



ADVANTAGES

Image Quality

- ✓ 24 MP APS-C Size CMOS image Sensor AA filter less
- ✓ PRIME MII imaging engine with a new Accelerator Unit
- ✓ Noise reduction, High Sensitivity up to ISO 102400
- ✓ Pixel Shift Resolution with Motion Correction
- ✓ AA Filter Simulator
- ✓ Fine sharpness / Extra sharpness

Functionality

- ✓ Dustproof, weather-resistant, -10°C Cold-resistant Construction
- ✓ Floating mechanism of the Shake Reduction function improves performance for 4,5 shutter steps
- ✓ 1/6000 sec. Highest Shutter speed in this class
- ✓ Vari-angle LCD Monitor to freely adjust the angle in any way
- ✓ Outdoor View Setting allows to change the brightness of LCD monitor easily, depending on your shooting circumstance
- ✓ Night Vision Red Light LCD Display
- ✓ Electronic Level, Automatic Horizon Correction
- ✓ Dust removal system to remove dust by ultrasonic vibration of the sensor

Intuitive Operation

- ✓ Hyper Operation System with 2 e-dials to allow you a stress free setting change
- ✓ 3 USER mode settings with recommended settings (Clear tone, HDR landscape, Astrophoto)
- ✓ Control panel customization
- ✓ Fx1 & Fx2 buttons to assign one function out of seven

Basic Function

- ✓ Appr. 100% field of view optical viewfinder, with a magnification of 0.95x
- ✓ SAFOX 10 incorporates a high-sensitivity AF sensor that performs brilliantly in low-light conditions
- ✓ 11 point AF System, up from -3 EV to reduce situations where AF becomes slow in dark scenes, and when AF is affected by highly bright sections in backlit scenes. Also useful for accurately capturing low-contrast subjects
- ✓ Hybrid AF at Live View mode for a quicker detection of the focusing point
- ✓ Built-in Wi-Fi

Weight: 628g (body only)

DSLR FOR OUTDOOR PHOTOGRAPHY

Description	Art. Code	EAN
K-70 (BLACK) BODY KIT	16242	0027075297265
K-70 (BLACK) 18-135mm WR KIT	16255	0027075298071

SUPPLIED ACCESSORIES

RECHARGEABLE L-ION BATTERY D-LI109 (E) - 39067
 BATTERY CHARGER KIT K BC109E - 39032
 SOFTWARES S-SW168 - 38558
 PENTAX STRAP O-ST132 - 38776
 PENTAX EYECUP FR - 30200
 HOTSHOE COVER FK - 31040
 BODY MOUNT COVER - 31016

OPTIONAL ACCESSORIES

AC ADAPTER KIT K-AC168E - 38542
 CS-310 CABLE SWITCH - 30239



TECHNICAL SPECIFICATIONS

MODEL DESCRIPTION

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

IMAGE CAPTURE UNIT

Image Sensor	Primary color filter, CMOS. Size: 23.5 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 sRGB, AdobeRGB
Color Space	SD, SDHC and SDXC Memory Card (Conforms to USH-I standards)
Storage Medium	Folder Name: Date (100_1018,101_1019...) or User assigned folder name (Default "PENTX")
Storage Folder	File Name: "IMG*****" or User assigned file name
Recording File	File name numbering: Sequential, Reset

VIEWFINDER

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

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

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

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
Shutter Speed	* Electronic shutter when using Pixel Shift Resolution 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.)

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

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 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, Start Interval: Now/Self-timer/Remote Control/Set Time, Composite Mode: Additive/Average/Bright, Save Process: ON/OFF [Interval Movie] Recorded Pixels: 4K/FullHD/HD, File Format: Motion JPEG (AVI), Interval:2s. to 24h./ Standby Interval: Min+1s. to 24h., Number of shots: 8 to 2000 times (8 to 500 times at 4K), Start Interval:Now/Self-timer/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

CAPTURE SETTING

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 Illumin. Correction, Lateral Chromatic Aberration Correction, Diffraction Correction
D-RANGE Compensation	Highlight Correction, Shadow Correction
Noise Reduction	Slow Shutter Speed NR, High-ISO NR
Horizon Correction	SR On: correction up to 1 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, Slide Show,
Delete	Delete single image, delete all, select & delete, delete folder, delete instant review image
Digital Filter	Base Parameter Adj, Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome, Tone Expansion, Sketch, Water Color, Pastel, Posterization, Miniature, Soft, Starburst, Fish-eye, Slim, Monochrome
RAW Development	RAW file select Select Single Image, Select Multiple Images, Select a folder RAW Development Parameter: White Balance, Custom Image, Sensitivity, Clarity, Skin Tone, Digital filter, HDR, Pixel Shift Resolution, Shadow Correction, High-ISO NR, Distortion Correction, Peripheral Illumin. Corr., Lateral Chromatic Aberration Correction, Diffraction Correction, Color Fringe Correction, File Format (JPEG/TIFF), Aspect Ratio, JPEG Recorded Pixels, JPEG Quality, Color Space *
Edit	Image Rotation, Color Moiré Correction, Resize, Cropping (Aspect ratio and Slant adjustment available), Movie Edit (Divide or delete selected frames), Capturing a JPEG still picture from a movie, Saving RAW data in buffer memory, Image Copy

CUSTOMIZATION

USER Mode	Up to 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, Red, 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 Standard, Large
Text Size	World Time settings for 75 cities (28 time zones)
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.
Indicator Lamps	Wi-Fi (High/Low/Off), GPS (High/Low/Off), Self-timer (On/Off), Remote Control (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-Li90
AC Adapter	AC Adapter Kit K-AC132 (Optional)
Battery Life	Number of recordable images: Approx. 760 images, Playback time: Approx. 390 minutes * With a fully-recharged Rechargeable Lithium-ion Battery, 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 Connection	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

OPERATING ENVIRONMENT

Temperature	-10°C - 40°C (14°F - 104°F)
Humidity	85% or less (no condensation)

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)