Panasonic
ideas for life

DMC-GH3
Compact System Camera

Superb Image Quality with Digital Live MOS Sensor and the Venus Engine

High Quality Full HD Video Recording Featuring Versatile Recording Format

Intuitive Design and the Rugged Body Featuring Double OLED display

The Light Speed AF and the Advanced Focusing System

Full Expandability for Professional Level Flexibility

Various Creative Options for Photo and Video

LUMIX G Compact System Camera GH3 - The All New Highly Evolved Digital Single Lens Mirrorless Camera with Breathtaking Quality in Photo & Video

eShop Price*: **2,492.99 GBP**
*Panasonic UK Online Shop (eShop) Price

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	17.20 Megapixels
Camera effective pixels	16.05 Megapixels
Colour 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 standard)
	Motion Image: AVCHD Ver2.0 compliant (AVCHD Progressive), MPEG4-AVC(H.264). (MOV, MP4)
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, Adobe RGB

H-HS35100E

H-F008E

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File size(Pixels)

Still Image	[4:3] 4608x3456(L) / 3264x2448(M) / 2336x1752(S) / 1824x1368 (with 3D lens in Micro Four Thirds System standard)
	[3:2] 4608x3072(L) / 3264x2176(M) / 2336x1560(S) / 1824x1216 (with 3D lens in Micro Four Thirds System standard)
	[16:9] 4608x2592(L) / 3264x1840(M) / 1920x1080(S) / 1824x1024 (with 3D lens in Micro Four Thirds System standard)
	[1:1] 3456x3456(L) / 2448x2448(M) / 1744x1744(S) / 1712x1712 (with 3D lens in Micro Four Thirds System standard)
Motion Image (MOV*1 : NTSC)	[Full HD]1920×1080, 30p (sensor output is 30p, 72Mbps(ALL-Intra))
	[Full HD]1920×1080, 24p (sensor output is 24p, 72Mbps(ALL-Intra))
	[HD]1280x720, 60p (sensor output is 60p, 72Mbps(ALL-Intra))
	[Full HD]1920×1080, 60p (sensor output is 60p, 50Mbps(IPB))
	[Full HD]1920×1080, 30p (sensor output is 30p, 50Mbps(IPB))
	[Full HD]1920×1080, 24p (sensor output is 24p, 50Mbps(IPB))
Motion Image (MOV*1 : PAL)	[Full HD]1920×1080, 25p (sensor output is 25p, 72Mbps(ALL-Intra))*3
	[Full HD]1920×1080, 24p (sensor output is 24p, 72Mbps(ALL-Intra))*3
	[HD]1280x720, 50p (sensor output is 50p, 72Mbps(ALL-Intra))*3
	[Full HD]1920×1080, 50p (sensor output is 50p, 50Mbps(IPB))*3
	[Full HD]1920×1080, 25p (sensor output is 25p, 50Mbps(IPB))*3
	[Full HD]1920×1080, 24p (sensor output is 24p, 50Mbps(IPB))*3
Motion Image (MP4*2 : NTSC)	[Full HD]1920×1080, 30fps (sensor output is 30p, 20Mbps)
	[HD]1280x720, 30fps (sensor output is 30p, 10Mbps)
	[VGA] 640x480, 30fps (sensor output is 30p, 4Mbps)
Motion Image (MP4*2 : PAL)	[Full HD]1920×1080, 25fps (sensor output is 25p, 20Mbps)*3
	[HD]1280x720, 25fps (sensor output is 25p, 10Mbps)*3
	[VGA] 640x480, 25fps (sensor output is 25p, 4Mbps) *3
Motion Image (AVCHD Progressive*2:NTSC)	[Full HD]1920×1080, 60p (sensor output is 60p, 28Mbps)
Motion Image (AVCHD*2 : NTSC)	[Full HD] 1920×1080, 24p (sensor output is 24p, 24Mbps)
	[Full HD] 1920×1080, 60i (sensor output is 30p, 24Mbps)
	[Full HD] 1920×1080, 60i (sensor output is 60p, 17Mbps)
Motion Image (AVCHD Progressive*2:PAL)	[Full HD]1920×1080, 50p (sensor output is 50p, 28Mbps)*3
Motion Image (AVCHD*2 : PAL)	[Full HD] 1920×1080, 24p (sensor output is 24p, 24Mbps)*3
	[Full HD] 1920×1080, 50i (sensor output is 25p, 24Mbps)*3
	[Full HD] 1920×1080, 50i (sensor output is 50p, 17Mbps)*3
Continuous recordable time (Motion images)	AVCHD with picture quality set to Approx. 240 min with H-HS12035 / Approx. 220 min with H-VS014140
Actual recordable time (Motion images)	AVCHD with picture quality set to Approx. 120 min with H-HS12035 / Approx. 110 min with H-VS014140
Flicker reduction (Motion images)	[1/50] / [1/60] / [1/100] / [1/120] / OFF
Time Code (Motion images) (except MP4)	ON/OFF, Count Up : Rec Run/Free Run selectable, Time Code Mode : Drop frame/Non-drop frame selectable(NTSC only)
WiFi	IEEE 802.11b/g/n, 2412MHz - 2462MHz (11ch), Wi-Fi / WPA / WPA2, Infrastructure mode

VIEWFINDER

Type	OLED Live View Finder (1,744K dots equivalent)
Field of view	Approx. 100%

H-FS045200E

H-FS100300E

H-FS014045E

H-H020E

H-H014E

H-FT012E

H-ES045E

H-VS014140E

H-F007014E

Magnification	Approx. 1.34x / 0.67x (35mm camera equivalent)
Eye point	Approx. 21 mm from eyepiece lens
Diopter adjustment	-4.0~+4.0(dpt)
Auto eye sensor	Yes

FOCUS

Type	Contrast AF system
Focus mode	AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF
AF assist lamp	Yes (ON / OFF)
AF lock	Yes (AF/AE LOCK button)
Others	Quick AF, Continuous AF (during motion image recording), AF+MF, Eye Sensor AF, Touch Pad AF, Touch AF, Touch shutter, Touch MF Assist, Shutter AF, Half Press Release
AF mode	Face detection / AF Tracking / 23-area-focusing / 1-area-focusing / Pin-point (Full area touch is available)

EXPOSURE CONTROL

Light metering system	144-zone multi-pattern sensing system
Light metering mode	Intelligent Multiple / Center Weighted / Spot
Metering range	EV0-18 (F2.0 lens, ISO100 equivalent)
Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
ISO sensitivity (Standard Output Sensitivity)	Auto / Intelligent ISO / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 (Changeable to 1/3, 1EV step) (Extended ISO125-less under 200, ISO more over 12800-25600 Available) (Up to ISO3200 in Auto)
Exposure compensation	1/3 EV Step ±5EV (±3EV for motion image)
AE lock	AF/AE LOCK button
AE bracket	3,5,7 frame in 1/3, 2/3 or 1 EV Step, single/burst

WHITE BALANCE

White balance	Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / 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

Remote control	Remote control with Bulb function by DMW-RSL1 (Optional)
Type	Focal-plane shutter
Shutter speed	Still Images: 1/4000-60 and Bulb (Approx. 60 minutes), Motion image: 1/16,000 ~ 1/30 (NTSC), 1/16,000 ~ 1/25 (PAL)
Self timer	10sec, 3 images after 10sec, 2sec

H-FS45150E-K

H-FS45150E-S

H-FS014042E

H-PS14042E-K

H-PS45175E-K

H-HS12035E

DMW-MA1E

DMW-MA2ME

DMW-MA3RE

BURST SHOOTING

Burst speed	SH: 20 frames/sec, H: 6 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)
Number of recordable images	18 images (when there are RAW files with the particular speed)
	Unlimited consecutive shooting (when there are no RAW files)
	(depending on memory card size, battery power, picture size, and compression)

SCENE GUIDE

Still image	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 / Clear Night Portrait / Soft Image of a Flower / Appetizing Food / Cute Dessert / Freeze Animal Motion / Clear Sports Shot / Monochrome
Motion Picture	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 / Clear Nightscape / Cool Night Sky /
	Warm Glowing Nightscape / Artistic Nightscape / Clear Night Portrait / Appetizing Food / Cute Dessert / Freeze Animal Motion / Clear Sports Shot / Monochrome

FLASH

Flash Mode	Auto, Auto/Red-eye Reduction (when iA, iA+), Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction
Synchronization speed	Less than 1/160 second
Flash synchronization	1st. Curtain Sync, 2nd Curtain Sync.
Flash output adjustment	1/3EV Step ±3EV
Synchronization for flash dimming and exposure compensation	Yes (ON/OFF)
Flash sync socket	Yes

MONITOR

Type	OLED Monitor with static touch control
Monitor size	Free-angle 3.0inch / 3:2 Aspect / Wide viewing angle
Pixels	614K dots
Filed of view	Approx. 100%
Monitor adjustment	Brightness (7 levels), Color (7 levels), Red-Green(11 levels), Blue-Yellow(11 levels)

LIVE VIEW

Digital zoom	2x, 4x
Extra Tele Conversion	Still image: Max.2x (Not effective with L size recording. Magnification ratio depends on the recording pixels and aspect ratio.)
	Motion image: 2.4x, 3.6x, 4.8x (Magnification ratio depends on the recording quality and aspect ratio.)
Other functions	Guide Lines (3 patterns)
	Real-time Histogram

DMW-FL500E

DMW-FL360LE

DMW-FL360E

DMW-FL220E

DMW-RSL1E

DMW-BLF19E

DMW-BGGH3E

DMW-LMCH62E

DMW-LND62E

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LEVEL GAUGE

Level Gauge	Yes

VERTICAL SHOOTING DETECTION

VERTICAL SHOOTING DETECTI-ON	Yes

PHOTO STYLE

Still image and Video	Standard / Vivid / Natural / Monochrome / Scenery / Portrait / Custom

CREATIVE CONTROL

Motion Picture	Expressive / Retro / High Key / Low Key / Sepia / Dynamic Monochrome / Impressive Art / High Dynamic / Cross Process / Toy Effect / Miniature Effect / One Point Color
Still image	Expressive / Retro / High Key / Low Key / Sepia / Dynamic Monochrome / Impressive Art / High Dynamic / Cross Process / Toy Effect / Miniature Effect / Soft Focus / Star Filter / One Point Color

CREATIVE VIDEO MODE

Exposure Mode	Program AE/ Aperture-Priority / Sutter-Priority / Manual Exposure
Slow and fast motion	40% / 48% / 80% (Records 0.4 times, 0.48 times, 0.8 times slower)
	160% / 200% / 300% (Records 1.6 times, 2.0 times, 3.0 times faster)
	(1920x1080, 24p, 24Mbps in MOV, MP4, AVCHD)

PLAYBACK

Playback mode	Normal playback, 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max.16x), Slide Show (All / Picture Only / Video Only / 3D / Category Selection / Favorite, duration & effect is selectable),
	Playback Mode (Normal Play / Picture Only / Video Play / 3D Play / Category Play / Favorite Play), Title Edit, Text Stamp, Video Divide, Resize, Cropping, Rotate, Favorite, Print Set, Protect, Face Recognition Edit

IMAGE PROTECTION / ERASE

Protection	Single / Multi or Cancel
Erase	Single / Multi / All / Except Favorite

PRINT

Direct Print	PictBridge compatible

INTERFACE

USB	USB 2.0 High Speed
HDMI	miniHDMI TypeC
	Video: Auto / 1080p / 1080i / 720p / 480p (576p in PAL system)
	Audio: Dolby® Digital
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

DMW-LPL62E

DMW-DCC12E

DMW-MS2E

Speaker	Monaural
Remote input	φ2.5mm for Remote
External microphone input	φ3.5mm for External microphone
Headphone output	φ3.5mm for Headphone

LANGUAGE

OSD language	Japanese, English, German, French, Italian, Spanish(English)

POWER

Battery	Li-ion Battery Pack (7.2V, 1860mAh) (Included)
Battery life (CIPA standard)	Approx. 540 images with H-HS12035 Approx. 500 images with H-VS014140

Dimensions/ Weight

Dimensions (W x H x D)	132.9 x 93.4 x 82.0mm / 5.23 x 3.68 x 3.23 in (excluding protrusions)
Weight	Approx. 550g/ 19.40 oz (SD card, Battery, Body) Approx. 470g / 16.58 oz (Body only) Approx. 855g / 30.16 oz (SD card, Battery, H-HS12035 lens included)

OPERATING ENVIRONMENT

Operating temperature	0 to 40 (32°F to 104°F)
Operating humidity	10% to 80%

STANDARD ACCESSORIES

Software	PHOTOfunSTUDIO 8.5 PE SILKYPIX® Developer Studio 3.1 SE LoiloScope (trial version)
Standard accessories	Body, Body Cap, LUMIX G X VARIO 12-35mm / F2.8 ASPH. / POWER O.I.S. (H-HS12035), Lens Cap, Lens Hood, Lens Rear Cap, Battery Charger (AC Cable included), Battery Pack, USB Connection Cable, Shoulder Strap, CD-ROM

INTERCHANGEABLE LENS-1

Maximum Aperture	F2.8
Lens Name	LUMIX G X VARIO 12-35mm / F2.8 ASPH. / POWER O.I.S.
Lens Construction	14 elements in 9 groups (4 aspherical lenses , 1 UED lens, 1 UHR lens)
Nano Surface Coating	Yes
Mount	Micro Four Thirds mount

Optical Image Stabilizer	Yes (POWER O.I.S.)
Focal Length	f=12-35mm (35mm camera equivalent 24-70mm)
Aperture Type	7 diaphragm blades / Circular aperture diaphragm
Minimum Aperture	F22
Closest Focusing Distance	0.25m / 0.82ft
Maximum magnification	Approx. 0.17x / 0.34x (35mm camera equivalent)
Diagonal Angle of View	84°(Wide) to 34°(TELE)

General

Filter Size	φ58mm / 2.3in
Max. Diameter	φ67.6mm / 2.7in
Overall Length	Approx. 73.8mm / 2.9in (from the tip of the lens to the base side of the lens mount)
Weight [g]	Approx. 305g (excluding lens cap and lens rear cap)
Weight [oz]	Approx. 10.8oz (excluding lens cap and lens rear cap)

OPTIONAL ACCESSORIES

External Flash (optional)	DMW-FL360L (optional), Wireless Channel: 1ch/2ch/3ch/4ch
External Microphone (optional)	DMW-MS2 (optional), Gun/Stereo selectable
Battery Grip (optional)	DMW-BGGH3 (optional)
NOTE	*1 Use a card with SD Speed Class with "Class10"
	*2 Use a card with SD Speed Class with "Class4" or higher
	*3 Motion images can be recorded continuously for up to 29 min 59 sec in European PAL areas.