

Specifications [Collapse All](#)

Metrics -

Dimensions (W x H x D)	110.7 x 64.6 x 34.4 mm
Dimensions (W x H x D)	(4.36 x 2.54 x 1.35 inch)
Weight	Approx. 217 g without Battery and SD Memory Card (0.478 lb)
Weight	Approx. 243 g with Battery and SD Memory Card (0.536 lb)

Optics -

Pixels	
Camera Effective Pixels	12.1 Megapixels
Sensor	
Sensor Size / Total Pixels / Filter	1/2.3-inch Large Pixel Sized High Sensitivity MOS Sensor / Total Pixel Number 12.8 Megapixels / Primary Color Filter
Lens	
Aperture	F3.3 - 6.4 / Multistage Iris Diaphragm (F3.3 - 8.0 (W), F6.4 - 8.0 (T))
Optical Zoom	30x
Focal Length	f = 4.3 - 129mm (24 - 720mm in 35mm equiv.)
Focal Length	(28 - 840mm in 35mm equiv. in 16:9 video recording / Level Shot function Off)
Focal Length	(30 - 900mm in 35mm equiv. in 16:9 video recording / Level Shot function On)
Extra Optical Zoom (EZ)	36.7x (4:3 / 8M), 46.9x (4:3 / 5M), 58.6x (4:3 / under 3M)
Intelligent Zoom	60x
Lens	LEICA DC VARIO-ELMAR
Lens	12 elements in 9 groups
Lens	(5 Aspherical Lenses / 10 Aspherical surfaces / 3 ED Lenses)
2- Speed Zoom	Yes
Optical Image Stabilizer/Five Axis Correction	HYBRID O.I.S. + (On / Off) / Yes
Digital Zoom	Max. 4x (Max. 2x for TZ71)
Conversion Lens Compatibility	-
Focus	
Focusing Area	Normal: Wide 50cm - infinity / Tele 200cm - infinity
Focusing Area	AF Macro / MF / Intelligent Auto / Motion Picture: Wide 3 cm - infinity / Tele 200 cm - infinity
AF Assist Lamp	Yes (On/Off)
Focus	Normal / AF Macro / Macro Zoom / MF
Focus	Quick AF On / Off (on in Intelligent Auto), Continuous AF (only for motion picture)
Focus	AF/AE Lock Button (Set the Fn button in custom menu to AF/AE lock)
Focus	Focus Peaking / One Shot AF (Set the Fn button in custom menu to AF-ON) / AF Area Select / AF Tracking

Focus	Focus Peaking, One Shot AF (Set the AF button in custom menu to AF-ON), AF Area Select, AF Tracking
AF Metering	Face / AF Tracking / 23-area / 1-area (flexible / scalable)
Shutter	
Shutter Speed	Approx. 4 - 1/2,000 sec
Shutter Speed	Starry Sky Mode: 15, 30, 60 sec

Recording –

Finder	
Viewfinder	0.20" LVF (Live View Finder) (1,166K dots equiv.), Field of View: Approx. 100%, Lens 19.6x
Viewfinder	Magnification: Approx. 2.59x / 0.46x (35 mm camera equivalent)
File	
File Format	Still Image: JPEG (DCF/Exif2.3) / RAW, DPOF
File Format	3D Image: MPO
File Format	Motion Picture: AVCHD, MP4
Recording Modes	
Mode Dial / Mode Button	Intelligent Auto, P, A, S, M, C1 (Custom), C2 (Custom), Panorama Shot, Scene, Creative Control
Creative Control mode	Expressive, Retro, Old Days, High Key, Low Key, Sepia, Dynamic Monochrome, Impressive Art, High Dynamic, Cross Process, Toy Effect, Miniature Effect, Soft Focus, Star Filter, One Point Color (15 filters)
Still Image Scene Mode	Portrait, Soft Skin, Scenery, Sports, Night Portrait, Night Scenery, Handheld Night Shot, Food, Baby1, Baby2, Pet, Sunset, High Sensitivity, Glass Through, HDR, Starry Sky, High Speed Video, 3D Photo
Continuous Shooting Mode	Full-Resolution Image: 10 frames/sec, Max. 6 images
Continuous Shooting Mode	with AF Tracking: 6 frames/sec, 3 frames/sec
Continuous Shooting Mode	Intelligent Burst Shooting
Continuous Shooting Mode	High-speed Burst: Approx. 60 frames / sec
Continuous Shooting Mode	(recorded in 2.5M / 0.3M for 4:3, 3M / 0.3M for 3:2, 3.5M / 0.2M for 16:9, 2M / 0.2M for 1:1)
Continuous Shooting Mode	Approx. 40 frames / sec
Continuous Shooting Mode	(recorded in 5M / 3M / 0.3M for 4:3, 4.5M / 2.5M / 0.3M for 3:2, 3.5M / 2M / 0.2M for 16:9, 3.5M / 2.5M / 0.2M for 1:1)
Continuous Shooting Mode	Flash Burst Shooting
Motion Picture Recording (*2)	
HD Video	1920 x 1080 pixels, 60p (FHD: 28Mbps / AVCHD) (Sensor Output is 60fps)
HD Video	1920 x 1080 pixels, 60i (FHD: 17Mbps / AVCHD) (Sensor Output is 60fps)
HD Video	1280 x 720 pixels, 60p (HD: 17Mbps / AVCHD) (Sensor Output is 60fps)
HD Video	1920 x 1080 pixels, 30p (FHD: 20Mbps / MP4) (Sensor Output is 30fps)
HD Video	1280 x 720 pixels, 30p (HD: 10Mbps / MP4) (Sensor Output is 30fps)
STD Video	640 x 480, 30p (VGA: 4Mbps / MP4) (Sensor Output is 30fps)
High Speed Video	1280 x 720 pixels, 30p (HD: MP4) (Sensor Output is 120fps)
High Speed Video	640 x 480 pixels, 30p (VGA: MP4) (Sensor Output is 240fps)
Continuous recordable time (motion pictures)	

AVCHD	Approx. 75 min (FHD/60p), Approx. 80 min (FHD/60i)
MP4	Approx. 90 min (FHD)
Actual recordable time (motion pictures)	
AVCHD	Approx. 30 min (FHD/60p), Approx. 35 min (FHD/60i)
MP4	Approx. 40 min (FHD)
Exposure Parameters	
Exposure	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
Exposure Compensation	1/3 EV step, +/-2 EV
Auto (AE) Bracketing	1/3-1EV step, Max. +/-1 EV, 3 frames
Light Metering	Intelligent Multiple / Center Weighted / Spot
ISO Sensitivity	Auto / i.ISO / 80 / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400
Picture Quality	
Still Picture Recording	[4:3] 4000x3000 (12M) / 3264x2448 (8M EZ) / 2560x1920 (5M EZ) / 2048x1536 (3M EZ) / 640x480 (0.3M EZ)
Still Picture Recording	[3:2] 4000x2672 pixels (10.5M) / 3264x2176 (7M EZ) / 2560x1712 (4.5M EZ) / 2048x1360 (2.5M EZ) / 640x424 (0.3M EZ)
Still Picture Recording	[16:9] 4000x2248 (9M) / 3840 x 2160 (8M EZ) / 2560x1440 (3.5M EZ) / 1920x1080 (2M EZ) / 640x360 (0.2M EZ)
Still Picture Recording	[1:1] 2992x2992 (9M) / 2448x2448 (6M EZ) / 1920x1920 (3.5M EZ) / 1536x1536 (2.5M EZ) / 480x480 (0.2M EZ)
Image Quality	RAW / RAW+Fine / RAW+Standard / Fine / Standard
Image Quality	(3D Mode: MPO+Fine / MPO+Standard)
White Balance	Auto / Daylight / Cloudy / Shade / Incandescent / White Set
White Balance	White Balance Adjustment (Except Auto)
Photo Style / Film Mode	-
Color Mode / Color Effect / My color	-
Picture Adjustment	-
Aspect Bracketing	-
Other	
Digital Red Eye Correction (Red-Eye Removal)	Yes (On/Off)
GPS	-
Wi-Fi	IEEE 802.11b/g/n
Wi-Fi	2412 MHz ~ 2462 MHz (1-11 ch)
Wi-Fi	WPA / WPA2
Wi-Fi	Infrastructure Mode / WPS / Wi-Fi Direct
Wi-Fi	Wi-Fi Button
NFC	ISO/IEC 18092 (NFCIP-1) NFC-F
Zoom in Motion Picture	Yes
Self Timer	2 sec / 10 sec
Self Shot Mode	-

Playback -

Display	
Playback Mode	All, Slideshow, Filtering Play (Picture Only, Video Only, 3D Play, GPS Area Play*, Travel, Category Selection, Select Date, Favorite), Calendar
Playback Mode	* Not available on products for China.
Thumbnails / Zoomed Playback	12,30-thumbnails / Yes
Calendar Display / Dual- Image Playback	Yes (Menu / Zoom Lever) / No
Set Favorites / Rotate Image	Yes / No
Show Histogram	Yes
Show Highlights	-
DPOF Print Setting / Set Protection	Yes / Yes
Edit	
Retouch	Auto Retouch / Creative Retouch
Resize / Cropping / Aspect Conv. / Leveling	Yes / Yes / No / No
Copy / Title Edit / Text Stamp	Yes / Yes / Yes
Cut Animation	Yes
Video Divide	Yes
PictBridge Support	Single / Multi / All / DPOF / Favorites

Setup -

OSD language	English, Spanish
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Others -

Monitor	
LCD Monitor	3.0" (7.5cm) TFT Screen LCD Display (1,040K dots), AR Coating
LCD Monitor	Field of View: Approx. 100%, Wide Viewing-angle
LCD Monitor	Power Monitor mode, AUTO Power Monitor mode
Flash	
Built- in- Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off
Built- in- Flash	0.6 - 6.4m (Wide / ISO Auto), 2.0 - 3.3m (Tele / ISO Auto)
Media	
Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
Built- in- Memory	Approx. 86MB * Approx. 86MB for China
Audio	
Microphone / Speaker	Stereo / Mono

Interface	
Interface	microHDMI, AV Output (NTSC), USB (AV/USB Multi)
Power	
Power	Li-ion Battery Pack (3.6V, 1250mAh, 4.5 Wh) (Included)
Power	AC Adaptor (Input: 110 - 240V AC) (Included, connect with USB cable)
Battery life (approx.)	300 pictures (CIPA Standard)*1
Standard Package	
Included Software	PHOTOfunSTUDIO 9.6PE
Included Software	LoiLoScope (trial version)
Included Software	Adobe Reader
Included Software	• The software to process RAW file on PC is not bundled with DMC-ZS50.
Included Software	To do this, SILKPIX Developer Studio is available for download at Ichikawa Soft Laboratory's website using PC connected to the Internet.
Standard Accessories	Battery Pack, AC Adaptor, USB Cable, Hand Strap, CD-ROM
NOTE	*1
NOTE	Recording conditions by CIPA standard
NOTE	- Temperature: 23 oC (73.4 oF) / Humidity: 50%RH when LCD monitor is on.
NOTE	- Using a Panasonic SDHC Memory Card
NOTE	- Using the supplied battery.
NOTE	- Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [ON].)
NOTE	- Recording once every 30 seconds with full flash every second recording.
NOTE	- Rotating the zoom lever from Tele to Wide or vice versa in every recording.
NOTE	- The number of recordable pictures varies depending on the recording interval time.
NOTE	- If the recording interval time becomes longer, the number of recordable pictures decreases.
NOTE	- CIPA is an abbreviation of [Camera & Imaging Products Association].
NOTE	*2
NOTE	- These are standard times taken at a temperature of 23 oC (73.4 oF) and a humidity of 50%RH.
NOTE	- The time available for recording varies depending on the environment, the interval between recordings, and the manner of use.
NOTE	- Actual recordable time is the time available for recording when repeating actions such as switching the power supply [ON] / [OFF], starting/stopping recording, zoom operation etc.
NOTE	- Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures.
NOTE	SD speed class is the speed standard regarding continuous writing.
NOTE	- Maximum time to record motion pictures continuously with [AVCHD] in [FHD/60p] / [FHD/60i] is 29 minutes 59 seconds.
NOTE	- Maximum time to record motion pictures continuously with [MP4] is 29 minutes 59 seconds or up to 4 GB.
UPC	885170235465