



Digital Camera

OPTIMA 103

12.0
MP

4X
Optical
zoom

Wide
angle

2.7"
LCD

Smile
detection

Face
tracking

Blink
detection

Red eye
removal

HDR
Image

Li-Ion
battery

Metal
body

- 12.0 MegaPixel CCD sensor
- 4x wide angle optical zoom
- 2.7" TFT LCD display
- 28 scene modes
- OSD help-screen
- HDR images (High Dynamic Range)
- Metal body



OPTIMA 103

Technical details

- 12.0 MegaPixel CCD sensor
- 4x wide angle optical zoom
- 2.7" TFT LCD display
- 28 scene modes
- On-screen editing
- OSD help-screen
- HDR images (High Dynamic Range)
- Metal body



Image sensor		Scene modes	
Sensor	12.0 MegaPixel CCD sensor	Scene modes	PASM, automatic, intelligent scene, portrait, landscape, sunset, backlight, kids, night scene, fireworks, snow, sports, party, candlelight, night portrait, soft skin, soft flowing water, food, building, text, foliage, auction, smile detection, blink detection, pre-composition, love portrait, self portrait, HDR image, voice recording
Optics		Interfaces	
Lens type	6 elements in 5 groups	USB 2.0	Full speed
Focal length	f = 5.05 (W) ~ 20.2 (T) mm	TV out	PAL/ NTSC
Equivalent to 35mm camera	28 (W) ~ 112 (T) mm	Power source	
Brightness	F/ 2.8 (W), 6.3 (T)	Power supply	Lithium-ion battery (NP45)
Shutter speed	1/2000 ~ 1 sec.	Auto power off	1 min., 3 min., 5 min.
Zoom		Others	
Optical zoom, digital zoom	4x, 5x	Camera dimensions	91.5 x 57.7 x 17.1 mm
Focusing		Body	Metal
Focus range (normal)	70 cm ~ infinity (W), 100 cm ~ infinity (T)	Weight	100 g
Focus range (macro)	12 cm ~ 100 cm (W), 70 cm ~ 120 cm (T)	Accessories	
Exposure		Accessories	USB cable, lithium-ion battery, battery charger, power cord (EU), hand strap, CD software, quick guide
Exposure compensation	-2 EV to +2 EV in 1/3 steps, (-2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0.0, +0.3, +0.7, +1.0, +1.3, +1.7, +2.0)	Logistics	
Exposure metering	Center-weighted, multi, spot	Item number	06964
Exposure control	Automatic/ manual	Bar code	4004781069641
ISO	Auto, 100, 200, 400, 800, 1600, 3200	UPC code	884375069646
White balance	Automatic, daylight, cloudy, tungsten, fluorescent_H, fluorescent_L, customer	Packaging size	185 x 146 x 78 mm
LCD		Packaging unit	5
Display	2.7" TFT LCD display	Weight (packaging)	600 g
Resolution	960 (W) x 240 (H)	Weight (packaging unit)	3.36 kg
Memory		Dimensions (packaging unit)	412 x 164 x 215 mm
Memory (internal)	32 MB		
Memory (external)	SD card: up to 4 GB; SDHC card: up to 32 GB		
Resolution			
Still image	4000 x 3000, 4000 x 2672 (3:2), 3264 x 2448, 2592 x 1944, 2048 x 1536, 1920 x 1080 (16:9), 640 x 480 (VGA)		
Video	1280 x 720 (16:9) only supported SDHC Class (6), 640 x 480 (share YouTube®), 320 x 240		
Video frame rate	30 fps		
File formats			
Still image	JPEG (EXIF 2.2 compatible), DCF format, DPOF compatible		
Video	MJPEG w/audio		
Audio	WAV		
Flash modes			
Flash light	Automatic, red eye reduction, slow sync, on/ off		

Dealer stamp

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