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Horizontal Resolution 1000 TV lines or more (Full HD recording) Zoom ratio 20x Focal length 26.8 - S76mm (35mm equivalent / 28.8 - S76mm with Dynamic IS on) Minimum focus distance 60cm (throughout zoom range); 10mm (wide angle) 10mm (wide angle) ND filter Built-in gradation filter (Auto or Of) Zoom control Zoom rockers on Dody and handle; Selectable High Speed and Soft Zoom modes available. Selectable High Speed and Soft Zoom modes available. Zoom speed Variable (body rocker only) or Constant speed (body and handle rocker; Fast/Normal/Slow, 16 Appeture range fl.a - fl8 Filter dimenter Bide Circular Aperture Aptract Baide Scale fl.a - fl8 Filter dimenter Bide Circular Aperture mage stabilization system Oprical lens shift system (angle & wetor movement detection) + electronic stabilisation; A modes: Intelligener (Auto), Dynamic, Standard, Powered Digital Zoom) Up to 400r. Built in 2x Oligital Teleconverter (cannot be used with Digital Zoom) Image Processor Digital Zoom (MM amax, quality) ¹ Type Class 6 or higher) cards econmmended for 1080/S0P recording		
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Selectable individual zoom/rocus ring on lens: Selectable individual poet and Soft Zoom modes available. Zoom speed Variable (body rocker only) or Constant speed (body and handle rocker; Fast/Normal/Slow, 16 Focus control ANAUAL: Lens ring; Touchscreen OLED (touch Focus, Touch and Track), Focus Preset AUTO: Face priority AF / Face ONy AF / Instant AF / Medium AF / TV AF Aperture range f1.8 - f8 Filter diameter Sämm Lens elements/groups 12/10 Aperture blades B Blade Circular Aperture Aperture blades B Blade Circular Aperture Optical lens shift system (angle & vector movement detection) + electronic stabilisation; A modes, Intelligent (Auto), Dynamic, Standard, Powered Digital zoom Up to 4000; Buil: in 2x Digital Teleconverter (cannot be used with Digital Zoom) Image Processor Recording Video storage media SDXC/SDI/CSD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. Type Class 4 (or higher) cards recommended for tother Full HD recording Class 4 (or higher) cards recording portiol; Class 4 (or higher) cards recording portiol;		
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Zoom speed Variable (body rocker only) or Constant speed (body and handle rocker; Fast/Normal/Slow, 16 Speed level settings in each) MANUAL: Lens ring, Touchscreen OLED (touch Focus, Fouch and Track), Focus Preset AUTO: Face Conly AF / Instant AF / Medium AF / TV AF Aperture range Pilter diameter Simm Lens elements/groups 12/10 Aperture range Pilter diameter Digital zoom Optical lens shift system (caple & vector movement detection) + electronic stabilisation; A modes: Intelligent (Auto), Dynamic, Standard, Powered Up to 400x; Digital zoom Up to 400x; Built-in 2x Digital Teleconverter (cannot be used with Digital Zoom) Image Processor Type DiGic DV 4 Recording SDXC/SDHC/SD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹ Type Class 6 (or higher) cards recommended for 1080/SDP recording; Class 4 (or higher) cards recommended for other Full HD recording Recording file format AVCHD (all modes variable bit rate, 4:2:0 colour sampling); 1920x1080: SDp (28Mps, intear PCM audio available); 1920x1080: SD (75Mps, 17Mbps); 140xCHB Progressive (v2.0, high profile); MP4 (all modes variable bit rate, 4:2:0 co		
Speed level settings in each) MANUAL: Lens ring, TouChscreen OLED (touch Focus, Touch and Track), Focus Preset AUTO: Face Priority AF / Face Only AF / Instant AF / Medium AF / TV AF For somool Custom dial; Touchscreen, Auto Aperture range F1.8: 6 Filter diameter S8 Ears elements/groups 12/10 Aperture blades 8 Blade Circular Aperture Image stabilization system Optical lens shift system (angle & vector movement detection) + electronic stabilisation; 4 modes: Intelligent (Auto), Oynamic, Standard, Powered Digital zoom Up to 4000; Built-in 2X Digital Teleconverter (cannot be used with Digital Zoom) Image stabilization SDXC/SDHC/SD memory card (2 card slots); Type Dicic DV 4 Recording SDXC/SDHC/SD memory card (2 card slots); Dual Format recording, Dualu Is of stabilis and council possible. ¹ Others Council and Relay (continuous) recording possible. ¹ Type Class 6 (or higher) cards recommended for 1080/SDP recording; Class 6 (or higher) cards recommended for other Full HD recording Recording file format AVCHD Progressive (V2.0, high profile); MPA MPA SOUTION: (MPA Max, quality) ¹ Bhrs 55min; (MPA Max, quality) ¹ <td>Zoom speed</td> <td></td>	Zoom speed	
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Filter diameter 58mm Lens elements/groups 12/10 Aperture blades 8 Blade Circular Aperture Optical lens shift system (angle & vector movement detection) + electronic stabilisation; 4 modes: Intelligent (Auto), Dynamic, Standard, Powered Digital zoom Up to 400x; Built-In 2x Digital Teleconverter (cannot be used with Digital Zoom) Image Processor Processor Type DIGIC DV 4 Video storage media SDXC/SDHC/SD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹ Type Class 6 (or higher) cards recommended for 1080/50P recording; Class 4 (or higher) cards recommended for other Full HD recording Recording time 128GB SDXC card: 10hrs 10mins (MP4 max, quality) ¹ Shrs 00mins (MP4 max, quality) ¹ Recording format AVCHD Progressive (v2.0, high profile); MP4 Recording format AVCHD Clall modes variable bit rate, 4:2:0 colour sampling): 1920x1080: 50p (28Mbps, linear PCM audio available); 1920x1080: 50p (28Mbps, linear PCM audio available); 1920x1080: 50p (28Mbps, linear PCM audio available); 1920x1080: 50p (
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Aperture blades B Blade Circular Aperture Image stabilization system Optical lens shift system (angle & vector movement detection) + electronic stabilisation; 4 modes: Intelligent (Auto), Dynamic, Standard, Powered Digital zoom Up to 400x; Built-in 2X Digital Teleconverter (cannot be used with Digital Zoom) Image Processor Dicit DV 4 Yudeo storage media SDXC/SDHC/SD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹ Type Class 6 (or higher) cards recommended for 1080/50P recording; Class 6 (or higher) cards recommended for other Full HD recording Recording time 128GE SDXC card: 10hrs 10mirs (AVCHD max. quality) ¹ Bhrs 00mirs (AVCHD max. quality) ¹ Bhrs 00mirs (AVCHD Progressive (v2.0, high profile); MP4 Recording file format AVCHD Progressive (v2.0, high profile); 1920x1080: 50 (PZE ClasMbs, 1TMps); 1920x1080: 50 (PZE ClasMbs, 1TMps); 1920x1080: 50 (PZE ClasMbs, 1TMps); 1240x1080: 50 (PZE ClasMbs, 1TMps); 1240x1080: 50 (PZE ClasMbs, 1TMps); 1240x1080: 50 (PZE ClasMbs, 1TMbps); 1290x1080: 52 PC (2MMbs, 1TMbps); 1290x1080: 52 PC (2Mbps, 1TMbps); 1290x1080: 52		
4 modes: Intelligent (Auto), Dynamic, Standard, Powered Digital zoom Up to 4000; Built-in 2x Digital Teleconverter (cannot be used with Digital Zoom) Image Processor Processor Type DIGIC DV 4 Recording Video storage media SUC/SDH/SD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹ Type Class 6 (or higher) cards recommended for 1080/50P recording; Class 4 (or higher) cards recommended for other Full HD recording Recording time 128CB SDX Card: 10hrs 10mins (AVCHD max, quality) ¹ Bhrs 00mins (MP4 max, quality) ¹ Bhrs 00mins (MP4 max, quality) ¹ Recording file format AVCHD Progressive (v2.0, high profile); MP4 Recording format AVCHD (all modes variable bit rate, 4:2:0 colour sampling): 1920x1080: 50p (28Mbps, linear PCM audio available); 1920x1080: 50p (28Mbps, linear PCM audio available); 1920x1080: 50p (28Mbps, 17Mbps); 1280x720: 25P (24Mbps,	Aperture blades	8 Blade Circular Aperture
Digital zoom Up to 400x; Built-in 2x Digital Teleconverter (cannot be used with Digital Zoom) Image Processor Type DIGIC DV 4 Recording Video storage media SDXC/SDHC/SD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹ Type Class 6 (or higher) cards recommended for tother Full HD recording; Class 4 (or higher) cards recommended for other Full HD recording Recording time 128GB SDXC card: 10hrs 10mins (MP4 max, quality) ¹ 9thrs 55mins (MP4 lowest quality) ¹ 1920x1080: 50 (753Mbps); 1920x1080: 50 (753Mbps); 1920	Image stabilization system	
Built-in 2x Digital Teleconverter (cannot be used with Digital Zoom) Image Processor Type DIGIC DV 4 Recording Video storage media SDXC/SDHC/SD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹ Type Class 6 (or higher) cards recommended for 1080/50P recording; Class 6 (or higher) cards recommended for other Full HD recording Recording time 128GB SDXC card: 10hrs 10mins (AVCHD max, quality) ¹ Bhrs 00mins (MP4 max, quality) ¹ 9thrs 55mins (MP4 lowest quality) ¹ Recording file format AVCHD Progressive (v2.0, high profile); MP4 Recording format AVCHD (all modes variable bit rate, 4:2:0 colour sampling): 1920x1080: 500 (PE25 (SMMps), 17Mbps); 1440x1080: 501/PE25 (SMMps) Slow/Fast motion YES (MP4.HD mode only, 2x fast motion, 0.5x slow motion) Interval Record NO Frame Record NO Frame Record NO Pre Record (cache record) YES (MP4.HD mode only, 2x fast motion, 0.5x slow motion) Interval Record NO Frame Record NO Frame Record NO Pre Record (cache record) YES (AVCHD to MP4)		
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Still quality During video recording or playback: 1920 x 1080/1280 x 720/640 x 360 System		
System		
Promitoring Panel	Monitoring Panel	System
Type Capacitive Organic LED		
Size 8.8cm (3.5"), 100% view	Size	8.8cm (3.5"), 100% view
Dots 1.23 million-dot equivalent		
Image quality adjustments Brightness, backlight, OLED colour balance Adjust black VES (370 degree retation about begingents)		
Adjustable YES (270 degree rotation about horizontal axis) Waveform Monitor NO		
Focus Assist Peaking; Magnifying		
Peaking YES		
Zebra YES (70% or 100% reference level)		
Markers ON/OFF (Level, Grid)		

EVF	
Size	0.61cm (0.24"), 100% view
Dots	1.56 million dots equivalent
Adjustable	YES (tiltable to 45 degrees)
Correction lens	+ 2.0 to -5.5 diopter
Inputs/Outputs Audio in	XLR inputs with 48V phantom power (x2), 3.5mm microphone input jack
Headphone output	3.5mm stereo iack
Video monitor output	NO
HDMI	
	YES (HDMI [™] mini connector, output only, 1080/50p output possible)
IEEE 1394 (Firewire)	NO
USB	YES (Mini-B, USB 2.0 Hi-Speed, output only)
HD/SD-SDI output Time code	NO
	YES (Superimposed on HDMI Output signal)
Genlock	NO
Component out	NO 7 Ferrer mini i alt (autout ante fanuidae and audie)
AV terminal DC input	3.5mm mini jack (output only for video and audio)
Remote Control Terminal	YES 2.5mm mini jack
Colour Bars	YES (SMPTE or EBU), with 1KHz Tone
Misc	
	VEC in datashabla bandla
Tally lamp Accessory shoe	YES, in detachable handle YES (cold shoe)
	YES (cold shoe) YES (5 assignable buttons; select from 22 functions)
Custom key Custom Dial	YES (5 assignable buttons; select from 22 functions) YES (Shutter Priority (Tv), Aperture Priority (Av), Manual Exposure, exposure compensation, AGC
	YES (Soutter Priority (TV), Aperture Priority (AV), Manual Exposure, exposure compensation, AGC limit)
Exposure	Shooting functions
Exposure Exposure metering	Contro weighted average or comment avaluative (determined by sheating mode).
Exposure metering	Centre-weighted average or segment evaluative (determined by shooting mode); No metering: Fireworks mode, Fixed exposure (1/50 sec.)
F	-3 to +3 EV (12 steps);
Exposure compensation	
Auto Francisco de	Backlight Correction available (Auto or always on)
Auto Exposure mode	Smart Auto, Face Detection AE;
	Manual control via Touch Exposure and Exposure Compensation functions.
Push Auto Iris	YES (via touchscreen)
Exposure Lock	YES
Auto Gain Control setting	Auto / Manual
Auto Gain Control limit	0 to 24dB, 1dB increments (0 to 18dB in Cinema Mode)
Gain setting	0 to 24dB, 1dB increments (0 to 18dB in Cinema Mode)
Shutter speed	
Control Modes	Full Auto / Manual control (touchscreen LCD or control dial)
Shutter speed	1/6 to 1/2000 (depending on Scene Mode and frame rate)
Clear Scan	NO
Infrared	
Infrared shooting mode	YES (green or white)
Built-in IR lamp	YES, in detachable handle
3D Shooting Assist	
OIS Axis Shift	NO
Focal Length Guide	NO
Shooting Modes	
Smart AUTO	YES
Program AE	AUTO; Marada, D. Tu, Au M (manual auroauma), SCN (Partrait Smarth Smarth Sanath Sumart Night Laur
	M mode: P, Tv, Av, M (manual exposure), SCN (Portrait, Sports, Snow, Beach, Sunset, Night, Low
	Light, Spotlight, Fireworks); Cinema mode, P. Ty, Ay, M.
Ciana Francisco -	Cinema mode: P, Tv, Av, M
Cinema Features	Cinema-Look Filter (9 options, including customisable 'Cinema Standard')
Image Effects	Brightness, Contrast, Sharpness, Colour Depth
Wi-Fi & GPS Specifications	
Wireless LAN standards	IEEE 802.11b/g/n (2.4GHz band) / IEEE 802.11a/n (5GHz band) ²
Supported Wi-Fi Functions	Remote Operation; Movie Uploader (YouTube and Facebook) ³ ; Playback (in browser); Media Server;
	FTP File Transfer
Supported Browser for Remote Operation	Internet Explorer 8 or later, Safari (iOS), Safari (MacOS), Android standard browser
Remote Operation Control Features	Aperture, Focus, WB, shutter Speed, Gain, Exposure Compensation, Shooting Mode, Slot select,
	Start/Stop Recording
Live view image Resolution	Camera setting mode: 680 x 383; Simplified setting: 284 x 160
Authentication Systems	Open/WPA-PSK/WPA2-PSK
Encryption	WEP64, WEP128, TKIP, AES
GPS Information (Optional Accessory)	Latitude/Longtitude/Elevation, Coordinated Universal Time (UTC)
White balance	
Auto	YES
Preset	6: Daylight, Shade, Cloudy, Tungsten (incandescent lamps or halogen bulbs), Fluorescent H (3-
	wavelength type fluorescent), Fluorescent (white fluorescent)
Manual setting	Set 1, Set 2, Colour Temperature (2,000–15,000 K, 100K steps)
Countup system	Regen/Rec Run/Free Run/Preset (Non-Drop Frame)
	"00:00:00", Set/Reset selectable
Start value setting	voluoite ; sea neser selectable

Audio	
Recording	AVCHD: Linear PCM ⁴ (2ch, 16 bit, 48 kHz) or Dolby Digital (AC-3 2ch, 48kHz)
-	MP4: MPEG-2 AAC LC (2 ch)
Control	Audio controls include:
	Independent 2ch Line/Mic/Mic+48V input;
	Independent level control per channel (- ∞ to +18 dB);
	Independent audio limiters (2 ch);
	Input mic trimming
Microphone attenuation	Auto/On/Off (20dB)
Microphone level meter	YES
Zoom Microphone	YES (customisable frequency response and directivity)
	Accessories
Supplied	Lens hood with barrier, Mic holder unit, Handle unit (HDU-1), Wireless Controller (WL-D89), Battery
	Pack BP-820, High Speed HDMI Cable (HTC100/S), Compact Power unit CA-570, AC Cable, Interface Cable (IFC-300PCU/S), Stereo Video Cable (STV-250N), Data Import Utility Ver2.0
Optional	Canon Battery Pack BP-820/BP-828
	Canon Compact Power Adapter CA-570,
	Canon Battery Charger CG-800E/CG-800B,
	Canon HDMI cable HTC-100,
	Canon Stereo Video Cable STV-250N,
	Canon Tele Converter TL-H58,
	Canon Wide Attachment WA-H58,
	Canon Wireless Microphone WM-V1,
	Canon Soft Carrying Case SC-2000,
	Canon PROTECT Filter 58 mm, Canon ND4-L Filter 58 mm, Canon ND8-L Filter 58 mm,
	Canon GPS Receiver GP-E2,
	Canon Battery Video Light VL-10Li/VL-10Lill (Model A/B only),
	Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiII),
	Canon Compact Power Adapter CA-910/920/930 (for charging BP-900 series)
Battery	
Backup power supply	Lithium coin battery (built-in)
Power Consumption	4.8W ⁵ (AVCHD) / 4.7W (MP4) ⁵
Continuous Recording Time	Supplied BP-820: Approx. 150 minutes ⁵
contained of Recording Time	
	Optional BP-828: Approx. 225 minutes ⁵
	Miscellaneous
.	Approx. 109 x 84 x 182 mm (main body only)
Dimensions	Approx. 131 x 180 x 231 mm (fully equipped)
Detachable handle	YES
Weight (camera only)	Approx. 765 g
	Approx. 1155 g
Weight (fully equipped) Operating Temperature range	-5°C to +45°C, 60% relative humidity

Disclaimers

After 12 hours of continuous recording, camcorder will stop recording and re-start automatically. Simultaneous/Dual Format recording
 5Ghz not available in Qatar
 iOS devices only, excludes MP4 1080/50P mode
 AVCHD 1080/50P mode only
 28Mbps / 35Mbps recording, normal EVF brightness

All specifications are subject to change without notice