

# Broadcast-grade camera recorder with a 22x zoom lens and 2.2 megapixel U.L.T. image sensor.



Coming Soon

## AG-AC160A

(AG-AC160AP/160AEJ/160AEN/160AAN)  
Memory Card Camera Recorder

## AG-AC130A

(AG-AC130AP/130AEJ/130AEN)  
Memory Card Camera Recorder



**AVCHD**  
Progressive

### Excellent image rendering Advanced Cameras, Lenses, and Recorders.

- Featuring the first 2.2 megapixel, high-sensitivity U.L.T. image sensor in the AVCCAM series.
- A 22x zoom lens that covers everything from wide-angle to telephoto shooting.
- The lens unit is provided with three rings - a mechanical (cam-driven) zoom ring, a focus ring, and an iris ring.
- Professional high-quality (PH) mode for Full-HD (1920 x 1080) image recording with a high bit rate of 24 Mbps (average 21Mbps).
- Records SD video into a DV-format file (AVI Type 2) for added flexibility. Standard DV output (IEEE 1394) lets you ingest files to a PC or Mac.

### Comfortable Image Acquisition and Quality with a Host of Pro-Level Functions.

- Internal neutral density (ND) filter (OFF, 1/4ND, 1/16ND, 1/64ND).
- Supports the large-capacity SDXC Memory Card.
- Dual memory card slots are featured. Relay Recording\*<sup>1</sup> lets you seamlessly record images onto two memory cards consecutively, and Simultaneous Recording\*<sup>2</sup> records the same images onto two different memory cards to increase reliability when recording.
- Dynamic Range Stretch (DRS) provides a wider dynamic range with minimal blocked shadows and blown highlights.
- Using the function knob (cursor key), you can select a desired area in the frame and set it as a target zone for focusing, iris adjustment and YGET (brightness measurement).
- Simplified Waveform and Vectorscope Display.
- Seven selectable gamma modes with rich gradation, including Cine-like mode.
- A scene file dial and user buttons for comfortable, easy operation.
- High-Quality Color Viewfinder and LCD
- XLR audio input with 48 V phantom microphone compatibility.
- Interval Rec (AVCHD only), Pre-Rec, and Time Stamp recording capability.
- Two modes of Focus assist (Focus-in-red and Expand).

### Even More Advanced Functions Are Featured in the High-End AG-AC160A.

- It newly supports AVCHD progressive (1080/60p and 1080/50p) recording (PS) mode.\*<sup>3</sup>
- Variable Frame Rate (VFR) function\*<sup>4</sup> that supports Full-HD (1920 x 1080) progressive images.
- Supports uncompressed 16 bit LPCM 2-channel digital audio recording with PH mode for high-quality sound.
- The AG-AC160A lets you select 60 Hz\*<sup>5</sup> or 50 Hz to support video production systems used around the world.
- Featuring HD/SD SDI output terminals that allow the output HD or down-converted SD images (menu selectable).

\*1: The AVCHD's maximum consecutive recording length is 12 hours. This cannot be extended even by using the relay function.

\*2: Simultaneous recording cannot be combined with relay recording, VFR recording or interval recording. Also, Rec Check and Last Clip Delete will not operate during simultaneous recording.

\*3: Playback and through out in 1080/60p, 50p mode not possible. Class 6 or higher SDXC/SDHC/SD Memory Card required for PS mode. 60p is actually 59.94p.

\*4: 720p VFR not supported. Class 6 or higher SDXC/SDHC/SD Memory Card required for VFR recording.  
\*5: 60 Hz is actually 59.94 Hz.

\* Register as an owner for this device to receive a special service warranty up to three years of free warranty repairs.

\* AG-AC160 and AG-AC130 can be upgraded to AG-AC160A and AG-AC130A respectively with non-free version up. Please refer to the following website for detailed information. <http://pro-av.panasonic.net/>

#### [GENERAL]

Power Supply	DC 7.2 V (when the battery is used) DC 7.3 V (when the AC adaptor is used)
Power Consumption	AG-AC160A: 11.8 W (when recording) AG-AC130A: 11.6 W (when 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 (Approx. 5.3 lb) (Excluding the 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 protruding parts)

#### [CAMERA]

Pick-up Device	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
Gain Settings	0/3/6/9/12/15/18/24*/30* dB *Assigned to the USER button (S.GAIN)

#### [Video Recording (AVCHD mode)]

Recording Format	AVCHD standard (MPEG-4 AVC/H.264)
Recording Video Signals	[60 Hz* <sup>1</sup> mode of AG-AC160A and AG-AC130AP] PS mode* <sup>2</sup> : 1080/60p* <sup>1</sup> , PH mode: 1080/60* <sup>1</sup> , 1080/30p* <sup>1</sup> , 1080/24pN* <sup>1</sup> , 720/60p* <sup>1</sup> , 720/30p* <sup>1</sup> , 720/24pN* <sup>1</sup> PM mode: 720/60p* <sup>1</sup> , HA/HE mode: 1080/60i* <sup>1</sup> [50 Hz mode of AG-AC160A and AG-AC130AEJ/AEN] PS mode* <sup>2</sup> : 1080/50p, PH mode: 1080/50i, 1080/25p, 720/50p, 720/25p, PM mode: 720/50p, HA/HE mode: 1080/50i
Video Bit Rate	PS mode: Approx. 25 Mbps (VBR), PH mode: Approx. 21 Mbps (VBR), PM mode: Approx. 8 Mbps (VBR) HA mode: Approx. 17 Mbps (VBR), HE mode: Approx. 6 Mbps (VBR)
Variable Frame Rate [AG-AC160A]	1080/24p* <sup>1</sup> , 1080/30p* <sup>1</sup> : 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 * Fixed on 0 dB gain and manual focus mode

#### [Video Recording (DV mode)]

Recording Format	DV standard (AVI Type2)
Recording Video Signals	[60 Hz* <sup>1</sup> mode of AG-AC160A and AG-AC130AP] 480/60* <sup>1</sup> , 480/30p* <sup>1</sup> , 480/24p* <sup>1</sup> [50 Hz mode of AG-AC160A and AG-AC130AEJ/AEN] 576/50i, 576/25p

#### [Video Output]

SDI [AG-AC160A]	BNC x 1, 0.8 V [p-p], 75 Ω, HD/SD switchable
HDMI (AVCHD mode only)	HDMI Type A, MIERA Link not supported
VIDEO	Pin jack, 1.0 V [p-p], 75 Ω

#### [Other Connectors]

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 to 4.0 V [p-p], 10 kΩ, OUT: 2.0 V±0.5 V [p-p], low impedance
USB	Type mini B connector (USB 2.0 compliant)
DV OUT (DV mode only)	6 pin (IEEE1394 compliant), digital output only

\*1: 60 Hz is actually 59.94 Hz. 60p/i, 30p, 24p are actually recorded in 59.94 Hz, 29.97 Hz, 23.98 Hz respectively.  
\*2: AG-AC130A doesn't support PS mode.  
\* Weight and dimensions shown are approximate. Specifications are subject to change without notice.