

Specifications

Main Unit Specs	
Standard Definition or High Definition	High Definition
Television System	NTSC
Video Recording System	AVCHD standard, MPEG-4 AVC/H.264
Image Sensor	1/5.8-inch CMOS, back-illuminated
Total Pixels	Approx. 2.51 Megapixels
Effective Pixels	Video: Approx. 2.29 Megapixels (1920x1080) Photo: Approx. 2.29 Megapixels (1920x1080)
Maximum Recording Time	32GB Internal Flash Drive in MP4*: <ul style="list-style-type: none"> • 4.8 Mbps (1920x1080)**: 13 hrs. 30 min. • 17 Mbps (1920x1080)**: 3 hrs. 40 min. • 24 Mbps (1920x1080)**: 2 hrs. 40 min. • 28 Mbps (1920x1080)**: 2 hrs. 20 min. <small>* Variable bit rate. ** When recording has continued for approximately 12 hours, it will automatically stop and then start.</small>
Duration of Built-in Battery	Actual Recording Time: Approx. 2 hrs. 40 min. Continuous Recording Time (Maximum Recording Time): Approx. 4 hrs. 50 min.
Lens	Zoom Ratio: 40x Optical / 60x Dynamic* / 200x Digital <small>* When Image Stabilization set to OFF.</small> Focal Length: 2.9–116.0mm 35mm Film Equivalent: <ul style="list-style-type: none"> • Video: Approx. 40.5–1620mm (image stabilizer: Off) • Photo: 40.5–1620mm (16:9), 49.5–1980mm (4:3) Max. F/Stop: f/1.8–6.3
Manual Exposure	Available
White Balance	Auto, MWB, Fine, Cloud, Halogen, Marine: Blue, Marine: Green
Frame Rate	60P/30P/24P
Minimum Illumination	3 lux
Image Stabilization	Intelligent IS settings: <ul style="list-style-type: none"> • OFF: Deactivates image stabilizer. • ON: Reduces camera shake under normal shooting conditions. • ON (AIS): Reduces camera shake more effectively when shooting bright scenes on the wide-angle end. Only on the wide-angle end (approx. 5x). • Enhanced AIS: The area of correction in the enhanced AIS-mode is greater than that in the AIS mode. Camera shake can be reduced more effectively even when recording is performed by zooming from wide-angle to telephoto. <p>It is recommended to set the image stabilizer to "OFF" when shooting a subject of little movement with the unit on a tripod. Complete stabilization may not be possible if camera shake is excessive. This setting is effective for video recording only. Using the image stabilizer will narrow the angle of view. Dynamic zoom is not available in the enhanced AIS mode.</p>

Filter Diameter	37mm diameter* <i>*When a lens filter or conversion lens is attached, vignetting may occur</i>
LCD Screen	3.0-inch (7.51cm) panel, widescreen color LCD (approx. 460,000 dots)
Recording Media	Built-in 32GB memory and 1 additional SD/SDHC/SDXC memory card slot
USB Terminal	Micro USB Type AB, USB 2.0 compliant
Video Terminal	Signal configuration: NTSC standard color video signals Impedance: 75 Ω Signal level: 1.0 V (p-p)
Audio	Types of signals: Stereo audio signal Impedance: 1 k Ω Frequency characteristic: 48kHz, 256 kbps
HDMI Terminal	HDMI mini connector
Operating Temperature Range	14–104°F (-10–40°C) 35–80% relative humidity (operation) -4–122°F (-20–50°C) 35–80% relative humidity (storage) 50–95°F (10–35°C) 35–80% relative humidity (charging)
Dimensions (W x H x D)	2.4 x 2.3 x 5.0 in. / 60 x 59.5 x 128mm (excluding grip belt)
Weight	Approx. 10.72 oz. / 304g (camera only)