

CAMERA HARDWARE

MODEL: PENTAX MX-1
TYPE: Compact Digital Camera
PRODUCT CODE:
MX-1 Black US: 12622, UPC: 027075225183
MX-1 Silver US: 12633, UPC: 027075225299

SENSOR

Type: 1/1.7" Backlit CMOS
Effective pixels: 12.0
Total pixels: 12.76
Recorded resolutions
Still: JPEG:[4:3]12M,7M,5M,3M [16:9]9M,5M,3M,2M [3:2]10M,6M,4M,2M
[1:1]9M,5M,3M,2M RAW
Movie: HD (1920x1080 approx. 30fps), (1280x720 approx. 60/30fps), Audio
Recording with Movie: Yes, Stereo
Quality levels: Still (Fine, Normal) Movie: Fixed Pixel Mapping: Yes

LENS

Type/construction: smc PENTAX zoom lens, 11e in 8g (4aspherical elements)
Focal length (equiv.): 6.0-24mm (28-112mm)
Optical zoom: 4X, Digital zoom: 1.95X, Combined zoom: 7.8X
Intelligent zoom: Approx5.2X at 7M, approx. 7.8X at 3M (including optical zoom)
Aperture: F1.8 (wide) - F2.5 (tele)Smallest Aperture: F8

LCD/VIEWFINDER

LCD: 3.0" Tilttable color TFT with AR Coating (Tilt down to 45°, up to 90° (approx.))
LCD resolution: (approx. 920,000 dots)
Wide angle viewable: 170°

FOCUS SYSTEM

Type: TTL contrast detection autofocus
Focus modes: Auto, Spot, Tracking, AF Select (25 Points),Infinity Landscape,
Manual Focus, Pan Focus, AF Point Switching
Manual focus: Yes, range (.4" to infinity, depending on zoom setting)
Focus lock: Yes (by pressing the shutter release button half way)
Focus range: Normal: 1.3' to infinity (wide), 5.2' to infinity (tele)
Macro: 2" to 19.7" (wide) 8" to 19.7" (tele)
Super Macro: 0.4" to 7.9" (1cm) (wide)
Focus Assist Lamp: Yes
Face Detection: Yes (up to 32 faces), Smile Capture, Blink Detection
Pet Detection: Yes (up to 1 pet's face), auto or select from 3 pre-registered faces)

FLASH

Type: Built-in auto flash
Flash modes: Auto, Flash Off, Flash On, Red-eye,Slow-speed synchro, Slow-speed+Red-eye, Trailing Curtain Sync
Effective range: 1.31 - 40' (wide, auto ISO), 1.31 - 29' (tele, auto ISO)

STORAGE MEDIA

Internal memory: 75.3 MB (approx.)
Removable memory: SD, SDHC, SDXC
Eye-Fi Compatible, File/Folder customization: n/a

INTERFACES

Ports: USB 2.0 Hi-Speed, PC/ AV out, HDMI (Type D) out
Video out: NTSC, PAL
Printer interfaces: n/a

POWER SUPPLY

Power source: Rechargeable Li-Ion battery D-Li106
Recordable images: Approx290 (D-Li106)
Playback time: Approx280 min (D-Li106)
Movie recording time: Approx90 min
AC adapter available: K-AC130 (tbd)

PHYSICAL SPECIFICATIONS

Dimensions (W x H x D): 4.8 x 2.4 x 2.0" (excluding protrusions)
Weight: Without battery or removable memory: 12.8oz (approx.)
Loaded and ready: 13.8oz (approx.)
Construction material(s): Brass covers
Operating temperature: 32-104°F

TIMING

Startup: approx. 1.6 sec., Release Time Lag: approx. 0.019 sec.
Continuous Shooting: approx. 1.57 fps (maximum approx. 37 frames)
High-speed Continuous Shooting:
[Burst Shooting L] approx. 2.86 frame/sec (for up to 10 frame)
[Burst Shooting H] approx. 4.21 frame/sec (for up to 10 frame)

LANGUAGE SUPPORT

English, French, Germany, Spanish, Portuguese, Italy, Dutch, Danish, Swedish,
Finnish, Polish, Czech, Hungarian,Turkey, Greek, Russian

COMPUTER SYSTEM REQUIREMENTS*

*For direct device connectivity. Bundled software requirements may vary.

Windows: Windows XP (SP3), Vista, 7, 8, USB port
Mac: MacOS 10.4, 10.5, 10.6, 10.7, 10.8, USB port

IMAGE CAPTURE

IMAGE STABILIZATION (SHAKE REDUCTION)

Still: Sensor-Shift SR, Digital SR (ISO 100-12800), Dual (SR & Pixel Track SR)
Movie: Movie Shake Reduction Mode (Movie SR)
(Maximum effect of 3 stops using Sensor-Shift SR)

METERING SYSTEM

Type: TTL, Multi-segment, Center-weighted or Spot
Exposure compensation: +/- 2 EV (1/3 steps)

ISO SENSITIVITY

Auto: 100-12800*
Auto ISO Range: ISO 100-200, ISO 100-400, ISO 100-800, ISO 100-1600, ISO 100-3200, ISO 100-6400, ISO 100-12800
Manual: 100-12800
Auto ISO Range for Digital SR: 100 – 12800, Dynamic Range Adjustment: Yes
*Fixed at ISO 100-1600 in Handheld Night Snap, Green modes.

WHITE BALANCE

Auto preset modes: Auto, Daylight, Shade, Cloudy, Fluorescent light (D:Daylight
Color, N:Daylight White, W:Cool White, L:Warm White),Tungsten, Flash
Manual WB: Yes

SHUTTER

Type: Programmed AE electronic lens shutter w electronic sensor shutter
Shutter speed: 1/2000 sec. - 1/4 sec., max. 30 sec. (1/8000 sec. - 30 sec. with
Shutter Priority, Aperture Priority,Manual Exposure, and combination of
electronic shutter enabled), Bulb
Noise Reduction: Yes, automatically applied if shutter speed is slower than 1 sec

CAPTURE MODES

Mode selection: Auto Picture, Program, Natural Skin Tone, Handheld Night Snap
(5M), Night Scene Portrait, Night Scene, Digital Panorama (2M per frame),High
Speed Movie (VGA, 120 FPS capture, 30 FPS playback),Time Lapse Movie,
Landscape, Blue Sky, Sunset, Flower, Digital SR (ISO 3200-6400 5M), Kids,
Pet, Portrait, Food, Fireworks, Surf & Snow, Sport, Fisheye, Sketch, Miniature
Filter, Text, Frame Composite (3M), Movie, Green
Auto Picture modes:Landscape, Portrait, Night Scene, Night Scene Portrait,
Standard, Flower, Sport, Candlelight, Blue Sky, Sunset, Text, Group Photo,
Pet, Portrait x Blue Sky, < Sunset, Portrait x Backlight
Custom Image Modes: n/a
Green simplified mode available: yes
Mode Dial: P/Av/Tv/M/User/HDR/SCN/AUTO PICT/Green/Movie
Date Imprint: Yes, date, date-time, time (not available in Green mode)
Digital filters (capture): Movie (B&W, Sepia, Fisheye, Miniature, Sketch)
Dynamic Range adjustment: Yes (shadow, highlight)
Digital level: Yes

DRIVE MODES

Mode selection: One shot, Continuous Shooting, Burst Shooting(L/H), Self-timer
(2 or 10 sec.), Remote Control (immediately or 3 sec.), Auto Bracketing
Continuous FPS: Approx 1 FPS for 6 frames
Multi-exposure: n/a, Interval Shooting: n/a
HDR: Yes

PLAYBACK MODES

Mode selection: One Shot, Index (4, 9 or 25 thumbnails), Magnification (up to 10X,
scrollable), Movie Playback, Histogram, Folder Display, Select & Delete,
Calendar
Mode pallet: Slideshow, Image Rotation, Stretch Filter, Small Face Filter, HDR
Filter, Collage, Digital Filter, RAW Development(Aspect Ratio, JPEG Recorded
Pixels, JPEG Quality, Custom Image(Bright, Natural, Vibrant, Reversal Film,
Monochrome) White Balance,Sensitivity, Shadow Correction, Distortion
Correction, Original Frame, Movie Editing, Red-eye Edit, Resize, Cropping,
Image Copy, Protect, DPOF, Start-up Screen
Digital filters (playback): B&W, Sepia, Toy Camera, Retro, Color, Extract Color,
Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness,
Miniature, Slim, Invert Color Filter
Movie edit: Save as Still Image, Movie Divide, Add Title Picture

FILE FORMATS

Still: RAW(DNG), JPEG(conforms to Exif 2.3), conforms to DCF2.0, DPOF, PRINT
Image Matching III
Movie: MPEG – 4 AVC/H.264

FILE STORAGE(2GB MEMORY CARD/BUILT-IN MEMORY)(H:M:S)

STILL	RAW	Fine	Normal
12M 1.33:1 (4000x3000)	82/3	326/12	653/25
10M 3.2 (3984x2656)	86/3	391/15	778/30
9M 16:9 (3968x2232)	88/3	435/17	865/34
7M 1.33:1 (3072x2304)		516/20	1205/47
6M 3:2 (3072x2048)		653/25	1205/47
5M 16:9 (3072x1728)		653/25	1499/58
4M 3:2 (2592x1728)		778/30	1921/76
3M 16:9 (2560x1440)		975/38	1921/76
2M 16:9 (2048x1152)		1921/76	3235/126
VIDEO	60 FPS	30 FPS	
1920x1080p		00:16:29/00:00:36	
1280x720p	00:16:29/00:00:36	00:26:13/00:00:58	