



HD Camcorder HC-V180

SENSOR SECTION	SENSOR FOR MAIN CAMERA	Image Sensor	1/5.8-inch BSI MOS Sensor
		Total Pixels	2.51 megapixels
		Effective Pixels [Motion Image]	2.20 megapixels [16:9] (O.I.S. Standard Mode, Level Shot Function OFF)
		Effective Pixels [Still Image]	1.67 megapixels [3:2]
		Effective Pixels [Still Image]	2.20 megapixels [16:9]
		Effective Pixels [Still Image]	1.70 megapixels [4:3]
	SENSOR FOR SUB CAMERA	Image Sensor	—
		Total Pixels	—
LENS SECTION	LENS FOR MAIN CAMERA	F Value	F1.8 (WIDE) / F4.2 (TELE)
		Optical Zoom	50x
		Focal Length	2.06 - 103 mm
		35 mm Film Camera Equivalent [Motion Image (16:9)]	28.0 - 1740 mm [16:9](O.I.S. Standard Mode, Level Shot Function: OFF))
		35 mm Film Camera Equivalent [Still Image]	33.6 - 1714 mm [3:2]
		35 mm Film Camera Equivalent [Still Image]	28.0 - 1740 mm [16:9]
		35 mm Film Camera Equivalent [Still Image]	34.0 - 1766 mm [4:3]
		Filter Diameter	—
		Lens Brand	Panasonic Lens
	LENS FOR SUB CAMERA	F Value	—
		Focal Length	—
		35 mm Film Camera Equivalent [Motion Image]	—
CAMERA SECTION	Standard Illumination		1400 lx
	Minimum Illumination		4 lx (Scene Mode Low Light 1/25), 1 lx (Night Mode (Color))
	Focus		Auto / Manual

	Zoom	Intelligent Zoom OFF	62 x (O.I.S. Standard Mode, Level Shot Function: OFF)
		Intelligent Zoom ON	90 x (O.I.S. Standard Mode, Level Shot Function: OFF)
		Digital Zoom	150 x / 500 x (The maximum value of zoom magnification can be set in two patterns)
	White Balance		Auto/White Set/Sunny/Cloudy/Indoor1/Indoor2 (TTL system)
	Shutter Speed	Motion Image	Auto Slow Shutter ON : 1/25 – 1/8000
		Motion Image	Auto Slow Shutter OFF : 1/50 – 1/8000
		Still Image	1/2 - 1/2000
	Iris		Auto / Manual
	Image Stabilizer		HYBRID O.I.S.+ with Active Mode, O.I.S. Lock, Level Shot Function
	HDR Movie (Except 4K Mode)		–
	Creative Control (Except 4K Mode)		Miniature Effect, Silent Movie, 8mm Movie, Time Lapse Rec
RECORDING SECTION	Recording Media		SD/SDHC/SDXC Memory Card
	Recording Format		[AVCHD] AVCHD Progressive
	Recording Format		[iFrame / MP4] MP4
	Compression Method		MPEG-4 AVC/H.264
	Recording/ Playback Mode	AVCHD	1080/50p (28Mbps / VBR), (1920 x 1080/50p)
		AVCHD	PH (24Mbps / VBR), (1920 x 1080/50i)
		AVCHD	HA (17Mbps / VBR), (1920 x 1080/50i)
		AVCHD	HG (13Mbps / VBR), (1920 x 1080/50i)
		AVCHD	HE (5Mbps / VBR), (1920 x 1080/50i)
		MP4	1080p/50p(28M) (28Mbps / VBR), (1920 x 1080)
		MP4	720p/25p(9M) (9Mbps / VBR), (1280 x 720)
		iFrame	960 x 540/25p (28Mbps / VBR)
	Actual Recordable Time with Supplied Battery		Approx. 1 h 5 min (50p mode)
	Actual Recordable Time with Supplied Battery		Approx. 1 h 10 min (PH mode)
	Actual Recordable Time with Supplied Battery		Approx. 1 h 10 min (HA mode)
	Actual Recordable Time with Supplied Battery		Approx. 1 h 10 min (HG mode)
	Actual Recordable Time with Supplied Battery		Approx. 1 h 10 min (HE mode)

	Actual Recordable Time with Supplied Battery		Approx. 1 h 5 min (MP4 28M)
	Actual Recordable Time with Supplied Battery		Approx.1 h 20 min (MP4 720p)
	Actual Recordable Time with Supplied Battery		Approx. 1h 25 min (iFrame)
	Thumbnail Display		20 thumbnails/page, 9 thumbnails/page, 1 thumbnail/page
	Audio Recording System		AVCHD: Dolby Digital (2ch)
	Audio Recording System		iFrame, MP4: AAC (2ch)
	Microphone		2ch Stereo, Zoom Microphone
	Speaker		Dynamic type
STILL IMAGE SECTION	Recording Format		JPEG (DCF/Exif2.2)
	Recording Image Size	Still Image	[16:9] 10 megapixels (4224 x 2376), 2.1 megapixels (1920 x 1080)
		Still Image	[3:2] 7.7 megapixels (3408 x 2272), 2.0 megapixels (1728 x 1152)
		Still Image	[4:3] 7.4 megapixels (3136 x 2352), 0.3 megapixels (640 x 480)
		Simultaneous Recording	[16:9] 2.1 megapixels (1920 x 1080)
	Flash		—
GENERAL SECTION	Power Supply		3.6V (Battery) / 5.0V (AC Adaptor)
	Power Consumption		Max. 4.7W (Recording) / Max. 7.7W (Charging)
	Dimensions (W x H x D)		Approx. 53 x 59 x 116 mm (2.087 x 2.323 x 4.567 inch)
	Weight (w/o battery and SD card)		Approx. 211g (0.465lb)
	LCD Monitor		2.7-inch Wide LCD monitor (230,400 dots)
	Touch Panel		Yes
	View Finder		—
	Manual Ring / Dial		—
	Interface	AV	Yes
		HDMI	Yes (mini)
		Microphones (stereo mini)	—
		Headphone (stereo mini)	—
		USB	2.0 Hi-Speed
		USB Charge	Yes

	LED Video Light	—
	Accessory Shoe	—
	Lens Cover	Yes (Manual)
	On-Screen Display Language	English, Chinese Traditional, Chinese Simplified, Thai, Arabian, Persian, Hindi
Wi-Fi	Standard	—
	Frequency	—
	NFC	—
STANDARD ACCESSORY	AC Adaptor	Yes
	AC Cable	—
	DC Cable	Yes (USB Type)
	Rechargeable Battery Pack	Yes (1,940mAh)
	Battery Charger	—
	IR Remote	—
	HDMI Cable	Yes (mini)
	AV Multi Cable	—
	AV Cable	—
	Shoe adaptor	—
	Lens Hood	—
	USB Cable	Yes
	Editing Software	HD Writer LE 3.0 (Download)