



VIXIA

HFR70

Specifications

Standard Definition or High Definition	High Definition
Television System	NTSC
Video Recording System	AVCHD/MPEG-4
Image Sensor	1/4.85-inch CMOS, RGB Primary Color Filter
Total Pixels	Approx. 3.28 Megapixels
Effective Pixels	Video: Approx. 2.07 Megapixels (1920 x 1080) Photo: Approx. 2.07 Megapixels (1920 x 1080)
Maximum Recording Time	<p>16GB Internal Flash Drive in AVCHD*: LP (1440 x 1080)**: 6 hrs. 5 min. FXP (1920 x 1080)**: 2 hrs. 5 min. MXP (1920 x 1080)**: 1 hr. 25 min. NTSC 60p (1920 x 1080)**: 1 hr. 15 min.</p> <p>16GB Internal Flash Drive in MP4*: 4 Mbps (1280 x 720)**: 8 hrs. 40 min. 17 Mbps (1920 x 1080)**: 2 hrs. 5 min. 24 Mbps (1920 x 1080)**: 1 hr. 25 min. 35 Mbps (1920 x 1080)**: 1 hr.</p> <p>* Variable bit rate. ** When recording has continued for approximately 12 hours, it will automatically stop and then start.</p>
Lens	<p>Zoom Ratio: 57x Advanced* / 32x Optical / 1140x Digital *Manual mode/Cinema Mode only</p> <p>Focal Length: 2.8-89.6mm</p> <p>35mm Film Equivalent: Optical Zoom: Approx. 38.5-1232mm Advanced Zoom Off: Approx. 38.5-1232mm Advanced Zoom On: Approx. 32.5-1853mm</p> <p>Zoom Speed: Variable / 3 Fixed Zoom Speeds</p> <p>Max. F/Stop: f/1.8-4.5</p>
Focusing System	TTL (Through The Lens)
Manual Exposure	Available
Programmed AE	Smart AUTO, P, SCN* ¹ , High-brightness priority, Cinema Mode* ² , Baby Mode ¹ Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks ² Cinema Standard, Vivid, Cool, Sepia, Old Movies
Max Shutter Speed	Movie: 1/2000 sec. Still Image: 1/500 sec.
Minimum Focusing Distance	Auto mode: 10mm (AF linkage: WIDE end), 1m in intermediate zoom range, approx. 50 cm at TELE end All other modes: 10mm (WIDE end), 1m across entire zooming range (from edge of lens). However, approx. 50cm at tele macro setting established at this time (automatic movement to TELE end)

White Balance	Auto, Daylight, Tungsten, Custom WB
Frame Rate	AVCHD: 60i/PF30/60P MP4: 60P/30P/24P
Minimum Illumination	P mode: Approx. 5 lux Low Light mode: Approx. 0.4 lux
Image Stabilization	Optical System (lens-shift system) + electronic stabilization Intelligent IS in Auto/Baby mode <ul style="list-style-type: none"> • Dynamic IS (default) • Powered IS • Macro IS • Tripod Mode <p>IS Modes other than Intelligent IS; Dynamic IS and Powered IS settings can be made manually in P/High-brightness priority/SCN*/Cinema Mode:</p> <ul style="list-style-type: none"> • Standard IS • IS Off <p>Angular velocity detection (using piezoelectric vibration sensor) and hybrid by sensor based movement vector detection supported.</p> <p>*Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks</p>
Filter Diameter	43mm diameter
Viewfinder	Not Available
LCD Screen	3.0-inch capacitive touch panel widescreen color LCD (Approx. 230,000 dots)
Recording Media	Built-in 16GB memory and 1 additional SD/SDHC/SDXC memory card slot
Recommended Cards	60P (NTSC)/50P (PAL) recording: Memory cards of class 6 or higher For both AVCHD and MP4, Class 4 or higher-speed memory cards are recommended in the high-image-quality and full-HD standard modes. Slow & Fast motion at 0.5x speed: Memory cards of class 6 or higher Any class of card may be used for photo shooting.
USB Terminal	mini-AB: Hi-Speed USB supported
Video Terminal	Composite (output)
Audio	AVCHD: Dolby Digital (2ch) MP4: MPEG-4 AAC-LC (2ch) Sampling Frequency: 48 KHz
Accessory Shoe	Not Available
Supplied Video Editing Software	Not Available
HDMI Terminal	Available; Mini connector (output only)
Microphone Terminal	3.5mm diameter stereo mini-jack
AV Mini Terminal/ Headphone Terminal	3.5mm diameter 4 pole mini-jack (video/audio output only)
Operating Temperature Range	23° to 113°F (-5° to 45°C) 60% relative humidity (operation) 32° to 104°F (0° to 40°C) 85% relative humidity (performance)
Dimensions (W x H x D)	Approx. 2.1 x 2.3 x 4.6 in. / 53 x 58 x 116mm (Not including grip belt)
Weight	Approx. 8.5 oz. / 240g (Body, not including grip belt) Approx. 10.9 oz. / 310g (Including Battery BP-727, memory card, grip belt)