

General

Mass

Approx. 1895g (Body only)

Approx. 4lb 3 oz (Body only)

Approx. 2270 g (with lens hood, eyecup, NP-F770 battery)

Approx. 5 lb (with lens hood, eyecup, NP-F770 battery)

Dimensions (W x H x D) *1

171.3 × 187.8 × 371.3 mm (With the accessories (lens hood, large eyecup), excluding the grip belt and including the projecting parts)

6 3/4 × 7 3/8 × 14 5/8 inches (With the accessories (lens hood, large eyecup), excluding the grip belt and including the projecting parts)

Power Requirements

DC In: 8.4V, Battery: 7.2 V

Power Consumption

Approx. 6.3 W (while recording with viewfinder and XAVC HD 1080/60i 50 Mbps)

Approx. 6.6 W (while recording with LCD and XAVC HD 1080/60i 50 Mbps)

Operating Temperature

0°C to 40°C

32°F to 104°F

Storage Temperature

-20°C to +60°C

-4°F to +140°F

Battery Operating Time

Approx. 260 min. with NP-F770 battery (while recording with LCD, XAVC 1080/60i, 50 Mbps)

Approx. 400 min. with NP-F970 battery (while recording with LCD, XAVC 1080/60i, 50 Mbps)

Recording Format (Video)

XAVC QFHD: MPEG-4 AVC/H.264 4:2:0 Long profile

XAVC HD : MPEG-4 AVC/H.264 4:2:2 Long profile

XAVC Proxy: MPEG-4 AVC/H.264 4:2:0 Long profile

MPEG HD422: MPEG-2 422P@HL 4:2:2 Long profile

MPEG HD420: MPEG-2 MP@HL 4:2:0 Long profile

MPEG HD Proxy: MPEG-4 AVC/H.264 4:2:0 Long profile

AVCHD : MPEG-4 AVC/H.264 AVCHD 2.0 format compatible

Recording Format (Audio)

XAVC QFHD : Linear PCM 2ch, 24bit, 48kHz

XAVC HD : Linear PCM 2ch, 24bit, 48kHz

XAVC Proxy : AAC-LC 2ch, 16bit, 48kHz

MPEG HD422 : Linear PCM 2ch, 24bit, 48kHz

MPEG HD420 : Linear PCM 2ch, 16bit, 48kHz

MPEG HD Proxy : AAC-LC 2ch, 16bit, 48kHz

AVCHD : Linear PCM 2ch, 16bit, 48kHz Dolby Digital 2ch, 16bit, 48kHz

Recording Frame Rate

XAVC QFHD (3840 x 2160) @29.97p, 25p, 23.98p 100Mbps/60Mbps

XAVC HD (1920 x 1080) @59.94p, 50p, 50 Mbps/35 Mbps

XAVC HD (1920 x 1080) @59.94i, 50i, 50 Mbps/35 Mbps/25 Mbps
XAVC HD (1920 x 1080) @29.97p, 25p, 23.98p, 50 Mbps/35 Mbps
XAVC HD (1280 x 720)@59.94p, 50p, 50Mbps
XAVC Proxy (1280 x 720) @59.94p, 50p, 29.97p, 25p, 23.98p 9Mbps
XAVC Proxy (640 x 360) @59.94p, 50p, 29.97p, 25p, 23.98p, 3Mbps
MPEG HD422 (1920 x 1080) @59.94i, 50i, 29.97p, 25p, 23.98p, 50 Mbps
MPEG HD422 (1280 x 720) @59.94p, 50p, 50Mbps
MPEG HD420 (1920 x 1080) @59.94i, 50i, 29.97p, 25p, 23.98p, HQ mode (35Mbps)
MPEG HD420 (1440 x 1080) @59.94i, 50i, HQ mode (35Mbps)

Recording Frame Rate (contd)

MPEG HD420 (1280 x 720) @59.94p, 50p, HQ mode (35Mbps)
MPEG HD Proxy (1280 x 720) @59.94p, 50p, 29.97p, 25p, 23.98p, 9Mbps
MPEG HD Proxy (640 x 360) @59.94p, 50p, 29.97p, 25p, 23.98p, 3Mbps
AVCHD (1920 x 1080)@59.94p, 50p, PS mode (28 Mbps)
AVCHD (1920 x 1080) @59.94i/50i/29.97p/25p/23.98p, FX mode (24 Mbps), FH mode(17 Mbps)
AVCHD (1280 x 720)@59.94p, 50p, FX mode (24 Mbps) FH mode (17 Mbps) HQ mode (9 Mbps)

Recording/Playback Time

XAVC-L QFHD 100 mode, Approx. 65 min with 64 GB memory card
XAVC-L QFHD 60 mode, Approx. 100 min with 64 GB memory card
XAVC-L HD 50 mode, Approx. 120 min with 64 GB memory card
XAVC-L HD 35 mode, Approx. 170 min with 64 GB memory card
XAVC-L HD 25 mode, Approx. 220 min with 64 GB memory card

MPEG HD422 @LPCM 2ch 50 Mbps, Approx. 110 min with 64 GB memory card

MPEG HD420 @LPCM 2ch HQ Mode, Approx. 170 min with 64 GB memory card

Recording/Playback Time (Contd)

AVCHD@LPCM 2ch PS Mode, Approx. 290 min with 64 GB memory card
AVCHD@LPCM 2ch FX Mode, Approx. 340 min with 64 GB memory card
AVCHD@LPCM 2ch FH Mode, Approx. 450 min with 64 GB memory card
AVCHD@LPCM 2ch HQ Mode, Approx. 750 min with 64 GB memory card

Lens

Lens Mount

Fixed

Zoom Ratio

12x (optical), servo

Focal Length

f = 9.3 - 111.6 mm equivalent to f = 29.0 - 348.0 mm on 35 mm lens (16:9)

Iris

F2.8 - F4.5 auto/manual selectable

Focus

AF/MF selectable, 10 mm to ∞ (Wide), 1000 mm to ∞ (Tele)

Image Stabilizer

ON/OFF selectable, shift lens

Filter Diameter

M62 mm

Camera Section

Imaging Device (Type)

1.0-type (13.2 mm x 8.8 mm) back-illuminated Exmor RS CMOS sensor

Imaging Device (Pixel Count)

Approx. 20 M pixels (total)

Approx. 14.2 M pixels (Effective)

Effective Picture Elements

3840 (H) x 2160 (V)

Built-in Optical Filters

ND filters

OFF: CLEAR

1: 1/4ND

2: 1/16ND

3: 1/64ND

Minimum Illumination

1.7 lux (Low Lux)

Shutter Speed

[60i]: 1/8 - 1/10,000 (1/6 - 1/10,000 when shooting with 24p)

[50i]: 1/6 - 1/10,000

Slow & Quick Motion Function

[60i]: XAVC HD: Frame rate selectable 1.2.4.8.15.30,60 fps

[50i]: XAVC HD: Frame rate selectable 1.2.3.6.12.25,50 fps

[60i]: MPEG HD: Frame rate selectable 1.2.4.8.15.30 fps

[50i]: MPEG HD: Frame rate selectable 1.2.3.6.12.25 fps

[60i]: AVCHD: Frame rate selectable 1.2.4.8.15.30,60 fps

[50i]: AVCHD: Frame rate selectable 1.2.3.6.12.25,50 fps

Super Slow Motion Function

[60i]: XAVC HD: Frame rate selectable 120 fps

[50i]: XAVC HD: Frame rate selectable 100 fps

White Balance

Preset (Indoor: 3200K, Outdoor: 5600K±7 steps, Color temperature set range: 2300-15000K), Onepush A, B, Auto selectable

Gain

-3, 0, 3, 6, 9, 12,15, 18, 21, 24, 27, 30, 33 dB, AGC

Gamma Curve

Selectable

Input/Output

Audio Input

XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable

Video Output

Integrated into Multi/Micro USB jack (x1), RCA pin(x1), Composite 1.0Vp-p, 75 Ω

Audio Output

Integrated into Multi/Micro USB jack(x1), RCA pin(Monaural)(x1)

SDI Output

BNC (x1), 3G/HD/SD SMPTE ST 424/ST 292-1/ST 259 standards

Headphone Output

Stereo mini jack (x1)

Speaker Output

Monaural

DC Input

DC jack

Remote

Stereo mini-mini jack (Φ2.5 mm)

HDMI Output

HDMI connector (Type A)

Monitoring**Viewfinder**

1.0cm (0.39 type) OLED, Approx. 1.44M dots

LCD

8.8cm (3.5 type), Approx. 1.56M dots

Built-in Microphone**Built-in Microphone**

Omni-directional stereo electret condenser microphone

Media**Type**

MS/SD(1),SD(1)

Wi-Fi/NFC**Supported Format**

IEEE 802.11 b/g/n

Frequency Band

2.4 GHz bandwidth

Security

WEP/WPA-PSK/WPA2-PSK

NFC

NFC Forum Type 3 Tag compliant

Supplied Accessories**Supplied Accessories**

Lens hood (1)

Large eyecup (1)

Shoecap (1)

Accessory shoe kit (accessory shoe (1), accessory shoe plate (1), screws

(4))

USB cable (1)

AC Adaptor (AC-L100 C) (1)

Power cord (mains lead) (1)

Rechargeable battery pack (NP-F770) (1)

Charger(BC-L1) (1)

Wireless Remote Commander (RMT-845) (1)

Lithium battery (CR2025 for the Wireless Remote Commander) (1), Pre-installed to the Wireless Remote Commander

Operating Guide (2)

CD-ROM "Manuals for Solid-State Memory Camcorder" (1)

Warranty (1)