

Specifications

| Main Unit Specs | |
|--|---|
| Standard Definition or High Definition | High Definition |
| Power Supply (rated) | 7.4 V DC (battery pack), 8.4 V DC (DC IN) |
| Television System | NTSC |
| Recording Format | AVCHD / MP4 |
| Video Recording System | MPEG-4 AVC / H.264 |
| Audio Recording System | Linear PCM (2ch)*, Dolby Digital (2ch) / MPEG-2 AAC-LC (2ch) *28 Mbps/24 Mbps video recording modes only; 16-bit resolution |
| 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 | <p>Zoom Ratio: 20x Optical / 400x Digital</p> <p>Focal Length: 3.67-73.4mm (35mm equivalent: 26.8-576mm with Standard IS/IS Off, 28.8-576mm with Dynamic IS)</p> <p>Zoom Speed: Variable speed / Constant speed (16 levels); Fast, Normal or Slow</p> <p>Max. F/Stop: f/1.8-2.8</p> |
| Focusing System | Hybrid AF (TTL-video signal detection system and external phase difference metering system): Instant AF, Medium AF, Normal AF (TTL-video signal selection system), Face Only AF, Manual Focus |
| Manual Exposure | Available |
| Programmed AE | Auto Mode: 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 |
| Max Shutter Speed | 1/2000 sec. |
| Minimum Focusing Distance | 20mm (wide end) / 60cm (across zooming range) |
| White Balance | Auto, Daylight, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H |
| Frame Rate | AVCHD – 1080: 59.94P / 59.94i / PF29.97 / 23.98P MP4 – 1080: 59.94P / 29.97P / 23.98P; 720 and 360: 29.97P / 23.98P |
| Minimum Illumination | Auto Mode: Approx. 1.2 lux (shutter speed 1/30 sec. and with auto slow shutter on) Low Light Mode: Approx. 0.1 lux (shutter speed 1/2 sec.) |

| | |
|--|--|
| Image Stabilization | <p>Optical system (lens shift) + electronic stabilization</p> <p>Control Modes:</p> <ul style="list-style-type: none"> • Dynamic IS • Powered IS* • Macro IS • Tripod Mode <p>*During Intelligent IS (Auto Mode), Powered IS can be set to On or Off.</p> <p>IS Modes other than Intelligent IS:</p> <ul style="list-style-type: none"> • Standard IS • IS Off |
| Filter Diameter | 58mm |
| Viewfinder | 0.24-inch, TFT Widescreen color LCD (Equivalent to approx. 1.56 million dots; 100% field of view) |
| LCD Screen | 3.5-inch OLED, Capacitive Touch Panel (Approx. 1.23 million dots) |
| Recording Media | 2 SD/SDHC/SDXC memory card slots |
| USB Terminal | mini-B receptacle and Hi-Speed USB supported (output only) |
| HD/SD-SDI Terminal | BNC jack (Genlock function not available) |
| Accessory Shoe | Cold shoe |
| HDMI Terminal | HDMI OUT mini connector |
| Microphone Terminal | 3.5mm diameter stereo mini-jack, MIC/LINE switching possible |
| A/V Mini Terminal/ Headphone Terminal | 3.5mm diameter 4-pole mini-jack (video/audio output only) |
| Headphone Terminal | 3.5mm stereo mini-jack |
| Remote Control Terminal | 2.5mm stereo mini-jack (input only) |
| Operating Temperature Range | Approx. -5–45°C, 60% relative humidity (operation) Approx. 0–40°C, 85% relative humidity (performance) |
| Dimensions (W x H x D) | 4.3 x 3.3 x 7.2 in. / 109 x 84 x 182mm (Not including lens hood, grip belt, microphone holder and handle unit) |
| Weight | Approx. 1.7 lb. / 770g (includes grip belt) |

Maximum Recording Time

| AVCHD | Recording Mode | | | |
|-----------------|----------------|----------------|----------------|----------------|
| | 28 Mbps | 24 Mbps | 17 Mbps | 5 Mbps |
| Memory Capacity | | | | |
| 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 | | | | |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| | 35 Mbps | 24 Mbps | 17 Mbps | 4 Mbps | 3 Mbps |
| Memory Capacity | | | | | |
| 8 GB | 30 min. | 40 min. | 1 hr. | 4 hr. 20 min. | 5 hr. 40 min. |
| 16 GB | 1 hr. | 1 hr. 25 min. | 2 hr. 5 min. | 8 hr. 40 min. | 11 hr. 25 min. |
| 32 GB | 2 hr. | 2 hr. 55 min. | 4 hr. 10 min. | 17 hr. 20 min. | 22 hr. 55 min. |
| 64 GB | 4 hr. | 5 hr. 55 min. | 8 hr. 20 min. | 34 hr. 45 min. | 45 hr. 55 min. |
| 128 GB | 8 hr. | 11 hr. 55 min. | 16 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.