



Clifton Cameras Product Specification

Pentax KF

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 LENSES: KAF4, KAF3, KAF2 (power zoom compatible), KAF, KA mount lens

IMAGE CAPTURE UNIT

IMAGE SENSOR: Primary colour filter, CMOS. Size: 23.3 x 15.5 (mm)

EFFECTIVE/TOTAL PIXELS: Approx. 24.24 megapixels, approx. 24.78 megapixels

SENSITIVITY: 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)

DUST REMOVAL: SP coating and CMOS sensor operations

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 USH-I standards)

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

LIVE VIEW

TYPE: TTL method using image sensor

FOCUSING MECHANISM: Contrast detection (Auto Area, Zone Select, Tracking, Select(L/M/S), Spot)



FUNCTIONS:	Focus Peaking, Face detection, Touch AF
DISPLAY:	Field of View approx. 100%, Magnified view (up to 16x), Grid Display (4x4 Grid, Golden Section, Scale, Square(L), Square(S), Grid Colour: Black/Gray/White), Histogram, Bright area warning, Composition Adjustment
VIEWFINDER	
TYPE:	Approx. 100% Pentaprism Finder
MAGNIFICATION:	Approx. 0.95x (FA50mmF1.4 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
FOCUSING SCREEN:	Interchangeable Natural-Bright-Matte III focusing screen
LCD MONITOR	
TYPE:	Vari-angle TFT colour LCD monitor featuring an air-gapless structure, tempered-glass front panel
SIZE:	3.0 inch (aspect ratio 3:2), Approx. 1037Kdots
ADJUSTMENT:	Brightness, Saturation and Colours 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 Colour, N:Daylight White, W:Cool White, L:Warm White), Tungsten Light, CTE, Manual WB (up to 3 settings), Colour 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:	EV 0 to 22 (ISO100 at FA50mmF1.4)
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
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

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 Cur-tain Sync, Manual Flash Discharge (Full-1/128)
SYNC SPEED:	1/180sec.
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

CAPTURE SETTINGS

CUSTOM IMAGE:	Auto Select, Bright, Natural, Portrait, Landscape, MIYABI, SATOBI, Radiant, Muted, Flat, Bleach Bypass, Reversal Film, Monochrome, Cross Processing
CROSS PROCESS:	Random, Preset 1-3, Favorite 1-3



DIGITAL FILTER:	Extract Colour, Replace Colour, Toy Camera, Retro, High Contrast, Shading, Invert Colour, Unicolor Bold, Bold Monochrome
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 CORRECTION:	High light Correction, Shadow Correction
NOISE REDUCTION:	Slow Shutter Speed NR, High-ISO Noise Reduction
HORIZON CORRECTION:	SR On: correction up to 1 degrees, SR Off: correction up to 1.5 degrees
COMPOSITION ADJUSTMENT:	Adjustment range of ± 1.5 mm up, down, left or right (1mm when rotated); Rotating range of 1 degree
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)
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
CUSTOM IMAGES:	Auto Select, Bright, Natural, Portrait, Landscape, MIYABI, SATOBI, Radiant, Muted, Flat, Bleach Bypass, Reversal Film, Monochrome, Cross Processing
CROSS PROCESSING:	Random, Preset 1-3, Favourite 1-3.
DIGITAL FILTER:	Extract Colour, Replace Colour, Toy Camera, Retro, High Contrast, Shading, Invert Colour, 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 Colour: 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
DIGITAL FILTER:	Base Parameter Adj, Extract Colour, Replace Colour, Toy Camera, Retro, High Contrast, Shading, Invert Colour, Unicolor Bold, Bold Monochrome, Tone Expansion, Sketch, Water Colour, Pastel, Posterization, Miniature, Soft, Starburst, Fish-eye, Slim, Monochrome
RAW DEVELOPMENT:	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, Colour Fringe Correction, File Format (JPEG/TIFF), Aspect Ratio, JPEG Recorded Pixels, JPEG Quality, Colour Space

CUSTOMIZATION

SETTINGS: USER Mode: Up to 3; 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; Text size; World Time; AF Fine Adjustment: ± 10 step, Uniform adjustment, Individual adjustment; Indicator Lamps; Copyright Information;

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

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. 400 images, (without flash usage): approx.: 460 images, Playback time: Approx. 250 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 ($\varnothing 3.5$ mm connector)

USB CONNECTION: MSC/PTP

WIRELESS LAN: IEEE 802.11b/g/n (Standard wireless LAN protocol), 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 & WEIGHT

DIMENSIONS: Approx. 125.5mm (W) x 93.0mm (H) x 74.0mm (D) (excluding protrusions)

WEIGHT: Approx. 684g (Including dedicated battery and SD Memory Card), Approx. 625g (body only)