



A portable field recorder with AVC-ULTRA codec, microP2 card compatibility, HDMI input/output, and live streaming and FTP transfer support

## AJ-PG50

Portable field recorder with AVC-ULTRA\*1 codec and microP2 card compatibility, HDMI input/output, and data transfer over a network

### Key Features

USB 3.0 Interface

Two micro P2 slots

High-resolution QHD LCD monitor.





## AJ-PG50

<https://eu.connect.panasonic.com/gb/en/products/broadcast-proav/aj-pg50>

### General

<b>Power Supply</b>	DC 7.2 V (during battery use) DC 12 V (during AC Adaptor use)
<b>Power Consumption</b>	21.4 W
<b>Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Operating Humidity</b>	10 % to 80 % (non-condensing)
<b>Storage Temperature</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>Weight</b>	1.1 kg (2.4 lbs)
<b>Dimensions</b>	108 mm (W) x 85 mm (H) x 217 mm (D)  (4-1/4 inches x 3-3/8 inches x 8-9/16 inches)  (Excluding the foot parts and protrusions such as the cap)

### Recording Media

P2 memory cards, microP2 memory cards

**Recording Formats** AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-LongG50/  
AVC-LongG25/AVC-LongG12/DVCPRO HD/DVCPRO50/  
DVCPRO/DV formats are selectable.

**Proxy** File Formats: MOV (QuickTime format)  
  
Video Compression Formats: H.264/AVC Baseline Profile, H.264/AVC High Profile

**Video Recording Signals** Audio: AAC-LC, Linear PCM  
1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p,  
720/50p, 480/59.94i, 576/50i

**Audio Recording Signals** AVC-Intra200/AVC-LongG50/AVC-LongG25: 48 kHz, 24 bit, 4 CH  
AVC-Intra100/AVC-Intra50: 48 kHz, 24 bit, 4 CH / 48 kHz, 16 bit, 4 CH  
AVC-LongG12: 48 kHz, 16 bit, 4 CH  
DVCPRO HD: 48 kHz, 16 bit, 4 CH  
DVCPRO 50: 48 kHz, 16 bit, 4 CH  
DVCPRO/DV: 48 kHz, 16 bit, 4 CH

**Recording Times** For details, see the "Recording Time" table on page 3.

**Video (Digital Video)**

**Sampling Frequencies** AVC-Intra200/AVC-Intra100/AVC-LongG50/AVC-LongG25/DVCPRO HD:  
(59.94 Hz) Y: 74.1758 MHz, PB/PR: 37.0879 MHz  
(50 Hz) Y: 74.2500 MHz, PB/PR: 37.1250 MHz  
AVC-Intra100/AVC-LongG25:  
(1080/59.94p) Y: 148.3516 MHz, PB/PR: 74.1758 MHz  
(1080/50p) Y: 148.5000 MHz, PB/PR: 74.2500 MHz  
DVCPRO50: Y: 13.5 MHz, PB/PR: 6.75 MHz  
DVCPRO: Y: 13.5 MHz, PB/PR: 3.375 MHz

**Quantization** AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bit  
AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bit

**Video Compression Methods** AVC-Intra200/AVC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile  
AVC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 High Profile  
DVCPRO HD: DV-Based Compression (SMPTE ST 370)

**Color Sampling** AVC-Intra200/AVC-Intra100/AVC-LongG50/AVC-LongG25:  
Y:PB:PR = 4:2:2

**Resolution** AVC-Intra100/AVC-LongG25/AVC-LongG12:  
1920 x 1080 (1080/59.94p, 1080/50p)  
AVC-Intra200/AVC-Intra100/AVC-LongG50/AVC-LongG25/AVC-LongG12:  
1920 x 1080 (1080/59.94i, 1080/50i)  
1280 x 720 (720/59.94p, 720/50p)  
AVC-Intra50:  
1440 x 1080 (1080/59.94i, 1080/50i)  
960 x 720 (720/59.94p, 720/50p)

**Video Input**

**SDI Input** BNC x 1

<b>HDMI Input</b>	HDMI x 1 (HDMI TYPE A connector) (VIERA Link not supported, HDCP supported)
<b>Video Output</b>	
<b>SDI Output</b>	BNC x 1
<b>HDMI Output* (Video)</b>	HDMI x 1 (HDMI Type A) (VIERA link not supported)
<b>Audio (Digital Audio)</b>	
<b>Sampling Frequency</b>	48 kHz (synchronized with video)
<b>Quantization (Digital Audio)</b>	16 bit (AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV) 16/24 bit selectable (AVC-Intra 100/AVC-Intra 50) 24 bit (AVC-Intra200/AVC-LongG50/AVC-LongG25)
<b>Headroom</b>	12/18/20 dB (selectable)
<b>De-Emphasis</b>	T1=50 $\mu$ s, T2=15 $\mu$ s (ON/OFF auto select)
<b>Audio Input</b>	
<b>Analog Inputs (CH1/CH2)</b>	XLR x 2
<b>SDI Input (Audio)</b>	BNC x 1
<b>HDMI Input (Audio)</b>	2 channels (Linear PCM), 16 bit
<b>Audio Output</b>	
<b>SDI Output (Audio Output)</b>	BNC x 1
<b>Analog Output (Monitor (L/R))</b>	Stereo mini jack (3.5 mm (1/8 inchs) dia.)
<b>Headphone Output</b>	Stereo mini jack (3.5 mm (1/8 inchs) dia.), variable level
<b>HDMI Output (Audio)</b>	2 channels (Linear PCM), 16 bit
<b>Internal Speaker</b>	Round x 1 (monaural)
<b>Other Input/Output</b>	
<b>Time Code Input</b>	BNC x 1, 0.5 V[p-p] to 8.0 V[p-p], 10 k $\Omega$
<b>LAN</b>	RJ-45 x 1, 100BASE-TX/10BASE-T
<b>USB (Host)</b>	USB 3.0 Host (Type A) x 1
<b>USB (Device)</b>	USB 2.0 Device (Type B) x 1
<b>Included Accessories</b>	Battery pack, AC adaptor/AC cable, Battery charger/AC cable

**Note** \*When "VIDEO" - "INPUT SEL" is set to "HDMI", video, audio, and other signals from the HDMI

output connector will not be output.

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Weight and dimensions are approximate. Specifications are subject to change without notice.