

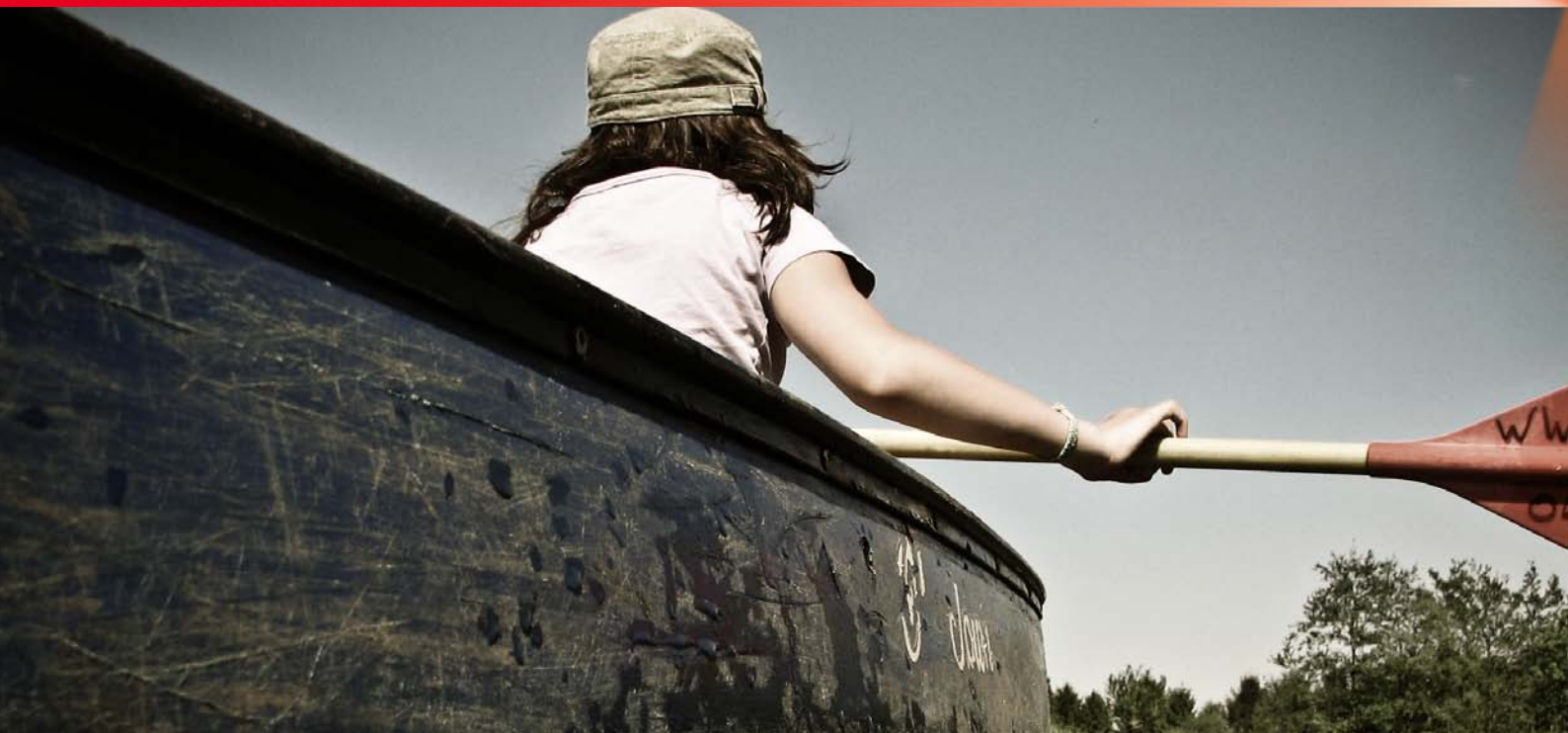


Digital Camera

OPTIMA 104



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



OPTIMA 104

Technical details

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Image sensor			
Sensor	12.0 MegaPixel CCD sensor		
Optics			
Lens type	6 elements in 5 groups		
Focal length	f = 5.05 (W) ~ 20.2 (T) mm		
Equivalent to 35mm camera	28 (W) ~ 112 (T) mm		
Brightness	F/ 2.8 (W), 6.3 (T)		
Shutter speed	1/2000 ~ 1 sec.		
Zoom			
Optical zoom, digital zoom	4x, 5x		
Focusing			
Focus range (normal)	70 cm ~ infinity (W), 100 cm ~ infinity (T)		
Focus range (macro)	12 cm ~ 100 cm (W), 70 cm ~ 120 cm (T)		
Exposure			
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)		
Exposure metering	Center-weighted, multi, spot		
Exposure control	Automatic/ manual		
ISO	Auto, 100, 200, 400, 800, 1600, 3200		
White balance	Automatic, daylight, cloudy, tungsten, fluorescent_H, fluorescent_L, customer		
LCD			
Display	3.0" TFT LCD touch screen		
Resolution	960 (W) x 240 (H)		
Memory			
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), 848 x 480 (16:9), 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		
Scene modes			
Scene modes	Automatic, program, 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, movie, voice recording		
Interfaces			
USB 2.0	Full speed		
TV out	PAL/ NTSC		
Power source			
Power supply	Lithium-ion battery (NP45)		
Auto power off	1 min., 3 min., 5 min.		
Others			
Camera dimensions	91.5 x 57.7 x 17.1 mm		
Body	Metal		
Weight	100 g		
Accessories			
Accessories	USB cable, lithium-ion battery, battery charger, power cord (EU), hand strap, CD software, quick guide		
Logistics			
Item number	06967		
Bar code	4004781069672		
UPC code	884375069677		
Packaging size	185 x 146 x 78 mm		
Packaging unit	5		
Weight (packaging)	618 g		
Weight (packaging unit)	3.40 kg		
Dimensions (packaging unit)	412 x 164 x 215 mm		
Dealer stamp			

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