

2012 LUMIX®

DMC-TS4 Digital Camera



Additional Colors:

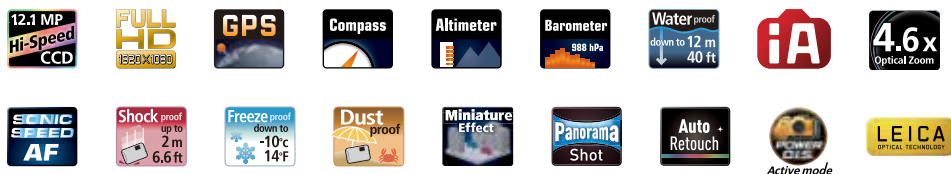


40FT WATERPROOF, 6.6FT SHOCKPROOF, 14°F FREEZEPROOF, DUSTPROOF
Incredibly tough and ready for any outdoor adventure.

FULL HD VIDEO RECORDING IN AVCHD/MP4 FORMAT
Record videos with outstanding natural clarity and fine detail.

GPS FUNCTION WITH ALTIMETER, BAROMETER AND COMPASS
Share your travel excitement by documenting your exact locations and conditions.

- 12.1 Megapixel High Speed CCD Sensor
- 4.6x LEICA Lens
- Power O.I.S. with Active Mode
- Time Lapse Shot
- Miniature Effect
- Sonic Speed AF
- Panorama Shot
- Auto Retouch
- LUMIX Image Uploader
- 3D Photo Mode
- Intelligent Auto



METRICS		
Dimensions (W x H x D)	103.5 x 64.0 x 26.5 mm (4.07 x 2.52 x 1.04 inch)	
Weight	Approx. 175g without Battery and SD Memory Card (0.39 lb) Approx. 197g with Battery and SD Memory Card (0.43 lb)	
OPTICS		
Pixels	Camera Effective Pixels	12.1 Megapixels
Sensor	Sensor Size / Total Pixels / Filter	1 / 2.33-inch CCD sensor / 12.5 Total Megapixels / Primary Color Filter
Lens	Aperture	F3.3-5.9 / 2-Step (F3.3 / 10 (W), F5.9 / 18 (T))
	Optical Zoom	4.6x
	Focal Length	f=4.9-22.8mm (28-128mm in 35mm equiv.) (30-140mm in 35mm equiv. in video recording)
	Extra Optical Zoom (EZ)	5.7x (4:3 / 8M), 7.3x (4:3 / 5M), 9.1x (under 3M)
	Intelligent Zoom	9.3x
	Lens	LEICA DC VARIO-ELMAR 10 elements in 8 groups (5 Aspherical Lenses / 6 Aspherical surfaces / 1 ED Lens)
	2-Speed Zoom	—
	Optical Image Stabilizer	Power O.I.S. (On with Active Mode (only for Motion Picture) / Off)
	Digital Zoom	4x
	Focus	Focusing Area
AF Assist Lamp		Yes (LED light in Motion Picture Mode)
Focus		Normal, AF Macro, Zoom Macro Quick AF On/Off (On in Intelligent Auto), Continuous AF (only for Motion Picture) AF Tracking
AF Metering		Face / AF Tracking / 23pt / 1pt / Spot
Shutter		Shutter Speed
Finder	Viewfinder	—
RECORDING		
File	File Format	Still Image: JPEG(DCF/Exif2.3) 3D Image: MPO Motion Picture: AVCHD, MP4
Recording Modes	Mode Dial / Mode Button	Intelligent AUTO, P, M, Sports, Snow, Miniature Effect, Beach & Snorkeling, Underwater, SCN, 3D Photo
	Creative Control Mode	—
	Still Image Scene Mode	Portrait, Soft Skin, Scenery, Panorama Shot, Night Portrait, Night Scenery, Handheld Night Shot, Food, Baby1, Baby2, Pet, Sunset, High Sensitivity, Glass Through
	Continuous Shooting Mode	Full-Resolution Image, 3.7 frames/sec Max. 6 images High-speed Burst Mode: approx. 10 frames/sec (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9, 2.5M for 1:1), Max. 100 images Time Lapse Shot
	Motion Picture Recording (*)	HD Video 1920 x 1080 pixels, 60i (GFS: 17Mbps, FSH: 17Mbps / AVCHD) (Sensor output is 30p) 1280 x 720 pixels, 60p (GS: 17Mbps, SH: 17Mbps / AVCHD) (Sensor output is 30p) 1920 x 1080 pixels, 30fps (FHD: 20Mbps / MP4) 1280 x 720 pixels, 30fps (HD: 10Mbps / MP4) STD Video 640 x 480 pixels, 30fps (VGA: 4Mbps / MP4) High Speed Video —
Continuous recordable time (motion pictures)	AVCHD	approx. 100 min (GFS, FSH), 110 min (GS, SH)
	MP4	approx. 100 min (FHD)
Actual recordable time (motion pictures)	AVCHD	approx. 50 min (GFS, FSH), 55 min (GS, SH)
	MP4	approx. 50 min (FHD)
Exposure Parameters	Exposure	Program AE, Manual
	Exposure Compensation	1/3 EV step, +/-2 EV
	Auto (AE) Bracketing	1/3 -1EV step, Max +/-1EV, 3 frames
	Multi-Aspect	—
	Light Metering	Intelligent Multiple
	ISO Sensitivity	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity Mode (ISO 1600-6400)

RECORDING (CONT.)			
Picture Quality	Still Picture Recording	1:1	2992 x 2992 (9M) / 2448 x 2448 (6M EZ) / 1920 x 1920 (3.5M EZ) / 1536 x 1536 (2.5M EZ) / 480 x 480 (0.2M EZ)
		4:3	4000 x 3000 (12M) / 3264 x 2448 (8M EZ) / 2560 x 1920 (6M EZ) / 2048 x 1536 (3M EZ) / 1600 x 1200 (2M EZ) / 640 x 480 (0.3M EZ)
		3:2	4000 x 2672 (10.5M) / 3264 x 2176 (7M EZ) / 2560 x 1712 (4.5M EZ) / 2048 x 1360 (2.5M EZ) / 640 x 424 (0.3M EZ)
		16:9	4000 x 2248 (9M) / 3264 x 1840 (6M EZ) / 2560 x 1440 (3.5M EZ) / 1920 x 1080 (2M EZ) / 640 x 360 (0.2M EZ)
	Image Quality	Fine / Standard (3D Mode: MPO Fine / MPO Standard)	
	White Balance	Auto / Daylight / Cloudy / Shade / Incandescent / White Set White Balance Adjustment	
	Photo Style / Film Mode	—	
Color Mode / Color Effect / My Color	Color Mode: Standard, Black & White, Sepia, Vivid (in P / M Mode), Happy (only in IA Mode)		
Picture Adjustment	—		
Other	Digital Red-eye Correction (Red-eye Removal)	Yes	
	GPS	Yes	
	Wi-Fi	—	
	Zoom In Motion Picture	Yes	
	Self-timer	2sec / 10sec	
PLAYBACK			
Display	Playback Mode	Normal Playback, Slideshow, Filtering Playback (Picture Only, Video Only, 3D, GPS Area, Altimeter Log, Travel, Category, Favorites), Calendar Playback	
	Thumbnails / Zoomed Playback	12, 30-thumbnails / Yes	
	Calendar Display / Dual-Image Playback	Yes / No	
	Set Favorites / Rotate Image	Yes / No	
	Show Histogram	Yes	
	Show Highlights	—	
	DPOF Print Setting / Set Protection	Yes / Yes	
Edit	Retouch	Auto 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 / Favorites / DPOF	
SETUP			
OSD Language	Please refer to "OSD" Sheet		
OTHERS			
Monitor	LCD Monitor	2.7" (6.7cm) TFT Screen LCD Display (230K dots), AR Coating Field of View: approx. 100% Wide Viewing Angle Power LCD Mode, AUTO Power LCD Mode	
Flash	Built-in-Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off, 0.3-5.6m (Wide/ISO Auto), 0.3-3.1m (Tele/ISO Auto)	
Media	Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card	
	Built-in-Memory	Approx. 20MB	
Audio	Microphone / Speaker	Mono / Mono	
Interface	Interface	micro HDMI, AV Output (NTSC), USB 2.0 High speed	
Power	Power	Li-ion Battery Pack (3.6V, Minimum: 940mAh)	
Standard Package	Battery Life (approx.)	310 pictures (CIPA Standard)*1	
	Included Software	PHOTOfunSTUDIO 8.1 Advanced Edition Adobe Reader	
Standard Accessories	Please refer to "Accessories" Sheet		

*1 Recording conditions by CIPA standard

- CIPA is an abbreviation of [Camera & Imaging Products Association].
- Temperature: 23°C (73.4°F) / Humidity: 50%RH when LCD monitor is on.
- Using a Panasonic SD Memory Card (32MB).
- Using the supplied battery.
- Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [ON].)
- Recording once every 30 seconds with full flash every second recording.
- Rotating the zoom lever from Tele to Wide or vice versa in every recording.
- Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases.

- *2 — These are standard times taken at a temperature of 23°C (73.4°F) and a humidity of 50%RH.
- The time available for recording varies depending on the environment, the interval between recordings, and the manner of use.
 - 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.