

RICOH
imagine. change.

PENTAX K-70

A DSLR equipped for outdoor photography

All Weather DSLR

PENTAX **K-70**



PENTAX K-70



An all-weather digital SLR camera expands the boundaries of photo shooting, with new opportunities and discoveries in scenic photography

The PENTAX K-70 has a compact body for easy carry-along to any outdoor shooting. Its outstanding weather-resistant performance and enormous imaging power, combining true-to-life image description and high-sensitivity shooting, make it extremely reliable, even in most demanding shooting conditions.

Whether it is under bright, blue skies, on wild, overcast days, in the gentle rains, or under dark, starry skies, the PENTAX K-70 captures the beauty of grand nature in an astonishingly beautiful image.

The PENTAX K-70: a camera that brings you new experiences, new excitement and new discoveries in beautiful scenery, while helping you to be more masterful in outdoor photography.



All Weather DSLR



· PENTAX K-70 SILKY SILVER
· HD PENTAX-DA
55-300mmF4.5-6.3ED PLM WR RE



· PENTAX K-70 BLACK
· SMC PENTAX-DA
18-135mmF3.5-5.6ED AL[IF] DC WR



HD PENTAX-DA 16-85mmF3.5-F5.6ED CD WR Aperture: F5.6, Shutter speed: 1/20 sec., Exposure compensation: -1.0EV, Sensitivity: ISO100, White balance: AWB, Custom Image: Bright, Pixel Resolution: ON (Motion Correction: ON)

Outdoor-friendly design to expand the boundaries of photography in harsh weather and demanding environments

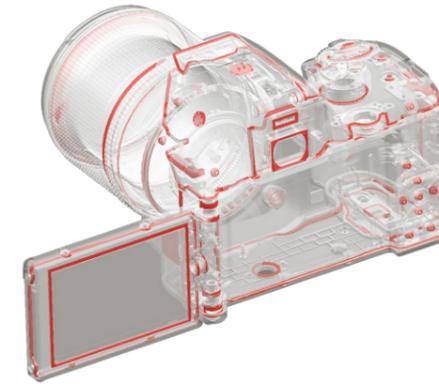
Dustproof, weather-resistant body

A comprehensive imaging system, including lens, to take on challenging scenes

The PENTAX K-70 incorporates 100 sealing parts throughout its body to prevent the intrusion of water and dust into the interior. Paired with a PENTAX AW- or WR-series lens, you have a highly dependable imaging system with superb environment-resistant performance.

AW: All Weather (dustproof and weather-resistant), WR: Weather Resistant

** To eliminate the potential causes of breakdown or malfunction, we advise users to wipe rain or water off the PENTAX K-70 completely and as soon as possible to keep it dry.*



Outstanding cold-proof performance down to -10°C

Excellent reliability proven in stringent operation tests

Subjected to stringent environmental tests in temperatures as low as -10°C, the PENTAX K-70 provides dependable cold-weather performance, with stable, responsive, high-precision operation of mechanisms and circuitry even in freezing locations.

** Battery performance may deteriorate as the temperature of the shooting location goes down. When using the PENTAX K-70 in low-temperature locations, we advise users to carry a spare battery and keep it warm by storing it in a pocket.*

Excellent operability, even with a gloved hand

Control buttons and mode dial

Four buttons of the four-way controllers are contoured for easy access, while the size of the control buttons and the height of the mode dial are designed for optimum comfort and utmost operability.



Grip

The PENTAX K-70's grip is designed to assure a firm hold of the camera body, even when wearing gloves.

Compact design

A compact, maneuverable body, handy for outdoor shooting

Featuring a dustproof, weather-resistant body and a vari-angle LCD monitor, the PENTAX K-70 has also been designed to be compact and maneuverable. By pairing it with one of the compact, lightweight PENTAX-DA-series lenses, you can enjoy outdoor photography more easily and intuitively than ever before.

High-precision autofocus even at -3EV illumination level

The PENTAX K-70 features a high-sensitivity AF sensor module with nine cross-type sensors in the middle, which detects the subject with great accuracy even in dark locations.



DR (Dust Removal) mechanism



The PENTAX K-70's image sensor is treated with PENTAX-original SP coating to prevent dust from clinging to the surface. If any dust remains on the surface, the PENTAX-original DR (Dust Removal) mechanism can shake it off using high-speed vibrations, preventing any dust spots from appearing on captured images.



Situation image of -10°C cold-environment performance.





HD PENTAX-DA 16-85mmF3.5-5.6ED DC WR
Aperture: F6.3, Shutter speed: 1/500 sec., Exposure compensation: -0.7EV, Sensitivity: ISO 100, White balance: AWB, Custom image: Landscape



HD PENTAX-DA 55-300mmF4.5-6.3ED PLM WR RE
Aperture: F6.3, Shutter speed: 1/400 sec., Exposure compensation: 0.0EV, Sensitivity: ISO 400, White balance: AWB, Custom image: Landscape



smc PENTAX-DA 50-135mmF2.8ED[IF] SDM
Aperture: F4.5, Shutter speed: 1/100 sec., Exposure compensation: -0.7EV, Sensitivity: ISO 400, White balance: CTE, Custom image: Landscape



HD PENTAX-DA 16-85mmF3.5-5.6ED DC WR
Aperture: F5.0, Shutter speed: 1/25 sec., Exposure compensation: 0.0EV, Sensitivity: ISO 100, White balance: AWB, Custom image: Bright

Super-high-sensitivity photography to capture dramatic scenes of nature in sharp, high-resolution images

Top sensitivity of ISO 102400 **NEW**

Super-high-sensitivity photography and remarkable imaging power

The PENTAX K-70 features a new accelerator unit, which has been designed to optimize the newly developed, high-performance noise-processing technology. In combination with the PRIME MII imaging engine, this unit effectively reduces noise to a minimum, even during super-high sensitivity shooting at ISO 102400 (standard output sensitivity). This combination not only improves image quality at more commonly used sensitivities, but also delivers beautifully depicted images at higher sensitivities by minimizing graininess. As the result, it expands the boundaries of low-illumination photography.

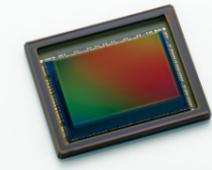


ISO 25600

AA-filter-free design APS-C-size CMOS image sensor with 24.24 effective megapixels **NEW**

High-performance image sensor unit for fine-detailed images

The PENTAX K-70 features an AA-filter-free design, which eliminates the adverse effect of an AA (anti-aliasing) filter on the camera's resolving power. This design optimizes the resolving power of the approximately 24.24 effective megapixels provided by the high-resolution APS-C-size CMOS image sensor, while assuring high-speed readout of rich-gradation, 14-bit image data.



AA-filter simulator

State-of-the-art function to minimize moiré and false colors

The PENTAX K-70's AA filter simulator works effectively to eliminate moiré and false colors at the image's edges. With the help of the SR (Shake Reduction) mechanism, it applies microscopic vibrations to the image sensor unit to minimize the generation of these adverse effects on your images.

- 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.

PRIME MII imaging engine and new accelerator unit **NEW**

High-efficiency image processing and effective noise reduction, for true-to-life rendition of gradation and texture

Thanks to the combination of the PRIME MII imaging engine and a newly developed accelerator unit that effectively suppresses noise, the PENTAX K-70 assures true-to-life rendition of gradation and texture at all sensitivity levels.



Accelerator Unit

An array of compensation functions

High-quality images assured, even at the edge of the image field

The PENTAX K-70 effectively compensates the distortion, vignetting and lateral chromatic aberration caused by the particular characteristics of a lens to deliver sharp, high-contrast images, even at the edges. It also compensates a fringe effect during RAW-data development, and even compensates for the deterioration of the resolving power caused by diffraction phenomena during the image-processing stage.

- Measured under RICOH IMAGING in-house testing standards.
- This function is usable with D FA*, DA* and DA L*-series lenses. FA*-series lenses are also usable, except for some models.



In-body SR mechanism

Effective shake reduction with all lenses, assuring improved compensation effects



The PENTAX K-70 features the PENTAX-original, in-body SR (Shake Reduction) mechanism with a 4.5-shutter-step compensation effect*. It not only minimizes camera shake effectively with all PENTAX interchangeable lenses — from ultra-wide-angle to super-telephoto models — but also works superbly with panning shots.

- Measured in conformity with CIPA testing standards (using the smc PENTAX-DA 18-135mmF3.5-5.6ED AL[IF] DC WR lens, at a focal length of 135mm)



SR : OFF

SR : ON

Fine Sharpness and Extra Sharpness

The PENTAX K-70 provides a pair of sharpness-enhancing tools as advanced and useful as those featured in upper-class models: The Fine Sharpness function, which outlines the subject beautifully and naturally with thin lines; and the Extra Sharpness function, which emphasizes the outline of a low-contrast subject more prominently with much finer lines.



HD PENTAX-DA 16-85mmF3.5-5.6ED DC WR Aperture: F8.0, Shutter speed: 1/25 sec., Exposure compensation: -0.7EV, Sensitivity: ISO 100, White balance: CTE, Custom image: Landscape



HD PENTAX-DA 16-85mmF3.5-5.6ED DC WR Aperture: F5.0, Shutter speed: 1/200 sec., Exposure compensation: -1.3EV, Sensitivity: ISO 100, White balance: AWB, Custom image: Landscape



SMC PENTAX-DA* 60-250mmF4ED[IF] SDM Aperture: F4.0, Shutter speed: 1/250 sec., Exposure compensation: 0.0EV, Sensitivity: ISO 400, White balance: Multi Auto WB, Custom image: Bright



SMC PENTAX-DA* 50-135mmF2.8ED[IF] SDM Aperture: F2.8, Shutter speed: 1/60 sec., Exposure compensation: 0.3EV, Sensitivity: ISO 100, White balance: Daylight, Custom image: Reversal Film



HD PENTAX-DA 16-85mmF3.5-5.6ED DC WR Aperture: F6.3, Shutter speed: 1/320 sec., Exposure compensation: +0.7EV, Sensitivity: ISO 100, White balance: AWB, Custom image: Bright

High-performance AF system to capture sharp, crisp images in a wide range of photographic scenes

Optical viewfinder with 100% field of view and 0.95-times magnification

For optimum ease of viewing and focusing

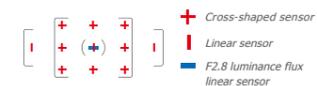
With its approximately 100% field of view and nearly 0.95-times magnification, the PENTAX K-70's viewfinder provides a large, sharp view of the subject. With very little aberration even at the corners of the image field, it makes it easy to check the focus, bokeh (defocus) effect and image composition, allowing you to concentrate on the shooting.

SAFOX X

The PENTAX K-70's SAFOX X AF sensor module incorporates an AF sensor highly sensitive to low-illumination scenes and a diffractive lens in its optics to optimize autofocus accuracy, while minimizing chromatic aberration. By improving the algorithm for moving objects, the focusing accuracy in the Continuous AF (AF-C) mode has also been enhanced.

11-point multi-pattern AF system

The PENTAX K-70's 11-point AF system has nine cross-type sensors in the middle to capture the subject in sharp focus, while the central AF sensor accommodates an F2.8 light flux to assure pinpoint focus on the subject, even when using a large-aperture lens with a shallow depth of field. The Expanded Area Select function is also available for moving subjects.



Outdoor-friendly LCD monitor with a red-lighted monitor display function **NEW**

Easy adjustment of brightness to a desired level

The PENTAX K-70 features an outdoor-friendly LCD monitor whose brightness level can be instantly adjusted to the desired level: brighter during outdoor shooting in sunshine, or dimmer during nightscape photography. It also provides a red-lighted monitor display function, which prevents the pupils of the photographer's eyes from closing down after they have become accustomed to a dark location during astronomical photography. This monitor is designed to assure optimum visibility in a wide range of photographic conditions and applications.



Advanced 77-segment multi-pattern metering

The PENTAX K-70's metering system divides the image field into 77 segments for high-accuracy light measurement. Thanks to an improved light-metering algorithm, it assures more precise, sensitive exposure control even for high-contrast scenes. The PENTAX K-70 also provides a choice of Center-weighted or Spot metering modes.

1/6000-second high-speed shutter

With a top speed of 1/6000 second, the PENTAX K-70's high-speed shutter unit captures an active subject in a sharply focused image.



Vari-angle LCD monitor

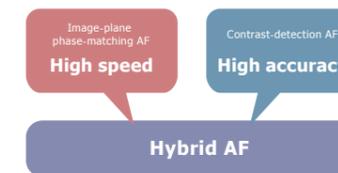
For flexible outdoor shooting

The PENTAX K-70's vari-angle LCD monitor allows you to position it at a desired angle, making image composition easier in a variety of Live View outdoor shooting applications, such as high-angle shooting using stretched arms or low-angle shots taken from ground level.

Hybrid AF **NEW**

High-speed AF operation during Live View shooting

The PENTAX K-70 features PENTAX's first Hybrid AF system during Live View autofocus operation. By coupling a contrast-detection AF sensor with superior focusing accuracy with an image-plane phase-matching AF sensor positioned on the image sensor's surface, this innovative hybrid system optimizes the benefits of both AF systems to assure high-speed, pinpoint autofocus on the subject.



High-speed, continuous drive mode with a top speed of six images per second

The PENTAX K-70 provides high-speed continuous shooting of high-resolution images (approximately 24.24 effective megapixels, 14-bit data files) at a top speed of approximately six images per second. Thanks to its large buffer memory capacity, it captures up to 40 JPEG-format images* in a single sequence.

* The number of images that can be recorded at ISO 100.

An array of creative tools to make outdoor shooting more enjoyable and flexible

Pixel Shift Resolution System

Optimizing the potential of the high-pixel image sensor to capture breathtaking, super-high-resolution images

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. It obtains all color data in each pixel to deliver super-high-resolution images with far more truthful colors and much finer details than those captured by normal shooting processes. The difference in image resolution is evident at a glance.



• When using this system, we advise stabilizing the camera firmly on a tripod. The user is also advised to use either the self-timer setting of the drive mode, a remote control function, or a mirror lock-up function. • This system may not produce the desired effect when the subject is on the move or the camera is shaken. • This system may not correct certain types of subject movement. It does not guarantee that the movement is properly corrected with all subjects. The user may turn the Auto Tracking function off in order to optimize the system's performance.

Custom Image

For flexible expression of the desired tone and shade for each subject

The PENTAX K-70 provides a selection of 13 Custom Image modes,* allowing you to apply the preferred finishing touch to your images based on your subject or creative intentions.

- Auto Select
- Bright
- Natural
- Portrait
- Landscape
- Vibrant
- Radiant
- Muted
- Bleach Bypass
- Reversal Film
- Monochrome
- Flat
- Cross Processing

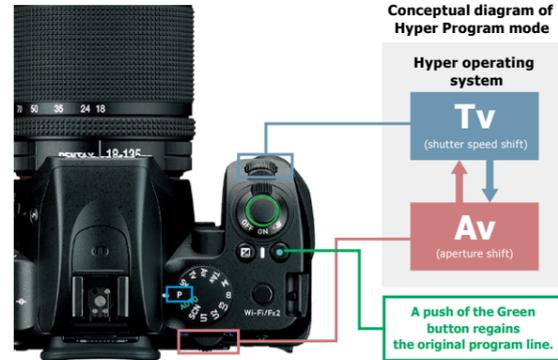


Natural

Double e-dials

Speedy control of the subject's motion and the depth of field using Hyper Program and Hyper Manual modes

Thanks to the PENTAX-invented Hyper operating system, you can instantly shift aperture and shutter-speed settings without having to take your eye from the viewfinder using the pair of e-dials.



Digital filters

For creating a personalized image with multiple application of special effects

The PENTAX K-70 offers a choice of nine digital filters during shooting, and 21 digital filters during playback. You can apply as many as 20 filters to a single image to create a distinctive, personalized work of photographic art.

- Filters selectable during shooting and playback : Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome
- Filters selectable during playback only : Base Parameter Adjustment, Tone Expansion, Sketch, Water Color, Pastel, Posterization, Miniature, Soft, Starburst, Fish-eye, Slim, Monochrome



Unicolor Bold

Bulb timer function

NEW

A handy tool in bulb shooting

The bulb timer function comes in handy when photographing celestial bodies or fireworks. The PENTAX K-70 allows you to set an exposure time of 10 seconds to five minutes in 10-second steps, or five to 20 minutes with one-minute steps.

HDR (High Dynamic Range)

Faithful reproduction of highlights and shadows

The HDR (High Dynamic Range)* mode synthesizes a single, rich-gradation image from three separate images taken at different exposure levels. It delivers an image similar to that seen by the naked eye, even in extreme high-contrast scenes.



* The HDR mode cannot be used in some shooting modes, and is not compatible with some functions.

** The Automatic Position Adjustment function is fixed at the OFF mode when the Interval or Interval Movie shooting mode is selected. It may not be possible to use this function in all cases, depending on the subject's status and pattern, and/or the angle of view and focal length of the lens used.

Customization and USER Mode

An array of handy customization tools

You can customize the PENTAX K-70's operation by assigning the desired functions to the set of buttons, including the Fx1 and Fx2 buttons, and the three USER Mode positions of the Mode dial.



USER Mode 1 "CLEAR TONE"



USER Mode 2 "HDR LANDSCAPE"

The following camera settings are initially assigned to the USER Modes as default:

- **USER Mode 1 "CLEAR TONE"** : Produces a high-contrast, high-saturation image.
- **USER Mode 2 "HDR LANDSCAPE"** : Provides the clarity-enhanced Advanced HDR (A-HDR) mode for scenic photography.
- **USER Mode 3 "ASTROPHOTO"** : Provides ideal settings for astronomical photography, compatible with the ASTROTRACER function.

Auto Picture Mode

When the mode dial is set to AUTO, the PENTAX K-70 automatically selects the best shooting mode for a given scene from such options as Portrait and Landscape.



Scene Mode

The PENTAX K-70 provides 19 distinctive Scene Modes. Choose one, and the camera automatically optimizes settings for you.

Clarity control and Skin Tone correction

For effortless control of the subject's texture

The Clarity control function is an image-processing tool useful in expressing the luster of metal or the clarity of the sky or water. The Skin Tone correction function* provides a choice of two modes: Type 1 for the compensation of color and brightness only, and Type 2 for additional control of skin tone.

* The Skin Tone correction function makes compensation only when the camera detects a face in the image.



CTE (Color Temperature Enhancement)

For faithful reproduction of the colors of your memory

In contrast to the auto white-balance control mode, the CTE mode automatically sets the white balance to optimize the influence of light sources on color reproduction, allowing you to express such subjects as sunrise and sunset scenes and fresh green leaves in dramatic colors.



Multiple exposure

Three ways to synthesize creative visual expressions

The PENTAX K-70's multi-exposure function lets you synthesize 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 the already captured images on its LCD monitor, allowing you to make precise alignment of the images.

ASTROTRACER

ASTROTRACER

Automatic tracking of celestial bodies without an equatorial device

By mounting the clip-on O-GPS1 GPS Unit (optional), the PENTAX K-70 provides automatic tracking in astronomical photography. The camera shifts its image sensor in synchronization with the movement of celestial bodies, and captures them as beautiful point images, even after extended exposures.

* In order to properly use the ASTROTRACER function, a number of settings must be input in advance. Refer to the O-GPS1's operation manual for details.



Shot with ASTROTRACER using optional O-GPS1. (F5.6, 300 sec., ISO400)

Auto Horizon Correction

A convenient tool for easy composition of well-balanced images

By making effective use of the SR mechanism and digital level, the Auto Horizon Correction function automatically compensates for the camera's horizontal tilt during shooting.*

* Maximum compensation angle: approx. $\pm 1.5^\circ$ with SR mechanism turned off, or approx. $\pm 1^\circ$ with SR mechanism activated

Wi-Fi compatibility

Effortless transfer and browsing of captured images, and remote shutter release

The PENTAX K-70 provides a set of wireless LAN (Wi-Fi) functions to support operations using mobile devices such as smartphones and tablet computers.* Since you can transfer captured images instantly to the mobile device, you can enjoy them away from the camera. It can also release the camera's shutter from a distance.

* The dedicated Image Sync application is required to remotely release the camera's shutter and browse captured images using a mobile device.



Movie recording

Many creative ways to enjoy high-quality movies

By taking full advantage of lens interchangeability — one of an SLR camera's greatest strengths — the PENTAX K-70 captures high-resolution Full HD movie clips. For movie recording, the PENTAX K-70 also provides the Continuous AF (AF-C) mode* to keep accurate focus on a moving subject, and a new aperture control function** to automatically assure the proper exposure level even when faced with fluctuating lighting conditions.

* The AF-C mode can be used in combination with the smc PENTAX-DA 18-135mm F3.5-5.6ED AL[IF] DC WR or HD PENTAX-DA 55-300mm F4.5-6.3ED PLM WR RE lens. Access the RICOH IMAGING official website for details.

** The aperture control function is available only in combination with the HD PENTAX-DA 55-300mm F4.5-6.3ED PLM WR RE lens.

Star Stream movie mode

Creating a fantastic movie with traces of the stars

This mode lets you record traces of the stars or illuminations on a 4K-resolution movie file. Using the fade-in and fade-out functions, you can create a fantastic movie.

4K-resolution Interval Movie shooting

The PENTAX K-70 captures still images of a slowly changing subject at a fixed interval, and links them into a single 4K-resolution (3840 x 2160 pixels) movie file. You can play back this file* as if fast-forwarding the time on the screen.

* When playing back the movie file on a device other than the PENTAX K-70, the user is advised to use a PC operating environment supporting 4K-resolution movie playback.

Interval Composite

The PENTAX K-70 synthesizes a single composite image from images automatically captured at a fixed interval. It also allows you to save already captured images as a separate file midway through a shooting session.

In-body RAW data development

Application of the desired finishing touch without a computer

The PENTAX K-70 allows for in-body development of RAW-format files, with the developed files saved as separate JPEG files. You can adjust a wide range of parameters, and add the desired finishing touch to your image without needing a PC.



K-mount interchangeable lenses boast dependable optical performance and outstanding imaging power

NEW

HD PENTAX-DA 55-300mmF4.5-6.3ED PLM WR RE



KAF4
mount



Telephoto zoom lens Equivalent to 84.5mm to 460mm in the 35mm format

This high-power zoom lens has an approximately 5.5-times zoom ratio to cover the medium- to super-telephoto ranges. Its new AF mechanism greatly improves the speed of AF operation, while reducing operational noise to a minimum. Coupled with a newly adopted electromagnetic diaphragm control mechanism, it provides flawless auto-exposure control and smooth Auto Tracking performance during movie recording. Its innovative retractable structure contributes to the compact, lightweight design, while PENTAX-original HD (High Definition) coating enhances its imaging power.

HD PENTAX-DA 16-85mmF3.5-5.6ED DC WR



Standard zoom lens Equivalent to 24.5mm to 130mm in the 35mm format

With its approximately 5.3-times zoom ratio, this standard zoom lens covers the ultra-wide-angle to telephoto ranges. It produces high-contrast, high-resolution images with sharp, well-defined details.

HD PENTAX-DA 21mmF3.2AL Limited



Wide-angle lens Equivalent to 32mm in the 35mm format

Measuring only 25mm in length, this super-thin wide-angle lens is easy to carry anywhere for casual snapshots of everyday activities. This Limited-series lens has an elegant, hand-machined barrel made of high-grade aluminum alloy.

smc PENTAX-DA* 50-135mmF2.8ED[IF] SDM



Telephoto zoom lens Equivalent to 76.5mm to 207mm in the 35mm format

This telephoto zoom lens has outstanding imaging power to deliver rich gradations and a truthful sense of depth. It produces sharp, fine-detailed images with minimal color bleeding.

smc PENTAX-D FA MACRO 100mmF2.8 WR



Macro lens Equivalent to 153mm in the 35mm format

This macro lens provides a minimum focusing distance of just 13 centimeters from its front tip to the subject, for life-size macro photography. It has excellent imaging power, to produce sharp, high-contrast images at all subject distances.

Dustproof, weather-resistant auto flash units

A selection of K-mount lenses can be used on the PENTAX K-70 (compatible with all PENTAX digital SLR cameras)



Auto Flash AF540FGZ II

A high-power, weather-resistant, dustproof flash unit compatible for movie recording



Auto Flash AF360FGZ II

A high-performance dust and weather-resistant flash unit featuring an LED light



Auto Flash AF201FG

Compact, light weight flash with a dust and weather-resistant construction



PENTAX interchangeable lenses are perfect for outdoor photography

A wide selection of compact, lightweight lenses

The K-mount, DA series includes a range of compact, lightweight lenses optimized for APS-C-size image sensors. Unrivaled in its variation, this series forms a lightweight, easy-to-carry digital imaging system when mounted on a compact PENTAX K-70 camera body, because the camera provides effective shake-reduction performance for all K-mount interchangeable lenses, including those compatible with a 35mm full-frame image sensor.

Dependable, dustproof/weather-resistant AW series, and weather-resistant WR series

PENTAX offers an extensive lineup of AW-series dustproof, weather-resistant lenses and WR-series weather-resistant lenses. These dependable lenses prevent the intrusion of water and dust into their interior mechanisms, even in harsh, challenging outdoor conditions.

SP Coating to repel water and grease

The front surface of the first optical element is treated with the PENTAX-exclusive SP (Super Protect) Coating, which not only repels water and grease, but also makes it easier to wipe off stains. This special coating also protects the lens from scratches.

K-mount lens compatible with PENTAX K-70 (Compatible with DSLR)

Fish-eye zoom	SMC PENTAX-DA FISH-EYE10-17mmF3.5-4.5ED[IF]	Ultra-wide-angle zoom	SMC PENTAX-DA 14mmF2.8ED[IF] HD PENTAX-DA 15mmF4ED AL Limited
Ultra-wide-angle zoom	SMC PENTAX-DA 12-24mmF4ED AL[IF] HD PENTAX-D FA 15-30mmF2.8ED SDM WR	Wide-angle lens	HD PENTAX-DA 21mmF3.2 AL Limited
Standard zoom	SMC PENTAX-DA* 16-50mmF2.8ED AL[IF] SDM HD PENTAX-DA 16-85mmF3.5-5.6ED DC WR SMC PENTAX-DA 17-70mmF4 AL[IF] SDM HD PENTAX-DA 18-50mmF4-5.6 DC WR RE SMC PENTAX-DA 18-55mmF3.5-5.6 AL WR HD PENTAX-DA 20-40mmF2.8-4ED Limited DC WR HD PENTAX-D FA 24-70mmF2.8ED SDM WR HD PENTAX-D FA 28-105mmF3.5-5.6ED DC WR	Standard	SMC PENTAX-DA 35mmF2.4 AL
		Semi-standard	HD PENTAX-DA 40mmF2.8 Limited SMC PENTAX-DA 40mmF2.8 XS
		Telephoto	SMC PENTAX-DA 50mmF1.8 SMC PENTAX-DA* 55mmF1.4 SDM HD PENTAX-DA 70mmF2.4 Limited SMC PENTAX-DA* 200mmF2.8ED[IF] SDM SMC PENTAX-DA* 300mmF4ED[IF] SDM
		Super-telephoto	HD PENTAX-DA 560mmF5.6ED AW
Telephoto zoom	SMC PENTAX-DA* 50-135mmF2.8ED[IF] SDM SMC PENTAX-DA 50-200mmF4-5.6ED WR HD PENTAX-DA 55-300mmF4.5-6.3ED PLM WR RE HD PENTAX-DA 55-300mmF4-5.8ED WR SMC PENTAX-DA* 60-250mmF4ED[IF] SDM HD PENTAX-D FA* 70-200mmF2.8ED DC AW HD PENTAX-D FA 150-450mmF4.5-5.6ED DC AW	Standard/Macro	HD PENTAX-DA 35mmF2.8 Macro Limited
		Macro	SMC PENTAX-D FA MACRO 50mmF2.8 SMC PENTAX-D FA MACRO 100mmF2.8 WR
High-magnification zoom	SMC PENTAX-DA 18-135mmF3.5-5.6ED AL[IF] DC WR SMC PENTAX-DA 18-270mmF3.5-6.3ED SDM		

Optional accessories to expand the scope of photographic expressions

O-GPS1 GPS Unit
A handy device for position data recording and astronomical photography



Water proof Remote Control O-RC1
Weather-resistant remote controller. *Battery cannot be replaced.



CS-310 Cable Switch
For remote shutter release, with attachment to the PENTAX K-70's microphone/cable release terminal



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



Rechargeable Lithium-ion Battery D-LI109
Spare battery



Battery Charger Kit K-BC109
For easy recharging of the D-LI109 battery



AC Adapter Kit K-AC168
Power supply from standard outlets, for extended shooting and playback



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



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



O-ST991 Hand Strap
For quick, spontaneous response to every photo opportunity



O-ST128 Hand Strap
For a firm hold of the camera; available in the color of Punching White, Leather Beige or Carbon Black



Focusing screens
Interchangeable focusing screens facilitate focusing and framing operations.



MF-60
Standard



MI-60
AF Scale Matte



ML-60
AF Cross-Lined Matte



ME-60
All-Surface Matte

Nomenclature



Hot shoe

Built-in flash

Microphone

Mode dial

Wi-Fi/Fx2 button

EV compensation button

Green button

Shutter release button

Main switch

Front e-dial

AF assist light

Lens mount index [red dot]

Self-timer lamp/Remote control receiver

Lens unlock button

Lens information contacts

Mirror

Speaker

Dioptr adjustment switch

Eyecup Fk

Strap lug

Live View/Delete button

Viewfinder

Vari-angle LCD monitor

INFO button

Microphone

Image plane indicator [Flash pop-up] button

RAW/Fx1 button

Microphone/cable release terminal

Focus mode switch

AF coupler

Rear e-dial

Strap lug

AF/AE lock button

Card access lamp

SD memory Card slot

[playback] button

Four-way controller

OK button

HDMI terminal [type D]

USB terminal [micro B]

Battery cover

MENU button

K-70 Specifications

Model Description	Type: TTL autofocus, auto-exposure SLR digital-still camera with built-in retractable P-TTL flash (AF coupler, lens information contacts, K-mount with power contacts) Lens Mount: PENTAX KAF2 bayonet mount (KAF, KA mount lens) Compatible Lens: KAF4, KAF3, KAF2 (power zoom not compatible)
Image capture unit	Image Sensor: Primary color filter, CMOS. Size: 23.5 x 15.6 (mm) Effective Pixels: Approx. 24.24 megapixels Total Pixels: Approx. 24.78 megapixels Dust Removal: SP coating and CMOS sensor operations Sensitivity(Standard output): ISO AUTO/100 to 102400 (EV steps can be set to 1EV, 1/2EV or 1/3EV) Image Stabilizer: Sensor-shift Shake Reduction AA Filter Simulator: Moiré reduction using SR unit. OFF/Type1/Type2/Bracket (3 frames)
File formats	File format: RAW (PEF/DNG), JPEG (Exif 2.3), DCF2.0 compliant Recorded Pixels: JPEG: L(24M:6000x4000), M(14M:4608x3072), S(6M:3072x2048), XS(2M:1920x1280) RAW: (24M:6000x4000) 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 UHS-I standards) Storage Folder: Folder Name: Date (100_1018,101_1019...) or User assigned folder name (Default "PENTAX") Recording File: File Name: *IMG***** 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) Dioptr 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: Hybrid AF (Image plane phase-matching and Contrast detection)AF area:Face detection, Tracking, Multiple AF points, Select, Spot Focus Peaking:ON/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, Bright area warning
LCD monitor	Type: Vari-angle 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 X, 11 points (9 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: 11 points, Auto:5 points, Select, Expanded Area Select, Spot AF Assist Light: Dedicated LED AF assist light
Metering	Type: TTL open aperture, 77 segmented metering, center-weighted and spot metering Metering Range: EV0 to 22 (ISO100 at 50mm F1.4) Exposure Mode: Auto Picture mode (Standard, Portrait, Landscape, Macro, Moving Object, Night Scene Portrait, Sunset, Blue Sky, Forest), Scene Mode (Portrait, Landscape, Macro, Moving Object, Night Scene Portrait, Sunset, Blue Sky, Forest, Night Scene, Night Scene HDR, Night Snap, Food, Pet, Kids, Surf & Snow, Backlight Silhouette, Candlelight, Stage Lighting, Museum), Program, Sensitivity Priority, Shutter Priority, Aperture Priority, Shutter & Aperture Priority, Manual, Bulb EV Compensation: ±5EV (1/2EV steps or 1/3EV steps can be selected) AE Lock: Can be assigned to the AF/AE-L button
Shutter	Type: Electronically controlled vertical-run focal plane shutter *Electronic shutter when using Pixel Shift Resolution Shutter Speed: 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.)
Drive modes	Mode Selection: [Still Image] Single Frame, Continuous (H, L), Self-timer (12s, 2s, Continuous), Remote Control (0s., 3s., Continuous), Bracketing (2, 3 or 5 frames), Mirror-up, Multi-Exposure, Interval Shooting, Interval Composite, Interval Movie Record, Star Stream [Movie] Remote Control *Bracketing, Interval Shooting, Interval Composite, Interval Movie Record and Star Stream are possible to use with Self-timer/Remote Control *Mirror-up is possible to use with Self-timer *Multi-Exposure is possible to use with Continuous Shooting, Self-timer or Remote Control Continuous Shooting: Max. approx. 6.0 fps, JPEG (L: ★★★★★ at Continuous H): up to approx. 40 frames, RAW: up to approx. 10 frames, RAW+: up to approx. 8 frames Max. approx. 3.0 fps, JPEG (L: ★★★★★ at Continuous L): up to approx. 100 frames, RAW: up to approx. 16 frames, RAW+: up to approx. 11 frames*ISO100 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/Remote Control/Set Time [Interval Composite] Interval: 2s. to 24h./ Standby Interval: Min.-1s. to 24h., Number of shots: 2 to 2000 times (8 to 500 times at 4K), Start Interval: Now/Self-timer/Remote Control/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/Remote Control/Set Time, Fade-out: OFF/Low/Medium/High
Flash	Built-in Flash: Built-in retractable P-TTL flash, GN: approx. 12 (ISO100/m), Angle of view of 28mm lens (35mm format equivalent) Flash Modes: Auto Flash Discharge, Auto Flash + Red-eye Reduction(Auto Picture, Scene) Flash On, Flash On+Red-eye Reduction, Slow-speed Sync, Trailing Curtain Sync, Manual Flash Discharge (Full-1/128) 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 and High-speed sync requires two or more dedicated external flash

System Requirements

The following system requirements must be met in order to connect the PENTAX K-70 to a personal computer, and use the 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 pixels, 24 bit full-color or more
- [Macintosh] ●OS:OS X 10.11 / 10.10 / 10.9 / 10.8 / 10.7 ●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 operating 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.

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: Motion Correction ON, Motion Correction OFF, OFF Lens Correction: Distortion Correction, Peripheral Illumination 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 degrees, SR Off: correction up to 1.5 degrees Electronic Level: Displayed in viewfinder : Horizontal direction only, Displayed on LCD monitor: Horizontal and vertical direction
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: Hybrid AF (Image plane phase-matching and 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:ON/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, 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 3 settings can be saved Custom Functions: 24 items Mode Memory: 16 items Button Customization: Fx1 Button, Fx2 Button (One Push File Format, Wi-Fi, Outdoor View Setting, Night Vision LCD Display, Preview, Electronic Level, Change AF Area) 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 AF with Remote Control: OFF/ON Text Size: Standard, Large World Time: World Time settings for 75 cities (28 time zones) Language: English, French, German, 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: Other indicator lamps (OFF/1/2), Self-timer (ON/OFF), Remote Control (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-AC168 (Optional) Battery Life: Number of recordable images:(with 50% flash usage): approx. 410 images, (without flash usage): approx.: 480 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), HDMI output terminal (Type D), Stereo microphone input / Cable switch input (ø3.5mm connector) USB Standard: MSC/PTP
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. 125.5mm (W) x93.0mm (H) x 74.0mm (D) (excluding protrusions) Weight: Approx. 688g (Including dedicated battery and SD Memory Card),Approx. 628g (body only)
Operating Environment	Temperature: -10°C~+40°C (14°F~104°F) Humidity: 85% or less (no condensation)
Accessories	Included: Strap O-ST132, Rechargeable Lithium-ion Battery D-LI109, Battery Charger D-BC109, AC plug cord,Software (CD-ROM) S-SW168 <Mounted on the camera> Eye-cup FR, Hot shoe cover FK , Body Mount Cover Software: Digital Camera Utility 5

Storage capacity

[Still]

Recorded Pixels	RAW		JPEG										
	6000x4000	L: 24M 6000x4000	M: 14M 4608x3072	S: 6M 3072x2048	XS: 2M 1920x1280								
Quality Level	PEF	***	**	*	***	**	*	***	**	*	***	**	*
8GB	151	528	1192	2339	889	1996	3837	1964	4309	7923	4723	9824	16374

[Movie]

Recorded Pixels	Full HD 1920x1080						HD 1280x720	
	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 25 min. or 4GB movie for one shooting. ● "Testing your camera" refers to confirmed operation by RICOH IMAGING, and is intended for customer convenience but is not a guarantee by RICOH IMAGING 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. Tested SD/SDHC/SDXC memory cards [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 *As of May, 2016

Digital Camera Utility™ 5 Standard software for high-quality finish

Included as a standard accessory, Digital Camera Utility 5 software allows you to browse through captured images on a computer screen, and develop RAW-format files to save them as JPEG- or TIFF-format files. Because you can change colors and check photographic data on the computer screen, you can take your time in finishing the image exactly the way you want it.



Dedicated Image Sync application for remote shooting, browsing and image sharing

By installing the dedicated Image Sync application* in your mobile device, you can remotely control camera operations from a distance: adjust various camera settings to the desired level, release the shutter, download captured images onto your mobile device, and even share favorite images with your friends by uploading them on social networking service websites.

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



PENTAX K-70 LINE UP



PENTAX K-70 BODY KIT BLACK

- K-70 BODY



PENTAX K-70 BODY KIT SILKY SILVER

- K-70 BODY



PENTAX K-70 18-135WR KIT BLACK

- K-70 BODY
- SMC PENTAX-DA 18-135mmF3.5-5.6ED AL[IF] DC WR (with hood)



PENTAX K-70 18-135WR KIT SILKY SILVER

- K-70 BODY
- SMC PENTAX-DA 18-135mmF3.5-5.6ED AL[IF] DC WR (with hood)



PENTAX K-70 WEBSITE <http://www.ricoh-imaging.co.jp/english/products/k-70/>



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• Images taken with this product that are for anything other than personal enjoyment cannot be used without permission according to the right as 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.