



High quality HD Camcorder

AG-AC160A

AVCCAM Model with Better Zooming, Greater Sensitivity and Higher Image Quality. Full-HD Slow-/Quick-Motion Recording Supported

Key Features

High-Sensitivity, High-Image-Quality U.L.T. Image Sensor

22x zoom lens

Selectable high quality



AG-AC160A

<https://eu.connect.panasonic.com/cz/en/products/broadcast-proav/ag-ac160a>

General

Power Supply DC 7.2 V (when the battery is used)
DC 7.3 V (when the AC adaptor is used)

Power Consumption 11.8 W (recording)

Operating Temperature 0 °C to 40 °C (32 °F to 104 °F)

Operating Humidity 10 % to 80 % (no condensation)

Weight Approx. 2.4 kg (5.3 lb)

(excluding the battery and accessories)

Dimensions 180 mm (W) x 195 mm (H) x 438 mm (D)

(7 inches x 7-11/16 inches x 17-1/4 inches)

(excluding protruding parts)

Camera

Pickup Devices 1/3-type progressive, 2.2 megapixel,
3MOS sensors

Lens Optical image stabilizer lens, 22x motorized zoom,
F1.6 to 3.2 (f=3.9 mm to 86 mm)

35 mm conversion: 28 mm to 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 (39-3/8 inches)

Gain Settings 0/3/6/9/12/15/18/24*/30* dB

*Assigned to the USER button (S.GAIN)

Color Temperature Settings ATW, ATW LOCK, preset 3200 K, preset 5600 K, preset VAR, Ach, Bch

Digital Zoom 2x/5x/10x, assigned to the USER button

Minimum Illumination 0.4 lx

(F1.6, gain +30 dB, shutter speed 1/30 seconds)

Shutter Speed (Preset) [59.94 Hz*1]

60i/60p mode: 1/60 sec. to 1/2000 sec. (7 steps)

30p mode: 1/30 sec. to 1/2000 sec. (8 steps)

24p mode: 1/24 sec. to 1/2000 sec. (8 steps)

[50 Hz]

50i/50p mode: 1/50 sec. to 1/2000 sec. (7 steps)

25p mode: 1/25 sec. to 1/2000 sec. (8 steps)

Shutter Speed (Synchro Scan) [59.94 Hz*1]

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.

Opening Angle:

3.0 d - 180.0 d - 360.0 d, 0.5 degrees step

[50 Hz]

50i/50p mode: 1/50.0 sec. to 1/250.0 sec.

25p mode: 1/25.0 sec. to 1/250.0 sec.

Opening Angle:

3.0 d - 180.0 d - 360.0 d, 0.5 degrees step

Shutter Speed (Slow) [59.94 Hz*1]

60i/60p mode: 1/8 sec., 1/15 sec., 1/30 sec.

30p mode: 1/8 sec., 1/15 sec.

24p mode: 1/6 sec., 1/12 sec.

[50 Hz]

50i/50p mode: 1/6 sec., 1/12 sec., 1/25 sec.

25p mode: 1/6 sec., 1/12 sec.

*Only when the VFR MODE is OFF in the SCENE FILE screen

Memory Card Recorder	
Recording Format	AVCHD Ver. 2.0 standard (AVCHD Progressive) DV standard (AVI Type2)
Recording Media	SD memory card (FAT12, FAT16):512 MB, 1 GB, up to 2 GB SDHC memory card (FAT32):4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 32 GB SDXC memory card (exFAT):48 GB, 64 GB, up to 2 TB *However, memory cards above Class 4 are supported in PH/HA mode, memory cards above Class 2 are supported in PM/HE/CH mode, and memory cards above Class 6 are supported in PS mode, during VFR recording and DV mode.
Video/Audio Recording Specification (AVCHD)	
Recording Video Signals (59.94Hz)	PS mode: 1080/59.94p*1 PH mode: 1080/59.94i*1, 1080/29.97p*1,1080/23.98pN*2, 720/59.94p*1,720/29.97p*1, 720/23.98pN*2 PM mode: 720/59.94p*1 HA/HE/CH mode: 1080/59.94i*1
Recording Video Signals (50Hz)	PS mode: 1080/50p, PH mode: 1080/50i, 1080/25p, 720/50p, 720/25p PM mode: 720/50p, HA/HE/CH mode: 1080/50i
Interval Recording	OFF/1 sec./10 sec./30 sec./1 min./2 min. interval,maximum 168 hours (1 week) recording *For the recording mode, PH 1080/24p or PH 1080/25p fixed
Variable Frame Rate	1080/24p, 1080/30p: 2*/6/9/12/15/18/20/21/22/24/25/26/27/28/30/32/34/36/40/44/48/54/60 fps (frames per second) 1080/25p: 2*/6/9/12/15/18/20/21/22/23/24/25/26/27/28/30/32/34/37/42/45/48/50 fps (frames per second) * Fixed on 0 dB gain and manual focus mode
Audio Recording Signal	48 kHz/16 bit
Digital Audio Format (PS/PH Mode)	Linear PCM 2 CH/Dolby Digital 2 CH, switchable PM/HA/HE/CH mode:Dolby Digital, 2 CH
Audio Bit Rate	PS/PH mode: 384 kbps PM/HA/HE/CH mode: 256 kbps
DV Recording Specification	
Recording Video Signals (DV)	[59.94 Hz*1] 480/59.94i*1, 480/29.97p*1, 480/23.98p*1 [50 Hz] 576/50i, 576/25p
Audio Recording Signal (DV)	48 kHz/16 bit, Linear PCM (digital 2 ch)
SDI Out	BNC x 1, 0.8 V [p-p], 75 Ω, HD (AVCHD mode only) /SD switchable
HDMI Out (AVCHD Mode Only)	HDMI Type A, VIERA Link not supported
Video Output	Pin jack, 1.0 V [p-p], 75 Ω
Audio Input/Output	
Built-in Microphone	Stereo microphone
XLR In	XLR (3 pin) x 2 (INPUT1, INPUT2), LINE/MIC/+48 V switchable, high impedance LINE: 0 dBu, MIC: -40 dBu/-50 dBu/-60 dBu (menu)
Audio Out	Pin jack x 2 (CH1, CH2), 600 Ω, 316 mV
SDI Out (Audio)	2 CH (Linear PCM)
HDMI Out (AVCHD Mode Only) (Audio)	2 CH (Linear PCM), 5.1 CH (Dolby Digital)
Headphones	3.5 mm diameter, stereo mini jack x 1
Speaker	Round, 20 mm diameter
Other Input/Output	
Camera Remote	2.5 mm diameter, super mini jack x 1 (ZOOM S/S) 3.5 mm diameter, mini jack x 1 (FOCUS/IRIS)
Index Remote	2.5 mm diameter, super mini jack x 1
TC Preset In/Out	VIDEO OUT terminal dual-purpose IN 1.0 V [p-p] - 4.0 V [p-p], 10 kΩ OUT: 2.0 V [p-p] ±0.5 V [p-p], low impedance
USB 2.0	Type mini B connector (USB2.0 compliant)
DV Out (DV Mode Only)	6 pin (IEEE1394 compliant), digital output only
Monitor	
LCD Monitor	87.63 mm (3.45 inches) color LCD monitor, approx. 921,000 dots (16:9)
EVF	11.43 mm (0.45 inches) color LCD monitor, approx. 1,226,000 dots (16:9)
Included Accessories	AC adaptor*3, Battery charger*3, AC cable, DC cable,5800/5400 (typ./min.) mAh battery pack,Wireless remote controller with button-type battery,Microphone holder, Eye cup, Shoulder strap, CD-ROM

Note

*1: The frame rates in the setup menu are 60p, 60i, 30p, and 24p.

*2: Native recording mode.

*3: Only AG-AC160AEJ include AC adaptor and Battery charger separately.

The AC adaptor of AG-AC160AP/ EN/AN has both AC adaptor and Battery charger functions.