Memory Card Camera Recorder

AJ-PX5100GJ
Scheduled for release in December 2018

2/3-type Lens  2/3-type 3MOS  24 bit Audio
P2 card slot x 2  microP2 card slot x 2  Network

High-End ENG Camera Recorder with HDR Acquisition and RTSP/RTMP Streaming/Transmission.

- Supports HDR (High Dynamic Range) image acquisition and outputs SDR*1 while acquiring HDR.
- Offers a streaming function compatible with RTMP (Real-Time Message Protocol), in addition to RTSP (Real-Time Streaming Protocol).
- 1080/60p*2 (50p) recording and 3G-SDI output.
- AVC-Intra or AVC-LongG high-quality images and dual codec recording of AVC-Proxy.
- Includes various network connections, such as “Wired/wireless LAN***”, “4G/LTE***” and “Bonding Services***” (with LiveU, TVU Networks etc.)
- Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.

 AJ-PX380G
1/3-type Lens  1/3-type 3MOS  24 bit Audio
P2 card slot x 1  microP2 card slot x 2  Network

High Cost-Performance, Lightweight Design with High-Quality Shooting and Network Operation**.

- 1080/60p*2 (50p) recording and 3G-SDI output.
- AVC-Intra or AVC-LongG high-quality images and dual codec recording of AVC-Proxy.
- Various network connections such as “Wired/wireless LAN***”, “4G/LTE***” and “Bonding Services***” (with LiveU, TVU Networks etc.)
- The built-in camera adaptor function provides direct linking for simpler studio camera workflows.
- Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
AG-HPX610*4

AG-HPX610PJH/EJH: Bundled with AG-CVF15G Color LCD Viewfinder
2/3-type Lens  2/3-type 1MOS
P2 card slot x 2  microP2 card supported*3

High Cost-Performance System with Expandable Functions Meets Needs in a Wide Range of Uses.
• AVC-Intra100/50, DVCPRO (HD/50/25) and DV recording capability.
• Proxy video recording and playlist editing.*5
• Optional production package: Variable frame rate shooting and 24PsF output.
• Wired/wireless LAN** network connection.*6

AJ-PX270

Integrated Lens System  1/3-type 3MOS  24 bit Audio
P2 card slot x 1  microP2 card slot x 2  Network

High-Performance, Handheld Shooting with Shoulder-Type Quality and Network Operation.
• 22x zoom lens with three manual operation rings.
• Switches and controls designed to match shoulder-type usability.
• 600% dynamic range with 1/3-type 3MOS sensors.
• Offers a streaming function compatible with RTMP (Real-Time Message Protocol), in addition to RTSP (Real-Time Streaming Protocol).
• 1080/60p*2 (50p) recording and 3G-SDI output.
• AVC-Intra200 or AVC-LongG high-quality images.
• Variable Frame Rate Supporting 1080p.

AJ-PX230*7

Integrated Lens System  1/3-type 3MOS  24 bit Audio
microP2 card slot x 2

Featuring Superb Image Quality, Functionality and Operability Matching Shoulder-Type Cameras.
• 22x zoom lens with three manual operation rings.
• Switches and controls designed to match shoulder-type usability.
• 600% dynamic range with 1/3-type 3MOS sensors.
• 1080/60p*2 (50p) recording and 3G-SDI output.
• AVC-Intra200 or AVC-LongG high-quality images.
• Variable Frame Rate Supporting 1080p.

*Pictures are the example of the configuration using options.  ** For details, refer to “Notes Regarding Network Connections” on the back page.
*1: SDR image is output with monitor gamma.  *2: 60i, 60p, 24p and 30p are actually recording in 59.94p, 23.98p, 29.97p respectively.  *3: Requires the optional AJ-P2AD1G Memory Card Adapter to use the microP2 card.
*4: Package model only.  *5: Requires the optional AG-SFU604G Upgrade Software Key and AG-YDX600G Video Encoder Board.  *6: Requires the activation of bundled AG-SFU601G Upgrade Software Key.  *7: This model is not available in some areas.
From Mastering to Network Solutions, a Half-Rack Size Recorder for a High-Quality, High-Speed Workflow.

- Gigabit-Ethernet-compatible client function.
- Playlist editing via LAN.
- Wide range of interfaces, including USB 3.0, 3G-SDI and HDMI.

AJ-PG50
Memory Card Recorder

- **P2 card slot x 2**
- **microP2 card slot x 2**
- **24 bit Audio**
- **Network**
- **AVCHD**
- **3G-SDI I/O**
- **AES/EBU**
- **HDMI OUT**
- **USB 3.0/2.0**
- **RS-422A**
- **Parallel**
- **AC/DC**

AJ-PD500
Memory Card Recorder

- **P2 card slot**
- **microP2 card slot**
- **24 bit Audio**
- **Network**
- **AVCHD**
- **3G-SDI I/O**
- **AES/EBU**
- **HDMI OUT**
- **USB 3.0/2.0**
- **AC/DC**

**For details, refer to “Notes Regarding Network Connections” on the back page.**

**1:** Requires the optional AJ-YCXS00G AVCHD Codec Board. 
**2:** Requires the optional AJ-PG500G AVCHD Codec Board. 
**3:** The AU-XPD3 do not support the CPS (Content Protection System). 
**4:** Connection of the AU-XPD1 requires two USB cables. 
**5:** The AU-XPD1 requires two USB cables. Power supply to be connected with an AC adapter or USB 3.0 port of PC. 
**6:** Encoding formats cannot be used because the microP2 Card B Series does not support the CPS (Content Protection System).

**AVC-Intra100 of 1080/59.94p,50p recording** and “AVC-Intra200 recording” is not supported.
**P2 Cast**

**P2 Workflow Solution**

An IoT Solution for News Gathering That Directly Connects On-Site News Acquisition with the Newsroom.

- Automatically uploads camera recorder images to the cloud in real time.
- Allows sharing of proxy clips on the P2 Cast Cloud by multiple staff members.
- Highlight Editing function reduces the time for previewing, editing and obtaining high-res news image sources.
- Monitors camera recorder status and GPS location information.
- Enables remote metadata editing and remote camera recorder setting.
- P2 Cast Bridge: Connects directly to the newsroom — Nonlinear Editor, News Automation, and Media Asset Management Systems.
- LiveU, TVU: Supports bonding connection services.

- P2 Cast Mobile App: Connects smartphone cameras to P2 Cast/P2SS.

*See the following App Store for information on the P2 Cast Mobile operating environment. [https://itunes.apple.com/us/app/p2-cast-mobile/id1180486803?ls=1&mt=8](https://itunes.apple.com/us/app/p2-cast-mobile/id1180486803?ls=1&mt=8)*

- App Store is a registered service mark of Apple Inc.
- iPhone is a registered trademark of Apple Inc. in the U.S. and other countries.

**P2 Streaming Server**

P2 Streaming Server Delivers Full-HD Streaming with Web GUI Management.

- Provides stable streaming by original QoS technology.
- Manages 1,000 cameras and monitors 20 cameras/page.
- Allows a maximum of 4 simultaneous streaming outputs.

**AJ-SRK001 Streaming Receiver Server KIT (Software Key)**

*P2SS is a software product (AJ-SRK001 Streaming Receiver Server KIT) that is installed onto the server. The customer must provide the server.

*The red front panel is available only in some areas.*

**P2 Cast/P2SS Supported Model:**

As of September, 2018
<table>
<thead>
<tr>
<th>Feature</th>
<th>AJ-PX5100GJ</th>
<th>AJ-PX5000G</th>
<th>AJ-PX800G</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lens System</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Angle of view, 35 mm equiv.)</td>
<td>2/3-type B mount lens interchangeable (option)</td>
<td>2/3-type B mount lens interchangeable (option)</td>
<td>2/3-type B mount lens interchangeable (option)</td>
</tr>
<tr>
<td><strong>Digital Zoom</strong></td>
<td>2x, 3x, 4x</td>
<td>2x, 3x, 4x</td>
<td>2x, 4x</td>
</tr>
<tr>
<td><strong>Optical Image Stabilizer</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Manual Rings</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Built-in Optical Filters</strong></td>
<td>CC: 3200 K/4300 K/5600 K/6300 K ND: CLEAR, 1/4, 1/16, 1/64</td>
<td>CC: 3200 K/4300 K/5600 K/6300 K ND: CLEAR, 1/4, 1/16, 1/64</td>
<td>ND: CLEAR, 1/4, 1/16, 1/64</td>
</tr>
<tr>
<td><strong>Image Pick-up Device</strong></td>
<td>2/3-type 2.2 MP, MOS x 3</td>
<td>2/3-type 2.2 MP, MOS x 3</td>
<td>2/3-type 2.2 MP, MOS x 3</td>
</tr>
<tr>
<td><strong>HDR (High Dynamic Range)</strong></td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Scan Reverse</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>CAC</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>FBC</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>DRS</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Gamma Modes</strong></td>
<td>8</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>60 Hz/50 Hz Switchable</strong></td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>24 bit LPCM Recording</strong></td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>VFR</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>microP2 card Capability</strong></td>
<td>Native Slot</td>
<td>Native Slot</td>
<td>Need Adapter</td>
</tr>
<tr>
<td><strong>P2 Card Slot</strong></td>
<td>P2 x 2, microP2 x 2</td>
<td>P2 x 2, microP2 x 2</td>
<td>P2 x 2</td>
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<tr>
<td><strong>SD Memory Card Slot</strong></td>
<td>SD x 1</td>
<td>SD x 1</td>
<td>SD x 1</td>
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<tr>
<td><strong>Relay Recording</strong></td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td><strong>Simultaneous Recording</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Background Recording</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>One-Clip Rec</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Interval Rec/One-Shot Rec/Loop-Rec</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Pre-Rec (HD mode)</strong></td>
<td>HD: 8 sec*1, SD: 15sec</td>
<td>HD: 8 sec*1, SD: 15sec</td>
<td>HD: 3 sec, SD: 7 sec</td>
</tr>
<tr>
<td><strong>Shot Mark/Text Memo</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Meta-data Recording</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Time Stamp Recording</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Proxy Recording</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Scene File (Dia)</strong></td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td><strong>User Buttons</strong></td>
<td>5</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td><strong>Built-in Monitor</strong></td>
<td>3.5-type LCD (1,560 K dots)</td>
<td>3.45-type LCD (921 K dots)</td>
<td>-</td>
</tr>
<tr>
<td><strong>EVF</strong></td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td><strong>Waveform Display</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Vectorscope Display</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Focus Assist</strong></td>
<td>Focus-In-Red, Expand, Focus Bar</td>
<td>Focus-In-Red, Expand, Focus Bar</td>
<td>Focus-In-Red, Expand, Focus Bar</td>
</tr>
<tr>
<td><strong>GENLOCK IN</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>TC IN/OUT</strong></td>
<td>(IN and OUT)</td>
<td>(IN and OUT)</td>
<td>(Switchable IN/OUT)</td>
</tr>
<tr>
<td><strong>Built-in Microphone</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>XLR AUDIO IN</strong></td>
<td>3-pin x 2, 5-pin x 1</td>
<td>3-pin x 2, 5-pin x 1</td>
<td>3-pin x 2, 3-pin x 1</td>
</tr>
<tr>
<td><strong>Slot-In Wireless Receiver</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>SDI IN</strong></td>
<td>✓ (Ret In)</td>
<td>✓ (Ret In)</td>
<td>Option (Switchable to SDI OUT)</td>
</tr>
<tr>
<td><strong>SDI OUT</strong></td>
<td>2</td>
<td>2</td>
<td>1+1 (Mon Out)</td>
</tr>
<tr>
<td><strong>HDMI OUT</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Analog Video Output</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓ (Switchable to Mon Out)</td>
</tr>
<tr>
<td><strong>Down Converter (Aspect Conversion Mode)</strong></td>
<td>Side Crop, Letterbox, Squeeze</td>
<td>Side Crop, Letterbox, Squeeze</td>
<td>Side Crop, Letterbox, Squeeze</td>
</tr>
<tr>
<td><strong>ECU/10P for ECU</strong></td>
<td>10P for ECU</td>
<td>10P for ECU</td>
<td>10P for ECU</td>
</tr>
<tr>
<td><strong>LAN Port</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>USB 3.0</strong></td>
<td>1 (Host)</td>
<td>1 (Host)</td>
<td>-</td>
</tr>
<tr>
<td><strong>USB 2.0</strong></td>
<td>2 (Device/Sub Host)</td>
<td>2 (Device/Sub Host)</td>
<td>3 (Host/Device/Sub Host)</td>
</tr>
<tr>
<td><strong>Wireless LAN Capability</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>4G/LTE Network Capability</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Video Streaming</strong></td>
<td>RTSP, RTMP</td>
<td>RTSP</td>
<td>RTSP</td>
</tr>
<tr>
<td><strong>P2 ROP APP</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Rec During Upload</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>LiveU/TVU Networks Bonding</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*1: About 8 seconds at 1080/59.94p mode. About 3 seconds at 50p mode and AVC-Intra100 codec. *2: For a wireless LAN connection, the AJ-WM30 or AJ-WM50 Wireless Module are required. *4: 4G/LTE module is required from a 3rd party. Availability of this function may vary depending on areas.
<table>
<thead>
<tr>
<th><strong>AJ-PX380G</strong></th>
<th><strong>AG-HPX610</strong></th>
<th><strong>AJ-PX270</strong></th>
<th><strong>AJ-PX230</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3-type B mount lens interchangeable (option)</td>
<td>2/3-type B mount lens interchangeable (option)</td>
<td>Motorized 22x zoom (28 mm – 616 mm)</td>
<td>Motorized 22x zoom (28 mm – 616 mm)</td>
</tr>
<tr>
<td>2x, 4x</td>
<td>2x, 4x</td>
<td>2x, 5x, 10x</td>
<td>2x, 5x, 10x</td>
</tr>
<tr>
<td>3 rings [zoom, focus, iris]</td>
<td>3 rings [zoom, focus, iris]</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ND: CLEAR, 1/4, 1/16, 1/64</td>
<td>ND: CLEAR, 1/4, 1/16, 1/64</td>
<td>ND: OFF, 1/4, 1/16, 1/64</td>
<td>ND: OFF, 1/4, 1/16, 1/64</td>
</tr>
<tr>
<td>1/3-type 2.2 MP, MOS x 3</td>
<td>2/3-type MOS</td>
<td>1/3-type 2.2 MP, MOS x 3</td>
<td>1/3-type 2.2 MP, MOS x 3</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>1080: 1 fps – 30 fps, 720: 1 fps – 60 fps</td>
<td>1080/59.94p: 1 fps – 60 fps</td>
<td>1080/59.94p: 1 fps – 60 fps</td>
<td>1080/59.94p: 1 fps – 60 fps</td>
</tr>
<tr>
<td>Native Slot</td>
<td>Native Slot</td>
<td>Native Slot</td>
<td>Native Slot</td>
</tr>
<tr>
<td>P2 x 1, microP2 x 2</td>
<td>P2 x 2</td>
<td>P2 x 1, microP2 x 2</td>
<td>microP2 x 2</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>HD: 3 sec, SD: 7 sec</td>
<td>HD: 3 sec, SD: 7 sec</td>
<td>HD: 3 sec, SD: 7 sec</td>
<td>HD: 3 sec, SD: 7 sec</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>3.5-type LCD (1,560 K dots)</td>
<td>3.5-type LCD (1,560 K dots)</td>
<td>0.5-type OLED (2,360 k dot-equiv.)</td>
<td>0.5-type OLED (2,360 k dot-equiv.)</td>
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<tr>
<td>Option</td>
<td>Option</td>
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<td>✓</td>
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<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Focus-In-Color, Expand, Focus Bar</td>
<td>Expand, Focus Bar</td>
<td>Turbo-Speed One-Push AF, Focus-In-Red, Expand, Focus Bar</td>
<td>Turbo-Speed One-Push AF, Focus-In-Red, Expand, Focus Bar</td>
</tr>
<tr>
<td>Switchable to VIDEO OUT</td>
<td>Push Auto (Bundled Lens)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>✓ (Switchable IN/OUT)</td>
<td>Switchable to Video Out</td>
<td>✓</td>
<td>✓</td>
</tr>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>3-pin x 2, 3-pin x 1</td>
<td>3-pin x 2, 3-pin x 1</td>
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<td>3-pin x 2</td>
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<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Switchable to SDI OUT</td>
<td>Option (Switchable to SDI OUT)</td>
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<td>✓</td>
</tr>
<tr>
<td>1+1 (Switchable to SDI IN (Ret In))</td>
<td>1+1 (Mon out)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>✓ (Switchable to GENLOCK IN)</td>
<td>✓ (Switchable to Mon Out)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Side Crop, Letterbox, Squeeze</td>
<td>Side Crop, Letterbox, Squeeze</td>
<td>Side Crop, Letterbox, Squeeze</td>
<td>Side Crop, Letterbox, Squeeze</td>
</tr>
<tr>
<td>10P for ECU</td>
<td>10P for ECU</td>
<td>10P for ECU</td>
<td>Zoom, Rec-S/S, Focus, Iris</td>
</tr>
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<td>✓</td>
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<td>✓</td>
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</tr>
<tr>
<td>RTSP</td>
<td>RTSP</td>
<td>RTSP</td>
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</tr>
</tbody>
</table>

*4: The optional AG-SFU601G Upgrade Software Key is required to use the AJ-WM30 Wireless Module.
*5: Connection requires communication devices offered by both LiveU and TVU Networks. For details, please visit the following website; <https://pro-av.panasonic.net/en/sales_o/p2/bonding_devices/index.html>
Multi-Codec, Multi-Functions Recording

AVC-ULTRA Codec Family
AVC-ULTRA is an H.264-based video compression codec featuring high image quality and excellent efficiency. By selecting the image quality and bit rate, it is possible to respond to various needs of broadcasting and image production, from 4K production to streaming distribution.

<table>
<thead>
<tr>
<th>Codec</th>
<th>Picture Quality</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Proxy D</td>
<td>320 x 240</td>
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Evolving P2 Card Series
The P2 card series (P2 card, microP2 card, expressP2 card*) took advantage of its solid-state memory capabilities to provide high reliability and mobility to acquisition under virtually all conditions.

*The expressP2 card can be used with VariCam 35/LT/HS.

High-Quality 24 bit 4 Channel Audio Recording
AVC-Intra and AVC-LongG modes support 24 bit/48 kHz digital audio recording* (16 bit for DVCPRO HD, DVCPRO and DV). All modes have four audio channels.

* The audio signal can be played back by using 24 bit audio equipment. For details, refer to “Note Regarding 24 bit Audio” on the back page.

Recording with Two Memory Card Slots
Models that have two P2 card slots or two microP2 card slots are capable of consecutive recording using two of the same type of cards; card select, hot swapping (exchanging cards while recording), Simul Recording**, Background Recording** and Dual-Codec Recording.

*1: Cannot be recorded to microP2 card and P2 card simultaneously.
*2: Can be recorded only to microP2 card slot.

Network Connections — Workflow Revolution

Wired/Wireless LAN, 4G/LTE Network Connections**
The standard LAN port allows network connection. When the optional Wireless Module is installed, the camera recorder gains wireless LAN connectivity, enabling access to the functions of Proxy Preview, Camera Remote, Playlist Editing and File Transfer from a network PC/Mac, tablet device or smartphone. 4G/LTE connection and LiveU/TVU Networks bonding connection are also possible.*

* For details, refer to “Notes Regarding Network Connections” on back page.
* Connection requires communication devices offered by both LiveU and TVU Networks. For details, please visit the following Panasonic website.

Full-HD Streaming Supported**
Full-HD (1920 x 1080) proxy video can be streamed via a network connection while recording main video. QoS*1 (Quality of Service) streaming modes which prioritize uninterrupted video transmission is supported.*2

*1: P2 Streaming Receiver software (Windows only, not supported by Mac; available free of charge) is required for receiving the QoS mode. Please visit Panasonic website (https://pro-av.panasonic.net/en/download/).
*2: The video and audio signals arrive with a delay. The latency varies depending on the network environment and the hardware/software environment of the PC, server, etc.

Rec During Uploading Function**
Recorded clips are uploaded directly from the camera recorder to a network*. The Rec During Upload function automatically uploads files to a network server in the background, and recording/playback continues during the transfer.

* During simultaneous recording, only recorded clips in slot 1 is automatically transferred. Clips of interval recording, loop recording, oneClip recording or one-shot recording are not transferred automatically.

The streaming function are disabled, while using the Rec During Uploading function.
Features of P2 Camera Section.

Chromatic Aberration Compensation (CAC)
When using a CAC compatible lens, the small amount of circumjacent chromatic aberration (circumjacent blur) that is not corrected by the lens is compensated by this process.

Dynamic Range Stretcher (DRS)
When dark, bright, and intermediate shades are all contained in the same scene, such as when panning from indoors to outdoors, the DRS function automatically suppresses blocked shadows and blown highlights.

Gamma Function Further Approaches Film Tone
VariCam technology and know-how are also applied to other P2 camera recorders, allowing selection of various-model gamma curves, such as Cinema-like Gamma, to easily achieve the most suitable image tone.

Variable Frame Rate (VFR)
This creates a wide range of film-camera-like images, such as overcranking for slow-motion and undercranking for quick-motion effects.

Focus Assist Functions
Focus assist functions — Expand, Focus Bar, Focus-in-Red, Graph and One-Push AF — support quick and accurate focusing in manual focus mode.

Camera Remote System

10-pin Remote Terminal
A remote terminal is provided for the optional AG-EC4G Extension Control Unit or AK-HRP200G Remote Operation Panel. This enables camera settings to be made and recording to be controlled while watching the monitor at the remote end.

Wired LAN Remote
A wired LAN connection allows the camera to be remotely controlled. Remote operation, including fine menu settings, is possible by using the optional AK-HRP200G Remote Operation Panel for studio cameras.

Camera Studio System
The shoulder-type P2 cam supports the Camera Studio System. The optional camera extension system (AG-CA300G Camera Adapter and AG-BS300 Base Station) support cost-efficient studio integration. Also, built-in camera adaptor model (AJ-PX380G) can directly be connected with base station.

The P2 ROP App for Wireless Control using iPad**
The P2 ROP App (downloadable free of charge from the Apple App Store) for iPad is available.* It enables iPad to control functions/setting of the camera recorder remotely via wireless connection. P2 ROP App can control variety of settings similar to those of the AG-EC4G Extension Control Unit controls, including picture quality settings and REC start/stop.

* It supports to iOS7.1 and iOS8.1.
• Apple App Store and iPad are service marks or trademarks of Apple Inc. registered in the United States and other countries.
Other P2HD Equipment/Software

**P2 Viewer Plus**

**Viewing Software**
(Download Free/Optional Functions require Licensing Fees)

Supports P2HD. This Windows/Mac utility makes it easy to view and copy P2 files.

*1: For P2 Viewer Plus download and operating requirement information, see “P2 Viewer Plus” on the Panasonic web site https://pro-av.panasonic.net/en/sales_o/p2/p2viewerplus/

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**AJ-SK001G**

**Ingesting Function Software Key**
(Optional, Subject to Licensing Fee)

The ingesting function copies all clips on P2 cards to a storage medium, such as an HDD. During ingesting, the clips are verified for secure copying, with log files created.

*2: For information on purchasing software keys, see “Service and Support” on the Panasonic web site https://pro-av.panasonic.net/

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**Professional Archive System**

**Video Ingester**

- Linking with Archiving Software*1 enables tape-recorded footage (HD/SD) to be input for MXF format file conversion, and saving and management on LTO tape or Blu-ray Discs.
- Auto Ingest and Error Rate Monitoring function eliminates the need for physical monitoring while loading and also increases reliability.
- Metadata can be added during ingestion.

*1: Video Ingest Software can be installed on the same PC as the Archiving Software, but ingestion and archiving cannot be done simultaneously.

---

**Archive**

- Proxy video can be generated and metadata can be edited while archiving.
- Up to 10 copy tasks can be registered for batch execution.
- Direct playback*2 and segmented retrieve*3 are possible from archive data stored on LTO tape.

*2: Tape cueing requires some time when directly playing back LTO tapes.
*3: Partial retrieve is possible only with P2 and XDCAM codecs. Partial retrieve is not possible for content stored on Blu-ray Discs.

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**Avid NLE P2 Plug-In Software**

**AJ-PS001G**

Software Key
for AVC-Proxy file import to edit and re-link to Hi-res.

**AJ-PS002G**

Software Key
for AVC-Intra 4k and AVC-Intra50/100 P2 file export.

**AJ-PS003G**

Software Key
for AVC-LongG P2 file export.

**AJ-PS004G**

Software Key
for AVC-LongG file import to edit.

*Please refer to the “service and support” on the Panasonic website (https://pro-av.panasonic.net/).
<table>
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<td>✓&lt;sup&gt;5&lt;/sup&gt;</td>
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</table>

✓: It is possible to use it.  *A version upgrade may be required for the software version of some camera recorders. For details, please visit the following website. https://pro-av.panasonic.net/ (Service and Support)  "1: A mounting bracket (purchased separately) is required to mount on a camera recorder.  "2: The bundled AG-SFU601G Upgrade Software Key is required to use the AJ-WM30 Wireless Module.  "3: In addition to the AG-SFU604G Upgrade Software Key, the AG-YDX600G Video Encoder Board and bundled AG-SFU601G Upgrade Software Key are required for operation. For a wireless LAN connection, the AJ-WM30 Wireless Module is also required.  "4: Memory Card Adapter AJ-P2AD1G is required.  "5: "AVC-Intra100 of 1080/59.94p,50p recording" and "AVC-Intra200 recording" is not supported.
Optional Accessories

- P2HD Camera Recorder
- Remote Cable (bundled with AG-CA300G)
- Power supply
- G/L, Return Video, Tally
- HD/SD
- Bound Cable made by Canare Electric
  - V2PCS25-5CFWCE-SF-SC (82 feet /25 m)
  - V2PCS50-5CFWCE-SF-SC (164 feet /50 m)
  - V2PCS100-5CFWCE-SF-SC (328 feet /100 m)
- Headset (produced by other manufacturer)

- AG-CA300G Camera Adapter
- AG-BS300 Base Station
- AG-EC4G Extension Control Unit
- AK-HRP200G Remote Operation Panel (ROP)
- AG-CVF15G 87.6 mm (3.45 inches) Color HD EVF
- AJ-HVF21KG 50.8 mm (2 inches) HD EVF
  - * Not available in some areas.
- AJ-CVF50G 38.1 mm (1.5 inches) HD EVF
- BT-LH910G 228.6 mm (9 inches) HD/SD LCD monitor
- AJ-MC900G Stereo Microphone
- AJ-MC700P Microphone Kit
- AG-MC200G XLR Microphone
- SHAN-TM700 Tripod Adaptor
- AG-YDX600G Video Encoder Board
- AG-YA600G HD/SD SDI Input Board
- AJ-YCX500G AVCHD Codec Board
- AJ-WM50 Wireless Module
  - * Not available in some areas.
AJ-WM30
Wireless Module
* Not available in some areas.

AG-SFU602G
Production Package Upgrade Software Key

AG-SFU603G
LiveU Uplink Solution Upgrade Software Key

AG-SFU604G
Proxy Playlist Editing Upgrade Software Key

AG-VBR118G
Battery Pack (11,800 mAh)

AG-VBR89G
Battery Pack (8,850 mAh)

AG-VBR59
Battery Pack (5,900 mAh)

AG-BRD50
Battery Charger

VW-VBD58
Battery Pack (5,800 mAh)

CGA-D54/CGA-D54s
Battery Pack (5,400 mAh)

AG-B23
Battery Charger

SHAN-RC700
Rain Cover
* Not available in some areas.

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Operation-Verified 3rd Party Devices

2/3-type CAC Applicable Lenses
The use of Canon, Fujinon and Angenieux lenses with CAC (Chromatic Aberration Compensation) is recommended.

* For the latest information on CAC applicable lenses, see “Support & Download” on the Panasonic website (https://pro-av.panasonic.net/). The installation of CAC data might be required depending on the lens. Some Angenieux lenses do not support CAC operation. Be sure to specify CAC applicability when purchasing lenses.

Bound Cable for Camera Studio System (Between AG-BS300 and AG-CA300G)

[Canare]
V2PCS25-5CFWCE-SF-SC (82 feet/25 meters)
V2PCS50-5CFWCE-SF-SC (164 feet/50 meters)
V2PCS100-5CFWCE-SF-SC (328 feet/100 meters)

Power Cable for Camera Studio System (Between AG-BS300 and AG-CA300G)

[Canare]
DC50V10-CE01PS-SC (164 feet/50 meters)
DC100V10-CE01PS-SC (328 feet/100 meters)

LiveU LU200
LiveU Portable Uplink Unit

TVU One
TVU Networks Mobile Video Transmission System

Contract with LiveU is required separately. LiveU: http://www.liveu.tv
Contact: info_us@liveu.tv (US & Americas), info@liveu.tv (International)
### Recording Codec Specifications

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<th>Recording Codecs</th>
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<th>Digital Audio</th>
<th>Recording Codec Specifications</th>
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<td>Sampling Frequency</td>
<td>Quantizing</td>
<td>Video Compression</td>
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<tr>
<td>AVC-Intra200</td>
<td>(59.94 Hz)</td>
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<td>MPEG-4 AVC/ H.264 Intra Profile</td>
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<td>AVC-LongG50</td>
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<td>10 bit</td>
<td>MPEG-4 AVC/H.264 48 kHz/24 bit, 8 CH 48 kHz/24 bit, 4 CH</td>
</tr>
<tr>
<td></td>
<td>(50 Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVC-LongG12</td>
<td>(59.94 Hz)</td>
<td>8 bit</td>
<td>DV-Based compression (SMPTE370M) 48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH</td>
</tr>
<tr>
<td></td>
<td>(50 Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVCPRO HD</td>
<td>(59.94 Hz)</td>
<td>8 bit</td>
<td>DV-Based compression (SMPTE370M) 48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH</td>
</tr>
<tr>
<td></td>
<td>(50 Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVCPRO 50</td>
<td>Y: 13.5 MHz</td>
<td>8 bit</td>
<td>DV-Based compression (SMPTE314M) 48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH</td>
</tr>
<tr>
<td></td>
<td>Pa/Pc: 6.75 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVCPRO</td>
<td>Y: 13.5 MHz</td>
<td>8 bit</td>
<td>DV-Based compression (SMPTE314M) 48 kHz/16 bit, 8 CH 48 kHz/16 bit, 2 CH</td>
</tr>
<tr>
<td></td>
<td>Pa/Pc: 3.375 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DV</td>
<td>Y: 13.5 MHz</td>
<td>8 bit</td>
<td>DV Compression (JVC 61834-2) 48 kHz/16 bit, 8 CH 48 kHz/16 bit, 2 CH</td>
</tr>
<tr>
<td></td>
<td>Pa/Pc: 3.375 MHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Each recording codec differs for every model. Please check the following table for details. Depending on a model and a codec, upgrade is required. Please go to the Product Information on the Panasonic web page (https://pro-av.panasonic.net/) *1: Each recording audio signal differ for every model. Eight-channel record is impossible for a camera recorder all model. *2: For 1080/60p and 1080/50p, the recording times become 1/2 of those shown above. All of the times apply when single clips are recorded continuously one after the other onto a P2 card. Depending on the number of clips to be recorded, the recordable time may be shorter than the times given. *3: This mode can be chosen only from the AJ-PX270/PX230/PD500/PG50.

### Supported Recording Codec by Model

<table>
<thead>
<tr>
<th>Recording Codecs</th>
<th>AJ-PX5100GJ</th>
<th>AJ-PX5000G</th>
<th>AJ-PX800G</th>
<th>AJ-PX380G</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC-Intra200</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>AVC-Intra100</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>AVC-Intra50</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>AVC-LongG50</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>AVC-LongG25</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>AVC-LongG12</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>DVCPRO HD</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>DVCPRO 50</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>DVCPRO</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>DV</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>AVCHD</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

### Supported AVC-Proxy Recording Mode by Model

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC-G6 2CH MOV</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>SHQ 2CH MOV</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>HQ 4CH MOV</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>HQ 2CH MOV</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>LOW 2CH MOV</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>STD 2CH MP4</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

## AVC-Proxy Recording Mode Specifications

<table>
<thead>
<tr>
<th>Recording Mode</th>
<th>Resolution</th>
<th>Video</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Codec</td>
<td>Bit Rate</td>
</tr>
<tr>
<td>AVC-G6 2CH MOV</td>
<td>1080i mode: 1920 x 1080  720p mode: 1280 x 720</td>
<td>H.264 High Profile</td>
<td>6 Mbps</td>
</tr>
<tr>
<td>SHQ 2CH MOV</td>
<td>960 x 540</td>
<td>H.264 High Profile</td>
<td>3500 kbps</td>
</tr>
<tr>
<td>HQ 4CH MOV</td>
<td>640 x 360</td>
<td>H.264 High Profile</td>
<td>1500 kbps</td>
</tr>
<tr>
<td>HQ 2CH MOV</td>
<td>640 x 360</td>
<td>H.264 High Profile</td>
<td>1500 kbps</td>
</tr>
<tr>
<td>LOW 2CH MOV*</td>
<td>1080i mode: 480 x 270  480 59.94i mode: 352 x 240 (SIF NTSC)  576 50i mode: 352 x 288 (SIF PAL)  1080 60/50p mode: 320 x 180  1080 30/25/24p mode: 480 x 270  720 60/50p mode: 320 x 180  720 30/25/24p mode: 480 x 270</td>
<td>H.264 Baseline Profile 800</td>
<td>800 kbps</td>
</tr>
<tr>
<td>STD 2CH MP4</td>
<td>320 x 240 (QVGA)</td>
<td>MPEG-4 Simple Profile</td>
<td>1500 kbps</td>
</tr>
</tbody>
</table>

Each Recording modes differ for every model.

## Streaming Mode Specifications (AJ-PX5100GJ/PX5000G/PX800G/PX380G/PX270/PG50)

<table>
<thead>
<tr>
<th>Mode</th>
<th>Resolution</th>
<th>Frame Rate</th>
<th>Bit Rate</th>
<th>Codec*1</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC-G6</td>
<td>1920 x 1080*2</td>
<td>30 fps/25 fps</td>
<td>6 Mbps</td>
<td>H.264 High Profile</td>
</tr>
<tr>
<td></td>
<td>1280 x 720*3</td>
<td>60 fps/50 fps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HQ</td>
<td>640 x 360</td>
<td>30 fps/25 fps</td>
<td>1,500 kbps</td>
<td></td>
</tr>
<tr>
<td>LOW</td>
<td>480 x 270</td>
<td>30 fps/25 fps</td>
<td>800 kbps</td>
<td>H.264 Baseline Profile</td>
</tr>
<tr>
<td>AVC-G (QoS)*4</td>
<td>1920 x 1080*2</td>
<td>30 fps/25 fps</td>
<td>Variable depending on the communication bandwidth Maximum 9 Mbps</td>
<td>H.264 High Profile</td>
</tr>
<tr>
<td></td>
<td>1280 x 720*3</td>
<td>60 fps/50 fps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHQ (QoS)*4</td>
<td>960 x 540</td>
<td>30 fps/25 fps</td>
<td>Variable depending on the communication bandwidth Maximum 6 Mbps</td>
<td>H.264 High Profile</td>
</tr>
</tbody>
</table>

*1: The audio codec is AAC LC 2ch in all streaming mode. "2: When only the record signal is 1080/59.94i or 1080/50i.  "3: When only the record signal is 720/59.94p or 720/50p.  "4: The AJ-PX800G/PG50 does not support QoS modes.

### AVCHD Playback only**

<table>
<thead>
<tr>
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</table>

### AG-HPX610

<table>
<thead>
<tr>
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</thead>
<tbody>
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<tr>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*2: When only the record signal is 1080/59.94i or 1080/50i.  "3: When only the record signal is 720/59.94p or 720/50p.  "4: The AJ-PX800G/PG50 does not support QoS modes.
## AJ-PX5100GJ PRELIMINARY

### General

**Power Supply:** DC 12 V (11.0 V – 17.0 V)  
**Power Consumption:** 29 W  
(body only, 1080/59.94i, AVC-Intra100 standard recording status, LCD ON)  
70 W  
(with all optional accessories connected and maximum power supplied from each output terminal)  
**Operating Temperature:** 0°C to 40°C (32°F to 104°F)  
**Operating Humidity:** 10% to 85% (relative humidity)  
**Storage Temperature:** -20°C to 60°C (−4°F to 140°F)  
**Weight:** Approx. 3.4 kg (7.5 lbs.)  
(bodily only, excluding the battery and accessories)  
**Dimensions:** 147 mm (W) x 267 mm (H) x 342 mm (D)  
(5-25/32 inches x 10-1/2 inches x 13-15/32 inches)  
(bodily only, excluding protrusion)

### Camera Section

**Pickup Device:** 2/3-type, 2.2 million pixels, MOS x 3  
**Lens Mount:** 2/3-type bayonet  
**CC Filter:** A: 3200 K; B: 4300 K; C: 5600 K; D: 6300 K  
**ND Filter:** CLEAR, 1/4, 1/16, 1/64

#### Gain Setting:

<table>
<thead>
<tr>
<th>Mode</th>
<th>-3 dB</th>
<th>0 dB</th>
<th>3 dB</th>
<th>6 dB</th>
<th>9 dB</th>
<th>12 dB</th>
<th>15 dB</th>
<th>18 dB</th>
<th>21 dB</th>
<th>24 dB</th>
<th>27 dB</th>
<th>30 dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORMAL</td>
<td>-6 dB</td>
<td>-3 dB</td>
<td>0 dB</td>
<td>3 dB</td>
<td>6 dB</td>
<td>9 dB</td>
<td>12 dB</td>
<td>15 dB</td>
<td>18 dB</td>
<td>21 dB</td>
<td>24 dB</td>
<td>27 dB</td>
</tr>
<tr>
<td>HIGH SENS</td>
<td>-6 dB</td>
<td>-3 dB</td>
<td>0 dB</td>
<td>3 dB</td>
<td>6 dB</td>
<td>9 dB</td>
<td>12 dB</td>
<td>15 dB</td>
<td>18 dB</td>
<td>21 dB</td>
<td>24 dB</td>
<td>27 dB</td>
</tr>
</tbody>
</table>

#### Digital Super Gain (DS.GAIN):

- Selectable from 6 dB, 10 dB, 12 dB, 15 dB, 20 dB, 24 dB, 28 dB, 34 dB

#### Super Gain (S.GAIN):

- Selectable from 30 dB, 36 dB, 42 dB

#### Shutter Speed:

- **(Preset)**: [59.94 Hz]  
  60/60p mode: 1/100 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec, HALF  
  30p mode: 1/100 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec, HALF  
  24p mode: 1/100 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec, HALF  
  180.0 deg, 172.8 deg, 144.0 deg, 120.0 deg, 90.0 deg, 45.0 deg  
- **(Synchro Scan)**:  
  60/60p mode: 1/60 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec, HALF  
  30p mode: 1/60 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec, HALF  
  25p mode: 1/60 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec, HALF  
  180.0 deg, 172.8 deg, 144.0 deg, 120.0 deg, 90.0 deg, 45.0 deg

#### Shutter Open Angle:

- **(Synchro Scan)**: Configurable between 3 deg and 359.5 deg (in 0.5 deg steps)

#### Sensitivity:

- **NORMAL mode:**  
  F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)  
  F10 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)  
  F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)  
  F13 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
- **HIGH SENS mode:**  
  F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)  
  F13 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)

#### Minimum Subject Illumination:

- Approx. 0.004 lx  
  (F1.4, +42 dB (S.GAIN), +34 dB (DS.GAIN))

#### Image S/N:

- 62 dB (standard)

#### Horizontal Resolution:

- 1000 TV or higher (center)

### Memory Card Recorder Section

**Recording Media:** P2 card, microP2 card  
**System Format:** 1080/59.94p, 1080/59.94i, 1080/23.98Psf, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i

#### Recording Format:


#### Recording Video Signal:


### Video Input/Output

#### SDI IN:

- HD SDI: 3 G: 0.8 V [p-p], 75 Ω  
  1.5 G: 0.8 V [p-p], 75 Ω
- SDI SD: 0.8 V [p-p], 75 Ω

#### SDI OUT:

- HD SDI: 3 G: 0.8 V [p-p], 75 Ω  
  1.5 G: 0.8 V [p-p], 75 Ω
- SDI SD: 0.8 V [p-p], 75 Ω

#### VIDEO OUT:

- BNC x 1  
  Composite: 1.0 V [p-p], 75 Ω

#### Audio Input/Output

**AUDIO IN:**  
- XLR x 2, 3-pin, LINE/MIC/MIC+48 V switchable type (CH1/CH2)  
  LINE: 4 dBu (−3 dBu/0 dBu/4 dBu selectable menu)  
  MIC: −60 dBu (−60 dBu/−50 dBu selectable menu)  
  MIC+48 V: Phantom +48 V supported, −60 dBu (−60 dBu/−50 dBu selectable menu)
- XLR x 1, 5-pin  
  Phantom +48 V (selectable menu), −40 dBu (−50 dBu/−40 dBu selectable menu)

#### Wireless Slot:

- 25-pin, D-SUB, −40 dBu, 2 CH supported

#### AUDIO OUT:

- XLR x 1, 5-pin, equilibrium low impedance (CH1/CH2)  
- 4 dBu (−3 dBu/0 dBu/4 dBu selectable menu)

#### PHONES Out:

- Stereo mini jack x 2

#### Speaker:

- 20 mm diameter, round x 1

### Other Input/Output

**GENLOCK IN:**  
- BNC x 1, 1.0 V [p-p], 75 Ω
- T/L IN:  
  BNC x 1, 0.5 V [p-p] to 8 V [p-p], 10 kΩ
- T/L OUT:  
  BNC x 1, 2.0 V [p-p] to +0.5 V [p-p], low impedance
- DC IN:  
  XLR x 1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V)
- DC OUT:  
  4-pin, DC 12 V (DC 11.0 V to 17.0 V), maximum output current 1.5 A
- REMOTE:  
  10-pin
- LENS:  
  12-pin
- VF:  
  20-pin
- LAN:  
  100BASE-TX/10BASE-T
- USB 2.0 (Device): Type B connector, 4-pin
- USB 3.0 (Host): Type A connector, 9-pin
- USB 2.0 (Host): Type A connector, 4-pin
- LIGHT:  
  2-pin, DC 12 V (DC 11.0 V to 17.0 V), maximum output current 4.5 A (up to 50 W equivalent)
- LCD Monitor: 3.5-type QHD color monitor (approx. 1560000 dots)

### Included Accessories

- Shoulder strap, Mount cap

---

*Please see 41 – 42 page for Digital Video, Digital Audio and Proxy Specifications.*
AJ-PX5000G

**General**

Power Supply: DC 12 V (11.0 V – 17.0 V)

Power Consumption: 29 W (body only, 1080/59.94i, AVC-Intra100 standard recording status, LCD ON)

Weight: Approx. 3.4 kg (7.5 lbs.) (body only, excluding the battery and accessories)

Dimensions: 147 mm (W) x 267 mm (H) x 342 mm (D)

**Camera Section**

Pickup Device: 2/3-type, 2.2 million pixels, MOS x 3

Lens Mount: 2/3-type bayonet


Gain Setting: NORMAL mode:
- –3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB,
- 15 dB, 18 dB, 21 dB, 24 dB, 27 dB, 30 dB

HIGH SENS mode:
- –6 dB, –3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB,
- 15 dB, 18 dB, 21 dB, 24 dB, 27 dB, 30 dB

Digital Super Gain:
- Selectable from 30 dB, 36 dB, 42 dB

Super Gain (S.GAIN):
- Selectable from 30 dB, 36 dB, 42 dB

Shutter Speed:
- [Preset]
  - 60/60p mode: 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF
  - HIGH SENS mode:
    - 180.0 deg, 172.8 deg, 144.0 deg
    - 120.0 deg, 90.0 deg, 45.0 deg

Shutter Speed:
- [Synchro Scan]
  - 1/60, 1 sec. to 1/7200 sec.
  - 1/50, 1 sec. to 1/6000 sec.
  - 1/50, 1 sec. to 1/5000 sec.
  - 1/30, 1 sec. to 1/3600 sec.

Shutter Open Angle: Configurable between 3 deg and 359.5 deg (in 0.5 deg steps)

Sensitivity:
- NORMAL mode:
  - F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
  - F10 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)

- HIGH SENS mode:
  - F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
  - F13 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)

Minimum Subject Illumination:
- Approx. 0.004 lx
- (F1.4, +42 dB (S.GAIN), +34 dB (DS.GAIN))

Image S/N:
- 62 dB (standard)

Horizontal Resolution:
- 1000 TV or higher (center)

**Memory Card Recorder Section**

Recording Media: P2 card, microP2 card

System Format:
- 1080/59.94p, 1080/59.94i, 1080/23.98P, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i

**Video Input/Output**

Recording Format:
- AVC-Intra200/AVC-Intra100/AVC-Intra50/
  - DVCPro HD/DVCPro50/DVCPro/DV

Recording Video Signal:

*Please see 41 – 42 page for Digital Video, Digital Audio and Proxy Specifications.

**Audio Input/Output**

SDI IN:
- BNC x 1
  - HD SDI: 3 G: 0.8 V [p-p], 75 Ω
  - 1.5 G: 0.8 V [p-p], 75 Ω
  - SD SDI: 0.8 V [p-p], 75 Ω

SDI OUT1:
- BNC x 1
  - HD SDI: 3 G: 0.8 V [p-p], 75 Ω
  - 1.5 G: 0.8 V [p-p], 75 Ω
  - SD SDI: 0.8 V [p-p], 75 Ω

SDI OUT2:
- BNC x 1
  - HD SDI: 3 G: 0.8 V [p-p], 75 Ω
  - 1.5 G: 0.8 V [p-p], 75 Ω
  - SD SDI: 0.8 V [p-p], 75 Ω

VIDEO OUT:
- BNC x 1
  - Composite: 1.0 V [p-p], 75 Ω

HDMI OUT:
- HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

**Other Input/Output**

GENLOCK IN:
- BNC x 1, 1.0 V [p-p], 75 Ω

TC IN:
- BNC x 1, 0.5 V [p-p] to 8 V [p-p], 10 kΩ

TC OUT:
- BNC x 1, 2.0 V [p-p] to 0.5 V [p-p], low impedance

DC IN:
- BNC x 1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V)

DC OUT:
- 4-pin, DC 12 V (DC 11.0 V to 17.0 V), maximum output current 1.5 A

REMOTE:
- 10-pin

LENSES:
- 12-pin

VF:
- 20-pin

LAN:
- 100BASE-TX/10BASE-T

USB 2.0 (Device):
- Type B connector, 4-pin

USB 3.0 (Host):
- Type A connector, 9-pin

USB 2.0 (Host):
- Type A connector, 4-pin

LIGHT:
- 2-pin, DC 12 V (DC 11.0 V to 17.0 V), maximum output current 4.5 A (up to 50 W equivalent)

LCD Monitor:
- 8.76 cm (3.45 inches) LCD monitor, approx. 921,000 dots (16:9)

**Included Accessories**

Shoulder strap, Mount cap
**AJ-PX800G**

**General**

- **Power Supply:** DC 12 V (11.0 V – 17.0 V)
- **Power Consumption:** 22 W (body + AG-YA600G)
- **Operating Temperature:** 0°C to 40°C (32°F to 104°F)
- **Operating Humidity:** 10 % to 85 % (relative humidity)
- **Storage Temperature:** −20°C to 60°C (−4°F to 140°F)
- **Weight:** Approx. 2.8 kg (6.2 lbs.) body only, excluding the battery and accessories
- **Dimensions:** 144 mm (W) x 267 mm (H) x 350 mm (D) (5-21/32 inches x 10-1/2 inches x 13-25/32 inches) body only, excluding protrusion

**Camera Section**

- **Pickup Device:** 2/3-type 2.2 million pixels, MOS x 3
- **Lens Mount:** 2/3-type bayonet
- **ND Filter:** CLEAR, 1/4, 1/16, 1/64
- **Gain Setting:** NORMAL mode: −3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB, 21 dB, 24 dB, 27 dB, 30 dB
- **Super Gain (S.GAIN):** Selectable from 30 dB, 36 dB, 42 dB
- **Shutter Speed (Preset):** 60/60p mode: 1/60 (OFF) sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.
  - 30p mode: 1/30 (OFF) sec., 1/50 sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec.
- **Shutter Speed (Synchro Scan):**
  - 60/60p mode: 1/60.0 sec. to 1/250.0 sec.
  - 30p mode: 1/30.0 sec. to 1/250.0 sec.
  - 24p mode: 1/24.0 sec. to 1/250.0 sec.
  - 50/50p mode: 1/50.0 sec. to 1/250.0 sec.
  - 25p mode: 1/25.0 sec. to 1/250.0 sec.
- **Shutter Open Angle:** 3.0 deg to 360.0 deg
  - (in 0.5 deg steps, angle display)
- **Sensitivity:**
  - NORMAL mode: F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
  - F10 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)
  - HIGH SENS mode: F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
  - F13 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)
- **Minimum Subject Illumination:** Approx. 0.22 lx (F1.4, +42 dB (S.GAIN))
- **Image S/N:** 62 dB (standard)
- **Horizontal Resolution:** 1000 TV or higher (center)

**Memory Card Recorder Section**

- **Recording Media:** P2 card (for microP2 card: adaptor is required)
- **System Format:** 1080/59.94i, 1080/23.98pEF, 720/59.94p, 480/59.94i, 9080/50i, 720/50p, 576/50i
- **Recording Format:** AVC-Intra100/AVC-Intra50/AVC-LongG50/
  - DVCPro50/DVCPRO/DV formats switchable
- **Recording Video Signal:**

**Video Input/Output**

- **SDI OUT/IN:**
  - BNC x 1
  - 1.5 G HD SDI: 0.8 V [p-p], 75 Ω
  - SD SDI: 0.8 V [p-p], 75 Ω
- **MON OUT:**
  - BNC x 1
  - (Can be switched to HD SDI/SDI analog composite on SmartUI)
  - 1.5 G HD SDI: 0.8 V [p-p], 75 Ω
  - SD SDI: 0.8 V [p-p], 75 Ω
  - Composite: 1.0 V [p-p], 75 Ω
- **HDMI OUT:**
  - HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

**Audio Input/Output**

- **Audio IN:**
  - XLR x 2, 3-pin
  - LINE/MIC (switch selection)
  - LINE: 0 dBu
  - MIC: −50 dBu/−60 dBu (menu selection), +48 V ON/OFF (switch selection)
  - MIC IN: XLR x 1, 5-pin
- **MIC IN:**
  - XLR x 1, 3-pin
  - +48 V supported (selectable menu), −40 dBu/−50 dBu/−60 dBu (selectable menu)
- **Wireless IN:**
  - 25-pin, D-SUB, −40 dBu, 2 CH supported
- **Audio OUT:**
  - Pin jack x 2 (CH1, CH2), Output level: 600 Ω, 316 mV
- **Phones OUT:**
  - 3.5 mm diameter stereo mini jack
- **Speaker:**
  - 20 mm diameter, round x 1

**Other Input/Output**

- **GENLOCK IN:**
  - BNC x 1, 1.0 V [p-p], 75 Ω
- **TC IN/OUT:**
  - BNC x 1, IN/OUT switch selection
  - IN: 0.5 V [p-p] to 8 V [p-p], 10 kΩ
  - OUT: 2.0 V [p-p] ±0.5 V [p-p], Low impedance
- **DC IN:**
  - XLR x1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V)
- **DC OUT:**
  - 4-pin, DC 12 V (DC 11.0 V to 17.0 V), maximum output current 1.5 A
- **REMOTE:**
  - 10-pin
- **Lens:**
  - 12-pin
- **VF:**
  - 20-pin
- **LAN:**
  - 100BASE-TX/10BASE-T
- **USB 2.0 (Host):**
  - Type A connector, 4-pin
- **USB 2.0 (Device):**
  - Type B connector, 4-pin
- **USB 2.0 (Sub Host):**
  - Type A connector, 4-pin
  - (exclusively for wireless module AJ-WM30)

**Included Accessories**

- Shoulder strap, Mount cap

*The optional AJ-YA600G SDI board is required.*
AJ-PX380G

**General**

**Power:**
DC 12 V (11.0 V – 17.0 V)

**Power Consumption:**
19 W (body only), 1080/60i, AVC-Intra 100 standard recording status, LCD ON) 58W (with all optional accessories connected and maximum power supplied from each output terminal)

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

**Operating Humidity:**
10 % to 85 % (relative humidity)

**Storage Temperature:**
-20°C to 60°C (−4°F to 140°F)

**Weight:**
Approx. 2.7 kg (6.0 lb) body only, excluding the battery and accessories

**Dimensions:**
144 mm (W) × 267 mm (H) × 348 mm (D)

**Camera Unit**

**Pickup Device:**
1/3-type 2.2 million pixels, MOS × 3

**ND Filter:**
1CLEAR, 1/4ND, 1/16ND, 1/64ND

**Gain Setting:**
NORMAL mode:
0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB

**Super Gain (S.GAIN):**
Select from 24 dB, 30 dB, 36 dB

**Shutter Speed:**
60/60p mode: 1/60 (OFF) sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.

**Shutter Speed:**


**Shutter Open Angle:**
3.0 deg to 360.0 deg (in 0.5 deg steps, angle display)

**Sensitivity:**
NORMAL mode:
F8 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)

**High Sensitivity:**
F11 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)

**Horizontal Resolution:**
1000 TV or higher (center)

**Memory Card Recorder**

**Recording Media:**
P2 card x 1, microP2 card x 2

**System Format:**
1080/59.94p, 1080/59.94i, 1080/23.98pSF, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 1080/25P

**Recording Format:**

**Recording Video Signal:**

**Video Input/Output**

**SDI OUT1:**
BNC x1
HD SDI (3 G/1.5 G), SD SDI: 0.8 V [p-p], 75 Ω

**SDI OUT2/IN:**
BNC x1, SDI OUT2, SDI IN (menu selection)
(Can be switched to HD SDI/SD SDI on SmartUI)
HD SDI (1.5 G), SD SDI: 0.8 V [p-p], 75 Ω

**GL IN/VIDE OUT:**
BNC x1, GENLOCK IN,
VIDEO OUT (menu selection)
GENLOCK IN: 1.0 V [p-p], 75 Ω
VID E OUT: Composite, 1.0 V [p-p], 75 Ω

**HDMI OUT:**
HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

**Audio Input/Output**

**Audio IN CH1/3, AUDIO IN CH2/4:**
XLR (3-pin) x 2, LINE/MIC (switch selection)
LINE: 0 dBu
MIC: −50 dBu/−60 dBu (menu selection), +48 V ON/OFF (switch selection)

**MIC IN:**
XLR (3-pin) x 1,
+48 V supported (selectable menu)
−40 dBu/−50 dBu/−60 dBu (selectable menu)

**Wireless IN:**
25-pin, D-SUB, −40 dBu, 2 CH supported

**Audio OUT:**
Pin jack x 2 (CH1, CH2),
Output level: 600 Ω, 316 mV

**Phones OUT:**
3.5 mm diameter stereo mini jack x 1

**Speaker:**
20 mm diameter, round x 1

**Other Input/Output**

**TC IN/OUT:**
BNC x1, IN/OUT (menu selection)
IN: 0.5 V [p-p] to 8 V [p-p], 10 kΩ
OUT: 2.0 V [p-p] ±0.5 V [p-p], Low impedance

**LAN:**
100BASE-TX/10BASE-T

**USB2.0 (device):**
Type B connector, 4-pin

**USB2.0 (host):**
Type A connector, 4-pin

**USB2.0 (sub host):**
Type A connector, 4-pin
(exclusively for wireless module AJ-WM30)

**DC IN:**
XLR x 1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V),
(maximum output current 1.5 A)

**REMOTE:**
10-pin

**Lens:**
12-pin

**EVF:**
20-pin

**Included Accessories**

Shoulder strap, Mount cap

*Please see 41 – 42 page for Digital Video, Digital Audio and Proxy Specifications.*

As of September, 2018
AG-HPX610 Specifications

**General**

- **Power Supply:** DC 12 V (DC 11.0 V – 17.0 V)
- **Power Consumption:** 18 W (body only) 24 W (with AG-YDX600G and AG-YA600G)
- **Operating Temperature:** 0°C to 40°C (32°F to 104°F)
- **Operating Humidity:** 10% to 85% (no condensation)
- **Storage Temperature:** −20°C to 60°C (−4°F to 140°F)
- **Weight:** Approx. 2.8 kg (6.2 lb)
- **Dimensions:** 144 mm (W) x 267 mm (H) x 350 mm (D)

**Camera Section**

- **Pickup Device:** 2/3-type MOS x 1
- **Lens Mount:** 2/3-type bayonet type
- **ND Filter:** CLEAR, 1/4, 1/16, 1/64
- **Gain Selection:** −3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB (18 dB: USER SW allocation)
- **Color Temperature Settings:** ATW, ATW LOCK, A CH, B CH, Preset 3200 K/Preset 5600 K/VAR
- **Shutter Speed:**
  - **(Preset) [59.94 Hz]**
    - 60/60p mode: 1/60 (OFF) sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.
  - **[50 Hz]**
- **Shutter Speed:**
  - **(Syncro Scan) [59.94 Hz]**
    - 60/60p 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.
  - **[50 Hz]**
    - 50/50p mode: 1/50.0 sec. to 1/250.0 sec.
    - 25p mode: 1/25.0 sec. to 1/250.0 sec.
- **Shutter Speed:**
  - **(Slow) [59.94 Hz]**
    - 60/60p mode: 1/15 sec., 1/30 sec.
    - 30p mode: 1/15 sec.
    - 24p mode: 1/12 sec.
    - **[50 Hz]**
    - 50/50p mode: 1/12.5 sec., 1/25 sec.
    - 25p mode: 1/12.5 sec.
- **Shutter Open Angle:** SCENE FILE VFR = OFF
  - 3 deg to 360 deg, 0.5 deg step select
  - SCENE FILE VFR = ON
    - (FRAME RATE 12p or more)
    - 3 deg to 360 deg, 0.5 deg step select
    - SCENE FILE VFR = ON’2
      - (Less than FRAME RATE 12p)
      - 3 deg to 22.5 deg, 0.5 deg step select
      - 45 deg, 90 deg, 180 deg, 360 deg

**Frame Rates**:

- **(59.94 Hz mode)**
  - 1080: 1/24/60/90/120/150/180/210/220/240/250/270/280/300 fps (frames per second) 25 steps
  - 720: 1/6/8/12/15/18/20/21/22/24/25/26/27/28/30/32/34/36/40/44/48/60 fps (frames per second) 25 steps
- **(50 Hz mode)**
  - 1080: 1/24/60/90/120/150/180/210/220/230/240/250/270/280/300 fps (frames per second) 14 steps
  - 720: 1/6/8/12/15/18/20/21/22/23/24/25/26/27/28/30/32/34/37/42/45/48/50 fps (frames per second) 25 steps

**Sensitivity**:

- F12 (2000 lx, 3000 K, 89.9 % reflect, 1080/59.94i)
- F13 (2000 lx, 3200 K, 89.9 % reflect, 1080/50i)
- Video S/N: 59 dB (standard)

**Digital Zoom:** 2x, 4x

**Memory Card Recorder Section**

- **Recording Media:** P2 card
- **System Formats:** 1080/59.94i, 1080/23.98PsF*, 720/59.94p, 480/59.94i, 480/59.94p
- **Recording Formats:** AVC-Intra100/AVC-Intra50/DVCPRO HD/ DVCPRO 50/DVCPRO/DV formats switchable
- **Recording Video Signal:**

**Video Input/Output**

- **SDI OUT/IN (OP)**: BNC x 1
  - HD SDI: 0.8 V [p-p], 75 Ω
  - SD SDI: 0.8 V [p-p], 75 Ω
- **MON OUT:** BNC x 1, HD SDI/SDI VBS (Analog Composite) can be switched on SmartUI
  - HD SDI: 0.8 V [p-p], 75 Ω
  - SD SDI: 0.8 V [p-p], 75 Ω
  - VBS: 1.0 V [p-p], 75 Ω
- **HDMI OUT:** HDMI x 1 (HDMI TypeA terminal), VIERA Link not supported

**Audio Input/Output**

- **AUDIO IN:** XLR x 2, 3-pin
  - LINE/MIC switchable, high impedance, LINE: 0 dBu
  - MIC: −50 dBu/−60 dBu (switching via menu)
  - MIC +48 V ON/OFF (switchable)
- **MIC IN:**
  - XLR x 1, 3-pin
  - +MIC/−48 V switchable, −40 dBu/−50 dBu/−60 dBu (switching via menu)
- **WIRELESS INPUT:**
  - 25-pin, D-SUB, −40 dBu 2 CH supported
- **AUDIO OUT:**
  - Pin jack x 2 (CH1/CH2), Output: 316 mV, 600 Ω
  - PHONES OUT: ø3.5 mm stereo mini jack x 1
  - Speaker: 20 mm diameter x 1

**Other Input/Output**

- **GENLOCK IN:**
  - BNC x 1, 1.0 V [p-p], 75 Ω
- **TC IN/OUT:**
  - IN: BNC x 1, 0.5 V [p-p] to 8 V [p-p], 10 kΩ
  - OUT: BNC x 1, 2.0 V [p-p] ±0.5 V [p-p], low impedance (IN/OUT switching via menu)
- **DC IN:**
  - XLR x 1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V)
- **DC OUT:**
  - 4-pin, DC 12 V (DC 11.0 V to 17.0 V), Max. 1.5 A
- **REMOTE:**
  - 10-pin
- **LENS:**
  - XLR x 2, 3-pin
  - Type-A, 4-pin
  - Type-B, 4-pin
  - Type-C, 4-pin (for Wireless Module AJ-WM30 or for UPLINK USB cable)

**Included Accessories**

- Shoulder strap, Mount cap**, CD-ROM

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*1: When SHOOTING MODE is NORMAL on SYSTEM SETUP MENU, −3 dB setting is treated as 0dB and 18dB setting can not be active.
*2: AG-SFU602 Upgrade Software Key is required.
*3: When SHOOTING MODE is LOW LIGHT on SYSTEM SETUP MENU
*4: Mounting the optional AG-YA600G HD/SDI Input Board makes this system SDI Input. (SDI OUT/IN switching via menu)
*5: When Upgrade Software Key AG-SFU601 is installed, the network function of cable LAN and wireless LAN becomes effective.
*6: It is attached to the main body.
AJ-PX270

General

Power Supply: DC 7.2 V (when the battery is used)
DC 12 V (when the AC adaptor is used)

Power Consumption: 19.5 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. 2.2 kg (4.9 lbs.) body only, excluding lens hood, battery, and accessories
Approx. 2.6 kg (5.7 lbs.) including lens hood, supplied battery, and microphone holder

Dimensions: 176 mm (H) x 171 mm (W) x 329 mm (D) (6-1/2 inches x 6-23/32 inches x 12-15/16 inches) (excluding protrusion)

Camera Section

Pickup Device: 1/3-type 2.2 million pixels, MOS solid state image sensor x 3

Lens: Optical image stabilizer lens, optical 22x motorized zoom
F1.6 to F3.2 (f=3.9 mm to 86 mm)
35 mm conversion: 28 mm to 616 mm (16:9)

Filter Diameter: 72 mm

Optical System: Prism system

NO Filter: OFF, 1/4, 1/16, 1/64

Shortest Shooting Distance: 1.1 m from the front lens (M.O.D.)
Approx. 0.06 m from front lens (When Macro=On, at wide-end)

Gain Setting: L/M/H selector switch

-3 dB to 18 dB (in 1 dB steps)
(Negative value of gain is only in [HIGH SENS.] mode.)
(When assigning [S.GAIN] to the USER button: Switching between 24 dB, 30 dB, and 36 dB)

Color Temperature Setting:
ATW, ATW LOCK, A CH, B CH, preset
3200 K/5600 K/5000 K/6500 K

Shutter Speed:

(Preset) [59.94 Hz]
60/60p mode: 1/60 (shutter off) sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.
[50 Hz]

Shutter Speed:

(Synchro Scan) [59.94 Hz]
60/60p 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.
[50 Hz]
50/50p mode: 1/50.0 sec. to 1/250.0 sec.
25p mode: 1/25.0 sec. to 1/250.0 sec.

Shutter Speed:

(Slow) Setting is possible when [VF-STR] is [OFF]
[59.94 Hz]
60/60p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec., 1/30 sec.
30p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec.
24p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec.
[50 Hz]
50/50p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec., 1/25 sec.
25p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec.

Shutter Open Angle: 3.0 deg to 180.0 deg to 360.0 deg
(in 0.5 deg steps, angle display)

Frame Rate:
1080/59.94p: 1/24/60 9/12/15/18/20/21/22/24/25/26/27/28/30/32/34/36/40/44/48/50 fps
(10 steps per second) 25 steps
(3 frames per second) 25 steps

Sensitivity:

[High SENS.] mode
F11 (2000 lx, 3200 K, 99.9 % reflection, 1080/59.94i)
F12 (2000 lx, 3200 K, 99.9 % reflection, 1080/50i)

Minimum Subject Illumination:

0.02 lx
(F1.6, gain 18 dB, [S. EXP.], [High SENS.] mode)

Digital Zoom:

2x, 5x, 10x

Lens Hood:
Hood with lens cover

Memory Card/Recorder Section

Recording Media: microP2 card, P2 card

Recording Slot:

microP2 card slot x 2, P2 card slot x 1

System Format:

1080/59.94p, 1080/59.94i, 1080/23.98p, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i

Recording Format:

AVC-Intra200/AVC-Intra100/AVC-Intra50/
AVC-IntraLong50S/AVC-IntraLong312/
DVCPro HD/DVCPRO50/DVCPRO/DV formats

Recording Video Signal:

1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p, 720/29.97p, 720/23.98p, 480/59.94i, 29.97p,

*Please see 41 – 42 page for Digital Video, Digital Audio and Proxy Specifications.

Video Input/Output

SDI OUT:
BNC x 1, HD (3 G/1.5 G), SD: 0.8 V [p-p], 75 Ω

VIDEO OUT:
BNC x 1, Also used as the GENLOCK IN,
IN/OUT switch selection
Composite: 1.0 V [p-p], 75 Ω

HDMI OUT:
HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

Audio Input

Built-in Microphone: Supports stereo microphone

AUDIO INPUT 1/AUDIO INPUT 2:
XLR x 2, 3-pin, Input high impedance,
LINE/MIC switch selection
LINE: 4 dBu/0 dBu (selectable menu)
MIC: −40 dBu/−50 dBu/−60 dBu (selectable menu), +48 V ON/OFF (switch selection)

Audio Output

AUDIO OUT:
3.5 mm diameter stereo mini jack x 1, Output level: 600 Ω, 316 mV

Headphones:
3.5 mm diameter stereo mini jack x 1
100 Ω, −16 dBV (32Ω load, at maximum output level)

Speaker:
20 mm diameter, round x 1

Other Input/Output

CAM REMOTE:
2.5 mm diameter super mini jack x 1 ZOOM S/S
3.5 mm diameter mini jack x 1 FOCUS IRIS

GENLOCK IN:
BNC x 1, also used as the VIDEO OUT,
IN/OUT switch selection, 1.0 V [p-p], 75 Ω

TC IN/OUT:
BNC x 1, Used as the input and output terminals,
IN/OUT switch selection
Input: 1.0 V [p-p] to 4.0 V [p-p], 10 kΩ
Output: 2.0 V [p-p] ±0.5 V [p-p], low impedance

LAN:
100BASE-TX/10BASE-T

USB 2.0 (Device):
Type miniB connector, 4-pin

USB 3.0 (Host):
Type A connector, 9-pin

USB 2.0 (Sub-Host):
Type A connector, 4-pin
(exclusively for wireless module AJ-WM30)

DC IN 12 V:
DC 12 V (DC 10.5 V - 13.5 V), EIAJ type 4

Monitor and Viewfinder

LCD Monitor:
3.5-type QHD color monitor (approx. 1560000 dots)

Viewfinder:
0.5-type OLED (organic EL display)
(Approx. 2360000 dots, video display area:
Approx. 1770000 dots)

Included Accessories

Battery (NV-BBD8), Shoulder strap, Battery charger, AC adapter, Microphone holder, Screw for microphone holder (12 mm), Power code x 2, Eye cup, Lens hood, Grip belt
### AJ-PX230 Specifications

#### General

<table>
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<th>Power Supply:</th>
<th>DC 7.2 V (when the battery is used)</th>
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</thead>
<tbody>
<tr>
<td>Power Consumption:</td>
<td>19.5 W (when the LCD monitor is used)</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>0°C to 40°C (32°F to 104°F)</td>
</tr>
<tr>
<td>Operating Humidity:</td>
<td>10% to 80% (no condensation)</td>
</tr>
<tr>
<td>Weight:</td>
<td>Approx. 2.2 kg (4.9 lb., body only, excluding lens hood, battery, and accessories)</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>176 mm (H) x 171 mm (W) x 329 mm (D)</td>
</tr>
</tbody>
</table>

#### Camera Section

<table>
<thead>
<tr>
<th>Pickup Device:</th>
<th>1/3-type 2.2 megapixels, MOS solid state image sensor x3</th>
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<tbody>
<tr>
<td>Lens:</td>
<td>Optical image stabilizer lens, optical 22x motorized zoom</td>
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<td>Filter Diameter:</td>
<td>72 mm</td>
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<td>Optical System:</td>
<td>Prism system</td>
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<tr>
<td>ND Filter:</td>
<td>OFF, 1/4, 1/16, 1/64</td>
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<tr>
<td>Shortest Shooting Distance:</td>
<td>1.1 m from the front lens (M.O.D.)</td>
</tr>
<tr>
<td>Gain Setting:</td>
<td>L/M/H selector switch, -3 dB to 18 dB (in 1 dB steps)</td>
</tr>
<tr>
<td>Color Temperature Setting:</td>
<td>ATW, AWL, LOCK, A ch, B ch, preset 3200 K/preset 5600 K/VAR</td>
</tr>
</tbody>
</table>

#### Video Input/Output

- **SDI OUT:** BNC x 1, HD (3 G/1.5 G), SD: 0.8 V [p-p], 75 Ω
- **HDMI OUT:** HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

#### Audio

- **Built-in Microphone:** Supports stereo microphone
- **AUDIO INPUT 1/AUDIO INPUT 2:** XLR x 2, 3-pin input high impedance, LINE/MIC switch selection, LINE: 4 dBu/0 dBu (selectable menu), MIC: −40 dBu−50 dBu−60 dBu (selectable menu), +48 V ON/OFF (switch selection)

#### Operating Temperature

0°C to 40°C (32°F to 104°F)

#### Minimum Subject Illumination

- **F11 (2000 lx, 3200 K, 89.9% reflection, 1080/59.94i)**
- **F12 (2000 lx, 3200 K, 89.9% reflection, 1080/50i)**

#### Audio Output

- **Headphones:** 3.5 mm diameter stereo mini jack x 1
- **Speaker:** 20 mm diameter, round x 1

#### Other Input/Output

- **CAM REMOTE:** 2.5 mm diameter super mini jack x 1 ZOOM S/S 3.5 mm diameter mini jack x 1 FOCUS IRIS
- **USB 2.0 (Device):** Type miniB connector, 4-pin
- **USB 2.0 (Sub-Host):** Type A connector, 4-pin (exclusively for maintenance)
- **DC IN 12 V:** DC 12 V (DC 10.5 V ~ 13.5 V), EI AJ type 4

#### Monitor and Viewfinder

- **LCD Monitor:** 3.5-type QHD color monitor (Approx. 1560000 dots)
- **Viewfinder:** 0.5-type OLED (organic EL display) (Approx. 2300000 dots, video display area: Approx. 1770000 dots)

#### Included Accessories

- Battery (VW-VBD58), Shoulder strap, Battery charger, AC adaptor, Microphone holder, Screw for microphone holder (12 mm), Power code x 2, Eye cup, Lens hood, Grip belt
**Cinema Camera**

**AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-Intra120/AVC-Intra50:**
- Approx.

**AJ-PD500**

**Video Specification (Digital Video)**

<table>
<thead>
<tr>
<th>Sampling Frequency:</th>
<th>AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-Intra120/AVC-Intra50:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>48 kHz (synchronized with video)</td>
</tr>
<tr>
<td></td>
<td>48 kHz (synchronized with video)</td>
</tr>
</tbody>
</table>

**Audio Specification (Digital Audio)**

**Sampling Frequency:**
- 48 kHz (synchronized with video)

**Quantizing:**
- AVC-Intra200/AVC-Intra100/AVC-Intra50:
  - 24 bit
  - 24 bit/16 bit (selectable)
- AVC-Intra50:
  - 12 bit
  - 16 bit

**Headroom:**
- 12 dB/18 dB/20 dB (selectable)

**De-emphasis:**
- T1 = 50 μs, T2 = 15 μs (ON/OFF auto)

**Video Input**

**Reference Input:**
- BNC x 1
  - Auto switching of black burst
  - HD 3-value sync

**SDI Input:**
- BNC x 1

**Video Output**

**Monitor Output:**
- BNC x 1, SD analog composite

**Reference through Output:**
- BNC x 1

**SDI Monitor Output:**
- BNC x 1 (HD/SD switchable)

**HDMI Output**:
- HDMI x 1
  - HDMI Type A terminal, VIERA Link not supported

**Audio Input**

**Analog Input:**
- XLR x 2 (CH1, CH2)

**Digital Input:**
- BNC x 2 (CH3/4), AES/EBU Format

**SDI Input:**
- BNC x 1

**Audio Output**

**SDI Output:**
- BNC x 3

**Analog Output:**
- XLR x 2 (CH1, CH2), Monitor Output (L/R) switchable

**Digital Output:**
- BNC x 2 (CH3/4), AES/EBU Format

**Headphone Output**:
- 3.5 mm Stereo Mini Jack x 1, 8 Ω, variable level

**HDMI Output**:
- 2 channels (Linear PCM)

**Internal Speaker:**
- Round x 1 (monaural)

**Other Input/Output**

**Time Code Input:**
- BNC x 1, 0.5 V [p-p] to 8.0 V [p-p], 10 kΩ

**Time Code Output:**
- BNC x 1, low impedance, 2.0 V [p-p] ±0.5 V [p-p]

**REMOTE:**
- D-SUB 9-pin x 1, RS-422A Interface

**PARALLEL REMOTE:**
- D-SUB 15-pin x 1

**LAN:**
- RJ-45 x 1, 100BASE-T/100BASE-TX/10BASE-T

**USB Host:**
- USB 3.0 HOST (TYPE A) x 1

**USB Device:**
- USB 2.0 DEVICE (TYPE B) x 1

**Keyboard**:
- USB 2.0 (TYPE A) x 1 (maximum 100 mA)

**Standard Accessories**

**AC cable, CD-ROM (Manuals)**

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1: HDMI output does not support 480i/59.94i and 576/50i. Convert to 480i/59.94p and 576/50p for output.

2: This port is intended for keyboard connection. If the keyboard draws more than 100 mA, a protective circuit may shut down the unit.
### AJ-PG50 Specifications

#### General

<table>
<thead>
<tr>
<th>Power Supply:</th>
<th>DC 7.2 V (during battery use) / DC 12 V (during AC Adaptor use)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption:</td>
<td>21.4 W</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>0°C to 40°C (32°F to 104°F)</td>
</tr>
<tr>
<td>Operating Humidity:</td>
<td>10% to 80% (non-condensing)</td>
</tr>
<tr>
<td>Storage Temperature:</td>
<td>−20°C to 50°C (−4°F to 122°F)</td>
</tr>
<tr>
<td>Weight:</td>
<td>1.1 kg (2.4 lbs)</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>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)</td>
</tr>
<tr>
<td>Recording Media:</td>
<td>P2 card, microP2 card</td>
</tr>
<tr>
<td>Proxy:</td>
<td>File Formats: MOV (QuickTime format) Video Compression Formats: H.264/AVC Baseline Profile, H.264/AVC High Profile Audio: AAC-LC, Linear PCM</td>
</tr>
</tbody>
</table>

#### Video Recording Signals:

- 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94i, 576/50i

#### Audio Recording Signals:

- AVC-Intra100/AVC-Intra50: 48 kHz, 24 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

#### Video Specification (Digital Video)

**Sampling Frequencies:**

- AVC-Intra200/AVC-Intra100/AVC-LongG50/AVC-LongG25/DVCPRO HD: 59.94 Hz Y: 74.1758 MHz, Pb/Pb: 37.0879 MHz (50 Hz Y: 74.2500 MHz, Pb/Pb: 37.1250 MHz)
- AVC-Intra100/AVC-Intra50: 148.3516 MHz, Pb/Pb: 74.1758 MHz (1080/59.94p)
- AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 13.5 MHz, 8.75 MHz

**Quantization:**

- AVC-Intra200/AVC-Intra100/AVC-Intra50: 24 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
- DVCPRO HD: DV-Based Compression (SMPTE ST 370)

**Color Sampling:**


**Resolution:**

- AVC-Intra100/AVC-LongG25/AVC-LongG12: 1920 x 1080 (1080/59.94p, 1080/50p)
- AVC-Intra200/AVC-Intra100/AVC-LongG50/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)

#### Audio Specification (Digital Audio)

**Sampling Frequency:**

- 48 kHz (synchronized with video)

**Quantization:**

- AVC-Intra100/AVC-Intra50: 24 bit/16 bit (selectable)
- AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 16 bit

**Headroom:**

- 12 dB/18 dB/20 dB (selectable)

**De-emphasis:**

- T1=50 μs, T2=15 μs (ON/OFF auto select)

#### Video Input

- SDI Input: BNC x 1
- HDMI Input: HDMI x 1 (HDMI TYPE A connector)

#### Video Output

- SDI Output: BNC x 1
- HDMI Output: HDMI x 1 (HDMI Type A)

#### Audio Input

- Analog Input: XLR x 2 (CH1, CH2)
- SDI Input: BNC x 1
- HDMI Input: 2 channels (Linear PCM), 16 bit

#### Audio Output

- SDI Output: BNC x 1
- Analog Output (monitor/L/R): Stereo mini jack (3.5 mm (1/8 inch) dia.)
- Headphone Output: Stereo mini jack (3.5 mm (1/8 inch) dia.), variable level
- HDMI Output: 2 channels (Linear PCM), 16 bit
- Internal Speaker: Round x 1 (monaural)

#### Other Input/Output

- Time Code Input: BNC x 1, 0.5 V [p-p] to 8.0 V [p-p], 10 kΩ
- LAN: RJ-45 x 1, 100BASE-TX/10BASE-T
- USB HOST: USB 3.0 Host (Type A) x 1
- USB Device: USB 2.0 Device (Type B) x 1

#### Standard Accessories

- Battery pack, AC adaptor/AC cable, Battery charger/AC cable

*When “VIDEO” – “INPUT SEL” is set to “HDMI”, video, audio, and other signals from the HDMI output connector will not be output.*
AVC-ULTRA Partners are committed to continue expanding support as Panasonic introduces additional compression modes with AVC-ULTRA. And P2 Partners are committed to support the P2 format, including AVC-Intra100 and AVC-Intra50. Panasonic joins with its partners to offer new production workflows for the networking age.