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LUMIX Digital Camera DMC-GF7

TYPE		Type	Digital Single Lens Mirrorless camera
		Recording media	SD Memory Card, SDHC Memory Card, SDXC Memory Card (Compatible with UHS-I standard SDHC / SDXC Memory Cards)
		Image sensor size	17.3 x 13.0 mm (in 4:3 aspect ratio)
		Lens mount	Micro Four Thirds mount
IMAGE SENSOR		Type	Live MOS Sensor
		Total pixels	16.84 Megapixels
		Camera effective pixels	16.00 Megapixels
		Color filter	Primary color filter
		Dust reduction system	Supersonic wave filter
RECORDING SYSTEM	Recording file format	Still image	JPEG (DCF, Exif 2.3), RAW, MPO (When attaching 3D lens in Micro Four Thirds system standard)
		Motion picture	AVCHD (Audio format: Dolby Digital 2ch), MP4 (Audio format AAC 2ch)
	Aspect ratio		4:3, 3:2, 16:9, 1:1
	Image quality		RAW, RAW+Fine, RAW+Standard, Fine, Standard/MPO+Fine / MPO+Standard (with 3D lens in Micro Four Thirds system standard)
	Color Space		sRGB, AdobeRGB
	File size(Pixels)	Still Image	[4:3] 4592x3448(L) / 3232x2424(M) / 2272x1704(S) / 1824x1368 (When attaching 3D lens in Micro Four Third system standard)/[3:2] 4592x3064(L) / 3232x2160(M) / 2272x1520(S) / 1824x1216 (When attaching 3D lens in Micro Four Third system standard)/[16:9] 4592x2584(L) / 3840x2160(M) / 1920x1080(S) / 1824x1024 (When attaching 3D lens in Micro Four Third system standard)/[1:1] 3424x3424(L) / 2416x2416(M) / 1712x1712(S) / 1712x1712 (When attaching 3D lens in Micro Four Third system standard)

	Motion picture*1	MP4*2	[Full HD] 1920x1080 60p, 28Mbps (sensor output is 60fps)/[Full HD] 1920x1080 30p, 20Mbps (sensor output is 30fps)/[HD] 1280x720 30p, 10Mbps (sensor output is 30fps)/[VGA] 640x480 30p, 4Mbps (sensor output is 30fps)
		MP4*2:PAL area	[Full HD] 1920x1080 50p, 28Mbps (sensor output is 50fps)/[Full HD] 1920x1080 25p, 20Mbps (sensor output is 25fps)/[HD] 1280x720 25p, 10Mbps (sensor output is 25fps)/[VGA] 640x480 25p, 4Mbps (sensor output is 25fps)
		AVCHD*3	[Full HD] 1920x1080 60p, 28Mbps (sensor output is 60fps)/[Full HD] 1920x1080 60i, 17Mbps (sensor output is 60fps)/[Full HD] 1920x1080 60i, 24Mbps (sensor output is 30fps)/[Full HD] 1920x1080 24p, 24Mbps (sensor output is 24fps)
		AVCHD*3:PAL area	[Full HD] 1920x1080 50p, 28Mbps (sensor output is 50fps)/[Full HD] 1920x1080 50i, 17Mbps (sensor output is 50fps)/[Full HD] 1920x1080 50i, 24Mbps (sensor output is 25fps)/[Full HD] 1920x1080 24p, 24Mbps (sensor output is 24fps)
	Continuous recordable time (Motion picture)		AVCHD [FHD/60i, FHD/50i]: Approx. 80 min with H-FS12032/AVCHD [FHD/60i, FHD/50i]: Approx. 80 min with H-PS14042/AVCHD [FHD/60i, FHD/50i]: Approx. 80 min with H-FS35100
	Actual recordable time (Motion picture)		AVCHD [FHD/60i, FHD/50i]: Approx. 40 min with H-FS12032/AVCHD [FHD/60i, FHD/50i]: Approx. 40 min with H-PS14042/AVCHD [FHD/60i, FHD/50i]: Approx. 40 min with H-FS35100
WiFi FUNCTION		WiFi	IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (1-11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode
		NFC	No
		QR Code Connection	Yes
		Password-less connection	Yes (ON / OFF selectable)
FOCUS		Type	Contrast AF system
		Focus mode	AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF
		AF mode	Face/Eye Detection / Tracking / 23-Area / 1-Area / Pinpoint/(Full area touch is available)

	AF detective range	EV -4 - 18 (ISO100 equivalent)
	AF assist lamp	Yes
	AF lock	Set the Fn button in custom menu to AF lock
	Others	One Shot AF, Shutter AF, Half Press Release, Quick AF, Continuous AF (during motion picture recording), AF+MF, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Shutter
EXPOSURE CONTROL	Light metering system	1728-zone multi-pattern sensing system
	Light metering mode	Multiple / Center Weighted / Spot
	Metering range	EV 0 - 18 (F2.0 lens, ISO100 equivalent)
	Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual,
	ISO sensitivity (Standard Output Sensitivity)	Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)/(Up to ISO3200 in motion picture recording)
	Exposure compensation	1/3 EV step ±5EV (±3EV for motion picture)
	AE lock	Set the Fn button in custom menu to AE lock
	AE bracket	3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. ±3 EV, single/burst
WHITE BALANCE	White balance	Auto / Daylight / Cloudy / Shade / Incandescent / Flash / White Set 1, 2 / Color temperature setting
	White balance adjustment	Blue/Amber bias, Magenta/Green bias
	Color temperature setting	2500-10000K in 100K
	White balance bracket	3 exposures in blue/amber axis or in magenta/green axis
SHUTTER	Type	Electronically-controll focal-plane shutter / Electronic shutter
	Shutter speed	Still image: Time (Max. 60 second), 1/16,000 - 60/Motion picture: 1/16,000 - 1/25

	Self timer	10sec, 3 images / 2sec / 10sec
SCENE GUIDE	Still image	Portrait (mode dial) / Kids (mode dial) / Scenery (mode dial) / Silky Skin / Backlit Softness / Relaxing Tone / 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
	Motion picture	Portrait (mode dial) / Kids (mode dial) / Scenery (mode dial) / Silky Skin / Backlit Softness / Relaxing Tone / Bright Blue Sky / Romantic Sunset Glow / Vivid Sunset Glow / Clear Nightscape / Cool Night Sky / Warm Glowing Nightscape / Artistic Nightscape / Handheld Night Shot / Clear Night Portrait / Appetizing Food / Cute Dessert / Freeze Animal Motion / Clear Sports Shot / Monochrome
PANORAMA SHOT	Panorama shot	Yes
BURST SHOOTING	Burst speed	Mechanical shutter: H: 5.8 frames/sec (with AFS), 5 frames/sec (with AFC, in 1-area-focusing AF mode), M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)/Electronic shutter: SH: 40 frames/sec, H: 10 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)
	Number of recordable images	7 images (When there are RAW files with the particular speed.)/Unlimited consecutive shooting (Except for the SH mode. When there are no RAW files. Depending on the capacity of the memory card.)/39 images (SH mode. When there are no RAW files.)/(depending on memory card size, battery power, picture size, and compression)
FLASH	Flash type	TTL Built-in-Flash, GN5.6 equivalent (ISO 200・m), GN4.0 equivalent (ISO 100・m), Built-in Pop-up
	Flash Mode	Auto*, Auto/Red-eye Reduction*, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off * For iA, iA+ only.
	Synchronization speed	Less than 1/50 second
	Flash output adjustment	1/3EV step ±2EV
	Flash synchronization	1st. Curtain Sync, 2nd Curtain Sync.
REAR MONITOR	Type	TFT LCD monitor with static touch control, Tiltable monitor

	Monitor size	3-inch / 3:2 aspect / Wide viewing angle
	Pixels	Approx. 1040k dots
	Filed of view	Approx. 100%
	Monitor adjustment	Brightness (13 levels), Contrast (13 levels), Saturation (13 levels), Red-Green (21 levels), Blue-Yellow (21 levels)
LIVE VIEW	Digital zoom	2x, 4x
	Extra Tele Conversion	Still image: Max. 2x/Motion picture: 2.4x (FHD), 3.6x (HD), 4.8x (VGA)
	Other functions	Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Highlight display (Still image / motion picture), Zebra pattern (Still image / motion picture)
DIRECTION DETECTION FUNCTION	Direction Detection Function	Yes
SELF SHOT	Self Shot Mode	Yes
	Shutter	Shutter Button, Touch, Face Shutter, Buddy Shutter
	Effect	Soft Skin: OFF / Low / Medium / High, Defocusing: OFF / ON, Sliming Mode: OFF / Low / High
FUNCTION BUTTON	Fn1, Fn2, Fn3, Fn4, Fn5, Fn6	Wi-Fi / AF/AE Lock / AF-ON / Preview / One Push AE / Touch AE / Level Gauge / Zoom Control / Cursor Button Lock / Photo Style / Filter Select / Aspect Ratio / Picture Size / Quality / Sensitivity / Metering Mode / Focus Mode / i.Dynamic / i.Resolution / HDR / Shutter Type / Flash Mode / Flash Adjust / Ex. Tele Conv. / Digital Zoom / Stabilizer / Snap Movie / Motion Pic. Set / Picture Mode / Silent Mode / Peaking / Histogram / Guide Line / Zebra Pattern / Monochrome Live View / Rec Area / Step Zoom / Zoom Speed / Touch Panel / Restore to Default
PHOTO STYLE	Still image and motion picture	Standard / Vivid / Natural / Monochrome / Scenery / Portrait / Custom
CREATIVE CONTROL	Still image	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

	Motion picture	Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome / Dynamic Monochrome / Impressive Art / High Dynamic / Cross Process / Toy Effect / Toy Pop / Bleach Bypass / Miniature Effect / Fantasy / One Point Color
MOTION PICTURE FUNCTION	Flicker reduction	[1/50] / [1/60] / [1/100] / [1/120] / OFF
PLAYBACK	Playback function	Normal playback, 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. 16x), Slideshow (All / Picture Only / Video Only / 3D / Category Selection / Favorite, duration & effect is selectable), Playback Mode (Normal / Picture / Video / 3D Play / Category / Favorite), Location Logging, Clear Retouch, Title Edit, Text Stamp, Video Divide, Time Lapse Video, Stop Motion Video, Resize, Cropping, Rotate, Rotation Display, Favorite, DPOF Print Set, Protect, Face Recognition Edit, Picture Sort, Delete Comfirmation
IMAGE PROTECTION / ERASE	Protection	Single / Multi, Cancel
	Erase	Single / Multi / All / Except Favorite
PRINT	Direct Print	PictBridge compatible
INTERFACE	USB	USB 2.0 High Speed Multi
	HDMI	microHDMI TypeD / VIERA Link/Video: Auto / 1080p / 1080i / 720p / 480p (576p in PAL system)/Audio: Stereo
	Audio video output	Monaural Type, NTSC/PAL, NTSC only for North America/*Check the website of the Panasonic sales company in your country or region for details on the products that are available in your market.
	Microphone	Stereo, Wind-cut: OFF / Low / Standard / High / AUTO
	Speaker	Monaural
LANGUAGE	OSD language	Japanese, English, German, French, Italian, Spanish
POWER	Battery	Li-ion Battery Pack (7.2V, 680mAh, 4.9Wh) (Included)/Battery Charger
	Battery life (CIPA standard)	Approx. 230 images with H-FS12032/Approx. 210 images with H-PS14042/Approx. 230 images with H-FS35100
DIMENSIONS / WEIGHT	Dimensions (W x H x D)	106.5 x 64.6 x 33.3 mm / 4.2 x 2.55 x 1.32 inch (excluding protrusions)
	Weight	Approx. 266g / 0.59 lb (SD card, Battery, Body)/Approx. 236g / 0.53

		lb (Body only)/Approx. 336g / 0.74 lb (SD card, Battery, H-FS12032 lens included)/Approx. 361g / 0.80 lb (SD card, Battery, H-PS14042 lens included)/Approx. 401g / 0.88 lb (SD card, Battery, H-FS35100 lens included)/Approx. 471g / 1.04 lb (SD card, Battery, H-FS12032 + H-FS35100 lenses included)
OPERATING ENVIRONMENT	Operating temperature	0℃ to 40℃ (32°F to 104°F)
	Operating humidity	10%RH to 80%RH
STANDARD ACCESSORIES	Software	PHOTOfunSTUDIO 9.6 PE (Windows XP / Vista / 7 / 8)/SILKYPIX® Developer Studio 4.2 SE (Windows XP / Vista / 7 / 8, Mac OS X v10.5 / v10.6 / v10.7 / v10.8)/LoiLoScope (trial version) (Windows XP / Vista / 7 / 8)
	Standard accessories	DMC-GF7K Kit/Battery Pack, Battery Charger, USB Connection Cable, Shoulder Strap, DVD-ROM, AC Cable*, Lens Cap/* Depends on the country or region.
INTERCHANGEABLE LENS-1	Lens Name		LUMIX G VARIO 12-32mm / F3.5-5.6 ASPH. / MEGA O.I.S.
	Lens Construction		8 elements in 7 groups (3 aspherical lenses, 1 ED lens)
	Nano Surface Coating		-
	Mount		Micro Four Thirds mount
	Optical Image Stabilizer		Yes (MEGA O.I.S.)
	Focal Length		f=12-32mm (35mm camera equivalent 24-64mm)
	Aperture Type		7 diaphragm blades / Circular aperture diaphragm
	Maximum Aperture		F3.5(Wide) - F5.6(Tele)
	Minimum Aperture		F22
	Closest Focusing Distance		0.20m/0.66ft (at focal lenghts 12-20mm) / 0.30m/0.98ft (at focal lenghts 21-32mm)
	Maximum magnification		Approx. 0.13x / 0.26x (35mm camera equivalent)
	Diagonal Angle of View		84°(Wide) to 37°(TELE)
	General	Filter Size	37mm / 1.5in

		Max. Diameter	φ55.5mm / 2.2in
		Overall Length	Approx. 24mm / 0.94in (from the tip of the lens to the base side of the lens mount)
		Weight [g]	Approx. 70g (excluding lens cap, lens rear cap)
		Weight [oz]	Approx. 2.47oz (excluding lens cap, lens rear cap)
NOTE			*1 Use a card with SD Speed Class with ""Class4"" or higher.
NOTE			*2 Motion picture can be recorded continuously for up to 29 min 59 sec or up to 4 GB.
NOTE			*3 Motion picture can be recorded continuously for up to 29 min 59 sec (in Europe and some Asian areas.)

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