



**HD Camcorder**

## **AG-HMC81**

Shoulder mount HD broadcast camcorder with memory card recording

### **Key Features**

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1/4-type 3MOS sensors

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12x optical zoom

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Tapeless recording

# AG-HMC81

<https://eu.connect.panasonic.com/sk/en/products/broadcast-proav/ag-hmc81>

<b>Power Supply</b>	DC 7.2 V (when the battery is used) DC 7.3 V (when the AC adaptor is used)
<b>Power Consumption</b>	11 W
<b>Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Operating Humidity</b>	10 % to 80 % (No condensation)
<b>Weight</b>	Approx. 3.2 kg (camera recorder only) Approx. 3.3 kg (including SD Memory Cards, supplied battery)
<b>Dimensions (W x H x D)</b>	267 mm x 233 mm x 458 mm excluding the projection part
<b>Pickup Devices</b>	3MOS (1/4.1-inch progressive modes supported)
<b>Picture Elements</b>	Total: Approx. 3.05 megapixels x 3  Effective (video): Approx. 2.51 megapixels x 3 (16:9) Effective (still image): Approx. 2.32 megapixels x 3 (4:3), Approx. 2.65 megapixels x 3 (3:2), Approx. 2.51 megapixels x 3 (16:9)
<b>Lens</b>	Lens with optical image stabiliser, motorised/manual mode switching  12x zoom, F1.8 to 2.8 (f=4.0 mm to 48 mm) 35 mm equivalent (video): 40.8 mm to 490 mm (16:9)  35 mm equivalent (still image): 41.3 mm to 496 mm (3:2), 40.8 mm to 490 mm (16:9), 45.0 mm to 540 mm (4:3)
<b>Filter Diameter</b>	43 mm
<b>Optical Colour Separation</b>	Prism system
<b>ND Filter</b>	Automatic On/Off interlock with iris
<b>Minimum Shooting Distance</b>	Approx. 0.9 m
<b>Gain Settings</b>	[Motion image] 0 dB to 24 dB (Variable in 1 dB step; USER button allocation; up to 34 dB using the High gain setting) [Still image] 0 dB to 18 dB (Variable in 1 dB step)
<b>White Balance</b>	ATW, ATW LOCK, preset 3200K, preset 5600 K, Ach or Bch
<b>Shutter Speed (Preset)</b>	[Motion Image] 50i/50p mode: 1/50 sec. to 1/2000 sec. (7 steps) 25p mode 1/25 sec. to 1/2000 sec (8 steps) [Still Image] 1/2 sec. to 1/2000 sec (16 steps)
<b>Shutter Speed (Synchro Scan)</b>	50i/50p mode: 1.50.0 sec. to 1/250.0 sec.  25p mode: 1/25.0 sec. to 1/250.0 sec.
<b>Slow Shutter Speed</b>	50i/50p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec., 1/25 sec.  25p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.
<b>Minimum Luminance</b>	Approx. 1 lx (Gain: 34dB, Slow Shutter: 1/2 sec.)
<b>Digital Zoom</b>	2x/5x/10x (Assigned to the USER button, for switching zoom levels.  Only available for 1080/50i, 720/50p, 576/50i)
<b>Recording Format</b>	AVCHD
<b>Compression Method</b>	MPEG-4 AVC/H.264
<b>Recording Media*1</b>	SD Memory Card: 512 MB, 1 GB, 2 GB (FAT12, FAT16) SDHC Memory Card: 4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 32 GB (FAT32)
<b>Transmission Rate</b>	PH mode: Approx. 21 Mbps (VBR) HA mode: Approx. 17 Mbps (VBR), HG mode: Approx. 13 Mbps (VBR) HE mode: Approx. 6 Mbps (VBR)
<b>Interval Recording*2</b>	1sec. / 10 sec. / 30 sec. / 1 min. / 2 min. / OFF
<b>Recording Time</b>	Approx.180 minutes in (PH mode 1920 x 1080 and using a 32 GB SDHC Memory Card)
<b>SD Memory Card</b>	Max. recordable clips per card: 900 (after formatting, without removing/inserting the card) Max. playable clips: 1,000 (up to 1,000 clips displayed)
<b>Thumbnail View</b>	9 frames/page
<b>Editing Functions</b>	Delete, write-protect
<b>Formatting Function</b>	Yes
<b>File Format</b>	AVI Type2
<b>Recording Media *3</b>	SD Memory Card: 512 MB, 1 GB, 2 GB (FAT12, FAT16) SDHC Memory Card: 4 GB, 8 GB, 16 GB, 32 GB (FAT32)
<b>Recording Video Format</b>	576/50i, 576/25p (over 50)
<b>Recording Time *3</b>	Approx. 128 minutes (in DV mode, using a 32 GB SDHC Memory Card)
<b>Interval Recording*4</b>	1sec. / 10sec. / 30sec. / 1min. / 2min. /OFF
<b>Recording Media</b>	SD Memory Card: 8MB, 16MB, 32MB, 64MB, 128MB, 512MB, 1GB, 2GB (FAT12, FAT16) SDHC Memory Card: 4 GB, 8 GB, 16 GB, 32 GB (FAT32)
<b>Recording Pixels</b>	[4:3] 9 megapixels / 8 megapixels / 5 megapixels / 0.3 megapixels  [3:2] 10.6 megapixels / 7 megapixels / 4.5 megapixels  [16:9] 10 megapixels / 6 megapixels / 3.5 megapixels
<b>Quality</b>	Fine/Normal
<b>Flash Function</b>	No
<b>Number of Recordable Still Pictures*6 (Approx.)</b>	[4:3] 6030 (9M 3520 x 2640 pixels)*7  [3:2] 5300 (10.6M 3984 x 2656 pixels)*7  [16:9] 5580 (10M 4224 x 2376 pixels)*7
<b>Video Signals</b>	576/50i
<b>HDMI Output</b>	HDMI x 1 (HDMI Type A terminal), 1080/50i, 720/50p, 576/50p  (Not compatible with VIERA Link)
<b>Component Output</b>	BNC x 3, Y: 1.0 V [p-p], 75 Ω, PB/PR: 0.7 V [p-p], 75 Ω
<b>Composite Output*8</b>	BNC x 1, 1.0 V [p-p], 75Ω
<b>Sampling Frequency</b>	48 kHz
<b>Compression Bit-Rate</b>	PH mode: 384 kbps  HA, HG and HE mode: 256 kbps
<b>Quantization</b>	16 bit
<b>Internal Microphone</b>	Stereo microphone
<b>XLR Input</b>	XLR (3 pin) x 2 (CH1, CH2), High impedance LINE/MIC switching,  LINE: 0 dBu, MIC: -50/-60 dBu (menu switching), MIC + 48 V ON/OFF (switching)
<b>Audio Output</b>	output: 316 mV, 600 Ω½, pin jack _ 2 (CH1, CH2)
<b>HDMI Output (AVCHD Mode Only)</b>	2ch Linear PCM/5.1ch (Dolby Digital)
<b>Headphone</b>	Stereo mini jack (3.5mm diameter) x 1, -16 dBV (with 32 Ω½ load, Monitor VR max)
<b>Internal Speaker</b>	20 mm (round) _ 1
<b>External Microphone Input</b>	-70 dBV (Mic sensitivity: -50 dB equivalent, 0 dB=1 V/Pa 1 kHz) Stereo mini jack (3.5 mm diameter) (not compatible with plug-in power microphone)
<b>USB (AVCHD Mode Only)</b>	Card reader function (no copyright protection support) USB Type B connector, USB 2.0-compliant, PictBridge-compatible
<b>Camera Remote</b>	Super mini jack (2.5 mm diameter) (ZOOM, S/S) Mini jack (3.5 mm diameter) (FOCUS, IRIS)

<b>DV (DV Mode Only)</b>	6 pin (IEEE 1394 format compliant), digital input/output
<b>LCD Monitor</b>	6.9 cm (2.7 inch) wide-type LCD colour monitor (approx. 230,000 pixels)
<b>Accessories</b>	AC adaptor/charger, 2640 mAh battery pack (secure type), AC cable, DC cable (catch type) Wireless remote controller with button-type battery, Eye cup, Shoulder Strap,  CD-ROM, AVCCAM Restorer (Windows PC/Mac) The following accessories are attached to the unit: Large-sized lens hood with wide angle of view, Lens hood cap, XLR audio adaptor cap *1: SDHC/SD Memory Card (8 MB to 32 GB) can be used for storing/reading scene file and user file, and reading metadata/ SDXC Memory Cards cannot be used with this product. *2: Records only in PH mode 1080/25p. The maximum recording interval is 24 hours. SDHC Memory Cards cannot be used with this product. *3: A Class 6 or higher SDHC or SD Memory card is required for DV recording *4: Records only 576/50i. The maximum recording interval is 24 hours. *5: Still shot is not available in DV mode. *6: The number of recordable still pictures varies depending on the subject and whether both Fine and Normal mode pictures are included. *7: Fine mode, using a 32 GB SDHC Memory Card. *8: Shares analogue component terminal (Y terminal) (SW switching). Analog component signals and composite signals cannot be output at the same time.