

High-Powered Lens, High-Sensitivity Sensor and High-Quality Full-HD 10 Bit 4:2:2 Recording - Shoulder-Type Performance in a Handheld Camera for Broadcasting and Production Work

AG-HPX250

HD Handheld Broadcast Camcorder

KEY FEATURES

- Flash Band Compensation
- Dynamic Range Stretch
- 2X Focus Assist function

- Progressive-compatible U.L.T. (Ultra Luminance Technology) image sensor (1/3-type 2.2-megapixel 3MOS sensor)
- 22x Zoom Lens with Wide Coverage from Wide-Angle to Telephoto
- Full P2HD Image Quality with AVC-Intra Codec Recording
- High-End Operation with Multi-Camera Synchronizing and VFR Recording
- 4-position (clear, 1/4 ND, 1/16 ND, 1/64 ND) optical neutral density filter wheel

The AG-HPX250 Memory Card Camera Recorder is a new handheld model for Panasonic's broadcasting and professional P2HD Series. Incorporating new technology in the lens, camera section and recorder section, this compact unit offers a level of performance that approaches full-size, shoulder-type broadcasting camera recorders. It's also the first handheld model to support AVC-Intra codecs.

Combined with the high-sensitivity, low-noise, 1/3-type 2.2-megapixel U.L.T. (Ultra Luminance Technology) 3MOS image sensor, it enables high-quality recording of Full-HD (1920 x 1080), 10 bit, 4:2:2 full sample broadcast-level images. In addition to covering a wide range, from wide-angle to telephoto, the lens is provided with three rings - a cam-type zoom ring, a focus ring and an iris ring - for the same kind of manual operation that you get with

interchangeable lenses.

The AG-HPX250 also features GENLOCK input and TC input/output for synchronizing multiple cameras. Together with HD SDI output, this provides smooth operation in a live relay and recording system for multi-camera broadcasting and production work. A variable frame rate (VFR) function for slow-motion and quick-motion images, and a cine-like gamma setting also bring versatile expression to all kinds of image production. This stunning image quality, operating ease and handheld camera mobility work together to open a new dimension in news gathering and image recording.

Please [click here](#) for a list of operation manuals to download.

SPECIFICATIONS

Supply Voltage	DC 7.2 V (when the battery is used) DC 7.9 V (when the AC adaptor is used)
Power Consumption	15.0 W (when the LCD monitor is used)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	10% to 80% (no condensation)
Weight	Approx. 2.5 kg (5.5 lb) excluding battery and accessories
Dimensions (W x H x D)	180 mm x 195 mm x 438 mm (7 inches x 7-11/16 inches x 17-1/4 inches) excluding battery, accessories and protrusions
Pickup Devices	1/3-type progressive, 2.2-megapixel, 3MOS sensor
Effective Pixels	1920 (H)x1080 (V)
Lens	Optical image stabilizer lens, 22x motorized zoom, F1.6 - 3.2 (f=3.9 mm - 86 mm), 35 mm conversion: 28 mm - 616 mm (16:9)
Filter Diameter	72 mm
Optical System	Prism color separation
ND Filter	OFF, 1/4, 1/16, 1/64
Minimum Shooting Distance	Approx. 1 m
Hood	Large-sized lens hood with wide angle of view
Gain Settings	0/+3/+6/+9/+12/+15/+18/+24/+30 dB, (+24 dB, +30 dB: USER SW allocation only)
Shutter Speed Settings	60i/60p mode: 1/60 (OFF), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. 30p mode: 1/30 (OFF), 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. 24p mode: 1/24 (OFF), 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. 50i/50p mode: 1/50 (OFF), 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. 25p mode: 1/25 (OFF), 1/50, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec.
Slow Shutter	60i/60p mode: 1/15 sec., 1/30 sec. 30p mode: 1/7.5 sec., 1/15 sec. 24p mode: 1/6 sec., 1/12 sec. 50i/50p mode: 1/12.5 sec., 1/25 sec. 25P mode: 1/6.25 sec., 1/12.5 sec.
Synchro Shutter	60i/60p mode: 1/60.0 sec. to 1/249.8 sec. 30p mode: 1/30.0 sec. to 1/249.8 sec. 24p mode: 1/24.0 sec. to 1/249.8 sec. 50i/50p mode: 1/50.0 sec. to 1/250.0 sec. 25p mode: 1/25.0 sec. to 1/250.0 sec.
Shutter Opening Angle	3 degrees to 359.5 degrees in 0.5 degree increments
Frame Rates	59.94 Hz mode: 1080p: 1/2/4/6/9/12/15/18/20/21/22/24/25/26/ 27/28/30 fps (frames per second) 17 step 720p: 1/2/4/6/9/12/15/18/20/21/22/24/25/26/ 27/28/30/32/34/36/40/44/48/54/60 fps, 25 step 50 Hz mode:

	1080p: 1/2/4/6/9/12/15/18/20/21/22/23/24/25 fps (frames per second) 14 step 720p: 1/2/4/6/9/12/15/18/20/21/22/23/24/25/ 26/27/28/30/32/34/37/42/45/48/50 fps, 25 step
Sensitivity	59.94 Hz mode: (at 2000 lx, 3200 K, 89.9% reflection) F7 (1080/59.94i, P.A.P FILTER: TYPE2) F10 (1080/59.94i, P.A.P FILTER: TYPE1) 50 Hz mode: (at 2000 lx, 3200 K, 89.9% reflection) F8 (1080/50i, P.A.P FILTER: TYPE2) F11 (1080/50i, P.A.P FILTER: TYPE1)
Minimum Illumination	0.2 lx (F1.6, Gain +30 dB, shutter speed 1/30 sec., P.A.P FILTER: TYPE1)
Digital Zoom	x2, x5, x10
Recording Media	P2 card
Recording Formats	AVC-Intra 100/AVC-Intra 50/DVCPRO HD/ DVCPRO50/DVCPRO/DV formats switchable
Recording/Playback Time*1 (with a 64GB P2 Card)	AVC-Intra 100/DVCPRO HD: approx. 64 min AVC-Intra 50/DVCPRO50: approx. 128 min DVCPRO/DV: approx. 256 min
Recording/Playback Time*1 (with a 32GB P2 Card)	AVC-Intra 100/DVCPRO HD: approx. 32 min AVC-Intra 50/DVCPRO50: approx. 64 min DVCPRO/DV: approx. 128 min
Recording/Playback Time*1 (with a 16GB P2 Card)	AVC-Intra 100/DVCPRO HD: approx. 16 min AVC-Intra 50/DVCPRO50: approx. 32 min DVCPRO/DV: approx. 64 min
Recorded Video Signals	1080/59.94i, 1080/29.97p, 1080/29.97pN, 1080/23.98p, 1080/23.98pA, 1080/23.98pN, 720/59.94p, 720/29.97p, 720/29.97pN, 720/23.98p, 720/23.98pN, 480/59.94i, 480/29.97p, 480/23.98p, 480/23.98pA, 1080/50i, 1080/25p, 1080/25pN, 720/50p, 720/25p, 720/25pN, 576/50i, 576/25p
Sampling Frequency	AVC-Intra 100/DVCPRO HD: Y: 74.1758 MHz, PB/PR: 37.0879 MHz (59.94 Hz) Y: 74.2500 MHz, PB/PR: 37.1250 MHz (50 Hz) DVCPRO50: Y: 13.5 MHz, PB/PR: 6.75 MHz DVCPRO: Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantizing	AVC-Intra 100/AVC-Intra 50: 10 bits DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits
Video Compression	AVC-Intra 100/AVC-Intra 50: MPEG-4 AVC/H.264 Intra Profile DVCPRO HD: DV-Based Compression (SMPTE 370M) DVCPRO50/DVCPRO: DV-Based Compression (SMPTE 314M) DV: DV Compression (IEC 61834-2)
Recording Audio Signal	AVC-Intra 100/AVC-Intra 50/DVCPRO HD: 48 kHz/16 bits, 4CH DVCPRO50: 48 kHz/16 bits, 4CH DVCPRO/DV: 48 kHz/16 bits, 2CH/4CH switchable
Genlock In	BNC x 1, 1.0 V [p-p], 75ohms
Video Output	Pin jack x 1, 1.0 V [p-p], 75ohms
SDI Out	BNC x 1, 0.8 V [p-p], 75ohms, HD/SD switching via menu, 10 bit 4:2:2 via camera through out
HDMI Out	HDMI TypeA
Built-In MIC In	Supports stereo microphones
Audio In	XLR 3 pin x 2 (INPUT 1, INPUT 2) LINE/MIC/+48 V switchable, LINE: 0 dBu, MIC: -40 dBu/-50d Bu/-60 dBu switching via menu
Audio Out	Pin jack x 2 (CH1/CH2), Output: 316 mV, 600 ohms
Headphone	-3.5 mm stereo mini jack x 1
Internal Speaker	20 mm diameter x 1
Remote	10 pin, for AG-EC4G (AG-HPX255 only)

TC In/Out	BNC x 1, IN: 0.5 V [p-p] to 8 V [p-p], 10 k ohms OUT: low impedance, 2.0±0.5 V [p-p]
Cam Remote	2.5 mm diameter, Super mini jack x 1 (ZOOM, S/S) 3.5 mm diameter Mini jack x 1 (FOCUS, IRIS)
IEEE 1394 *2	6 pin, digital input/output (compliant with IEEE 1394)
USB 2.0 (Device)*2	Type-miniB, 4 pin USB (compliant with USB ver. 2.0)
USB 2.0 (Host)*2	Type-A, 4 pin USB (compliant with USB ver. 2.0)
LCD Monitor	87.63 mm (3.45 inches) color LCD monitor with approx. 921,000 dots (16:9)
EVF	11.43 mm (0.45 inches) color LCD monitor with approx. 1,226,000 dots (16:9)
Included Accessories	AC adaptor Battery charger, AC cord, DC cord, 5400 mAh battery pack, Wireless remote controller with button-type battery, Microphone holder, Eye cup, Shoulder strap, P2 card driver software install CD-ROM
Note	*1: The Recording/playback times listed are continuously recorded time as one clip. The number of recording clips may reduce the recording time. *2: AG-HPX255EJ/HPX250EJ don't support input via IEEE 1394 and USB 2.0. Weight and dimensions are approximate. Specifications are subject to change without notice.

URL: <https://business.panasonic.co.uk/professional-camera/camera-recorder/ag-hpx250>

CONTACT

Web: <https://business.panasonic.co.uk/professional-camera/contact-us>