



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



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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 06968
Bar code 4004781069689
UPC code 884375069684
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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