



**HC-X20 professionell 4K-videokamera**

**SENSOR SECTION**

<b>Image Sensor</b>	1.0-type MOS Sensor
<b>Effective Pixels</b>	15.03 megapixels
<b>Latitude</b>	—

**LENS SECTION**

<b>F Value</b>	F2.8 — 4.5
<b>Optical Zoom</b>	20x
<b>Focal Length</b>	8.8 — 176 mm
<b>35 mm Film Camera Equivalent</b>	24.5 — 490 mm
<b>Filter Diameter</b>	67 mm
<b>Lens Brand</b>	Panasonic Lens

**CAMERA SECTION**

<b>Minimum Illumination</b>	0.6 lx (F2.8, Super Gain+, Shutter Speed 1/30 sec)	
<b>Focus</b>	Auto / Manual	
<b>Zoom</b>	<b>i.Zoom OFF</b>	20x
	<b>i.Zoom ON</b>	Max. 32x (UHD 24x)
	<b>Digital Zoom</b>	2x / 5x / 10x
<b>ND Filter</b>	Clear, 1/4, 1/16, 1/64	
<b>IR Filter</b>	Incorporates the ON/OFF control function	

<b>White Balance</b>	Auto / ATW LOCK / 3200K / 5600K / VAR (2000K—15000K) / Ach Fixed / Bch Fixed	
<b>Shutter Speed</b>	<b>59.94 Hz mode</b>	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
	<b>50.00 Hz mode</b>	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
<b>Slow Shutter Speed</b>	<b>59.94 Hz mode</b>	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
	<b>50.00 Hz mode</b>	50i/50p: 1/6, 1/12, 1/25 sec 25p: 1/6, 1/12 sec
<b>Synchro Scan</b>	<b>59.94 Hz mode</b>	59.94i/59.94p: 1/60.0 — 1/249.6 sec 29.97p: 1/30.0 — 1/249.8 sec 23.98p: 1/24.0 — 1/249.7 sec
	<b>50.00 Hz mode</b>	50i/50p: 1/50.0 — 1/250.0 sec 25p: 1/25.0— 1/250.0 sec
<b>VFR Recording Frame Rate</b>	<b>59.94 Hz mode</b>	2, 12, 15, 20, 22, 24, 26, 28, 30, 32, 34, 36, 45, 48, 60 fps
	<b>50.00 Hz mode</b>	2, 12, 21, 23, 25, 27, 30, 37, 50 fps
<b>Super Slow Recording Frame Rate</b>	<b>59.94 Hz mode</b>	FHD 120 fps (1/2 speed at 60p, 1/4 speed at 30p, 1/5 speed at 24p)
	<b>50.00 Hz mode</b>	FHD 100 fps (1/2 speed at 50p, 1/4 speed at 25p)
<b>Iris</b>	Auto / Manual	
<b>Image Stabilizer</b>	Ball O.I.S., 5-Axis HYBRID O.I.S.+ (UHD/FHD)	

## RECORDING SECTION

<b>Recording Media</b>	SDHC/SDXC Memory Card, UHS-I compatible
<b>Recording Format</b>	MOV, MP4, AVCHD
<b>Video Compression Method</b>	MOV(HEVC)/MP4(HEVC): H.265/MPEG-4 HEVC Main10 Profile MOV, MP4: H.264/MPEG-4 AVC High Profile AVCHD: H.264/MPEG-4 AVC High Profile
<b>Audio Compression Method</b>	MOV: LPCM, 48kHz/24bit, 2ch MP4: AAC, 48kHz/16bit, 2ch

AVCHD: Dolby Audio, 48kHz/16bit, 2ch

<b>2-slot Function</b>	Relay recording, simultaneous recording, background recording	
<b>System Frequency</b>	59.94Hz / 50.00Hz	
<b>Recording / Playback Mode</b>	<b>MOV (HEVC)</b>	[4:2:0 10bit] UHD 3840x2160 59.94p/50.00p HEVC LongGOP 200M: Average 200Mbps (VBR) UHD 3840x2160 59.94p/50.00p HEVC LongGOP 100M: Average 100Mbps (VBR) UHD 3840x2160 29.97p/25.00p/23.98p HEVC LongGOP 150M: Average 150Mbps (VBR)
	<b>MOV</b>	[4:2:0 8bit] UHD 3840x2160 59.94p/50.00p 420LongGOP 150M: Average 150Mbps (VBR) UHD 3840x2160 29.97p/25.00p/23.98p 420 LongGOP 100M: Average 100Mbps (VBR) [4:2:2 10bit] UHD 3840x2160 29.97p/25.00p/23.98p 422 LongGOP 150M: Average 150Mbps (VBR) FHD 1920x1080 59.94p/50.00p ALL-I 200M: Average 200Mbps (VBR) FHD 1920x1080 59.94i/50.00i ALL-I 100M: Average 100Mbps (VBR) FHD 1920x1080 29.97p/25.00p/23.98p ALL-I 100M: Average 100Mbps (VBR) FHD 1920x1080 59.94p/50.00p 422 LongGOP100M: Average 100Mbps (VBR) FHD 1920x1080 59.94i/50.00i/29.97p/25.00p/23.98p 422 LongGOP 50M: Average 50Mbps (VBR)
	<b>MP4 (HEVC)</b>	[4:2:0 10bit] UHD 3840x2160 59.94p/50.00p HEVC LongGOP 100M: Average 100Mbps (VBR) UHD 3840x2160 29.97p/25.00p/23.98p HEVC LongGOP 72M: Average 72Mbps (VBR)
	<b>MP4</b>	[4:2:0 8bit] UHD 3840x2160 29.97p/25.00p/23.98p 420 LongGOP 72M: Average 72Mbps (VBR) FHD 1920x1080 59.94p/50.00p/23.98p 420 LongGOP 50M: Average 50Mbps (VBR)
	<b>AVCHD</b>	[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)

## DUAL CODEC SECTION

<b>Recording Format</b>	—	
<b>Video Compression Method</b>	—	
<b>Audio Compression Method</b>	—	
<b>Recording format</b>	<b>FHD 50Mbps</b>	—
	<b>FHD 8Mbps</b>	—

## LIVE STREAMING

<b>Video Compression Format</b>	H.264/MPEG-4 AVC Main Profile, High Profile
<b>Video Resolution</b>	1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 320 x 180
<b>Streaming Method</b>	Unicast, Multicast
<b>Frame Rate</b>	System frequency = 59.94 Hz: 60 fps, 30 fps, 24 fps System frequency = 50.00 Hz: 50 fps, 25 fps
<b>Bit Rate</b>	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
<b>Audio Compression Format</b>	AAC-LC, 48 kHz/16 bit, 2ch
<b>Network Protocol</b>	RTSP/RTP/RTMP/RTMPS

## STILL IMAGE SECTION

<b>Recording Format</b>	JPEG (DCF/Exif2.2)
<b>Recording Image Size*</b>	Video Playback Mode: 3840 x 2160 (16:9), 1920 x 1080 (16:9), 1280 x 720 (16:9)

## GENERAL SECTION

<b>Power Supply</b>	7.28V (Battery) / 12V (AC Adaptor)
<b>Power Consumption</b>	18.5W (LCD Monitor)
<b>Dimensions (W x H x D)</b>	Approx. 171 x 195 x 343 mm (6.74 x 7.68 x 13.51 inch) (including lens hood, excluding eye cup and microphone holder)
<b>Weight</b>	Approx. 2000g (4.41 lb) (main unit only (including grip belt), excluding lens hood, battery, and supplied accessories) Approx. 2430g (5.36 lb) (including lens hood, supplied battery, eye cup, two SD cards, microphone holder and INPUT terminal caps)
<b>LCD Monitor</b>	8.8 cm (3.5-inch) Wide LCD monitor (About 2,760,000 dots)
<b>Viewfinder</b>	1.0 cm (0.39-inch) Wide OLED EVF (About 2,360,000 dots), video display area: About 1,770,000 dots
<b>Manual Ring</b>	Focus / Zoom / Iris
<b>Accessory Shoe</b>	Yes

## INTERFACE SECTION

<b>Video</b>	<b>SDI OUT</b>	—
	<b>HDMI</b>	Type A x 1 (VIERA Link not supported), supports time code output and remote recording control Output format: 4:2:2 10bit 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

<b>Audio Input</b>	<b>Built-in Microphone</b>	Stereo microphone
	<b>Audio Input</b>	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)
<b>Audio Output</b>	<b>SDI OUT</b>	—
	<b>HDMI</b>	2 ch (LPCM)
	<b>Headphone</b>	3.5 mm diameter stereo mini jack x 1
	<b>Speaker</b>	20 mm diameter, round x 1
<b>Other Input/Output</b>	<b>TC IN/OUT</b>	—
	<b>Camera Remote</b>	2.5mm diameter super mini jack x 1
	<b>USB</b>	Type-C x 1, USB3.1 Gen 1, HOST/DEVICE (switchable menu) HOST: Bus power supported (5V, 0.9A), USB ethernet adaptor supported DEVICE: mass storage function (read only)
	<b>LAN</b>	—
	<b>DC IN</b>	DC 12V (11.4V — 12.6V) EIAJ Type4

## Wi-Fi

<b>Standard</b>	IEEE 802.11b/g/n
<b>Frequency</b>	2412 MHz to 2462 MHz [1 to 11ch]

## STANDARD ACCESSORY

<b>AC Adaptor</b>	Yes
<b>AC Cable</b>	Yes
<b>Rechargeable Battery Pack</b>	Yes (5,900mAh)
<b>Battery Charger</b>	Yes
<b>IR Remote</b>	—
<b>HDMI Cable</b>	—
<b>AV Cable</b>	—
<b>USB HOST Conversion Cable</b>	—

<b>USB Ethernet Adaptor</b>	—
<b>Microphone Holder</b>	Yes
<b>Microphone Holder Screws</b>	Yes
<b>Input Terminal Cap</b>	Yes
<b>Eye Cup</b>	Yes
<b>Lens Hood</b>	Yes
<b>Editing Software</b>	—
<b>Note</b>	* Only images cut from video in video playback mode are supported.

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