



## Specifications

### Imaging

Lens Mount	Micro Four Thirds
Camera Format	Micro Four Thirds (2x Crop Factor)
Pixels	Actual: 21.77 Megapixel Effective: 20.3 Megapixel
Max Resolution	20 MP: 5184 x 3888
Aspect Ratio	1:1, 3:2, 4:3, 16:9
Sensor Type / Size	MOS, 17.3 x 13 mm
File Formats	<b>Still Images:</b> JPEG, RAW <b>Movies:</b> AVCHD Ver. 2.0, H.264, MOV, MP4 <b>Audio:</b> AAC, Dolby Digital 2ch
Dust Reduction System	Yes
Memory Card Type	SD SDHC SDXC
Image Stabilisation	Sensor-Shift, 5-Way

### AV Recording

Video Recording	Yes, NTSC/PAL
Video Format	4096 x 2160p at 23.98, 24, 25 fps 3840 x 2160p at 23.98, 24, 25, 29.97, 50, 59.94 fps 3328 x 2496p at 23.98, 24, 25, 29.97, 50, 59.94 fps 1920 x 1080p at 23.98, 24, 25, 29.97, 50, 59.94 fps
Aspect Ratio	4:3, 16:9
Audio Recording	Built-In Mic: With Video (Stereo) Optional External Mic: With Video (Stereo + Mono)

### Focus Control

Focus Type	Auto & Manual
Focus Mode	Continuous-Servo AF (C), Flexible (AFF), Manual Focus (M), Single-servo AF (S)
Autofocus Points	Contrast Detection: 225

### Viewfinder/Display

Viewfinder Type	Electronic
Viewfinder Pixel Count	3,686,000
Viewfinder Eye Point	21.00 mm
Viewfinder Coverage	100%
Viewfinder Magnification	Approx. 0.76x
Dioptr Adjustment	-4 to +3 m
Display Screen	3.2" Rear Touchscreen Swivel Touchscreen LCD (1,620,000)
Screen Coverage	100%

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**Exposure Control**

ISO Sensitivity	Auto, 200-25600 (Extended Mode: 100-25600)
Shutter	Type: Electronic & Mechanical Speed: 60 - 1/8000 Second Type: Electronic & Mechanical Speed: 30 - 1 Minute in Bulb Mode 1/24 - 1/16000 Second in Movie Mode Type: Electronic Speed: 1 - 1/16000 Second
Remote Control	DMW-RSL1 (Optional)
Metering Method	Centre-Weighted Average Metering, Multiple, Spot Metering
Exposure Modes	Modes: Aperture Priority, Manual, Programmed Auto, Shutter Priority Metering Range: EV 0.0 - EV 18.0 Compensation: -5 EV to +5 EV (in 1/3 EV Steps)
White Balance Modes	Auto, Cloudy, Colour Temperature, Daylight, Flash, Incandescent, Shade, White Set 1, White Set 2, White Set 3, White Set 4
Buffer/Continuous Shooting	Up to 12 fps at 20.3 MP Up to 30 fps at 18 MP Up to 60 fps at 8 MP

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**Flash**

Flash Modes	Auto Auto/Red-Eye Reduction Forced On Forced On/Red-Eye Reduction Off Slow Sync Slow Sync/Red-Eye Reduction
Built-in Flash	No
Max Sync Speed	1 / 250 Second
Flash Compensation	-3 EV to +3 EV (in 1/3 EV steps)
Dedicated Flash System	TTL
External Flash Connection	Hot Shoe, PC Terminal

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**Performance**

Self Timer	10 Seconds, 2 Seconds
Interval Recording	Yes
Connectivity	1/8" Headphone, 1/8" Microphone, 2.5mm Sub-mini (2-Ring), HDMI A (Full Size), USB 3.0, Viera Link
Wi-Fi Capable	Yes

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**Power**

Battery	1 x DMW-BLF19 Rechargeable Lithium-Ion Battery Pack, 7.2 VDC, 1860 mAh
Operating/Storage Temperature	<b>Operating</b> 14 to 104°F (-10 to 40°C) Humidity: 10 - 80%

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**Physical**

Dimensions (W x H x D)	5.5 x 3.9 x 3.4" / 138.5 x 98.1 x 87.4 mm
Weight	1.595 lb / 725 g <i>with battery and memory card</i>