AJ-PX5100GJ Memory Card Camera Recorder

- 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.
- 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.
- Offers a streaming function compatible with RTMP (Real-Time Message Protocol), in addition to RTSP (Real-Time Streaming Protocol).

AJ-PX800G Memory Card Camera Recorder

AJ-PX800G: Bundled with AG-CVF15G Color LCD Viewfinder

- 2/3-type Shoulder-Type HD Camera Recorder with Three Image Sensors.
- Light weight of approx. 2.8 kg (6.2 lb).
- 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.)
- Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- RTMP/RTSP compatible streaming function.

AJ-PX380G Memory Card Camera Recorder

- 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*4.
- Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- RTMP/RTSP compatible streaming function.

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*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: Not available in some areas. *5: Requires the optional AJ-YC5000G AVCHD Codec Board.

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39 Memory Card Camera Recorder/Memory Card Recorder
As of August, 2019

Cinema Camera
Professional Camera Recorder
CX series
P2HD series
LCD Monitor

AJ-PX270
Memory Card Camera Recorder
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.
- 600% dynamic range with 1/3-type 3MOS sensors.
- 1080/60p² (60p) recording and 3G-SDI output.
- AVC-Intra200 or AVC-LongG high-quality images and dual codec recording of AVC-Proxy.
- Variable Frame Rate Supporting 1080p.
- 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.
- RTMP/RTSP compatible streaming function.

AJ-PX230™
Memory Card Camera Recorder
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.
- 1080/60p² (60p) recording and 3G-SDI output.
- AVC-Intra200 or AVC-LongG high-quality images.
- Variable Frame Rate Supporting 1080p.

AJ-PD500
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

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 1 microP2 card slot x 2 Network
24 bit Audio Analog I/O 3G-SDI I/O HDMI I/O
USB 3.0/2.0 Battery /DC

High Picture Quality AVC-Intra200 codec, A Compact Field Recorder Realizing Network Workflow.
- AVC-Intra200 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.)
- Clips are automatically uploaded to FTP server while recording (Rec during uploading).
- Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- RTMP/RTSP compatible streaming function.
- Versatile interfaces, including HDMI IN/OUT and 3G-SDI IN/OUT.
High Picture Quality Codec, High Reliable Media, HDR Support and Various Remotes for Broadcast and Professional Needs.

FHD Image Acquisition with AVC-ULTRA Codec
The AVC-ULTRA codecs feature high picture quality, high efficiency H.264 based video compression. The main recording can be selected from AVC-Intra200 for mastering, AVC-intra100 with FHD/60p/50p support, AVC-Intra50, or AVC-LongG (50/25/12) for FHD 10-bit 4:2:2 with affordable bit rate. While offering a low bit rate suitable for previewing, sub recording AVC-Proxy provides an FHD resolution mode that can be used as is for breaking news and similar applications. The conventional DVCPRO codec is also supported. *Applicable codec varies depending on the models. Please see page 47 to 48 for details.

HDR Support (AJ-PX5100GJ)
In addition to being equipped with HLG “Hybrid Log Gamma”, the following functions assist HDR acquisition.
- **SDR Monitoring Gamma**: Gamma curves for monitoring HLG images with the SDR viewfinder or other SDR monitor. These gamma curves possess characteristics for expressing the gradation in high-brightness area while maintaining the contrast of ordinary-brightness area.
- **HDR/SDR Output**: Dual SDI can output both HDR (HLG) and SDR (monitoring gamma) simultaneously.
- **One-Push HLG View**: While the viewfinder display with monitoring gamma ordinary, the gradation of high-brightness area can be checked by selecting HLG temporarily.
- **High-Brightness Zebra Display**: The zebra pattern can be displayed in white-out areas of the viewfinder image.
* BT.709 color gamut (BT.2020 is not supported)

Advanced Network Functions Support Streaming and File Transfer

Single Dongle, Flexible Network Connection
Proxy preview, camera remote, and playlist editing can all be done on a PC, Mac, or tablet connected to wireless LAN. When connected to the internet, files can be transferred and live streaming can be done. Nimble operation is possible using single dongle of the Wireless Module (optional: AJ-WM50/WM50G, AJ-WM30 or third party products). Wired LAN connection and LiveU/TVU bonding services are also supported. The connection method is selected to match the usage environment.

RTMP/RTSP Compatible Full-HD Streaming
Full-HD streaming is possible while images are being acquired. Both RTSP and RTMP streaming methods are compatible. And Facebook, YouTube, and other streaming services are supported. A unique QoS (Quality of Service) mode* optimizes the bit rate according to the network conditions for stable streaming distribution. High performance is also achieved by linking to P2SS (streaming server).*2

Reliable Recording Media:
P2 Card/microP2 Card
The P2 card, which was designed for broadcast use, features a rugged case and highly reliable connector. The microP2 card features high reliability and a large capacity together with a reduced size and cost. In an emergency, an SD memory card can also be used.

Versatile Remote Control Compatibility
- **10-pin Remote Terminal**: All camera recorder models are equipped. Dedicated cord supplies power to the remote control and a composite video to confirm the menu. Camera remote operation is enabled with the optional AG-EC4G Extension Remote Control Unit or AK-HRP200G Remote Operation Panel.
- **IP Remote (LAN Terminal)**: All camera recorder models are equipped. Remote operation, including menu settings, is possible by using the optional AK-HRP200G Remote Operation Panel.
- **iPad Remote**: All camera recorder models are compatible. P2 ROP APP (downloadable for free from the App Store) for the following iPad*1 wireless remote control operations: picture quality setting, rec start/stop, clip thumbnail display and proxy preview, metadata display and editing.
* For all remote controllers, only functions that are supported by each camera recorder can be controlled.
*1: It supports iOS 12.
* The Apple App Store and iPad are service marks or trademarks of Apple Inc. registered in the United States and other countries.

Image 37x206 to 402x532: Picture simulated
A Revolutionary Solution to News Operations Achieved by P2 and IoT Technology

By connecting the AJ-PX5100GJ/PX800G/PX380G/PX270/PG50 to the cloud-based P2 Cast integrated control system, a connectivity that approaches live relay can be achieved with automatic operation and camera control for interviews and other ENG. The system also helps to reduce costs.

*For details, see P2 Cast <https://pro-av.panasonic.net/en/p2cast/index.html>*

**Automatic Upload from a P2cam to a Cloud Server**

Recorded clips are automatically uploaded in the background from a P2cam to a cloud server. The Rec During Upload function also enables recording and playback while transferring data. In the event that the network connection or power is cut off during the data transfer, the transfer operation resumes immediately after the network connection or power is restored. This allows the camera operator to concentrate on shooting without being bothered by uploading operations.

**Near-Live Upload**

This is a unique P2cam and P2 Cast solution. In the Near Live mode, image data is split into 2-minute files, and those proxy video data files are automatically and sequentially uploaded to the P2 Cast Cloud. The files can be previewed on a web browser. After the shooting/recording is finished, the data is merged into one clip on the P2 Cast Cloud. Then it can be shared on the web.

**News Content Web Sharing, Integrated Camera Control**

- 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 nonlinear editors and news systems.
- P2 Cast Mobile App: Connects smartphone cameras to P2 Cast/P2SS.

* Clips for Interval Rec, Loop Rec, One-Clip Rec, and One-Shot Rec are not automatically transferred. The streaming function also does not operate.

**P2 Streaming Server Delivers Full-HD Streaming**

- Provides stable streaming by original QoS technology.
- Features drag & drop and other intuitive GUI operations.
- 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 for Windows; Mac not supported)

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

AJ-SK001G
Ingesting Function Software Key**7
(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.

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.

AJ-SK001G
Ingesting Function Software Key**7
(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.

Memory Card Drive "expressP2 drive"

AU-XPD3*

Memory Card Drive "expressP2 drive"

*1: The AU-XPD3 do not support the CPS (Content Protection System). *2: Requires the optional AJ-P2AD1G Memory Card Adapter to use the microP2 card.

*3: Connection of the AU-XPD1 requires two USB cables. Power supply to be connected with an AC adaptor or USB 3.0 port of PC. *4: Encoding formats cannot be used because the microP2 Card B Series does not support the CPS (Content Protection System). If the card is mistakenly formatted with a P2 device, card access will be temporarily disabled. It can be recovered by removing a card from P2 equipment. *5: “AVC-Intra100 of 1080/59.94p,50p recording” and “AVC-Intra200 recording” is not supported. *6: For P2 Viewer Plus download and operating requirement information, see “P2 Viewer Plus” on the Panasonic website https://pro-av.panasonic.net/en/sales_o/p2/p2viewerplus/ *7: For information on purchasing software keys, see “Service and Support” on the Panasonic website https://pro-av.panasonic.net/
### Optional Accessories

**As of August, 2019**

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✓: 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: For details please visit Panasonic website (https://pro-av.panasonic.net/en/sales_o/p2/server/wireless_module.html)  
*3: Memory Card Adapter AJ-P2AD1G is required.  
*4: “AVC-Intra100 of 1080/59.94p,50p recording” and “AVC-Intra200 recording” is not supported.
Optional Accessories

AG-CA300G
Camera Adapter
* Not available in some areas.

AG-B300
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-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

AJ-YCX500G
AVCHD Codec Board

AJ-WM50G
Wireless Module*
* Not available in some areas.

AJ-WM30
Wireless Module*
* Not available in some areas.

Connection Confirmed Wireless Module*
(including third-party products)

*1: A version upgrade may be required for the software version of some camera recorders. For details please visit Panasonic website (https://pro-av.panasonic.net/en/sales_o/p2/server/wireless_module.html)
As of August, 2019

Cinema Camera
Professional Camera Recorder
CX series
P2HD series
LCD Monitor

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

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)
AG-B23
Battery Charger

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.

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)

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)
## Recording Codec Specifications

<table>
<thead>
<tr>
<th>Recording Codes</th>
<th>Digital Video</th>
<th>Digital Audio</th>
<th>Recording Codes</th>
<th>Headroom</th>
<th>Recording Times*2</th>
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<td>Sampling Frequency</td>
<td>Quantizing</td>
<td>Video Compression</td>
<td>Audio Signal*1</td>
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<td>AVC-Intra200</td>
<td>(59.94 Hz) Y: 74.1758 MHz Pa/Pb: 37.0879 MHz Y: 74.2500 MHz Pa/Pb: 37.1250 MHz (50 Hz)</td>
<td>10 bit</td>
<td>MPEG-4 AVC/H.264 Intra Profile</td>
<td>48 kHz/24 bit, 16 CH 48 kHz/24 bit, 4 CH</td>
<td>Approx. 32 min.</td>
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<td>AVC-Intra100</td>
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<td>AVC-Intra50</td>
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<td>Approx. 128 min.</td>
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<td>AVC-LongG50</td>
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<td>Approx. 128 min.</td>
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<td>48 kHz/4 CH 48 kHz/24 bit, 4 CH</td>
<td>Approx. 128 min.</td>
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<td>AVC-LongG12</td>
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<td>Approx. 480 min.</td>
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<tr>
<td>DVCPRO HD</td>
<td>(59.94 Hz) Y: 74.1758 MHz Pa/Pb: 37.0879 MHz Y: 74.2500 MHz Pa/Pb: 37.1250 MHz (50 Hz)</td>
<td>8 bit</td>
<td>DV-Based compression (SMPTPE370M)</td>
<td>48 kHz/24 bit, 8 CH 48 kHz/24 bit, 4 CH</td>
<td>Approx. 64 min.</td>
</tr>
<tr>
<td>DVCPRO 50</td>
<td>Y: 13.5 MHz Pa/Pb: 6.75 MHz (50 Hz)</td>
<td>8 bit</td>
<td>DV-Based compression (SMPTPE314M)</td>
<td>48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH</td>
<td>Approx. 128 min.</td>
</tr>
<tr>
<td>DVCPRO</td>
<td>Y: 13.5 MHz Pa/Pb: 3.375 MHz (50 Hz)</td>
<td>8 bit</td>
<td>DV-Based compression</td>
<td>48 kHz/16 bit, 4 CH 48 kHz/16 bit, 2 CH</td>
<td>Approx. 256 min.</td>
</tr>
<tr>
<td>DV</td>
<td>Y: 13.5 MHz Pa/Pb: 3.375 MHz (50 Hz)</td>
<td>8 bit</td>
<td>DV Compression (JE 61834-2)</td>
<td>48 kHz/16 bit, 4 CH 48 kHz/16 bit, 2 CH</td>
<td>Approx. 256 min.</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 another or, 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 Codec</th>
<th>AJ-PX100GJ</th>
<th>AJ-PX800G</th>
<th>AJ-PX380G</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC-Intra200</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVC-Intra100</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVC-Intra50</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVC-LongG50</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVC-LongG25</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVC-LongG12</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVCPRO HD</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVCPRO 50</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVCPRO/DV</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVCHD</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Supported AVC-Proxy Recording Mode by Model

<table>
<thead>
<tr>
<th>Recording Mode</th>
<th>AJ-PX5100GJ</th>
<th>AJ-PX800G</th>
<th>AJ-PX380G</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC-GS 2CH MOV</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>SHQ 2CH MOV</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>HQ 4CH MOV</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>HQ 2CH MOV</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>LOW 2CH MOV*</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>STD 2CH MP4</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Each Recording modes differ for every model.

*1: Requires the optional AJ-YCXS00G AVCHD codec board.
As of August, 2019

**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</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</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/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>
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<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.

**Supported Models**

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

Playback only*1
Specifications

AJ-PX5100GJ

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° 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.)
(body 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)
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, 1/6, 1/64
Gain Setting: NORMAL mode:
HIGH SENS mode:
Super Gain (S.GAIN): Selectable from 30 dB, 36 dB, 42 dB
Shutter Speed: (Preset)
180.0 deg., 172.8 deg., 144.0 deg., 120.0 deg., 90.0 deg., 45.0 deg[
[50 Hz]]
180.0 deg., 172.8 deg., 144.0 deg., 120.0 deg., 90.0 deg., 45.0 deg
Shutter Speed: (Synchro Scan)
60/60p mode: 1/60.1 sec. to 1/7200 sec.
30p mode: 1/30.1 sec. to 1/3600 sec.
24p mode: 1/24.1 sec. to 1/2880 sec.
50/50p mode: 1/50.1 sec. to 1/6000 sec.
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/59.94P, 720/59.94P, 480/59.94i, 1080/50P, 1080/50i, 720/50P, 576/50i

Recording Format: AVC-Intra200/AVC-Intra100/AVC-Intra50/
DVCPRO HD/DVCPRO50/DVCPRO/DV
formats switchable


*Please see 47 – 48 page for Digital Video, Digital Audio and Proxy Specifications.

Video Input/Output

SDI IN:
SDI OUT:
VIDEO OUT:
HDMI OUT:

Audio Input/Output

AUDIO IN:
MIC IN:

Wireless Slot:
Audio OUT:

PHONES Out: Stereo o mini jack x 2
Speaker:

Other Input/Output

GENLOCK IN:
TC IN:
TC OUT:
DC IN:
DC OUT:
REMOTE:
LENS:
VF:
LAN:
USB 2.0 (Device):
USB 3.0 (Host):
USB 2.0 (Host):
LIGHT:

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:
HIGH SENS mode:
Super Gain (S.GAIN): Selectable from 30 dB, 36 dB, 42 dB
Shutter Speed: 60/60p mode: 1/60 (OFF) sec., 1/100 sec.,
1/125 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.,
1/125 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,
24p mode: 1/24 (OFF) sec., 1/50 sec., 1/60 sec.,
1/125 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,
50/50p mode: 1/50 (OFF) sec., 1/60 sec.,
1/125 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,
1/2000 sec.
25p mode: 1/25 (OFF) sec., 1/50 sec., 1/60 sec.,
1/125 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,
1/2000 sec.
Shutter Speed: 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 Speed: 60/60p mode: 1/15 sec., 1/30 sec.
30p mode: 1/15 sec.
24p mode: 1/12 sec.
50/50p mode: 1/12.5 sec., 1/25 sec.
25p mode: 1/12.5 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, 1080/23.98PfS, 720/59.94p,
480/59.94i, 1080/50i, 720/50p, 576/50i
Recording Format: AVC-Intra100/AVC-Intra50/AVC-LongG60/
DVCPro50/DVCPro/DV formats switchable
Recording Video Signal:
1080/59.94i, 1080/29.97Pn, 1080/23.98Pn,
720/59.94p, 1080/29.97Pn, 1080/23.98Pn,
480/59.94i, 480/29.97P, 1080/50i,
1080/25Pn, 720/50p, 720/25Pn,
576/50i, 576/25p

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/SD 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 x 1
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 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 (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-WM50/WM50G/WM30)

Included Accessories

Shoulder strap, Mount cap

*The optional AJ-YA600G SDI board is required.

*Please see 47 – 48 page for Digital Video, Digital Audio and Proxy Specifications.
**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)

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

### Camera Unit

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

**Lens Mount:**
1/3-type bayonet

**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
- HIGHSENS mode:
- −3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB

**Super Gain (S.GAIN):** Selectable 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:** (Synchro Scan)
60/60p mode: 1/60.0 sec. to 1/249.8 sec.

**Shutter Speed:** (Slow)
60/60p mode: 1/60 sec. to 1/249.8 sec.
30p mode: 1/30.0 sec. to 1/249.8 sec.
24p mode: 1/24 (OFF) sec., 1/50 sec., 1/60 sec.,
1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,
1/2000 sec.

**Shutter Open Angle:**
3.0 deg to 360.0 deg

**Sensitivity:**
NORMAL mode:
- F8 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)
- F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)
- HIGHSENS mode:
- 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, 1080/23.98p,F,
720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i

**Recording Format:**
AVC-Intra100/AVC-Intra50/AVC-LongG50/
AVC-LongG125/AVC-LongG12/DVCPro HD/
DVCPro50/DVCPro/DV

**Recording Video Signal:**
1080/59.94p, 1080/59.94i, 1080/29.97p,F, 1080/23.98p,F,
720/59.94p, 720/29.97p,F, 720/23.98p,F,
480/59.94i, 480/29.97p,F, 1080/50p, 1080/50i, 1080/25p,F,
720/50p, 720/25p,F, 576/50i, 576/25p

### Video Input/Output

**SDI OUT1:**
BNC × 1
HD SDI (3 G/1.5 G), SD SDI: 0.8 V [p–p], 75 Ω

**SDI OUT2/IN:**
BNC × 1, SDI OUT2, SDI IN (menu selection)
(Can be switched to HD SDI/SD SDI on SmartUI.)
HD SDI (1.5 G), SD DI: 0.8 V [p–p], 75 Ω

**GL IN/VIDEO OUT:**
BNC × 1, GENLOCK IN,
VIDEO OUT (menu selection)
GENLOCK IN: 1.0 V [p–p], 75 Ω

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

### Audio Input/Output

**Audio IN CH1/3, AUDIO IN CH2/4:**
XLR (3-pin) × 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) × 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 × 1, 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-WM50/WM50G/WM30)

**DC IN:**
XLR × 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

**EVF:**
20-pin

### Included Accessories

Shoulder strap, Mount cap

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*Please see 47 – 48 page for Digital Video, Digital Audio and Proxy Specifications.*
**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) (6-15/16 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

**ND 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/preset 5600 K (2000 K to 15000 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 [VFPR]=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.

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

### 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, 1080/59.45i, 1080/23.98PsF, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i


*Please see 47 – 48 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 OUTPUT:** 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 (32 Ω 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-WM50/WM500/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. 156000 dots)

**Viewfinder:** 0.5-type OLED (organic EL display) (Approx. 236000 dots, video display area: Approx. 177000 dots)

### Included Accessories

- Battery (NV-VBD85), Shoulder strap, Battery charger, AC adaptor, Microphone holder, Screw for microphone holder (12 mm), Power code x 2, Eye cup, Lens hood, Grip belt
** AJ-PX230 **

** 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)

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

** Camera Section **

- **Pickup Device:** 1/3-type 2.2 megapixels, MOS solid state image sensor x3
- **Lens:** Optical image stabilizer lens, optical 22x motorized zoom
- **Filter Diameter:** 72 mm
- **Optical System:** Prism system
- **ND Filter:** OFF, 1/4, 1/16, 1/64
- **Shortest Shooting Distance:** 1.1 m from the front lens (M.O.D.)
- **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)
- **Color Temperature Setting:** ATW, ATW LOCK, A ch, B ch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)

** AJ-PX230 **

** General **

- **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 [VFR] = [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]
      - 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: 1/24/60/9/12/15/18/20/21/22/24/25/26/27/28/30/32/34/36/40/44/48/54/60 fps (frames per second) 25 steps
  - 1080/50p: 1/24/60/9/12/15/18/20/21/22/23/24/25/26/27/28/30/32/34/37/42/45/48/50 fps (frames per second) 25 steps

** Specifications **

- **Sensitivity:** [HIGH SENS.] mode
  - F11 (2000 K, 3200 K, 89.9 % reflection, 1080/59.94i)
  - F12 (2000 K, 3200 K, 89.9 % reflection, 1080/50i)

- **Minimum Subject Illumination:** 0.02 lx
  - (F1.6, gain 18 dB, [S.EX.P], [HIGH SENS.] mode)

- **Digital Zoom:** 2x, 5x, 10x
- **Lens Hood:** Hood with lens cover

** Memory Card Recorder Section **

- **Recording Media:** microSD card
- **Recording Slot:** microSD card slot 2

** 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 Input **

- **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
- **USB 2.0 (Device):** Mini B connector, 4-pin
- **USB 2.0 (Sub-Host):** Type A connector, 4-pin
- **DC IN 12 V:** DC 12 V (DC 10.5 V – 13.5 V), EIAJ type 4

** Monitor and Viewfinder **

- **LCD Display:** 3.5-type QHD color monitor (Approx. 1568000 dots)
- **Viewfinder:** 0.5-type OLED (organic EL display) (Approx. 2360000 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
AJ-PD500

General

Power Source: AC 100 – 240 V, 50 Hz/60 Hz, 45 W
DC 12 V; 3.6 A (included option)

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

Operating Humidity: 10 % to 80 % (no condensation)

Storage Temperature: -20°C to 50°C (–4°F to 122°F)

Weight: Approx. 3.65 kg (8.05 lbs) (main unit only)

Dimensions: 210 mm (W) x 125.5 mm (H) x 253 mm (D)
(8-9/32 inches x 4-15/16 inches x 9-31/32 inches)
(not including the Handle, set foot, knob and terminal)

Recording Media: P2 card, microP2 card

Recording Formats: AVC-Intra200/AVC-Intra100/AVC-Intra50/
DVCPRO HD/DVCPRO50/DVCPRO/DV
(selectable)

Proxy: File Format: MP4 (ISO/IEC14496 standard),
MOV (QuickTime format)

Video Compression Formats: MPEG4 Simple Profile,
H.264/AVC Baseline Profile,
H.264/AVC High Profile

Audio: AAC-LC, Linear PCM

Video Recording Signals:
1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i,
1080/29.97PsF, 1080/25PsF,
1080/24PsF, 1080/23.98PsF
720/59.94p, 720/50p, 480/59.94i, 576/50i

Audio Recording Signals:
AVC-Intra200/AVC-LongG50/AVC-LongG25:
48 kHz, 24 bit, 8 CH
AVC-LongG12: 48 kHz, 16 bit, 4 CH
AVC-Intra100/AVC-Intra50:
48 kHz, 24 bit, 8 CH
48 kHz, 16 bit, 8 CH
DVCPRO HD: 48 kHz, 16 bit, 8 CH
DVCPRO 50: 48 kHz, 16 bit, 4 CH
DVCPRO/DV: 48 kHz, 16 bit, 4 CH

Video Specification (Digital Video)

Sampling Frequency:
AVC-Intra200/AVC-Intra100/AVC-LongG50/
AVC-LongG25/DVCPRO HD:
(59.94 Hz) Y: 74.1758 MHz, Pr/Pr: 37.0879 MHz
(50 Hz) Y: 74.2500 MHz, Pr/Pr: 37.1250 MHz
AVC-Intra100/AVC-LongG50
(1080/59p) Y: 148.3516 MHz, Pr/Pr: 74.1758 MHz
(1080/50p) Y: 148.5000 MHz, Pr/Pr: 74.2500 MHz
DVCPRO50: Y: 13.5 MHz, Pr/Pr: 6.75 MHz
DVCPRO Y: 13.5 MHz, Pr/Pr: 3.375 MHz

Quantizing:
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
MPEG-4 AVC/H.264 High Profile
DVCPRO HD:
DV-Based Compression (SMPTST370)
DVCPRO50/DVCPRO:
DV-Based Compression (SMPTST314)
DV:
DV Compression (IEC 61834-2)

Color Sampling:
AVC-Intra200/AVC-Intra100/
AVC-LongG50/AVC-LongG25:
Y: Pr = 4: 2: 2

Resolution:
AVC-Intra100/AVC-LongG25/AVC-LongG12:
1020 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)
DV-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)

Quantizing:
AVC-Intra200/AVC-Intra100/AVC-LongG25:
24 bit
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)

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 Output: BNC x 2 (HD/SD switchable)

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

HDMI Output*: HDMI x 1 (HDMI TypeA terminal),
VIERA Link not supported

Audio Input

Analog Input: XLR x 2 (CH1, CH2)

Digital Input: BNC x 2 (CH1/2, 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 (CH1/2, 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, 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, 1000BASE-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

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

General
Power Supply: DC 7.2 V (during battery use) DC 12 V (during AC Adaptor use)
Power Consumption: 21.4 W
Operating Temperature: 0°C to 40°C (32°F to 104°F)
Operating Humidity: 10 % to 80 % (non-condensing)
Storage Temperature: -20°C to 50°C (−4°F to 122°F)
Weight: 1.1 kg (2.4 lbs)
Dimensions: 108 mm (W) x 86 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 card, microP2 card
Proxy: File Formats:
MOV (QuickTime format)
Video Compression Formats:
H.264/AVC Baseline Profile, H.264/AVC High Profile Audio:
AAC-LC, Linear PCM

Video Specification (Digital Video)
Sampling Frequencies:
Quantization:
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
MPEG-4 AVC/H.264 High 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)
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)
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)
(VIERA Link not supported, HDCP supported)

Video Output
SDI Output: BNC x 1
HDMI Output*: HDMI x 1 (HDMI Type A)
(VIERA link not supported)

Audio Input
Analog Input: XLR x 2 (CH1, CH2)

Audio Output
SDI Output: BNC x 1
Analog Output (monitor / R/L):
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.