

2012 LUMIX®

DMC-TS20 Digital Camera



Screen image simulated.

Additional Colors:



16FT WATERPROOF, 5FT SHOCKPROOF, 14°F FREEZEPROOF, DUSTPROOF
Incredibly tough and ready for any outdoor adventure.

HD VIDEO RECORDING IN MP4 FORMAT

Easily create and edit great-looking videos you'll be proud to share.

MEGA O.I.S. (OPTICAL IMAGE STABILIZER)

Compensates for hand-shake to help prevent blur in close-ups and long-zoom photos.

- 16.1 Megapixel CCD Sensor
- 4x Optical Zoom
- Sonic Speed AF
- Miniature Effect
- Panorama Shot
- Auto Retouch
- LUMIX Image Uploader



Panasonic
ideas for life

LUMIX®

Official Worldwide
Olympic Partner



METRICS			
Dimensions (W x H x D)	101.0 x 58.3 x 19.2 mm (3.98 x 2.30 x 0.76 inch)		
Weight	Approx. 123g without Battery and SD Memory Card (0.27 lb) Approx. 142g with Battery and SD Memory Card (0.31 lb)		
OPTICS			
Pixels	Camera Effective Pixels	16.1 Megapixels	
Sensor	Sensor Size / Total Pixels / Filter	1 / 2.33-inch CCD sensor / 16.6 Total Megapixels / Primary Color Filter	
Lens	Aperture	F3.9-5.7 / 2-Step (F3.9 / 9.0 (W), F5.7 / 13 (T))	
	Optical Zoom	4.0x	
	Focal Length	f=4.5-18.0mm (25-100mm in 35mm equiv.) (29-108mm in 35mm equiv. in movie recording)	
	Extra Optical Zoom (EZ)	5.1x (4:3 / 10M), 7.2x (4:3 / 5M), 9.0x (under 3M)	
	Intelligent Zoom	8.0x	
	Lens	LUMIX DC VARIO 11 elements in 10 groups (5 Aspherical Lenses / 9 Aspherical surfaces / 1 ED Lens)	
	2-Speed Zoom	—	
	Optical Image Stabilizer	MEGA O.I.S. (On with Active Mode (only for Motion Picture) / Off)	
Digital Zoom	4x		
Focus	Focusing Area	Normal: Wide 50 cm - infinity / Tele 100cm - infinity Macro / Intelligent AUTO / Motion Picture: Wide 5 cm - infinity / Tele 100cm - infinity	
	AF Assist Lamp	Yes	
	Focus	Normal, AF Macro, Zoom Macro Quick AF (Always On), AF Tracking	
	AF Metering	Face / AF Tracking / 23pt / 1pt / Spot	
Shutter	Shutter Speed	approx. 8 - 1/1300 sec	
Finder	Viewfinder	—	
RECORDING			
File	File Format	Still Image: JPEG (DCF / Exif2.3) Motion Picture: MP4	
Recording Modes	Mode Dial / Mode Button	Intelligent AUTO, Normal Picture, Sports, Snow, Beach & Surf, Underwater, Miniature Effect, SCN	
	Creative Control Mode	—	
	Still Image Scene Mode	Portrait, Soft Skin, Scenery, Panorama Shot, Night Portrait, Night Scenery, Food, Baby1, Baby2, Pet, Sunset, High Sensitivity, Glass Through	
	Continuous Shooting Mode	Full-Resolution Image, approx. 1.3 frames/sec High-speed Burst Mode: approx. 8 frames/sec (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9, 2.5M for 1:1) Max. 80 images	
	Motion Picture Recording (*)	HD Video	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	—	
	MP4	approx. 100 min (HD)	
Actual recordable time (motion pictures)	AVCHD	—	
	MP4	approx. 50 min (HD)	
Exposure Parameters	Exposure	Auto (Program AE)	
	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	i.i.S.O / 100 / 200 / 400 / 800 / 1600 High Sensitivity Mode (ISO 1600-6400)	
Picture Quality	Still Picture Recording	1:1	3456 x 3456 (12M)
		4:3	4608 x 3456 (16M) / 3648 x 2736 (10M EZ) / 2560 x 1920 (5M EZ) / 2048 x 1536 (3M EZ) / 640 x 480 (0.3M EZ)
		3:2	4608 x 3072 (14M)
		16:9	4608 x 2592 (12M)
	Image Quality	—	
	White Balance	Auto / Daylight / Cloudy / Shade / Incandescent / White Set	
	Photo Style / Film Mode	—	
	Color Mode / Color Effect / My Color	Color Mode: Standard, Black & White, Sepia, Vivid (in normal), Happy (only in iA Mode)	
Other	Picture Adjustment	—	
	Digital Red-eye Correction (Red-eye Removal)	Yes	
	GPS	—	
	Wi-Fi	—	
	Zoom In Motion Picture	Yes	
Self-timer	2sec / 10sec		

PLAYBACK		
Display	Playback Mode	Normal Playback, Slideshow, Filtering Playback (Category Playback / Favorites Playback), Calendar Playback
	Thumbnails / Zoomed Playback	12, 30-thumbnails / Yes
	Calendar Display / Dual-Image Playback	Yes / No
	Set Favorites / Rotate Image	Yes / No
	Show Histogram	—
	Show Highlights	—
	DPOF Print Setting / Set Protection	Yes / Yes
	Edit	Retouch
Resize / Cropping / Aspect Conv. / Leveling		Yes / Yes / No / No
Copy / Title Edit / Text Stamp		Yes / No / Yes
Cut Animation		—
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% Power LCD Mode, AUTO Power LCD Mode, High Angle Mode
Flash	Built-in-Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off, 0.3-4.4m (Wide/ISO Auto), 1.0-3.0m (Tele/ISO Auto)
Media	Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
	Built-in-Memory	Approx. 70MB
Audio	Microphone / Speaker	Mono / Mono
Interface	Interface	AV Output (NTSC), USB 2.0 High speed
Power	Power	Li-ion Battery Pack (3.6V, Minimum: 680mAh)
	Battery Life (approx.)	250 pictures (CIPA Standard)*1
Standard Package	Included Software	PHOTOfunSTUDIO 8.0 Standard 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.