



VIXIA

HF G21

Specifications

| Main Unit Specs | |
|--|--|
| Standard Definition or High Definition | High Definition |
| Power Supply (Rated) | 7.4V DC (Battery Pack), 8.4V DC (DC IN) |
| Television System | NTSC |
| Video Recording System | Compression: MPEG-4 AVC/H.264 File Format: AVCHD Ver 2.0 Compliant (AVCHD Progressive), MP4 |
| Audio Recording System | AVCHD: Linear PCM (2ch)* / Dolby Digital (2ch)** MP4: MPEG-2 AAC-LC (2ch) * 28 Mbps or 24 Mbps video recording modes only; 16-bit resolution. ** Dolby Digital (5.1ch) is provided when the 5.1-Channel Surround Microphone SM-V1 is used. |
| Image Sensor | 1/2.84-inch CMOS, RGB Primary Color Filter |
| Total Pixels | Approx. 3.09 megapixels (2208 x 1398) |
| Effective Pixels | Approx. 2.91 megapixels (2136 x 1362) |
| Lens | Zoom Ratio: 20x Optical / 400x Digital Focal Length: 3.67–73.4mm (35mm equivalent: 26.8–576mm with Standard IS/IS Off, 28.8–576mm with Dynamic IS) Zoom Speed: Variable speed / Constant speed (16 levels); Fast, Normal or Slow Max. F/Stop: f/1.8–2.8 |
| Focusing System | Hybrid AF (TTL-video signal detection system and external phase difference metering system), Normal AF (TTL-video signal selection system), Face Only AF, Manual Focus Hybrid AF Controls: Instant AF, Medium AF |
| Manual Exposure | Available |
| Exposure Control | Auto Mode: Smart Auto Manual Mode: P, Tv, Av, M (Manual Exposure), SCN (Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks) Cinema Mode: P, Tv, Av, M |
| Maximum Shutter Speed | 1/2000 sec. |
| Minimum Focusing Distance | 20mm (at wide end), 60cm (from lens front) across zooming range |
| White Balance | Auto, Preset (Daylight, Shade, Cloudy, Tungsten, Fluorescent H, Fluorescent), Color Temperature Settings (2,000–15,000K), Set (1/2) |
| Frame Rate | AVCHD: 60p, 60i, PF29.97, 24p MP4: 60p, 30p, 24p |
| Minimum Illumination | P Mode: Approx. 1.2 lux (shutter speed 1/30 sec., with auto slow shutter on) Low Light Mode: Approx. 0.1 lux (shutter speed 1/2 sec.) |
| Image Stabilization | Optical system (lens shift) + electronic stabilization Control Modes: Dynamic IS, Powered IS*, Macro IS, Tripod Mode IS Modes other than Intelligent IS: Standard IS, IS Off * During Intelligent IS (Auto Mode), Powered IS can be set to On or Off. |

| | |
|---|---|
| Filter Diameter | 58mm |
| Viewfinder | 0.24-inch TFT wide color LCD screen, approx. 1.56 million dots, 100% field of view |
| LCD Touch Panel | 3.0-inch LCD panel with AR surface treatment, approx. 460,000 dots, 100% field of view |
| Microphone | Stereo (using electret condenser microphone) |
| Recording Media | 2 SD/SDHC/SDXC memory card slots |
| USB Terminal | mini-B receptacle and Hi-Speed USB supported (output only) |
| Accessory Shoe | Cold shoe (front area), mini advanced shoe (back area)* * The Remote Control Adapter RA-V1 is not supported. The Video Flashlight VFL-2 supports only the video light function. |
| Video Terminal | 3.5mm diameter 4-pole mini-jack (video/audio output only) |
| HDMI Terminal | HDMI™ mini connector |
| Microphone Terminal | 3.5mm diameter stereo mini-jack, MIC/LINE switching possible |
| AV Mini Terminal/ Headphone Terminal | 3.5mm stereo mini-jack |
| Remote Control Terminal | 2.5mm stereo mini jack (input only) |
| Operating Temperature Range | For Performance: Approx. 0–40°C, 85% (relative humidity) For Operation: Approx. -5–45°C, 60% (relative humidity) |
| Dimensions | Approx. 4.3 x 3.3 x 7.2 in. / 109 x 84 x 182mm (excluding lens hood) Approx. 4.5 x 3.3 x 9.1 in. / 115 x 84 x 231mm (including lens hood) All dimensions exclude the grip belt. |
| Weight | Approx. 1.6 lbs. / 745g (body only) Approx. 1.9 lbs. / 880g (includes lens hood, Battery Pack BP-820 and 1 memory card) Grip belt included for all values. |

Recording Modes

| Recording Format | Bit Rate | Resolution | Frame Rate |
|------------------|----------------------|-------------|-------------------------|
| AVCHD | 28 Mbps (59.94P)*1,2 | 1920 x 1080 | 59.94P*3 |
| | 24 Mbps*1 | 1920 x 1080 | 59.94i/PF29.97/23.98P*3 |
| | 17 Mbps | 1920 x 1080 | 59.94i/PF29.97/23.98P*3 |
| | 5 Mbps | 1440 x 1080 | 59.94i/PF29.97/23.98P*3 |
| MP4 | 35 Mbps (59.94P)*2 | 1920 x 1080 | 59.94P |
| | 24 Mbps | 1920 x 1080 | 29.97P/23.98P*4 |
| | 17 Mbps | 1920 x 1080 | 29.97P/23.98P*4 |
| | 8 Mbps*2 | 1280 x 720 | 59.94P |
| | 4 Mbps | 1280 x 720 | 29.97P/23.98P*4 |
| | 3 Mbps | 640 x 360 | 29.97P/23.98P*4 |

*1 During audio recording, either linear PCM recording or standard recording (Dolby Digital) can be selected.

*2 Cannot be set in Cinema mode.

*3 In AUTO mode: 59.94i.

*4 In AUTO mode: 29.97P only.

Maximum Recording Time

| AVCHD | Recording Mode | | | |
|-----------------|----------------|----------------|----------------|----------------|
| Memory Capacity | 28 Mbps | 24 Mbps | 17 Mbps | 5 Mbps |
| 8 GB | 35 min. | 40 min. | 1 hr. | 3 hr. |
| 16 GB | 1 hr. 15 min. | 1 hr. 25 min. | 2 hr. 5 min. | 6 hr. 5 min. |
| 32 GB | 2 hr. 30 min. | 2 hr. 55 min. | 4 hr. 10 min. | 12 hr. 15 min. |
| 64 GB | 5 hr. 5 min. | 5 hr. 55 min. | 8 hr. 20 min. | 24 hr. 30 min. |
| 128 GB | 10 hr. 10 min. | 11 hr. 55 min. | 16 hr. 45 min. | 49 hr. |

| MP4 | Recording Mode | | | | | |
|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Memory Capacity | 35 Mbps | 24 Mbps | 17 Mbps | 8 Mbps | 4 Mbps | 3 Mbps |
| 8 GB | 30 min. | 40 min. | 1 hr. | 2 hr. 10 min. | 4 hr. 20 min. | 5 hr. 40 min. |
| 16 GB | 1 hr. | 1 hr. 25 min. | 2 hr. 5 min. | 4 hr. 20 min. | 8 hr. 40 min. | 11 hr. 25 min. |
| 32 GB | 2 hr. | 2 hr. 55 min. | 4 hr. 10 min. | 8 hr. 40 min. | 17 hr. 20 min. | 22 hr. 55 min. |
| 64 GB | 4 hr. | 5 hr. 55 min. | 8 hr. 20 min. | 17 hr. 20 min. | 34 hr. 45 min. | 45 hr. 55 min. |
| 128 GB | 8 hr. | 11 hr. 55 min. | 16 hr. 45 min. | 34 hr. 45 min. | 69 hr. 30 min. | 91 hr. 55 min. |

When AVCHD/MP4 recording has continued for 12 hours, it will automatically stop. A variable bit rate is applicable in each case.