

Custom-built, waterproof camera for spectacular underwater photography

Point and Shoot Plus

The PowerShot D20 is second generation in the D-series. A compact digital camera built for spectacular underwater photography up to 10m. The sturdy body structure is built to endure a variety of environments, freezeproof to -10° and shockproof to 1.5m giving you the ability to take pictures absolutely everywhere. The 12.1MP High Sensitivity CMOS sensor allows for great shots even in low light situations, 5x optical zoom lens with Intelligent IS ensures clear, sharp shots even under water. The PowerShot D20 is perfect for the snow, surf, boat or skate park.

Key Features

Custom Built Design

- Waterproof 10m⁸
- Freezeproof- 10° ⁹
- Shockproof 1.5m¹⁰
- Dustproof (IP6X-class)¹¹

Precision image quality

- 12.1 Megapixel High Sensitivity CMOS
- 5x Optical Zoom
- 28mm Wide Angle Lens
- Intelligent IS
- Underwater Macro mode
- DiGIC 4
- Intelligent Auto (32 scenes)
- ISO 3200

Perfect portraits of family & friends

- Face Detection and Selector
- Face Detection Self-timer
- Red-eye Correction
- Blink Detection

Digital photography made fun and easy

- 3.0 type (7.5cm) LCD screen
- GPS technology
- Full HD movies
- Movie digest

▶ true colour ▶ true clarity ▶ true to life



Waterproof
10m
33ft.

Waterproof

Waterproof to a depth of 10 metres for beautiful underwater photography, with underwater macro mode functionality.



Freezeproof
 -10°C
14°F

Freeze proof

Cold proof construction up to -10°C making it ideal for trips to the snow.



Shockproof
1.5m
5.0ft.

Shock proof

Shock resistant construction makes it difficult to break even when knocked around, up to 1.5m



12.1 MEGA PIXELS
HIGH-SENSITIVITY
CMOS

Genuine Canon EOS inspired CMOS Sensor

12.1 megapixels with High Sensitivity, 1/2.3-inch type CMOS delivering outstanding quality images.



28mm
WIDE
5x

Optical Zoom Wide-angle lens

5x Optical Zoom and 28mm wide-angle lens allows you to get closer whilst shoot beautiful landscapes or capture great group shots.



GPS

GPS Technology

Perfect for travelling, log all your photos and display with Google maps.



INTELLIGENT IS

Intelligent Image Stabilisation

The camera will automatically choose the correct image stabilisation to use in different shooting situations



FULL HD

Full High Definition Movies

Shoot quality FULL HD movies with Dynamic Image Stabilisation and view easily on your TV with an optional HDMI terminal.



3.0" LCD

Sharper Previews

High resolution 3.0-inch type LCD screen with wide angle viewing (461,000 dots).

PowerShot D20 Technical Specifications

Sensor / Image Processor	
Effective Number of Pixels	Approx. 12.1 MP High Sensitivity CMOS
Size / Filter Array // Image Processor	1/2.3 inch / Primary colour filter (Bayer) // DiGiC 4
Lens	
Focal Length (optical)	5.0 (W) – 25.0 (T) mm
35mm film equivalent	28 (W) – 140 (T) mm
f/number	f/3.9 / f/8.0* (W), f/4.8 / f/17* (T) * used with ND filter
Shutter Speed	15 - 1/1600 sec. (Total shutter speed range)
Zoom / Image Stabilizer	Optical approx 5x; Digital approx 4x / Optical (Lens Shift Type), approx. 2 steps
Focusing	
Focus System // Focusing Frame	TTL Autofocus / Manual Focus // Face Detect ^{1,2} , Tracking, Center
Focusing Range	Normal/Manual: 1cm - infinity (W); 1m - infinity (T); Macro/Underwater Macro: 1cm - 50cm (W)
Shooting Functions	
Face Detection	Auto Focus, Auto Exposure, White Balance, Flash Exposure, Auto Red-Eye correction, FaceSelf-Timer, Blink Detection
Other Shooting Features	Servo AF, AF-Point Zoom, Size Select, AF Lock, AF Assist Beam, Intelligent Contrast Correction, Date Stamp, Digital tele-converter, Focus Check
Continuous Shooting (Large/Fine)	Approx 1.9 shots/sec
Self-timer	Approx. 10 sec or 2 sec delay, custom, FaceSelf-Timer ³
Control/Balance	
Light Metering Method	Evaluative ⁴ , Center-weighted average, Spot ⁵
Exposure Control Method	Program AE, AE Lock, Intelligent Contrast Correction
Exposure Compensation	± 2 stops in 1/3-stop increments
Sensitivity (Equivalent Film Speed)	Auto ⁶ , ISO 100/200/400/800/1600/3200
White Balance Modes	Auto, Daylight, Cloudy, Tungsten, Fluorescent H, Underwater, Custom
LCD Monitor	
LCD Monitor	3.0 type TFT wide viewing, quick bright LCD (approx 461k dots); Aspect ratio: 4:3; Brightness adjustment: 5 levels
Flash	
Flash Modes / Functions	Auto, on, off, Auto Red Eye Correction, Red Eye Reduction, Slow Synchro, FE Lock
Flash Range	30cm – 3.5m (W) 1.0m - 3.0m (T)
Selectable Shooting Modes	
Shooting Modes	Intelligent Auto (with Scene Detection), P, Movie Digest, Portrait, Smart Shutter, Handheld Night Scene, Low Light, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Monochrome, Super Vivid, Poster Effect, Colour Accent, Colour Swap, Underwater, Underwater Macro, Snow, Long Shutter, Stitch Assist, iFrame Movie, Super Slow Motion Movie (Movies are recorded by pressing the movie button)
My Colours	Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom
Image Recording Format	
Still image	JPEG Compression (EXIF 2.3 Compliant)
Colour Space and JPEG Compression	sRGB; Fine
Movies	MOV (Image Data: H.264; Audio Data: Linear PCM (2 channel monaural))
GPS Log file	NIMEA 0183 message format compliant
Recording Pixels and recording capacity on a 2GB card	
Still Images and Capacity on a 8GB card at Fine Image Setting	16:9 - Large: 4000x2248 (3,318), Medium1: 2816x1584 (6,279), Medium2: 1920x1080 (12,280), Small: 640x360 (49,125) 3:2 - Large: 4000x2664 (2,822), Medium1: 2816x1880 (5,339), Medium2: 1600x1064 (14,448), Small: 640x424 (40,937) 4:3 - Large: 4000x3000 (2,505), Medium1: 2816x2112 (4,732), Medium2: 1600x1200 (12,927), Small: 640x480 (40,937) 1:1 - Large: 2992x2992 (3,364), Medium1: 2112x2112 (6,297), Medium2: 1200x1200 (16,374), Small: 480x480 (49,125)
Movie Frame Rate and Capacity on a 8GB card	Intelligent Auto: 1920x1080 @ 24fps (29min 39 sec); 1280x720 @ 30fps (42min 11sec); 640x480 @ 30fps (11hr 28min 59sec); Super Slow Motion Movie: 640x480 @ 120fps (26min 24sec) / 320x240 @ 240fps (52min 28sec); Miniature Effect: 1280x720 @ 6fps (3hr 35min 27sec) / 640x480 @ 6fps (7hr 34min 51sec); iFrame Movie: 1280x720 @ 30fps (27min 39sec)
Other Operations	
Playback Operations	Red-eye Correction, Intelligent Contrast correction, Slideshow, My Colors, My Category, Index, Resize, Magnify, Jump, Auto Rotate, Rotate, Histogram, Overexposure Warning, Smart Shuffle
Direct Printing, PictBridge	Yes ⁷
Interface	
Supported Operating Systems	PC: Windows 7 SP1, Windows Vista SP2, Windows XP SP3; Mac: OS X v10.6 - v10.7
Computer I/F	USB 2.0 Hi-Speed / HDMI output
Video / Audio Output	PAL or NTSC selectable / 2-channel monaural
Memory Storage / Language	SD Memory Card, SDHC Memory Card, SDXC Memory Card / 30 languages
General Features	
Battery	Rechargeable Lithium-ion Battery NB-6L
Shooting Capacity (full charge)	LCD Monitor On 280 shots; Playback 5hours
Waterproof / Freezeproof/ Shockproof / Dustproof	Waterproof 10m ⁸ , Freezeproof to -10° ⁹ , Shockproof to 1.5m ¹⁰ , Dustproof ¹¹
Dimensions (W x D x H) // Weight	112.3 x 70.8 x 28.0 mm (ex. protruding parts) // Approx. 205g (Camera only)

Included as Standard

- Rechargeable Lithium-ion Battery NB-6L
- Battery Charger CB-2LYE
- USB Interface Cable IFC-400PCU
- AC Cable
- Wrist Strap WS-DC8
- Digital Camera Solution Disc
 - ImageBrowser EX
 - PhotoStitch
 - CameraWindows
 - MovieEdit
- Warranty Card

Optional Accessories

- AC Adaptor Kit ACK-DC40 (Contains CA-DC10 and DR-40)
- Waterproof Case WP-DC45 (40 meters)
- HDMI Cable HTC-100
- AV Cable AVCDC400
- High-Power Flash HF-DC1
- Soft Case SC-DC80
- Accessories Kit AKT-DC2

Disclaimer

- AF frame can be moved and fixed to specified face
- If no face is detected, AiAF (9 points) is used
- When number of detected faces increases, the shutter is released at 2 sec delay. However if no face is detected for 30 seconds or more, the shooting operation will start automatically.
- Control to incorporate facial brightness in Face Detect AF Fixed to center
- Motion Detection - Camera automatically sets the optimal speed according to shooting mode, subject brightness and subject movement and camera shake.
- Compatible printer required for direct printing
- 1IEC/JIS Protection rating IP8X for waterproofing
- Performance of the NB-6L battery pack may decrease at temperatures between -10°C to 0°C
- Camera dropped using unique standards, based on MIL Standard 810F Method 516.5
- IEC/JIS IP Protection Rating IP6X
- Land Use Only