

Camera

Item	Details
Power supply	Using AC adapter: DC 5.2 V Using battery pack: DC 3.6 V
Power consumption	GZ-HM330: 2.7 W (when "LIGHT" is set to "OFF" and "LCD BACKLIGHT" is set to "STANDARD") GZ-HM310/GZ-HM300: 2.6 W (when "LCD BACKLIGHT" is set to "STANDARD")
Dimensions (mm)	52 x 62 x 110 (W x H x D: excluding grip belt)
Mass	GZ-HM330 Approx. 220 g (camera only) Approx. 260 g (including supplied battery pack) GZ-HM310/GZ-HM300 Approx. 215 g (camera only) Approx. 255 g (including supplied battery pack)
Operating environment	Allowable operating temperature: 0°C to 40°C Allowable storage temperature: -20°C to 50°C Allowable operating humidity: 35 % to 80 %
Image pickup device	GZ-HM330 1/4" 3,320,000 pixels (progressive CMOS) GZ-HM310/GZ-HM300 1/5.8" 1,370,000 pixels (progressive CMOS)
Recording area (Video)	GZ-HM330 (16:9) 1,160,000 to 1,380,000 pixels (optical zoom) GZ-HM310/GZ-HM300 (16:9) 750,000 to 1,090,000 pixels (optical zoom)
Recording area (Still Image)	GZ-HM330 (4:3) 870,000 to 1,040,000 pixels (16:9) 1,160,000 to 1,380,000 pixels GZ-HM310/GZ-HM300 (4:3) 560,000 to 820,000 pixels (16:9) 750,000 to 1,090,000 pixels
Lens	GZ-HM330 F1.8-4.7, f= 3.0mm to 90.0mm (35mm conversion: 43.7mm to 1311mm) GZ-HM310/GZ-HM300 F1.8-3.5, f= 3.0mm to 60.0mm (35mm conversion: 46.4mm to 928mm)
Zoom (during video recording)	GZ-HM330 Optical zoom: Up to 30x Digital zoom: Up to 200x GZ-HM310/GZ-HM300 Optical zoom: Up to 20x Digital zoom: Up to 200x
Zoom (during still image recording)	GZ-HM330 Optical zoom: Up to 30x GZ-HM310/GZ-HM300 Optical zoom: Up to 20x
LCD monitor	2.7" wide, 12.3 megapixels, polysilicon color LCD
Recording media	GZ-HM330: Internal memory (8 GB) SD/SDHC card (commercially available)
Clock battery	Rechargeable battery

Connectors

Item	Details
HDMI	HDMI™ mini connector (V1.3 with x.v.Color™)
Component output	Y, Pb, Pr component output Y: 1.0 V (p-p), 75 Ω Pb/Pr: 0.7 V (p-p), 75 Ω
AV output	Video output: 1.0 V (p-p), 75 Ω Audio output: 300 mV (rms), 1 K Ω
USB	GZ-HM330 Mini USB type AB, USB 2.0 compliant GZ-HM310/GZ-HM300 Mini USB type B, USB 2.0 compliant

Video

Item	Details
Recording/ Playback format	AVCHD standard, Video: AVC/H.264, Audio: Dolby Digital (2ch)
Extension	.MTS
Signal system	PAL standard
Image quality (Video)	UXP 1920 x 1080 pixels Average Approximate 24 Mbps XP 1920 x 1080 pixels Average Approximate 17 Mbps SP 1920 x 1080 pixels Average Approximate 12 Mbps EP 1920 x 1080 pixels Average Approximate 5 Mbps
Sound quality (Audio)	48 kHz, 256 kbps

Still Image

Item	Details
Format	JPEG standard
Extension	.JPG
Image size	1920 x 1080 1440 x 1080 640 x 480
Quality	FINE / STANDARD

AC Adapter (AP-V30M)

Item	Details
Power supply	AC 110 V to 240 V, 50 Hz/60 Hz
Output	DC 5.2 V, 1.8 A
Allowable operating temperature	0°C to 40°C (10°C to 35°C during charging)
Dimensions (mm)	50 x 29 x 100 (W x H x D: excluding cord and AC plug)
Mass	Approx. 112 g

Battery Pack (BN-VG114E)

Item	Details
Power voltage	3.6 V
Capacity	1400 mAh
Dimensions (mm)	31 x 21.5 x 43 (W x H x D)
Mass	Approx. 40 g

- Memo:**
- Some features explained in this manual only apply to the specific model identified.
 - The specifications and appearance of this product are subject to changes for further improvement without prior notice.
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