

4K Professional Camcorder HC-X2000

SENSOR SECTION		Image Sensor	1/2.5-type (inch) MOS Sensor
		Effective Pixles	8.29 megapixels
LENS SECTION		F Value	F1.8 — 4.0
		Optical Zoom	24x
		Focal Length	4.12 — 98.9mm
		35 mm Film Camera Equivalent	25.0 — 600.0 mm
		Filter Diameter	62 mm
		Lens Brand	Leica Dicomar Lens
CAMERA SECTION	Minimum Illumination		1.5 lx (F1.8, Super Gain +, 1/30)
	Focus		Auto / Manual
	Zoom	Intelligent Zoom OFF	24x
		Intelligent Zoom ON	Max. 48x (UHD 32x)
		Digital Zoom	2x / 5x / 10x
	Shutter Speed	59.94 Hz mode	59.94i/59.94p: 1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec 29.97p: 1/30, 1/50, 1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec 23.98p: 1/24, 1/48, 1/50, 1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec
		50.00 Hz mode	50i/50p: 1/50, 1/60, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec 25p: 1/25, 1/50, 1/60, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec

	Slow Shutter Speed	59.94 Hz mode	59.94i/59.94p: 1/8, 1/15, 1/30 sec 29.97p: 1/8, 1/15 sec 23.98p: 1/6, 1/12 sec
		50.00 Hz mode	50i/50p: 1/6, 1/12, 1/25 sec 25p: 1/6, 1/12 sec
	Super Slow Recording Frame Rate	59.94 Hz mode	FHD 120 fps (1/2 speed at 60p, 1/4 speed at 30p, 1/5 speed at 24p)
		50.00 Hz mode	FHD 100 fps (1/2 speed at 50p, 1/4 speed at 25p)
	ND Filter		1/4, 1/16, 1/64, OFF
	IR Filter		Incorporates the ON/OFF control function
	White Balance		Auto / ATW LOCK / 3200K / 5600K / VAR (2000K—15000K) / Ach Fixed / Bch Fixed
	Iris		Auto / Manual
	Image Stabilizer		Ball O.I.S., 5-Axis HYBRID O.I.S. (UHD/FHD)
RECORDING SECTION	Recording Media		SDHC/SDXC Memory Card
	Recording Format		MOV, MP4, AVCHD
	Video Compression Method		MOV/MP4: H.264/MPEG-4 AVC High Profile, H.265/MPEG-H HEVC Main10 Profile AVCHD: H.264/MPEG-4 AVC High Profile
	Audio Compression Method		MOV: LPCM (24bit 2ch) MP4: AAC (16bit 2ch) AVCHD: Dolby Audio (16bit 2ch)
	System Frequency		59.94Hz / 50.00Hz
	Recording / Playback Mode	MOV (HEVC)	[4:2:0 10bit] UHD 3840x2160 59.94p/50.00p HEVC 200M: Average 200Mbps (VBR) UHD 3840x2160 29.97p/25.00p/23.98p HEVC 150M: Average 150Mbps (VBR)
		MOV	[4:2:0 8bit] UHD 3840x2160 59.94p/50.00p 150M: Average 150Mbps (VBR) UHD 3840x2160 29.97p/25.00p/23.98p 100M: Average 100Mbps (VBR) [4:2:2 10bit] UHD 3840x2160 29.97p/25.00p/23.98p 150M: Average 150Mbps (VBR) FHD 1920x1080 59.94p/50.00p 200M (ALL-Intra): Average 200Mbps (VBR) FHD 1920x1080 29.97p/25.00p/23.98p 100M (ALL-Intra): Average 100Mbps (VBR) FHD 1920x1080 59.94i/50i 100M (ALL-Intra): Average 100Mbps (VBR) FHD 1920x1080 59.94p/50.00p 100M: Average 100Mbps (VBR) FHD 1920x1080 29.97p/25.00p/23.98p/59.94i/50.00i 50M: Average 50Mbps (VBR)
		MP4 (HEVC)	[4:2:0 10bit] UHD 3840x2160 59.94p/50.00p HEVC 100M: Average 100Mbps (VBR)

			UHD 3840x2160 29.97p/25.00p/23.98p HEVC 72M: Average 72Mbps (VBR)
		MP4	[4:2:0 8bit] UHD 3840x2160 29.97p/25.00p/23.98p 72M: Average 72Mbps (VBR) FHD 1920x1080 59.94p/50.00p/23.98p 50M: Average 50Mbps (VBR)
		AVCHD	[4:2:0 8bit] PS 1920x1080 59.94p/50.00p: Average 25Mbps (VBR) PH 1920x1080 59.94i/50.00i/23.98p: Average 21Mbps (VBR) HA 1920x1080 59.94i/50.00i: Average 17Mbps (VBR) PM 1280x720 59.94p/50.00p: Average 8Mbps (VBR)
		P2	—
LIVE STREAMING		Video Compression Format	H.264/MPEG-4 AVC Main Profile, High Profile
		Video Resolution	1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 320 x 180
		Streaming Method	Unicast, Multicast
		Frame Rate	System frequency = 59.94 Hz: 30 fps, 60 fps System frequency = 50.00 Hz: 25 fps, 50 fps
		Bit Rate	24 Mbps, 20 Mbps, 16 Mbps, 14 Mbps, 8 Mbps, 6 Mbps, 4 Mbps, 3 Mbps, 2 Mbps, 1.5 Mbps, 1 Mbps, 0.7 Mbps, 0.5 Mbps
		Audio Compression Format	AAC-LC, 48 kHz/16 bit, 2ch
		Network Protocol	RTSP/RTP/RTMP/RTMPS
STILL IMAGE SECTION		Recording Format	JPEG (DCF/Exif2.2)
		Recording Image Size*	Video Playback Mode: 3840 x 2160 (16:9), 1920 x 1080 (16:9), 1280 x 720 (16:9)
GENERAL SECTION	Power Supply		7.28V (Battery) / 12V (AC Adaptor)
	Power Consumption		15.5W (LCD Monitor)
	Dimensions (W x H x D)		Approx. 129 x 159 x 257 mm (5.08 x 6.26 x 10.1 inch)
	Weight		Body: approx. 0.9kg (1.98 lb) (body only, excluding handle, lens hood, battery, and accessories) Shooting: approx. 1.5kg (3.31 lb) (including handle, lens hood, battery, and eyecup)
	LCD Monitor		8.88 cm (3.5-inch) Wide LCD monitor (About 2,760,000 dots) (For Europe) 3.5-inch Wide LCD monitor (About 2,760,000 dots) (For North America / Asia)

	Viewfinder		0.61 cm (0.24-inch) Wide EVF (About 1,560,000 dots) (For Europe) 0.24-inch Wide EVF (About 1,560,000 dots) (For North America / Asia)
	Manual Ring		Focus / Zoom or Iris
	Accessory Shoe		Yes
	LED Video Light	Average Illumination	Approx. 70 lx (1.0m)
		Irradiation Angle	Approx. 30°
		Color Temperature	Approx. 4600K
INTERFACE SECTION	Video	SDI OUT	BNC x 1, 0.8V[p-p], 75Ω, 3G/1.5G HD-SDI supported Output format: 1080/59.94p LEVEL-A/50.00p LEVEL-A, 1080/29.97PsF/25.00PsF/23.98PsF, 1080/59.94i/50.00i, 720/59.94p/50.00p
		HDMI	Type A x 1 (VIERA Link not supported) Output format: 2160/59.94p/50.00p/29.97p/25.00p/23.98p, 1080/59.94p/50.00p/29.97p/25.00p/23.98p/59.94i/50.00i, 720/59.94p/50.00p, 480/59.94p, 576/50.00p
	Audio Input	Built-in Microphone	Stereo microphone
		Microphone Input	3.5mm stereo mini jack x 1
		XLR Input	XLR (3 pins) x 2 Input high impedance, LINE/MIC/MIC+48 V (switchable SW) LINE: +4dBu/0dBu (switchable menu) MIC: -40dBu/-50dBu/-60dBu (switchable menu)
	Audio Output	SDI	2 ch (LPCM) Gain: 0dB/-6dB/-8dB
		HDMI	2 ch (LPCM 24bit)
		Headphone	3.5 mm diameter stereo mini jack x 1
		Speaker	15 mm diameter, round x 1