

# SP-820UZ

- 40x super-wide optical zoom (22.4-896mm\*)
- iHS Technology
- Multi-motion Movie IS
- Dual Image Stabilisation
- 14 Megapixel CMOS
- 1080p Full HD Movie and HDMI Control
- 7.6cm/3.0" 460,000 dot colour LCD
- Magic Filter Movie and/or Stills



## Maximum zoom, new perspectives

Olympus' Ultra Zoom 'Traveller' Series has broken new ground again. For people who want expressive, excellent-quality close-ups on the go, the new flagship SP-820UZ has a superb optical zoom lens that takes the SP Series' traditional zoom power to a whole new level. For the first time you can magnify subjects up to 40x for the sort of detail, dynamism and emotion you'd only normally expect from an interchangeable telephoto lens. Given that its rivals can manage only 24mm\*, the 22.4mm\*\* super wide-angle lens on the SP-820UZ offers outstanding wide-angle flexibility with broad landscapes, interiors or crowds. The rest of the spec is equally impressive. Full HD and high-speed, adjustable-frame rate movie recording combines with Olympus iHS technologies that include a high-sensitivity CMOS sensor, TruePic V image processor – and an array of advanced features. The result? Fast reaction times, radiant colours, plus beautifully sharp images of fast-moving subjects and low-light, backlit scenes. Time after time, wherever you are, however light you want to travel. The SP-820UZ has an ergonomic comfort grip and the professional looks of a top-of-the-range camera.

## Specifications

### Image Sensor

Effective pixels	14 Megapixels
Filter array	Primary colour filter (RGB)
Full resolution	15.3 Megapixels
Type	1/2.3" CMOS

### Lens

Optical zoom	40x (WIDE)
Focal length	4.0 - 160.0mm
Focal length (equiv. 35mm)	22.4 - 896mm
Maximum aperture	3.4 - 5.7
Structure	14 lenses / 9 groups
Aspherical glass elements	4
ED glass elements	1

### Digital Zoom

Enlargement factor	4x / 160x combined with optical zoom
Super Resolution Zoom	2x / 80x combined with optical zoom

### Monitor

Resolution	460000 dots
Monitor size	7.6cm / 3.0"
Monitor type	TFT
Frame assistance	Yes
Brightness adjustment	+/- 2 levels
Protection panel	Yes

### Focusing System

Method	TTL iESP auto focus with contrast detection
Modes	iESP Face Detection AF Spot AF Tracking
Standard mode	0.1m - (wide) / 3.0m - (tele)
Macro mode	0.1m - (wide) / 3.0m - (tele)
Super Macro Mode	Closest focusing distance: 1cm
AF illuminator	Yes

## Light Metering

Modes	ESP light metering Spot metering
Histogram in shooting mode	Yes

## Exposure System

Modes	i-Auto Programme automatic Beauty Scene Modes Magic Filter Panorama Hand-held Starlight P + Movie clip
Shutter speed	1/4 - 1/2000s / < 4s (Night scene)
Exposure compensation	+/- 2EV / 1/3 steps
Enhancement function	Mechanical Image Stabiliser Advanced Face Detection Technology Pet Detection

## Scene Modes

Number of scene modes	15
Modes	Portrait Landscape Night Scene Night Scene with portrait Sports Indoor Self-portrait Sunset

## Magic Filter

Types	Pop Art Pin Hole Fisheye Drawing Soft Focus Punk Sparkle Water colour
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## Sensitivity

Auto	AUTO / High AUTO
Manual	ISO 80, 100, 200, 400, 800, 1600, 3200, 6400

## White Balance

AUTO WB system	Yes
One-touch white balance	2 custom settings can be registered
Preset values	Overcast Sunlight Tungsten Flourescent 1

## Internal Flash

Modes	AUTO Red-eye reduction Fill-in Off
Working range (wide)	0.2 - 15.0m (ISO 3200)
Working range (tele)	3.0 - 8.9m (ISO 3200)

## Sequence Shooting

Sequential shooting mode (high speed)	30fps / 34 frames (in 3MP mode) 10fps / 34 frames (in 3MP mode)
	3fps / 3 frames (Full Image Size)
Sequential shooting mode	1.5fps / 200 frames (Full Image Size)

## Image Processing

Noise reduction	Yes
Pixel mapping	Yes
Engine	TruePic V
Shading compensation	Yes
Distortion compensation	Yes

## Image Editing

Resize	Yes
Trimming	Yes
Correction of saturation	Yes
Red-eye reduction	Yes
Shadow Adjustment	Yes
Beauty Fix	Yes

## View Images

Modes	Single Index Zoom Slide show Event
Index	5 x 4 frames
Zoom	1.1 - 10x
Auto rotation	Yes
Image protect mode	Yes
Histogram in playback mode	Yes

## View Movie

Modes	Frame by frame Fast forward Reverse playback
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## Still Image Recording

DCF	Yes
RAW	No
EXIF	2.3
PIM	III
DPS	PictBridge
DPOF	Yes

## Movie Recording System

Recording format	QuickTime Motion JPEG®
Image Stabilisation Mode	Digital Image Stabilisation
High-Speed Recording	QVGA / 240fps Recording time: 20sec. VGA / 120fps Recording time: 20sec.
HD Movie quality	720P / 60fps Recording time: 20sec. 1080P Recording time: 29min.
Movie quality	720P Recording time: 29min. VGA Recording time: Up to card capacity
	Note: maximum file size 4GB
Magic Filter	Pop Art Pin Hole Fisheye Drawing Soft Focus Punk Water colour Reflection

## Sound Recording System

Voice playback	Yes
Sound recording	Yes , format: PCM
Image footage	4s
Speaker	Yes

## Memory

Removable Media	SD / SDHC / SDXC (UHS-I class supported)
Eye-Fi Card compatible	Yes
Internal memory	43MB

## Image Size

14M	4288 x 3216
8M	3264 x 2448
5M	2560 x 1920
3M	2048 x 1536
2M	1600 x 1200
1M	1280 x 960
VGA	640 x 480
16:9	4288 x 2416 1920 x 1080

## Menu

Menu languages in camera	39
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## Other Features

Self timer	2 / 12s Pet auto shutter
Perfect Shot Preview	Yes
Menu guide	Yes
Panorama function	Smart Panorama
Date imprint	Yes
SNS upload	Yes

## Power Supply

Battery	AA batteries Alkaline or Ni-MH (CR-V3 not compliant)
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## Interface

Combined A/V & USB output	Yes
USB 2.0 High Speed	Yes
HDMI™	Yes Micro connector (Type D) *

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## Size

Dimensions (W x H x D)	116.9 x 78.0 x 93.2mm
Weight	485g (including battery and memory card)

\*Equivalent to a 35mm camera