



Digital Camera

## OPTIMA 104

**12.0**  
MP

**4X**  
Optical  
zoom

**Wide  
angle**

**3.0"**  
LCD

**Touch  
screen**

**Face  
tracking**

**Blink  
detection**

**AF lamp**

**HDR**  
Image

**Li-Ion  
battery**

**Metal  
body**

- 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

- 12.0 MegaPixel CCD sensor
- 4x wide angle optical zoom
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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 06969  
 Bar code 4004781069696  
 UPC code 884375069691  
 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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