

# 2009 LUMIX® DMC-GH1 Digital Camera



**Full HD**  
Movie recording in ACVHD



**AF Tracking**  
Continuous Auto Focus



**28 to 280mm Lens**

- LUMIX G VARIO HD 14-140mm lens
- Creative Movie Mode
- Advanced iA Mode
- Full-time Live View
- Live View Finder
- 12.1 Megapixel Live MOS Sensor
- Venus Engine HD

**LUMIX®**  
DIGITAL CAMERAS

**Panasonic**  
ideas for life

# 2009 LUMIX<sup>®</sup> DMC-GH1 Digital Camera Specifications

		DMC-GH1
<b>TYPE</b>	Type Recording media Image sensor size Lens mount	Digital interchangeable lens system camera SD memory card, SDHC memory card 17.3 x 13.0 mm (in 4:3 aspect ratio) Micro Four Thirds mount
<b>IMAGE SENSOR</b>	Type Total pixels Camera effective pixels Color filter Dust reduction system	Live MOS Sensor 14.0 Megapixels 12.1 Megapixels Primary color filter Supersonic wave filter
<b>RECORDING SYSTEM</b>	Recording file format	Still Image: JPEG/DCF, Exif 2.21, RAW, DPOF compatible Still Image with Audio: JPEG/DCF, Exif 2.21 + Quicktime Motion Image: AVCHD / QuickTime Motion JPEG
	Aspect ratio Image quality Color space	4:3, 3:2, 16:9, 1:1 (Multi-aspect recording except 1:1) RAW, RAW+Fine, RAW+Standard, Fine, Standard sRGB, Adobe RGB
<b>FILE SIZE (PIXELS)</b>	Still Image	[4:3] 4000 x 3000(L), 2816 x 2112(M), 2048 x 1536(S) [3:2] 4128 x 2752(L), 2928 x 1952(M), 2064 x 1376(S) [16:9] 4352 x 2448(L), 3072 x 1728(M), 1920 x 1080(S) [1:1] 2992 x 2992(L), 2112 x 2112(M), 1504 x 1504(S)
		Motion Image
	Motion JPEG	[Full HD] 1920 x 1080, 60i (sensor output is 24fps)(FHD: 17Mbps) [HD] 1280 x 720, 60p (SH: 17Mbps, H: 13Mbps, L: 9Mbps) [Full HD] 1920 x 1080, 50i (sensor output is 25fps)(FHD: 17Mbps) [HD] 1280 x 720, 50p (SH: 17Mbps, H: 13Mbps, L: 9Mbps)
		AVCHD NTSC PAL
<b>VIEWFINDER</b>	Type Field of view Magnification Eye point Diopter adjustment	Live View Finder (1,440,000 dots equivalent) Approx. 100% Approx. 1.4x / 0.7x (35mm camera equivalent) with 50mm lens at infinity, -1.0 m-1 Approx. 17.5mm from eyepiece lens -4.0 ~ +4.0 m-1
<b>FOCUS</b>	Type Focus mode AF mode AF detective range AF assist lamp AF lock Others	Contrast AF system AFS/AFc/MF Face detection/ AF Tracking / Z3-area-focusing / 1-area-focusing EV 0-18 (F3.5 lens, ISO 100) YES AF/AE LOCK button or Shutter button halfway pressed in AFs mode Pre AF (Quick AF/Continuous AF), AF+MF, MF Assist (6x, 10x)
<b>EXPOSURE CONTROL</b>	Light metering system Light metering mode Metering range Exposure mode ISO sensitivity(Standard Output Sensitivity) Exposure compensation AE lock AE bracket	144-zone multi-pattern sensing system Intelligent Multiple / Center Weighted / Spot EV 0-18 (F2.0 lens, ISO 100) Program AE, Aperture Priority AE, Shutter Priority AE, Manual Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / Intelligent ISO 1/3EV Step ±3EV AF/AE LOCK button or Shutter button halfway pressed 3.5,7 frame, in 1/3 or 2/3 EV Step, ±2 EV
<b>WHITE BALANCE</b>	White Balance White balance adjustment Color temperature setting White balance bracket	Auto / Daylight / Cloudy / Shade / Halogen / Flash / White Set 1,2 / Color temperature setting Blue/amber bias, Magenta/green bias 2500-10000K in 100K 3 exposures in blue/amber axis or in magenta/green axis
<b>SHUTTER</b>	Type Shutter speed Self timer Remote control	Focal-plane shutter Still Images: 1/4000 ~ 60 and Bulb (up to approx. 4minutes) 2sec / 10sec / 10sec, 3 images Remote control with bulb function by DMW-RSL1 (Optional)
<b>SCENE MODE</b>	Still Image SCN mode Movie SCN mode	Portrait (Normal/Soft Skin/Outdoor/Indoor/Creative) / Scenery (Normal/Nature/Architecture/Creative) / Sports (Normal/Outdoor/Indoor/Creative) / Close-up (Flower/Food/Objects/Creative) / Night Portrait (Night Portrait/Night Scenery/Illuminations/Creative) / SCN (Sunset/Party/Baby 1,2/Pet Portrait / Scenery / Sports / Low Light / Close-up/Flower/Food/Objects/Macro) / SCN (Sunset/Party/Portrait) (Activated by selecting Still Image SCN mode then pressing Movie Button. Still Image SCN modes without corresponding Movie SCN mode is recorded in Normal mode.)
<b>BURST SHOOTING</b>	Burst speed Number of recordable images	3 frames/sec (High speed) or 2 frames/sec (Low speed) 7 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files)
<b>BUILT-IN-FLASH</b>	Type Flash mode Synchronization speed Flash output adjustment Flash synchronization Hot shoe	TTL Built-in-Flash, GN11 equivalent (ISO 100 m), Built-in Pop-up Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off Less than 1/160 second 1/3EV Step ±2EV 1st. Curtain Sync, 2nd Curtain Sync.
<b>LCD MONITOR</b>	Type Monitor size Pixels Field of view Brightness adjustment Digital zoom	Low temperature Polycrystalline TFT LCD Free-angle 3.0inch / 3:2 Aspect / Wide viewing angle 460K dots Approx. 100% Auto, Power LCD, Manual (7 levels)
<b>LIVE VIEW</b>	Extra optical zoom Other functions	Max.2x (Not effective with L size recording. Magnification ratio depends on the recording pixels and aspect ratio.) Guide Lines (3 patterns) Real-time Histogram
<b>FILM MODE</b>	Color Black and white Others	Standard / Dynamic / Nature / Smooth / Nostalgic / Vibrant Standard / Dynamic / Smooth My Film1 / My Film2 / Multi Film
<b>PLAYBACK</b>	Playback mode	Normal playback, 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (16x Max.), Slideshow (duration & effect is selectable), Playback Mode (Normal/Picture/AVCHD/Motion JPEG/Face Recognition/Favorite), Title Edit, Text Stamp, Resize, Trimming, Aspect Conversion, Rotate, Rotate Display, Print Set, Protect, Audio Dubbing
<b>IMAGE PROTECTION/ERASE</b>	Protection Erase	Single / Multi or Cancel Single / Multi / All / Except Favorite
<b>PRINT</b>	Direct print USB	PictBridge compatible Print size, Layout, Date setting is selectable USB 2.0 High Speed
<b>INTERFACE</b>	HDMI Audio video output Remote/External microphone input Microphone Speaker	miniHDMI TypeC (1.3b corresponding) Video: Auto / 1080i / 720p / 480p (576p in PAL system) Audio: Dolby® Digital Stereo Creator* *Stereo 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. 2.5mm, stereo mini jack Stereo, Wind-cut: Off / Low / Standard / High YES
<b>LANGUAGE</b>	OSD language	English, German, French, Italian, Spanish, Polish, Czech, Hungarian, Russian, Chinese (Traditional), Chinese (Simplified), Dutch, Thai, Korean, Turkish, Portuguese, Arabic, Persian, Japanese, Swedish, Danish, Finnish
<b>POWER</b>	Battery Battery life	ID-Security Li-ion Battery Pack (7.2V, 1250mAh) (Included) Battery Charger/AC Adapter (input: 110-240V AC) Still Images CIPA Standard : Approx. 300 images(LCD) LVF : Approx. 320 images with LUMIX G VARIO HD 14-140mm/F4.0-5.8 ASPH./MEGA O.I.S. Motion Images Approx. 120 minutes (LCD) Recording time capacity in AVCHD SH mode
<b>DIMENSIONS/WEIGHT</b>	Dimensions (W x H x D) Weight	124 x 89.6 x 45.2mm / 4.88 x 3.29 x 1.78 in Approx. 385g / 13.58 oz Body only
<b>OPERATING ENVIRONMENT</b>	Operating temperature Operating humidity	0 to 40 (32°F to 104°F) 10% to 80
<b>STANDARD ACCESSORIES</b>	Software Standard accessories	PHOTOtunSTUDIO 3.1 HD Edition SILKYPIX® Developer Studio 3.0 SE USB Driver AV Cable, USB Connection Cable, AC Cable, DC Cable, Shoulder Strap, CD-ROM