



PENTAX *K-S1*

THE SLR NEW GENERATION

BLACK	Art. Code	EAN
K-S1 Body	06412	0027075278400
K-S1 + DAL 18-55mm	06423	0027075278516
K-S1 + DAL 18-55mm + DAL 50-200mm	06435	0027075278639

WHITE	Art. Code	EAN
K-S1 Body	06447	0027075278745
K-S1 + DAL 18-55mm	06458	0027075278851
K-S1 + DAL 18-55mm + DAL 50-200mm	06470	0027075278974

BLUE	Art. Code	EAN
K-S1 Body	06481	0027075279087
K-S1 + DAL 18-55mm	06492	0027075279193
K-S1 + DAL 18-55mm + DAL 50-200mm	06504	0027075279315

ADVANTAGES

Image and video quality

- ✓ 20 MP stabilised CMOS sensor with AA filter-less
- ✓ Advanced anti moire function
- ✓ Sensitivity up to 51 200 ISO
- ✓ Full HD recording with 30 fps frame rate, H.264 codec with dedicated button

Fast and accurate

- ✓ Continuous shooting 5.4 fps
- ✓ Shutter speed 1/6000 sec.
- ✓ New Imaging Engine Prime M II for speed data transfer

Ease to use and original

- ✓ 100%, 0,95X Pentaprism View Finder
- ✓ 3" 921K dots LCD monitor
- ✓ LED illuminations and elaborated pad for intuitive operation

Mobility and connectivity

- ✓ Wifi remote control via Smartphones, tablet and computer with dedicated Pentax Flu Card (in option)
- ✓ HDMI connection
- ✓ Ultracompact body

SUPPLIED ACCESSORIES

Rechargeable Lithium-ion Battery D-LI109
 Battery Charger D-BC109
 AC cable D-COE
 Strap O-ST132
 Software (CD-ROM) S-SW151
 Eyecup FR
 Hot shoe cover FK
 Body mount cover
 Lens front ring O-FR52 black or white

OPTIONAL ACCESSORIES

Lens front ring O-FR52 set - 31577
 Flucard for Pentax 16GB O-FC1 - 38610
 Lithium-Ion battery D-LI109 - 39067
 Battery Charger kit K-BC109 - 39032
 AC Adapter Kit K-AC128- 38822
 Black SLR case - 50099
 White SLR case - 50276
 SLR backpack - 50278
 Remote control O-RC1 - 39892
 Ring flash AF 160FC - 30477
 Flash AF 200FG - 30465
 Flash AF 360FGZ II - 30438
 Flash AF 540FGZ II - 30456
 O-ICK1 sensor cleaning kit - 39357
 O-GPS1 GPS unit - 39012

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	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. 20.12 megapixels
Total Pixels	Approx. 20.42 megapixels
Dust Removal	SP coating and CMOS sensor operations
Sensitivity (Standard output)	ISO AUTO/100 to 51200 (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

FILE FORMATS

File Format	RAW (PEF/DNG), JPEG (Exif 2.30), DCF2.0 compliant
Recorded Pixels	JPEG : L(20M: 5472x3648), M(12M:4224x2816), S(6M:3072x2048) XS(2M:1920x1280) RAW : L(20M:5472x3648)
Quality Level	RAW : (12bit); PEF, DNG JPEG: ★★★★★ (Best), ★★★★ (Better), ★ (Good), RAW and JPEG simultaneously recordable
Color Space	sRGB, AdobeRGB
Storage Medium	SD, SDHC and SDXC Memory Card (Conforms to UHS-1 standards), Eye-Fi card, FLU card.
Storage Folder	Folder name: Date (100_1018,101_1019...) or User assigned folder name (Default "PENTX")
Recording File	File name: ""IMGP*****" 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)
Diopter Adjustment	Approx. -2.5m to + 1.5m-1
Focusing Screen	Interchangeable Natural-Bright-Matte III focusing screen

LCD MONITOR

Type	TFT color LCD monitor, wide angle viewing
Size	3.0 inches
Dots	Approx. 921K dots
Adjustment	Brightness, Saturation and Colors adjustable

WHITE BALANCE

Type	Method using a combination of the CMOS image sensor and the light source detection 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, Flash, CTE, Manual WB, Color Temperature Configuration, 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 H+, 11 point (9 cross type focus points in the center)
Brightness Range	EV-1 to 18 (ISO 100 / at normal temperature)
AF Mode	Single AF (A.F.S), Continuous AF (A.F.C), Auto select AF (A.F.A)
AF Point Selection	Auto:5 points, Auto:11 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 *JPEG only EFFECT Mode: Faded Color, Clear Tone, Brilliant Color, Unicolor Bold, Vintage Color, Cross Processing, Warm Fade, Tone Expansion, Bold Monochrome, Infrared Filter, Vibrant Color Enhance 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 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

FLASH

Built-in Flash	Built-in retractable P-TTL flash, GN: approx. 10 (ISO100/m) Angle of view: equivalent to angle of view of 28mm lens (35mm format equivalent)*
Flash Mode	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	1/180 sec.
Flash Exposure Compensation	-2.0 to + 1.0EV
External Flash	P-TTL, Leading Curtain Sync, Trailing Curtain Sync, Contrast-control-sync, High-speed sync, wireless sync (available with 2 dedicated external flash)

DIMENSIONS AND WEIGHT

Dimensions	Approx. 120mm (W) 92.5mm (H) x 69.5mm (D) (excluding protrusions)
Weight	Approx. 558g (Including dedicated battery and 1x SD Memory Card), Approx. 498g (body only)

DRIVE MODES

Mode Selection	Still Image: Single frame, Continuous (H, L), Self-timer (12s, 2s), Remote Control (0 Sec., 3 sec.), Exposure Bracketing Movie: Remote Control
Continuous Shooting	Max. approx. 5.4 fps, JPEG (L: ★★★ at Continuous H): up to approx. 20 frames, RAW: up to approx. 5 frames Max. approx. 3.0 fps, JPEG L: ★★★ at Continuous L: up to approx. 100 frames, RAW: up to approx. 8 frames *ISO100

CAPTURE SETTING

Custom Image	Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Bleach Bypass, Reversal Film, Monochrome, Cross Processing
Cross Processing	Random, Preset 1-3, Favorite 1-3
Noise Reduction	Slow Shutter Speed NR, High-ISO NR
Dynamic Range Compensation	Highlight Correction, Shadow Correction
Lens Correction	Distortion Correction, Lateral Chromatic Aberration Correction, Peripheral Illumin. Corr., Diffraction Correction
Digital Filter	Extract Color, Replace Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome
HDR	Auto, HDR1, HDR2, HDR3, Exposure Bracket Value adjustable, Automatic composition correction function

MOVIE

File Format	MPEG-4 AVC/H.264 (MOV)
Recorded Pixels	Full HD(1920x1080, 30p/25p/24p), HD (1280x720, 60p/50p) Built-in stereo microphone, Recording Sound Level adjustable.
Sound	
Recording Time	Up to 25 minutes or 4GB ; automatically stops recording if the internal temperature of the camera becomes high.
Custom Images	Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, 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 magnification available), Rotating, Histogram (Y histogram, RGB histogram), Bright area warning, Detailed inf, Copyright Information (Photographer, Copyright holder), Folder Display, Calendar Filmstrip Display, Slide Show, GPS information (Latitude, Longitude, Altitude, Time (UTC), Direction)
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 : File Format (JPEG), Aspect ratio, JPEG recorded pixels, JPEG Quality, Color Space, Distortion Correction, Lateral Chromatic Aberration Correction, Peripheral Illumin. Corr., Diffraction Correction, Color Fringe Correction, White Balance, Custom Image, Digital Filter, Sensitivity, High-ISO NR, Shadow Correction*
Edit	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, Eye-Fi Image Transfer

CUSTOMIZATION

Custom Functions	26 items
Mode Memory	11 items
Button Customization	Green Button (Green Button, One Push File Format, Optical Preview, Digital Preview, Select AF Point) AF/AE-L Button (AF1, AF2, Cancel AF, AE Lock) Separate customization for movie available E-Dial Programming (Rotate Right, Rotate Left)
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
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. 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-AC128 (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-recharged 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, high-speed compatible), HDMI output terminal (Type D)
USB Connection	MSC/PTP

INCLUDED ACCESSORIES

Package Contents	Strap O-ST132, Rechargeable Lithium-ion Battery D-LI109, Battery Charger D-BC109, Software (CD-ROM) S-SW151 <Mounted on the camera> Eye-cup FR, Hot shoe cover FK , Body Mount Cover
Software	Digital Camera Utility 5

SUPPORT FOR OPTIONAL ACCESSORIES

GPS Unit	O-GPS1:Latitude, Longitude, Altitude, Time (UTC), Direction Electronic Compass, ASTROTRACER
FLU Card	FLU Card: Remote Release, Image Browsing