF]

Wide-angle | SMC PENTAX-DA21mmF3.2AL Limited

Standard | SMC PENTAX-DA35mmF2.4AL

Quasi-standard | SMC PENTAX-DA40mmF2.8 Limited
SMC PENTAX-DA40mmF2.8XS

Telephoto | SMC PENTAX-DA*55mmF1.4 SDM
SMC PENTAX-DA*200mmF2.8ED[IF] SDM
SMC PENTAX-DA*300mmF4ED[IF] SDM
SMC PENTAX-DA70mmF2.4 Limited
SMC PENTAX-DA50mmF1.8

Super-telephoto | HD PENTAX-DA560mmF5.6ED AW

Standard/Macro | SMC PENTAX-DA35mmF2.8 Macro Limited

Macro | SMC PENTAX-D FA MACRO 50mmF2.8
SMC PENTAX-D FA MACRO 100mmF2.8 WR



Perfect for portraits and snapshots

SmC PENTAX-DA50mmF1.8

This medium-telephoto lens has a focal length of 76.5mm in the 35mm format and a maximum aperture of F1.8, which creates a beautiful bokeh effect in the background.



Standard lens with natural perspective and beautiful bokeh

SmC PENTAX-DA35mmF2.4AL

This versatile lens is ready for a variety of applications, including snapshot photography. Its large maximum aperture can throw the background completely out of focus.



180-degree field of view and unique distortion

SmC PENTAX-DA FISH-EYE 10-17mmF3.5-4.5ED[IF]

This fish-eye zoom captures extra-wide-perspective landscapes. It can also produce humorous images, such as distorted figures and pet faces.



Compact and lightweight, for life-size macro photography

SmC PENTAX-D FA MACRO 50mmF2.8

This macro lens projects a life-size image of flowers and foods onto the image sensor. It can also be used as a large-aperture, medium-telephoto lens.



Colorful lenses that are perfect partners for color-order bodies

DA35mmF2.4AL Order Colors

•53.5mm (in 35mm format) • Case and hood included

With a choice of 11 color-order lenses, you will find the right partner for your colorful K-50 body.



Notes:
• Delivery will take approximately three weeks from the date the order is placed.
• The actual colors of the lenses may differ from those of color-order K-50 bodies.

Accessories



Compact yet multi-featured, ideal for all types of shooting sessions
AF200FG Auto Flash (Case included)



A diagonal zipper for quick removal of the camera from the carrying position
O-CC84 Camera Case



A high-performance GPS unit for astronomical photography
O-CC84 Camera Case



Compact, lightweight and exclusive for the K-50, handy as a spare battery
D-LI109 Rechargeable Lithium-Ion Battery



For easy recharging of the D-LI109 battery
K-BC109J Battery Charger Kit



Power supply from standard outlets, for extended shooting and playback
K-AC128J AC Adapter Kit



For push-button release from a distance, convenient for nightscapes and family/group photos
Remote Control F



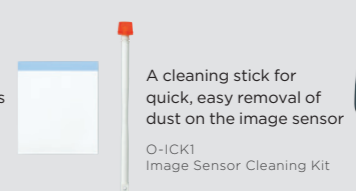
A weather-resistant remote controller, perfect for the shooting in drizzle and by the water
O-RC1 Waterproof Remote Control



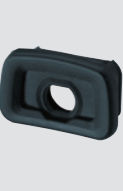
Housing four AA-size batteries to power the K-50
D-BH109 AA Battery Holder



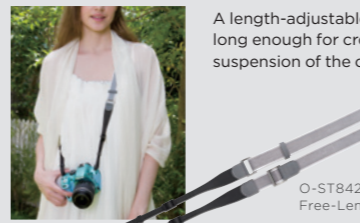
A shutter-release tool, handy for extended exposures
CS-205 Cable Switch



A cleaning stick for quick, easy removal of dust on the image sensor
O-ICK1 Image Sensor Cleaning Kit



An eyecup with built-in lens to magnify the viewfinder image
O-ME53 Magnifier Eyecup



A length-adjustable strap; long enough for cross-shoulder suspension of the camera
O-ST842 Free-Length Strap



For quick, spontaneous response to every photo opportunity
O-ST991 Hand Strap White/Red/Black



A firm hold of the camera, for active photographers
O-ST128 Hand Strap Leather Beige Carbon Black

Focusing screens

Optimized for the K-50, these interchangeable focusing screens facilitate focusing and framing operation.

	MF-60 (standard with K-50)		MI-60 (AF Scale Matte)		ML-60 (AF Cross-Lined Matte)		ME-60 (All-Surface Matte)
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Storage capacity (with a 4GB memory card at a 3:2 aspect ratio)

Recorded pixels	RAW			JPEG					(Number of Images)				
	16M(4928x3264)	16M(4928x3264)	12M(4224x2816)	8M(3456x2304)	5M(2688x1792)	4GB	8GB	16GB	32GB	4GB	8GB	16GB	32GB
Quality level	DNG	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★
	150	421	744	1471	569	1005	1978	843	1489	2873	1387	2413	4641

Movie recording capacity (with a 4GB memory card at Best quality level)

Recorded pixels	Full HD (1920x1080,16:9)				HD (1280x720,16:9)				VGA (640x480,4:3)			
	30fps	25fps	24fps	60fps	50fps	30fps	25fps	24fps	30fps	25fps	24fps	
4GB	16:21	19:34	20:21	16:21	19:34	28:18	33:47	35:08	41:51	49:48	51:47	

• Operation-confirmed SD/SDHC/SDXC memory cards: [Panasonic/Toshiba/SanDisk] SD card memory capacity: 1GB, 2GB; SDHC card memory capacity: 4GB, 8GB, 16GB, 32GB; SDXC card memory capacity: 64GB. [SanDisk] SDXC card memory capacity: 128GB. [Eye-Fi Japan] SDHC card memory capacity: 4GB (Connect X2), 8GB (Mobile X2/Pro X2), 16GB (Pro X2).
• The above figures are effective as of June 2013. • Compatible with UHS-I speed class. • Use of a high-speed SD memory card is recommended for movie recording, as the recording may terminate during recording if the writing speed is too low. • Operation tests have been conducted by the individual memory card manufacturers. PENTAX does not guarantee their performance under any circumstances.

System requirements

Windows [OS] Windows® 8 (32 bit/64 bit), Windows® 7 (32 bit/64 bit), Windows® Vista (32 bit/64 bit), or Windows® XP (SP 3 or later, Home/Pro 32 bit); administrator authorization is required for installation; the system will operate as a 32-bit application on a 64-bit OS. **[CPU]** Intel® Pentium®-compatible processor (Pentium® 4/AMD Athlon™ XP or later recommended); Compatible with multi-core processors (Intel® Core™ i7, Intel® Core™ i5, Intel® Core™ 2 Quad, Intel® Core™ 2 Duo, AMD Phenom™ II X6 or X4, AMD Athlon™ II X4 or X2, or equivalent).
[Macintosh [OS]] Mac OS X 10.8, 10.7, 10.6 or 10.5. **[CPU]** Intel®-compatible processor or Power PC®.
[Windows/Macintosh [RAM]] 1GB or more (2GB or more recommended). **[Hard disk space]** More than 100MB free disk space for program installation and system start-up; approx. 10MB free disk space per file for image file storage. **[Monitor]** 1024 x 768 pixels, 24-bit full-color monitor, or better.
Notes:
• The operating system must be pre-installed in the computer, and updated to the latest version.
• The system requirements described above do not necessarily guarantee proper operations with all computers.