

CAMERA HARDWARE

MODEL: PENTAX Q10
TYPE: Digital Hybrid/LC

SENSOR

Type: 1/2.3" Backlit CMOS w/ primary color filter
Effective pixels: 12.4MP
Total pixels: 12.76MP
Recorded Resolutions (Pixels)
Still: 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), 6M(3456x1944), 4M(2688x1512), 2M(1920x1080)
[1:1] 9M(2992x2992), 6M(2592x2592), 4M(2016x2016), 2M(1440x1440)
RAW: [4:3] 12M(4000x3000)
Movie: Full HD (1920x1080, 16:9, 30fps), HD (1280x720, 16:9, 30fps), VGA (640x480, 4:3, 30fps)
Quality Levels: RAW (12bit): DNG, JPEG: ★★★ (Best), ★★ (Better), ★ (Good)
RAW and JPEG simultaneously recordable

LCD MONITOR:

Type: 3.0-inch TFT color LCD monitor, wide angle viewing
LCD resolution: 460,000 dots
Adjustable: Brightness and Color
Field of View: approx. 100%,
Display info: Grid display (4x4 Grid, Golden Section, Scale display),
Bright/dark area warning, Histogram

FOCUS SYSTEM

Type: Contrast detection AF
Autofocus Method: Face Detection, Tracking, AF Select (25 Points), Select, Spot
Focus Method: AF / MF Switching
Brightness Range: EV1 to 18 (ISO100)
AF Assist Light: Dedicated LED Lamp
Manual Focus Assist: OFF / x 2 / x 4

LENS MOUNT

Type: Lens-interchangeable SL digital-still camera
Usable lenses: Q-mount lenses, K-mount lenses (w/ Adapter Q for K Lens).

FLASH

Type: Built-in retractable P-TTL flash
Guide number: approx. 4.9 (ISO100/m) / approx. 7 (ISO200/m)
Angle of view: coverage: wide angle-lens, equivalent to 28mm in 35mm format
Flash modes: P-TTL, Red-eye Reduction, Slow-speed Sync, Trailing Curtain Sync
Sync Speed: Lens shutter: 1/2000 seconds, Electronic shutter: 1/13 seconds
Flash Exposure Compensation: -2.0 to +1.0 EV

STORAGE MEDIA

Removable memory: SD, SDHC, SDXC

INTERFACES

Ports: USB 2.0 (high-speed compatible) / AV output terminal, HDMI output terminal (Type D)
Video out: NTSC, PAL
USB Connection: MSC / PTP

POWER SUPPLY

Power source: Rechargeable Lithium-ion Battery D-Li68
Number of recordable images: approx. 250 images (with 50% flash usage),
approx. 270 images (without flash usage)
Playback time: approx. 160 minutes
* Using a new lithium-ion battery at 23 °C, (tested in compliance with CIPA standard).
AC adapter: K-AC115 (optional)

PHYSICAL SPECIFICATIONS

Dimensions (W x H x D): Approx. 4"(W) x 2.3"(H) x 1.3" (D)
Weight:
Without battery or removable memory: approx. 6.35oz (180g)
Loaded and ready: approx. 7oz (200g)
Construction material(s): Reinforced polycarbonate plastic
Operating temperature: 32-104°F

LANGUAGE SUPPORT

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

KIT COMPONENTS

USB Cable I-USB7, Strap O-ST131, Rechargeable Lithium-ion Battery D-Li68,
Battery Charger D-BC68P, Software (CDROM) S-SW131, HotShoe cover FK, Body mount cover,
(Software: SILKYPIX Developer Studio 3.0 for PENTAX)

OPTIONAL ACCESSORIES

AC adapter: K-AC115, AV Cable I-AVC7, Remote Control O-RC1, Remote F, External Viewfinder O-VF1 (for Q / Q10 w/ 01 Standard Prime lens), 100 PL Polarizing Filter 40.5mm, HDMI Cable 3 ft. (Micro, Type-D, v1.4), 01 Standard Prime Lens, 02 Standard Zoom Lens, 03 Fish-Eye Lens, 04 Toy Lens Wide, 05 Toy Lens Telephoto, Q Vintage Leather Case (for Q / Q10 w/ 01 Standard Prime Lens).

IMAGE CAPTURE

IMAGE STABILIZATION

Still: Sensor shift Shake Reduction

METERING SYSTEM

Type: TTL image sensor metering, segment metering, center-weighted metering, spot metering
Exposure compensation: EV1 - 17 (ISO 100, F1.9 lens), +2EV using the Electronic Shutter
setting or using the built-in ND filter

ISO SENSITIVITY

AUTO: ISO 100 to 6400 (1/3 EV steps)
Bulb mode: up to ISO 1600

WHITE BALANCE

AutoTTL by CMOS image sensor
Preset: Daylight, Shade, Cloudy, Fluorescent Light (D: Daylight Color, N: Daylight White W: Cool White, L: Warm White), Tungsten, Flash, CTE, Manual
Manual: Configured on the monitor
Fine Adjustment: Adjustable ±7 steps on A-B axis or G-M axis

SHUTTER

Type: 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.

CAPTURE MODES

Mode selection: Auto Picture, Program, Manual, USER, Movie, Blur Correction, Av, Tv,
Scene: (Portrait, Landscape, Macro, Moving Object, Night Scene Portrait, Sunset, Blue Sky,
Night Scene, Night Scene HDR, Night Snap, Forest, Surf & Snow, HDR, Backlight Silhouette,
Kids, Pet, Quick Macro, Food, Candlelight, Stage Lighting, Museum).
Green simplified mode available: Yes
Face detection available: Yes
Digital filters (capture) - Image Tone: (Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Bleach Bypass, Reversal Film, Monochrome, Cross Processing)
Dynamic Range Adjustment: (Highlight and Shadow correction)
Interval Shooting: Shooting interval: 1 sec. to 24 hr., Start Interval setting: immediately from the
set time. Number of shots: up to 999 images

DRIVE MODES

Mode selection: Single frame, Continuous (Hi, Lo), Self-timer (12s, 2s), Remote Control (0 sec.,
3 sec., continuous), Auto Bracketing (3 frames, remote control)
Continuous Shooting: Approx. 5 fps, JPEG (12M / ★★★ / Continuous Hi): up to 5 frames,
Approx. 1.5 fps, JPEG (12M / ★★★ / Continuous Lo): up to 100 frames
Self-timer: Yes (12 sec, 2 sec)
Remote control: Yes (Instant, 3 sec. Delay, Continuous)

PLAYBACK MODES

Playback View: Single frame, multi-image display (4, 9, 20, 42, 90 segmentation), display
magnification (up to 16x, scrolling and quick magnification available), rotating, histogram (Y
histogram, RGB histogram), bright/dark area warning, detailed information.
Digital Filters: 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, Starburst, Base Parameter Adjustment
RAW Development: File Format (JPEG), Aspect Ratio, Color Space, Custom Image, White
Balance, Sensitivity, High-ISO NR, Shadow Correction, Distortion Correction.
Edit: Resize, Cropping (aspect ratio adjustment available), Index, Movie Editing (divide or
deletes/selected frames), Capturing a JPEG still picture from a movie, Red-eye Edit, Saving
buffer as aRAW file

FILE FORMATS

Still: RAW (DNG), JPEG (Exif 2.3), DCF2.0 compliant
Movie: MOV AVC/H.264(.mov)
Sound: Built-in monaural microphone

CUSTOM FUNCTIONS

Functions available: 13

FILE STORAGE MATRIX (BASED ON 4GB MEMORY, 4:3 ASPECT RATIO)

STILL	RAW	★★★	★★	★
12M		TBD	TBD	TBD
9M		TBD	TBD	TBD
5M		TBD	TBD	TBD
3M		TBD	TBD	TBD
VIDEO	1080p30	720p30	480p30	
	TBD	TBD	TBD	

*The maximum length for a movie is 25 minutes.

COMPUTER SYSTEM REQUIREMENTS*

*For device connectivity. Bundled software requirements may vary.
Windows: Windows XP/Vista/7, USB port
Mac: MacOS-X 10.4, 10.5, 10.6, USB port