





FULL FRAME. EXCELLENCE REDEFINED.

Description Art. Code EAN K-1 Black BODY KIT 19567 0027075294974

















DVANTAGES

Image Quality

- 36x24mm sensor with 36 MP CMOS Sensor with AA filter less technology and Pixel Shift Resolution guarantees for outstanding picture quality
- High ISO 204800 supported by new PRIME IV engine standing for a wide area of usable Sensitivity range with Low noise

Basic Function

- 100% FOV TTL- Prism Finder for sharp and clear view
- New designed shutter unit for compactness
- Fast and acurate 33 point SAFOX 12 AF System up from -3EV
- Scene Analyze with auto Exposure Mode. The 86000 pixel RGB analysis exposure information, color, faces movement etc. and create a perfect exposure value for this
- 9 Exposure Modes and Hyper Operating system for 100% control of the exposure parametres
- A lot of Settings for control of the picture (HDR, Skin Tone, CTE, Digital Filter)
- Some creative functions as Multi Exposure or Intervall Shooting Mode
- Movie Shooting Full-HD with 4K Interval Movie

Functionality

- Compatible with all PENTAX Lenses Automatic Switch of usable Sensor field if DA-lenses will be used
- 5 axis built in Shake Reduction II improve performance for 5 shutter steps
- Dust proof and weather resistant and -10°C cold resistant
- Dust removal II system ultrasonic vibration remove dust
- Operation assist lights with Outdoor View Setting
- Built in GPS, Astrotracer
- Tough and Durable Body with a construction of a chassi from metal and a framework with magnesium alloy
- Newly Designed 1/8000 sec High Speed shutter for a minimum of 300000 releases
- Flexible and new designed Tilt Type vari angle LCD 3,2»
- WiFi and Image Sync for Remote Shooting, Image Viewing and Image Transfer

Operability

- Outstanding Operability with new Smart Function Dial Instand setting supporting photographer not to miss the shutter chance
- Customization of buttons and Control Panel
- 5 USER modes

Weight: 925g (body only)

SUPPLIED ACCESSORIES

Rechargeable-Ion Battery D-LI90(B) - 39830

Battery Charger D-BC90 - 39832

Finder Cap for me - 31011

AC plug cord D-CO2E - 39475

PENTAX Strap O-ST162 - 38477

Eyecup FT - 30128

Hotshoe cover FK - 31040

Body mount Cap KII - 31000

Synchro Terminal 2P Cap - 31042

PENTAX K-1 Triangular Ring - 38599

PENTAX K-1 Protective Cover - 38600

Software (CD-ROM) S-SW162 - 38557

OPTIONAL ACCESSORIES

Rechargeable-Ion Battery D-LI90(B) - 39830

AC Adapter Kit K-AC132E - 38779

Battery Charger Kit K-BC90E - 39834

Battery Grip D-BG6 - 38607

PENTAX Magnifying Eyecup O-ME53 - 30150

PENTAX Remote Control O-RC1 - 39892

Cable switch CS-205 - 37248

PENTAX AF 201 FG Electro Flash W/Case - 30458

PENTAX AF 540 FGZ II W/Case - 30456

PENTAX AF 360 FGZ II W/Case - 30438

Strap O-ST1401 black - 38613

Strap O-ST1401 red - 38614





136.5mm

110mm







TECHNICAL SPECIFICATIONS

TTL autofocus, auto-exposure SLR digital-still camera

PENTAX K_{AE2} bayonet mount (AF coupler, lens information contacts, K-mount with power contacts) Lens Mount

 K_{AE3} , K_{AE2} (power zoom compatible), K_{AE1} K_A mount lens

IMAGE CAPTURE UNIT

Size: 35.9 x 24.0 mm, CMOS-Sensor, Primary color filter Image Sensor

Total / Effective Pixels Approx 36.77 M / 36.40 M

ISO AUTO/100 to 204800 (EV steps can be set to 1EV, 1/2EV or 1/3EV) Sensitivity

Image Stabilizer 5 Axis Sensor Shift Shake Reduction (SR II) **Dust Removal** Image sensor cleaning using ultrasonic vibrations «DR II»

Sensor-shift shake reduction (SR II: Shake Reduction) (5axis)

AA Filter Simulator Moiré reduction using SR unit, OFF/Type1/Type2/Bracket (3 images)

FILE FORMATS

Pixel Shift Resolution High resolution Pictures based on the use of each Pixel for all RGB-ColorInformation - Now also

RAW (PEF/DNG), JPEG (Exif 2.30), DCF2.0 compliant

Recorded Pixels [35mm Full Frame]

JPEG: L(36M: 7360x4912) M(22M:5760x3840) S(12M:4224x2816) XS(2M:1920x1280).

RAW: (36M:7360x4912) [APS-C size]

JPEG: L(15M: 4800x3200) M(12M:4224x2816) S(8M:3456x2304) XS(2M:1920x1280),

RAW: (15M:4800x3200) RAW (14bit): PEF, DNG

JPEG: ★ (Best), ★★ (Better), ★★★ (Good), RAW + JPEG simultaneous capturing available

Color Space sRGB, AdobeRGB

SD, SDHC and SDXC Memory Card (Conforms to USH-1 standards) Storage Medium

Dual SD slot Sequential Use, Save to Both, Separate RAW/JPG, Image copy between slots possible Folder name: Date (100_1018,101_1019...) or User assigned folder name (Default "PENTX") Storage Folder

File name: "IMGP****" or User assingned file name Recording File

File name numbering: Sequential, Reset

VIEWFINDER

Pentaprism Finder Type Coverage (FOV) Approx. 100%

Approx. 0.70x (50mmF1.4 at infinity) Magnification

Eye-Relief Length

Approx. 20.6mm (from the view window), approx 21.7mm (from the center of lens)

Diopter adjustment Approx. -3.5m to + 1.2m

Focusing Screen Fixed Natural-Bright-Matte III focusing screen

Viewfinder Overlay AF Points, Grid Display, Electronic Level, AF Frame, Spot Metering Frame, Crop

LCD MONITOR

Туре Wide viewing angle TFT color LCD, Air-gapless glass, Flexible-tilt.

3.2 inch (aspact ratio 3:2) Size Approx. 1037K dots Dots

Adjustment Brightness, Saturation and Colors adjustable

Outdoor View Setting Adjustable +2 step

LIVE VIEW ON LCD MONITOR

Туре TTL method using image sensor

Focusina Mecha Contrast detection (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, Composition Adjustment

WHITE BALANCE

Method using a combination of the image sensor and the light source detection sensor Type 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 Adjustable ±7 steps on A-B axis or G-M axis

Fine Adjustment AUTOFOCUS SYSTEM

TTL: phase-matching autofocus Туре

Focus Sensor SAFOX 12, 33 point (25 cross type focus points in the center) Brightness Range EV-3 to 18 (ISO 100 / at normal temperature)

AF mode Single AF (AF.S), Continuous AF (AF.C)

AF Point Selection Spot. Select. Expanded Area (S. M. L), Zone select, Auto (33 AF points)

Dedicated LED AF assist light AF Assist Light

METERING

TTL open aperture metering using 86K pixel RGB sensor, Multi-segment, Type Center-weighted and Spot metering

Metering Range EV-3 to 20 (ISO100 at 50mm F1.4)

Scene Analyze Auto, Program, Sensitivity Priority, Shutter Priority, Aperture Priority, Shutter & Exposure Mode Aperture Priority, Manual, Bulb, Flash X-sync Speed, USER1, USER2, USER3, USER4, USER5

±5EV (1/2EV steps or 1/3EV steps can be selected) EV Compensation

Button type (timer type: two times the meter operating time set in Custom Setting); Continuous as AE Lock

long as the shutter button is halfway pressed

SHUTTER

Electronically controlled vertical-run focal plane shutter Туре * Electronic shutter when using Pixel Shift Resolution

Shutter Speed Auto:1/8000 to 30 sec., Manual:1/8000 to 30 sec. (1/3EV steps or 1/2EV steps), Bulb

FLASH FUNCTION

Flash Contro Contrast-control-sync and High-speed sync requires 2 or more dedicated external flash guns Sync Speed

Exposure -2.0 to + 1.0EV

Compensation

Mode Selection Single Frame, Continuous (H. M. 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, Star Stream

* Bracketing, Interval Shooting, Interval Composite, Interval Movie Record, Multi Exposure and Star

Stream are possible to use with Self-timer/Remote Control

Continuous Shooting

[35mm Full Frame]
Max. approx. 4.4 fps, JPEG (L: ★ ★ ★ at Continuous H): up to approx. 70 frames,

RAW: up to approx. 17 frames

Max. approx. 3.0 fps, JPEG L: ★★★ at Continuous M): up to approx. 100 frames, RAW: up to approx. 20 frames

Max. approx. 0.7 fps, JPEG (L: ★★★ at Continuous L): up to approx. 100 frames, RAW: up to approx. 100 frames

[APS-C size]

Max. approx. 6.5 fps, JPEG (L: ★ ★ ★ at Continuous H): up to approx. 100 frames, RAW: up to approx. 50 frames

Max. approx. 3.0 fps, JPEG L: ★★★ at Continuous M): up to approx. 100 frames,

RAW: up to approx. 70 frames

Max. approx. 1.0 fps, JPEG (L: ** * at Continuous L): up to approx. 100 frames, RAW: up to approx. 100 frames

Multi-Exposure Composite Mode (Additive/Average/Bright), Number of Shots (2 to 2000 images)

[Interval Shooting] Interval: 2s. to 24h./ Standby

Interval: Min.1s. to 24h., Number of shots: 2 to 2000 images 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 images Start Interval: Now/Self-timer/Remote Control/Set Time Composite Mode: Additive/Average/Bright, Save Process: On/Off

CAPTURE SETTING

Clarity

Interval Shooting

Auto Select, Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Flat, Bleach Bypass, Reversal **Custom Image**

Film, Monochrome, Cross Processing

Fine Sharpness and Extra Sharpness improve sharpness and gives much better details Sharpness level

Cross Processing Randum, Preset 1-3, Favorite 1-3

Digital Filter Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold,

Bold Monochrome Adjustable ±4 step

HDR Auto, HDR1, HDR2, HDR3, Advanced HDR, Exposure bracket value adjustable, Automatic composition

correction function

Lens Correction Distortion Correction, Peripheral Illumin. Correction, Lateral Chromatic Aberration Correction, Diffraction

Dynamic Range Highlight Correction, Shadow Correction

compensation Noise Reduction Slow Shutter Speed NR, High-ISO NR

SR On: correction up to 1 degrees, SR Off: correction up to 2 degrees **Horizon Correction**

Composition Adjustment range of ±1.5mm up, down, left or light (1mm when rotated); rotating range of 1 degree Adjustment

Electronic Level Displayed in viewfinder and LCD panel (horizontal and vertical); displayed on LCD monitor (horizontal and vertical)

MOVIE

MPEG-4 AVC/H.264 (MOV) File Format

Recorded Pixels Full HD (1920x1080, 60i/50i/30p/25p/24p), HD (1280x720, 60p/50p)

Built-in stereo microphone, external microphone (Stereo recording compatible) Recording Sound Level adjustable, Wind Noise Reduction

Recording Time Up to 25 minutes or 4GB; automatically stops recording if the internal temperature of the camera becomes

hiah.

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

Randum, Preset 1-3, Favorite 1-3.

Digital Filter Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome

> 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 images (8 to 500 images at 4K),

Start Interval: Now/Self-timer/Remote Control/Set Time

[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 images (8 to 500 images at 4K),

Start Interval: Now/Self-timer/Remote Control/Set Time, Fade-out: Off/Low/Medium/High

PLAYBACK

Edit

Cross Processing

Interval Movie Record

Playback View Single frame, Multi-image display (6,12, 20, 35, 80 segmentation), Display magnification (up to 16, 100% display and quick magnification 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 Formation

(JPEG/TIFF), Aspect Ratio, JPEG Recorded Pixels, JPEG Quality, Color Space 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



TECHNICAL SPECIFICATIONS

Operation Control

Up to 5 settings can be saved

Custom Functions 26 items 16 items Mode Memory

Custom Button Fx1 Button, Fx2 Button (One Push File Format, Outdoor View Setting, Flash Mode, Pixel Shift

Resolution, Shake Reduction, Horizon Correction, Electronic Level) AF Button (AF1/AF2/ Cancel AF)

Preview Dial (Ontical Preview/Digital Preview)

Various settings for the action of the e-dials in each exposure mode can also be saved.

AF Customization

AFS: Focus-priority/ Release-priority

1st Frame Action in AFC: Release-priority/Auto/Focus-priority

Action in AFC: Continuous: Focus-priority, Auto, FPS-priority

Hold AF Status: OFF, Low, Medium, High

AF in Interval Shooting: Looks focus at 1st exposure, Adjusts focus for each shot

AF with Remote Control: Off/On

Type 1: E-Dial, EV Compensation, ISO, Green Button, AE Lock

Type 2: 4-way controller, AF point change button, Change AF Point, OK Button, Menu Button

Text Size

World Time World Time settings for 75 cities (28 time zones)

English, French, Germany, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Traditional Chinese, Simplified Chinese,

AF fine Adjustment ±10 step, Uniform adjustment, Individual adjustment (up to 20 can be saved) Illumination Settings

LCD Panel (High/Low/Off), Backside Controls (High/Low/Off), Lens Mount (On/Off), Card Slot/Connector (On/Off)

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.

GPS ELECTRONIC COMPASS

GPS GPS Logging (Logging Interval, Logging Duration, Memory Card Options), GPS Time Sync

Electronic Compass Available Astrotracer Possible

Satellites GPS, QZSS, SBAS (WAAS/EGNOS/GAGAN/MSAS)

Reception Frequency L1 1575.42MHz

Recorded Information Latitude, Longitude, Altitude, Time (UTC), Direction

World Geodetic System (WGS84)

KML format, Logging Interval: 5/10/15/30sec. /1min., Logging Duration: 1-24hr. **GPS Logging**

(Up to 9hours at Logging Interval 5sec. Up to 18hrs. at Logging Interval 10sec.) Azimuth calculation using triaxial geomagnetic sensor and triaxial acceleration sensor,

True north standard

Rechargeable Lithium-ion Battery D-LI90 **Battery Type** 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

USB2.0 (micro B), external power supply terminal, external cable switch terminal, X-sync socket, HDMI **Connection Port**

output terminal (Type D), Stereo microphone input terminal, Headphone terminal

MSC/PTP USB Connection

WIRELESS LAN

Standards IEEE 802.11b/g/n

Frequency (Center 2412MHz ~ 2462MHz (1ch ~ 11ch)

Frequency)

Security Authentication: WPA2, Encryption: AES

OPERATING ENVIRONMENT

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

Dust and Water 87 Sealings protecting camera against Dust, Rain and Spraywater. Camera is not water protected.

protected

DIMENSIONS AND WEIGHT

Approx. 136.5mm (W) x110mm (H) x 85.5mm (D) (excluding protrusions) Weight Approx. 1010g (Including dedicated battery and 1x SD Memory Card)

Approx. 925g (body only)

OPTIONAL ACCESSORIES

LENSES

Electronic Compass



HD D-FA 24-70mm F2.8 ED SDM WR



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



HD D-FA* 70-200mm F2.8 ED DC AW



HD D-FA 150-450mm F4.5-5.6 ED DC WR



smc FA 31mm / 1.8 Limited



smc FA 35mm / 2.0



smc FA 43mm / 1.9 Limited



smc FA 50mm / 1.4



smc D FA Macro 50 mm / 2 8



smc FA 77mm / 1.8 Limited



SMC D FA Macro 100mm F2 8

ACCESSORIES



HD D-FA 15-30mmF2 8FD SDM WR

OTHER ACCESSORIES

FLASH GUNS



AF 201 FG







Film Duplicator

Battery Grip D-BG6





PENTAX Remote Control O-RC1



AF 160 FC