Q10

TECHNICAL DETAILS

Type

Camera Type	Lens-interchangeable SL digital-still camera

Sensor

Type	1/2,3'' CMOS sensor, with primary colour filter
Effective Pixels	Approx. 12.4 MP effective - 12,76 MP total
	File formats: RAW (DNG), JPEG (Exif 2.3), DCF2.0 compliant RAW and JPEG simultaneously recordable
	Recorded Pixels: JPEG : [4:3] 12M(4000x3000), 9M(3456x2592), 5M (2688x2016), 3M(1920x1440), [3:2] 10M(4000x2664), 8M(3456x2304), 5M(2688x1792), 2M(1920x1280), [16:9] 9M(4000x2248), 6 (3456x1944), 4M(2688x1512), 2M(1920x1080), [1:1] 9M(2992x2992), 6M(2592x2592), 4M(2016x2016), 2M(1440x1440); RAW : [4:3] 12M(4000x3000), RAW (12bit) : DNG
	Quality level JPEG: ★★★ (best), ★★ (better), ★ (good)
	Color: space sRGB, Adobe RGB
	Storage medium: SD, SDHC and SDXC Memory card
	Storage folder: Date (100_1018, 100_1019….)/PENTX (100 PENTX, 101 PENTX…)
Still	Drive modes: Single frame, Continuous (Hi, Lo), Self-timer (12s, 2s), remote control (0 sec. 3 sec. continuous), Auto Bracketing (3 frames, remote control)
	Continuous shooting: Continuous high : Approx. 5 fps up to 5 frames in JPEG (12M, ★★★)
	Continuous low : Approx. 1.5 fps up to 100 frames in JPEG (12M, ★★★)
	Custom Image: Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Bleach Bypass, Reversal Film, Monochrome, Cross Processing
	White Balance: Daylight, Shade, Cloudy, Fluorescent Light (D:Daylight Color, N:Daylight White, W:Cool White, L: Warm White), Tungsten, Flash, CTE, Manual (configuration on monitor).
	Fine adjustment (+/-7 steps on A-B axis or G-M axis)
	Noise Reduction: High-ISO NR
	Dynamic Range Setting: Highlight Correction, Shadow Correction
	Lens correction: Distortion Correction
	Digital Filter: Toy camera, High contrast, Shading, Slim, HDR, Invert Color, Extract Color, Color, Water color, Posterization, Fish-eye

	HDR Capture: Auto, HDR1, HDR2
	Multi-exposure: Number of shots : 2-9, exposure adjusted automatically
	Interval Shooting: Shooting interval : 1 sec. to 24 hr, Start interval setting : immediately from the set time. Number of shoots : up to 999 images
	Smart Effect:Brillant color, unicolor Bold, Vintage color, Cross Processing, Warm Fade, Tone Expansion, Bold Monochrome, Water Color, Vibrant Color enhance, USER 1 to 3
Sensitivity	AUTO : ISO 100 to 6400 (1/3 EV steps) Bulb mode : up to ISO 1600
Shake Reduction	Sensor shift Shake reduction
Sensor Cleaning	Image sensor cleaning using ultrasonic vibrations 'DRII'

Lens

Mount	PENTAX bayonet Q-mount Compatible Lens: Q-mount lenses

Focusing System

Functions	Type: Contrast detection AF Focus mode: AF/MF switching, Face Detection, Tracking , AF Select (25 Points), Select, Spot Brightness range: EV1 to 18 (ISO125) AF Assist Light: Dedicated LED AF assist light Assist: OFF/ x2/ x4

Screen

Type	Type: 3'' TFT color LCD monitor, wide-angle viewing, 460k dots Brightness and colors adjustable Display: Field of view : approx. 100%, grid display (4x4 grid, Golden section, scale display), Bright/dark area warning, histogram

Flash

Type	Built-in retractable P-TTL flash
Guide Number	approx. 4.9 (ISO 100/m) / approx.7 (ISO 200/m)
Modes	P-TTL, Red-eye Reduction, Slow-speed Sync, Trailing Curtain Sync
Angle of View Coverage	Wide-angle lens, equivalent to 28mm in 35mm format
Exposure Compensation	-2.0 to + 1.0 EV

Exposure Parameters

Modes	Type: TTL image sensor metering, segment metering, center, weighted metering and spot metering Exposure compensation: EV1.3-17 (ISO 125, F1.9 lens), +/-2EV using the electronic shutter setting or using the ND filter Exposure modes: AutoPicture mode (Standard, Portrait, Landscape, Macro, Night Scene Portrait, Night Scene, Blue Sky, Forest), Scene modes (Portrait, Landscape, Macro, Moving Object, Night Scene Portrait, Sunset, Blue sky, Night scene, Night scene HDR*, Night Snap, Food, Quick Macro*, Pet, Kids, Forest, Surf & snow, HDR*, Backlight silhouette, Candlelight, Stage lighting, Museum, Program, Shutter Priority, Aperture Priority, Manual, Bulb, Blur control* JPEG only EV Compensation: +/- 3EV (1/3 EV Step) AE Lock: Can be assigned to the green/delete button from the menu Continuous as long as the sutter release button is pressed halfway Shutter: Lens shutter : 1/2000—30 seconds (1/3EV step, 1/8000—30 seconds when electronic shutter setting is enabled), Bulb * Shooting at 1/8000—2 seconds with electronic shutter and bulb shooting are not available when using a lens that has no lens shutter Aperture: From wide open to F8 *Not available when using a lens that has no lens shutter ND Filter: Off/On * Not available when using a lens that has no lens shutter

Movie

Recording	File format: MPEG-4 AVC/H.264 Recorded Pixels: Full HD (1920x1020, 16:9, 30fps), HD (1280x720, 16:9, 30fps), VGA (640x480, 4:3, 30fps) Sound: Built-in monaural microphone Recording time: Up to 25 minutes; automatically stops recording if the internal temperature of the camera becomes high Movie Processing: Custom Image (Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Bleach Bypass, Reversal Film, Monochrome, Cross Processing). Digital Filter (Toy camera, High contrast, Shading, Slim, HDR, Invert Color, Extract Color, Color, Water color, Posterization, Fish-eye) Interval Movie: Recording interval : 1 sec., 5 sec., 10 sec., 30 sec., 1 min., 5 min., 10 min, 30 min, 1 hr Recording time : 5 sec. to 99 hr Start Interval setting : immediately, from the set time Movie Editing:Divide or delete selected frames, capturing a JPEG still picture from a movie

Special Features

	Custom functions: 13 items
	Mode memory: 12 items
	Button/Dial Customization: Green/Delete button (Green button, Preview, One Push File format, AE Lock, Enable AF), Quick dial (Smart effect, Custom Image, Digital Filter, Aspect Ratio)
	World time: World time settings for 75 cities (28 time zones)
Features	Playback functions: Single frame, image comparison, multi-image display (up to 90), display magnification (up to 16X), rotating, histogram, bright/dark area warning, detailed information display, folder display, calendar display, slideshow.
	RAW Development (file format, Aspect Ratio, Color space, Custom image, White balance, sensitivity, high-ISO NR, Shadow correction, Distortion correction)
	Digital filter (Monochrome, Toy camera, High contrast, Shading, Slim, HDR, Invert Color, Extract Color, Color, Water color, Posterization, Fish-eye, Retro, Soft, Sketch filter, Miniature, Frame composite, Starbust, Base parameter Adjustment)
	Edit:Resize, Cropping, Index, Red-Eye edit, Saving Buffer as a RAW file
Language	English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Traditional Chinese, Simplified Chinese, and Japanese

Interface

Interface	Video Output: AV output terminal, HDMI output terminal (type D), compatible with NTSC/PAL USB: USB 2.0 (high speed compatible) - MSC/PTP

Power

Source	Battery Type: Rechargeable Lithium-ion Battery D-LI68 AC Adapter: AC Adapter Kit K-AC115 (optional)
Performance	Battery Life:Number of recordable images : approx. 250 images (with 50% flash usage), approx. 270 images (without flash usage) Playback time : approx. 160 min. *using a new lithium-ion battery under the temperature at 23°C, tested in compliance with CIPA standard. Actual results may vary depending on the shooting conditions/circumstances

Dimensions

Height	58mm

Width	102mm
Depth	33.5mm
Weight	200g (loaded with battery and SD card), 180g (body only)

Accessories

Included Software	Software SILKYPIX Developer Studio 3.0 for PENTAX Software (CD-ROM) S-SW115—mounted on the camera
Kit Content	USB Cable I-USB7 Strap O-ST131 Rechargeable Lithium-ion Battery D-LI68 Battery Charger D-BC68P Hot shoe cover FK Body mount cover
Optional	PENTAX Standard PRIME 8.5mm f/1.9 AL [IF] PENTAX Standard ZOOM 5-15mm f/2.8-4.5 PENTAX Fish-Eye 3.2mm F5.6 PENTAX Toy Lens Wide 6.3mm F7.1 PENTAX Toy Lens Telephoto 18mm F8 Optional optical viewfinder PL Filter Remote Control