



LUMIX Digital Camera DMC-TZ80

Metrics		Dimensions (W x H x D)	112.0 x 64.0 x 38.0 mm
		Dimensions (W x H x D)	(4.41 x 2.52 x 1.50 inch)
		Weight	Approx. 282 g with Battery and SD Memory Card (0.6217 lb)
		Weight	Approx. 240 g without Battery and SD Memory Card (0.5291 lb)
Optics	Pixels	Camera Effective Pixels	18.1 Megapixels
	Sensor	Sensor Size / Total Pixels / Filter	1/2.3-type High Sensitivity MOS Sensor / 18.9 Total Megapixels / Primary Color Filter
	Lens	Aperture	F3.3 - 6.4 / Multistage Iris Diaphragm
		Aperture	(Still Image: F3.3 - 8.0 (W), F6.4 - 8.0 (T), Motion Picture: F3.3 - 8.0 (W), F6.4 - 8.0 (T))
		Optical Zoom	30x
		Focal Length	f = 4.3 - 129mm
		Focal Length	(24 - 720mm in 35mm equiv. in 4:3)
		Focal Length	(25 - 750mm in 35mm equiv. in 3:2)
		Focal Length	(26 - 780mm in 35mm equiv. in 16:9)
		Focal Length	(28 - 840mm in 35mm equiv. in 1:1)
		Focal Length	(33 - 990mm in 35mm equiv. in 4K Photo recording)
		Focal Length	(26 - 780mm in 35mm equiv. in 16:9 video recording / O.I.S. Off / Level Shot function Off)
		Focal Length	(28 - 840mm in 35mm equiv. in 16:9 video recording / O.I.S. On / Level Shot function Off)
		Focal Length	(30 - 900mm in 35mm equiv. in 16:9 video recording / O.I.S. On / Level Shot function On)
		Focal Length	(33 - 990mm in 35mm equiv. in 4K video recording)
		Extra Optical Zoom (EZ)	42.5x (4:3 / 9M (M)), 61.2x (4:3 / 4.5M (S))
Intelligent Zoom	60x		
Lens	LEICA DC VARIO-ELMAR		
Lens	12 elements in 9 groups		

	Lens	(5 Aspherical Lenses / 10 Aspherical surfaces)	
	Optical Image Stabilizer	5-Axis HYBRID O.I.S. +*	
	Optical Image Stabilizer	* 5-Axis compensation works in video recording except for 4K video or high-speed video recording.	
	Digital Zoom	Max. 4x (When Digital Zoom is used simultaneously with Intelligent Zoom, you can only increase the zoom ratio up to 2x.)	
Focus	Focusing Area	Normal: Wide 50 cm - infinity / Tele 200 cm - 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	AF / AF Macro / Macro Zoom * Each available with AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF Quick AF, Continuous AF (during motion picture recording), Eye Sensor AF, Touch AF/AE Function,	
	Focus	Touch Shutter, Touch Pad AF, MF Assist, Touch MF Assist, AF+MF, Focus Peaking, One Shot AF (Set the Fn button in custom menu to AF-ON), Low Light AF, No Starlight AF	
	Post Focus	Yes	
	AF Metering	Face/Eye Detection / Tracking / 49-area / 1-area	
	AF Metering	(Full area touch is available)	
Shutter	Shutter Speed [Still Image]	Approx. 4 - 1/2,000 sec (Mechanical Shutter)	
	Shutter Speed [Still Image]	Approx. 1 - 1/16,000 sec (Electronic Shutter)	
	Shutter Speed [Still Image]	Artistic Nightscape (Approx. 60 sec)	
	Shutter Speed [Motion Picture]	Approx. 1/25 - 1/16,000 sec	
	Shutter Speed [Motion Picture]	Approx. 1/2 - 1/16,000 sec (Creative Video M Mode / MF Mode)	
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)	
Recording	File	File Format	Still Image: JPEG (DCF/Exif2.3) / RAW, DPOF
		File Format	Motion Picture: AVCHD Progressive, AVCHD, MP4
	Recording Modes	Mode Dial / Mode Button	Intelligent Auto, P, A, S, M, Creative Video, C (Custom), Panorama Shot, Scene Guide, Creative Control

	Creative Control mode	Expressive, Retro, Old Days, High Key, Low Key, Sepia, Monochrome, Dynamic Monochrome, Rough Monochrome, Silky Monochrome, Impressive Art, High Dynamic, Cross Process, Toy Effect, Toy Pop, Bleach Bypass, Miniature Effect, Soft Focus, Fantasy, Star Filter, One Point Color, Sunshine (22 filters)
	Still Image Scene Guide	Clear Portrait, Silky Skin, Backlit Softness, Clear in Backlight, Relaxing Tone, Sweet Child's Face, Distinct Scenery, Bright Blue Sky, Romantic Sunset Glow, Vivid Sunset Glow, Glistening Water, Clear Nightscape, Cool Night Sky, Warm Glowing Nightscape, Artistic Nightscape, Glittering Illuminations, Handheld Night Shot, Clear Night Portrait, Soft Image of a Flower, Appetizing Food, Cute Dessert, Freeze Animal Motion, Clear Sports Shot, Monochrome
	Continuous Shooting Mode (Approx.)	[AFS] SH: 40 frames/sec*, H: 10 frames/sec, M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View) [AFC] H: 5 frames/sec, M: 5 frames/sec (with Live View), L: 2 frames/sec (with Live View) * Electronic shutter only.
	4K Photo Mode (*2)	4K Burst: 30 frames/sec, max. 15 min
	4K Photo Mode (*2)	4K Burst (S/S): 30 frames/sec, max. 15 min
	4K Photo Mode (*2)	4K Pre-Burst: 30 frames/sec, approx. 2 sec
	4K Photo Mode (*2)	(Depending on memory card size and battery power)
	4K Photo Mode (*2)	Exif Information: Yes
	4K Photo Mode (*2)	Selectable Aspect Ratio: Yes (4:3 / 3:2 / 16:9 / 1:1 are selectable)
	4K Photo Mode (*2)	Exposure Mode: Program AE / Aperture Priority AE / Shutter Priority AE / Manual
	4K Photo Mode (*2)	Marking Function: Yes (in 4K Burst (S/S) mode)
Motion Picture Recording (*2)	4K Video	3840 x 2160 pixels, 25p (4K: 100Mbps / MP4) (Sensor Output is 25fps) (AAC)
	HD Video	1920 x 1080 pixels, 50p (FHD: 28Mbps / AVCHD) (Sensor Output is 50fps) (Dolby)
	HD Video	1920 x 1080 pixels, 50i (FHD: 24Mbps / AVCHD) (Sensor Output is 25fps) (Dolby)
	HD Video	1920 x 1080 pixels, 50i (FHD: 17Mbps / AVCHD) (Sensor Output is 50fps) (Dolby)
	HD Video	1920 x 1080 pixels, 50p (FHD: 28Mbps / MP4) (Sensor Output is 50fps) (AAC)
	HD Video	1920 x 1080 pixels, 25p (FHD: 20Mbps / MP4) (Sensor Output is 25fps) (AAC)
	HD Video	1280 x 720 pixels, 25p (HD: 10Mbps / MP4) (Sensor Output is 25fps) (AAC)
	STD Video	640 x 480, 25p (VGA: 4Mbps / MP4) (Sensor Output is 25fps) (AAC)
	High Speed Video	1280 x 720 pixels, 25p (HD: MP4) (Sensor Output is 100fps)
	High Speed Video	640 x 480 pixels, 25p (VGA: MP4) (Sensor Output is 200fps)

Continuous Recordable Time (Motion Pictures)	AVCHD	FHD/50p: Approx. 105 min
	AVCHD	FHD/50i: Approx. 110 min
	MP4	4K/25p: Approx. 90 min
	MP4	FHD/50p: Approx. 110 min
Actual recordable Time (Motion Pictures)	AVCHD	FHD/50p: Approx. 50 min
	AVCHD	FHD/50i: Approx. 55 min
	MP4	4K/25p: Approx. 45 min
	MP4	FHD/50p: Approx. 55 min
Exposure Parameters	Exposure	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
	Exposure Compensation	1/3 EV step, +/-5 EV (+/-3 EV for motion picture)
	Auto (AE) Bracketing	3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. +/-3 EV
	Light Metering	Intelligent Multiple / Center Weighted / Spot
	ISO Sensitivity	Still Image: Auto / i.ISO / 80 / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 (Extended ISO)
	ISO Sensitivity	Motion Picture: Auto / 80 / 100 / 200 / 400 / 800 / 1600 / 3200
	ISO Sensitivity	(Changeable to 1/3 EV step)
Picture Quality	Still Picture Recording	[4:3] 4896x3672 (18M) (L) / 3456x2592 (9M) (M) / 2400x1800 (4.5M) (S)
	Still Picture Recording	[3:2] 4896x3264 (16M) (L) / 3456x2304 (8M) (M) / 2400x1600 (4M) (S)
	Still Picture Recording	[16:9] 4896x2752 (13.5M) (L) / 3840x2160 (8M) (M) / 1920x1080 (2M) (S)
	Still Picture Recording	[1:1] 3664x3664 (13.5M) (L) / 2592x2592 (7M) (M) / 1824x1824 (3.5M) (S)
	Image Quality	RAW / RAW+Fine / RAW+Standard / Fine / Standard
	White Balance	Auto / Daylight / Cloudy / Shade / Incandescent / Flash / White Set1 / White Set2 / Color Temperature
	White Balance	(2-axis Adjustable)
	Photo Style	Standard, Vivid, Natural, Monochrome, Scenery, Portrait, Custom
	Picture	Contrast, Sharpness, Noise Reduction, Saturation*

		Adjustment	
		Picture Adjustment	* Except for Monochrome mode.
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
		NFC	-
		Zoom in Motion Picture	Yes
		Self Timer	2 sec / 10 sec / 10 sec (3 images)
		Self Shot Mode	-
	Playback	Display	Playback Mode
Thumbnails / Zoomed Playback			12,30-thumbnails / Yes
Set Favorites / Rotate Image			Yes / Yes
Show Histogram/ Show Highlights			Yes / Yes
DPOF Print Setting / Set Protection			Yes / Yes
Edit		Retouch	-
		RAW Processing	-
		Resize/ Cropping	Yes / Yes
		Copy / Title Edit / Text	- / Yes / Yes

		Stamp	
		Video Divide	Yes
		Creating Still Pictures from a Motion Picture	Yes
		PictBridge Support	Single / Multi / All / DPOF / Favorites
Setup		OSD language	Japanese, English, German, French, Italian, Spanish, Chinese (Traditional), Chinese (Simplified)
Others	Monitor	LCD Monitor	7.5cm (3.0") TFT Screen LCD Display (1040k dots), Static Touch Control, AF Coating
		LCD Monitor	Field of View: Approx. 100%, Wide Viewing-angle
	Flash	Built-in-Flash	Auto*, Auto/Red-eye Reduction*, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off * For iA, iA+ mode only.
		Built-in-Flash	0.6 - 5.6m (Wide / ISO Auto), 2.0 - 2.9m (Tele / ISO Auto)
	Media	Recording Media	SD Memory Card, SDHC Memory Card, SDXC Memory Card
		Recording Media	(Compatible with UHS-I UHS Speed Class 3 standard SDHC / SDXC Memory Cards)
		Built-in-Memory	-
	Audio	Microphone / Speaker	Stereo / Mono
	Interface	Interface	microHDMI typeD (*3), USB2.0 Micro-B
	Power	Power	Li-ion Battery Pack (7.2V, 1025mAh, 7.4 Wh) (Included)
		Power	AC Adaptor (Input: 110 - 240V AC) (Included, connect with USB cable)
		Battery life (approx.)	320 pictures (rear monitor) / 280 pictures (LVF) (CIPA Standard) (*1)
	Standard Package	Included Software	<ul style="list-style-type: none"> The software to process RAW file on PC is not bundled with DMC-TZ80. To do this, SILKYPIX Developer Studio is available for download at Ichikawa Soft Laboratory's website using PC connected to the Internet.
		Included Software	<ul style="list-style-type: none"> The DMC-TZ80 Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.
Included Software		<ul style="list-style-type: none"> The software for PC is not bundled with DMC-TZ80. Please use the software pre-installed to the PC or other general image viewing software to browse pictures. 	
Standard Accessories		Battery Pack, AC Adaptor, USB Cable, Hand Strap	
NOTE		*1	

NOTE	Recording conditions by CIPA standard
NOTE	- Temperature: 23 °C (73.4 °F) / Humidity: 50%RH when 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 °C (73.4 °F) 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	- Use a card with SD Speed Class with "UHS-I Speed Class 3 (U3)" when recording motion pictures with [MP4] in [4K] or [4K PHOTO].
NOTE	(SD speed class is the speed standard regarding continuous writing.)
NOTE	- Maximum time to record motion pictures continuously with [AVCHD] is 29 minutes 59 seconds.
NOTE	- Maximum time to record motion pictures continuously with [MP4] in [4K] is 15 minutes.
NOTE	- Maximum time to record motion pictures continuously with [MP4] in [FHD] [HD] [VGA] is 29 minutes 59 seconds or up to 4 GB.
NOTE	- Maximum time to record High Speed motion pictures continuously with [MP4] in [HD] is 7 minutes 29 seconds.
NOTE	- Maximum time to record High Speed motion pictures continuously with [MP4] in [VGA] is 3 minutes 44 seconds.
NOTE	*3
NOTE	For [4K] video output, use an HDMI cable that has the HDMI logo on it, and that is described as "4K compatible".