This P2HD recorder supports today’s network-based workflow while interfacing with conventional broadcast systems. In addition to conventional P2 card slots, the AJ-PD500 offers microP2 card slots, which dramatically reduce media costs.

AVC-ULTRA*1 codecs let you choose the quality and bit rate that suit your application from AVC-Intra200, which produces images that approach the level of uncompressed master quality; the popular AVC-Intra100/50; AVC-LongG50/25, with low-bit-rate operation and Full-HD 1920 x 1080, 4:2:2, 10 bit image quality; and AVC-LongG12, with 8 bit, 4:2:0 images and extended recording time. Lower-rate AVC-Proxy recording enables previewing, metadata input, and playlist editing over a network. In addition to handling DVCPRO HD/DVCPRO50/DVCPRO/DV codec recording and AVCHD playback.*2

The 3U half-rack size unit houses a wide range of interfaces, including Gbit Ethernet LAN, USB 3.0 (HOST), parallel remote, and RS-422A, while easy use is assured by JOG/SHTL/MENU dial operation. AC/DC power operation enables versatility — from outdoor use to mounting in an OB van or studio installation — for a wide range of broadcast applications.

*1: AVC-ULTRA is the name of Panasonic’s professional video codec family. The AJ-PD500 does not support all of the formats included in the AVC-ULTRA family.

*2: Requires the optional AJ-YCX500G AVCHD Codec Board.

The use of DCF Technologies is under license from Multi-Format, Inc.
**AVC-ULTRA Includes High-Quality AVC-Intra200 Codec**

From mastering to streaming, the image quality and bit rate can be selected to match the application. Panasonic's professional AV codec family, AVC-ULTRA, is provided as standard equipment for the first time ever, to meet the particular needs of broadcasting and image production.

**AVCIntra** An intra-frame compression method that is highly suited to image production. In addition to the conventional AVC-Intra100/50 codec, the AJ-PD500 features the AVC-Intra200 codec with twice the bit rate (10 bit quantization, 4:2:2 sampling, and a bit rate of approximately 200 Mbps*1). With superb images that approach uncompressed quality and 24 bit audio, it offers a level of quality that meets the needs of mastering and archiving.

**AVCLongG** An inter-frame compression method that achieves high-quality HD recording at a low bit rate. Ideal for providing on-air content direct from the shooting location and for workflow using content transferred over the internet. Three bit rates are available:

**AVCProxy** A low-bit-rate, high-resolution, high-quality proxy video (QuickTime/H.264) is also recorded with the actual data.*2 Also includes metadata for efficient offline editing. See the table (AVC-Proxy Recording Modes and Recording Signals) on Page 5.

*1: For 1080/59.94i. *2: Proxy data cannot be recorded when using AVC-Intra200, Loop Rec, Simul Rec, 48/59.94i and 576/50i. Proxy data refers to file-based data of low-bit-rate motion images and audio together with management data, such as a time code and metadata. The use of DCF Technologies is under license from Multi-Format, Inc.

**Network Solutions**

The low-rate AVC-Proxy including AVC-LongG6 codecs are well suited to high-speed workflows using a LAN or the internet. Their image and sound quality is high enough for use as a direct broadcast source for breaking news over the internet. They also allow images to be clearly confirmed for offline editing, to greatly streamline the workflow. The AJ-PD500 features a Gbit Ethernet LAN terminal, FTP client function, and FTP/Samba server function for file transfers over a LAN or the internet.* An HTTP server function can also be accessed from a web browser to provide the following solutions.

*Samba server function supports download only.

**Standard-Equipped microP2 Card Slots**

The AJ-PD500 is equipped with two slots for the microP2 card, the new broadcast-use memory card downsized to match the size of a conventional SD memory card.

- **microP2 card:** While inheriting the high reliability of the P2 card and maintaining the large capacity of 64 GB,*1 the microP2 card was greatly downsized to match the size of an SD memory card, thus resulting in a considerable reduction in cost.
- **Content Protection System (CPS):** A new security function featured on the microP2 card. The content recorded on the card is locked with a password to protect against unauthorized access. This prevents data from being stolen and ensures secure media control.
- **P2 Card Slots:** Two conventional P2 card slots can be used.*2
- **Highly Mobile and Reliable:** The microP2 and P2 cards are highly resistant to temperature changes, dust, impacts, and vibration, and there are no worries about condensation, head clogging, or dropout as there are with VTR systems. Data is recorded onto empty card spaces, so there is no need to search for the beginning and ending of recorded portions. There is also no danger of mistakenly recording over existing data.

*1: Total card capacity includes space for data management, such as system data; therefore, the actual usable area is less than the capacity indicated on the card. See the "Recording Times" table on Page 5 for recording times.

*2: The microP2 card and P2 card cannot be used simultaneously.

---

**Proxy Preview:** AJ-PD500 clips can be displayed as thumbnail images on a PC or Mac for previewing and streaming proxy images.

**Metadata Editing:** The metadata on AJ-PD500 clips can be searched and edited (or input) on a PC or Mac. The actual data and proxy data both share the metadata, so the edited results can also be reflected in the actual data.

**Playlist Editing:** Playlists can be edited and saved. They can also be played, SDI output, and copied using a web application. After editing the playlist on location or over the internet, proxy-image news flashes can be transmitted from the playlist. Then, the actual data can be FTP transferred or carried to the studio, and the previously sent playlist can be used for SDI output of program footage. Maximizing network functions helps to streamline and speed-up the workflow.
AVCHD Playback* and DVCPRO Series REC/Playback
AVCHD playback* and recording with DVCPRO Series codecs (DVCPRO HD/ DVCPRO50/DVCPRO/DV) are supported. A wide range of needs can be met for different users by selecting and adding to the system.

- AVCHD Playback*: Mounting the optional AJ-YCX500G AVCHD Codec Board allows use of a variety of AVCHD and other broadcast content.
- DVCPRO Series Codec Recording: Record/Playback with DVCPRO HD, DVCPRO50, DVCPRO, and DV codecs. For SD images, both NTSC (480i) and PAL (576i) systems are supported.

* Optionally available. Playback of all files recorded by AVCHD equipment cannot be guaranteed.

High-Quality 24 bit Audio Recording
High-quality 24 bit digital audio* recorded by AVC-Intra and AVC-LongG codecs is supported. Recording and playback of 48 kHz/24 bit/8 channel audio is possible with the AVC-Intra200 codec.

*To play video clips recorded with 24 bit audio, use a 24 bit compatible P2 device or P2 viewer. A P2 device that is not 24 bit compatible will display the clip number in red, and playback will not be possible. A P2 viewer that is not 24 bit compatible will produce normal sound. Use the latest P2 viewer version. For current information on 24 bit compatible P2 devices and P2 viewers, see the Service and Support section of the Panasonic website (http://panasonic.biz/sav).

Multi-Functional Recording with Two Pairs of Card Slots*
In addition to being able to selectively or continuously record onto two card slots each for microP2 and P2 cards, a host of exclusive memory card recording functions are available.

- Hot-Swap Rec: Thanks to the two card slots, you can hot-swap P2 cards for continuous non-stop recording. With multiple cards you can record for hours without interruption.
- Simul Rec*: The same data can be recorded simultaneously onto microP2 and P2 cards to provide a very safe recording mode.
- Auto Rec: This mode automatically starts recording in response to SDI video input.
- Loop Rec*: This is an endless recording mode in which older data is overwritten by newer data. When used with cameras for time-sensitive information gathering, like weather and news reporting, the Loop Rec mode holds the latest video data for a predetermined time period.

*1: Continuous recording cannot extend over both microP2 and P2 cards.
*3: Loop Rec cannot record when 1080/24PsF, 1080/25PsF, 1080/29.97PsF and AVC-Intra200.

Text Memo, Shot Marker and Metadata
- Text Memo: When recording or previewing a clip, you can attach a memo (similar to a bookmark) at a desired location (up to 100 locations on a frame basis). The simplified editing function lets you copy a segment between memos and create a new clip. Text information can be added to a memo.
- Shot Marker: During or after recording, you can mark each clip with OK, NG or another designation.
- Clip Metadata: This function lets you browse and edit metadata, such as the name of the camera operator and reporter, shooting location and text memos. Metadata files can be uploaded from an SD/SDHC/SDXC card.

USB Keyboard Connection
The USB 2.0 keyboard terminal lets you connect an ordinary USB keyboard for easy metadata text input. A software keyboard is also provided.

Gamma Conversion for Cinema Production
This function converts images recorded by a VariCam or images recorded in the Film Rec mode of the AJ-HPX3100 to achieve the same kind of film-like look as the Telecine 5 or Telecine 6 mode of the AJ-GBX27G HD Gamma Corrector. It can also convert to the Cineon curve for film recording.

Thumbnail, Ordinary Image and Waveform Display on an 8.76 cm (3-1/2 inches) LCD
- Thumbnail Display: Thumbnail images can be freely arranged for display, allowing instant playback, deletion or copying of selected clips.
- Image Full-Screen Display: Allows use as a recording or preview monitor.
- WFM: The AJ-PD500 has waveform and vectorscope display functions for the playback or input video signal on the LCD monitor. It can also display on Video Out and SDI Out.

Versatile Playback Functions
- Auto Playback: This automatically detects the codec for each video clip to play back and output.
- PB Position Selection: This lets you select the playback position when playing from a thumbnail image. You can select from three different options: Previous playback position, thumbnail time code position, or the beginning of the clip.
- One-Clip Playback: This convenient function lets you play only one clip with one-touch operation.
- Repeat Playback: This plays the selected clip (single or multiple) repeatedly.

Multi-Control Dial
In addition to VTR-like Jog and Shuttle playback, this dial lets you scroll when setting Menu items, and easily set the audio level.

User Buttons/User Files
Functions can be freely allocated to the six user buttons. These settings are saved internally and protected when the power is turned off. They can also be easily checked on a diagnostic display. A user file containing the settings can be saved onto an SD/SDHC/SDXC card.

Up/Down/Cross Convert Playout
The AJ-PD500 is capable of up conversion (SD to HD), down conversion (HD to SD) and cross conversion between HD signals (1080p, 1080i and 720p) during playback.
USB 3.0 Interface Allows High-Speed Transfers

- **USB 3.0 (Host):** AVC-LongG25 codec files can be copied to external storage*1 at approximately 12 times faster than real time.
- **USB 2.0 (Device):** Device mode allows use as a P2 card drive for a PC (nonlinear editor).
- **Playback from External Storage:** P2 MXF files in external storage can be displayed as thumbnails and played back.*2

*1: 2 TB or more cannot be used.
*2: Playback is based on disk drive performance, including spindle speed. Panasonic cannot guarantee smooth playback without dropped frames.

3G-SDI Input and Three 3G-SDI Outputs

3G-SDI input and three 3G-SDI outputs are standard features. This enables high-quality line recording from a video camera, switcher, etc. When connected to a camera recorder, Rec Start/Stop can be linked to the camera trigger. Super and thumbnail displays can be output.

Gigabit Ethernet LAN Port

The AJ-PD500 is provided with an Ethernet port (1000Base-T/100Base-TX/10Base-T) and features the following network functions. This enables the AJ-PD500 to connect to a network without using a PC for easy file transfers over the internet.
- **FTP Client Function:** This function lets you connect the AJ-PD500 to an FTP server to send or receive clips to or from the FTP server.
- **FTP/Samba Server Function:** You can access the AJ-PD500 from a PC via a LAN to upload* or download files.
- **HTTP Server Function:** You can view thumbnails and metadata from a PC.

*FTP server function only.

AES/EBU Digital Audio Input/Output

AES/EBU digital audio (4 channel, BNC terminals) input/output is a standard feature for interfacing with digital audio devices and digital VTRs.

Parallel Remote (15 Pin) Terminal

A 15 pin parallel remote terminal with function assign-ability lends flexibility to user system designs.

HDMI Digital HD Output

The AJ-PD500 features an HDMI output terminal*, the next-generation interface for HD images and sound. This provides digital output for a wide variety of both professional and consumer devices.

* An optional adaptor cable may be necessary for connecting a professional monitor.

RS-422A Remote

The AJ-PD500 also features the same RS-422A remote terminal (9 pin) that is found on many broadcast VTRs, allowing it to be controlled as a player by an external editing controller.

Analog Input/Output Terminals

The AJ-PD500 has Ref input, analog video monitor (composite) output,* XLR analog audio inputs/outputs (Ch 1/Ch 2), time code input/output, and a headphone output jack.

* This is not output when the system frequency is 24-Hz.

Compact, Lightweight Design, AC/DC Power Supply, and Built-in Speaker

- Compact, 3U half-rack size and light weight of approximately 3.65 kg (8.1 lbs) are ideal for OB van use.
- AC/DC power supply. Compatible with 100-240 VAC power and 12 VDC battery drive for both studio and field use.
- A built-in front speaker enables audio monitoring.
**Recording and Playback Codecs**

<table>
<thead>
<tr>
<th>Compression Formats</th>
<th>Video Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>1080/29.97PsF</td>
<td>1080/59.94i</td>
</tr>
<tr>
<td>1080/25PsF</td>
<td>720/59.94p</td>
</tr>
<tr>
<td>1080/24PsF</td>
<td>1080/50p</td>
</tr>
<tr>
<td>1080/23.98PsF</td>
<td>480/59.94i</td>
</tr>
<tr>
<td>1080/59.94i</td>
<td>576/50i</td>
</tr>
<tr>
<td>1080/50i</td>
<td>1080/59.94i</td>
</tr>
<tr>
<td>720/59.94p</td>
<td>1080/50p</td>
</tr>
<tr>
<td>720/50p</td>
<td>1080/59.94p</td>
</tr>
<tr>
<td>1080/50p</td>
<td>1080/59.94p</td>
</tr>
<tr>
<td>AVC-Intra200</td>
<td>Recording/Playback</td>
</tr>
<tr>
<td>AVC-Intra100</td>
<td>Recording/Playback</td>
</tr>
<tr>
<td>AVC-Intra50</td>
<td>Recording/Playback</td>
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<tr>
<td>AVC-Intra50</td>
<td>Recording/Playback</td>
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<tr>
<td>AVC-Intra50</td>
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<tr>
<td>AVC-Intra50</td>
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<tr>
<td>AVC-LongG50</td>
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<tr>
<td>AVC-LongG50</td>
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</tr>
<tr>
<td>AVC-LongG12*</td>
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<tr>
<td>AVC-LongG12*</td>
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<tr>
<td>AVC-LongG12*</td>
<td>Recording/Playback</td>
</tr>
<tr>
<td>AVC-LongG12*</td>
<td>Recording/Playback</td>
</tr>
<tr>
<td>DVCPRO HD</td>
<td>Recording/Playback</td>
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<tr>
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<td>DV</td>
<td>Recording/Playback</td>
</tr>
</tbody>
</table>

**Recording Times**

<table>
<thead>
<tr>
<th>Recording format (Compression Format)</th>
<th>Card x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>59.94Hz/50Hz</td>
<td>16 GB</td>
</tr>
<tr>
<td></td>
<td>32 GB</td>
</tr>
<tr>
<td></td>
<td>64 GB</td>
</tr>
<tr>
<td>AVC-Intra200</td>
<td>Approx. 6 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 16 min.</td>
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<tr>
<td></td>
<td>Approx. 32 min.</td>
</tr>
<tr>
<td>AVC-Intra100/ DVCPRO HD</td>
<td>Approx. 16 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 32 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 64 min.</td>
</tr>
<tr>
<td>AVC-LongG50/ AVC-Intra50/ DVCPRO 50</td>
<td>Approx. 32 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 64 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 128 min.</td>
</tr>
<tr>
<td>AVC-LongG125/ DVCPRO/ DV</td>
<td>Approx. 54 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 110 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 220 min.</td>
</tr>
<tr>
<td>AVC-LongG12</td>
<td>Approx. 64 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 128 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 256 min.</td>
</tr>
<tr>
<td>DVCPRO/DV</td>
<td>Approx. 108 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 220 min.</td>
</tr>
<tr>
<td></td>
<td>Approx. 440 min.</td>
</tr>
</tbody>
</table>

**AVC-Proxy Recording Modes and Recording Signals**

<table>
<thead>
<tr>
<th>Recording Mode</th>
<th>Resolution</th>
<th>Codec</th>
<th>Bit Rate</th>
<th>Codec</th>
<th>CH</th>
<th>Bit Rate/1CH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC-G6 2CH MOV</td>
<td>1080i: 1920 x 1080</td>
<td>H.264 High Profile</td>
<td>6 Mbps</td>
<td>AAC-LC</td>
<td>2 CH</td>
<td>64 kbps</td>
</tr>
<tr>
<td>SHQ 2CH MOV</td>
<td>960 x 540</td>
<td>H.264 High Profile</td>
<td>3500 kbps</td>
<td>Linear PCM</td>
<td>2 CH</td>
<td>768 kbps</td>
</tr>
<tr>
<td>HQ 4CH MOV</td>
<td>640 x 360</td>
<td>H.264 High Profile</td>
<td>1500 kbps</td>
<td>AAC-LC</td>
<td>4 CH</td>
<td>64 kbps</td>
</tr>
<tr>
<td>HQ 2CH MOV</td>
<td>640 x 360</td>
<td>H.264 High Profile</td>
<td>1500 kbps</td>
<td>AAC-LC</td>
<td>2 CH</td>
<td>64 kbps</td>
</tr>
<tr>
<td>LOW 2CH MOV</td>
<td>800 x 450</td>
<td>H.264 Baseline Profile</td>
<td>800 kbps</td>
<td>AAC-LC</td>
<td>2 CH</td>
<td>64 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>
<td>AAC-LC</td>
<td>2 CH</td>
<td>64 kbps</td>
</tr>
</tbody>
</table>

*For 1080/50i 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.*
## Video Compression Methods:

| AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV | 8 bit |
| AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-Intra100/AVC-Intra50: 24 bit/16 bit (selectable) |
| AVC-Intra6012: 24 bit/16 bit (selectable) |

### Quantizing:

- **AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-Intra100/AVC-Intra50/DVCPRO/DVCPRO/DV:** 16 bit
- **AVC-Intra6012:** 12 bit

### Sampling Frequency:

- **AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-Intra100/AVC-Intra50/DVCPRO/DVCPRO/DV:** 48 kHz [synchronized with video]

### Headroom:

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

### De-emphasis:

- T1=50 μs, T2=15 μs (auto on/off)

### Video Input

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

### Video Output

- **Reference 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 Type A terminal), VIERA Link not supported

### Audio Input

- **Analog Input:** XLR x 2 (CH1, CH2)
- **Digital Input:** BNC x 2 (CH1, CH2, 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 × 1 (monaural)

### Other Input and Output

- **Time Code Input:** BNC x 1, 0.5 V [p-p] to 8.0 V [p-p], 10 kHz
- **Time Code Output:** BNC x 1, low impedance, 2.0 V ±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:** USB3.0 HOST (TYPE A) x 1
- **USB Device:** USB2.0 DEVICE (TYPE A) x 1
- **Keyboard:**
  - USB2.0 (TYPE A) x 1 (maximum 100 mA)

## Specifications

### General

- **Power Source:** AC 100-240 V, 50 Hz/60 Hz, 45 W
- **Operating Temperature:** 0 °C to 40 °C (32 °F to 104 °F)
- **Operating Humidity:** 10 % to 80 % (no condensation)
- **Dimensions:** 210 mm (W) x 125.5 mm (H) x 253 mm (D)
- **Weight:** 3.65 kg (8.05 lbs) (main unit only)
- **Weight:** 3.13 g (0.11 oz) (option)

### Audio (Digital Audio)

- **Sampling Frequency:** 48 kHz [synchronized with video]
- **Quantizing:** AVC-Intra200/AVC-Intra100/AVC-Intra50: 24 bit/16 bit (selectable)
- **AVC-Intra6012:** 12 bit

### De-emphasis:

- T1=50 μs, T2=15 μs (auto on/off)

### Headroom:

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

### Video Input

- **Reference Input:** BNC x 1

### Video Output

- **Reference Output:** BNC x 1

### 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 × 1 (monaural)

### Input and Output

- **Time Code Input:** BNC x 1, 0.5 V [p-p] to 8.0 V [p-p], 10 kHz
- **Time Code Output:** BNC x 1, low impedance, 2.0 V ±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:** USB3.0 HOST (TYPE A) x 1
- **USB Device:** USB2.0 DEVICE (TYPE B) x 1
- **Keyboard:**
  - USB2.0 (TYPE A) x 1 (maximum 100 mA)

### Standard Accessories

- AC cable, CD-ROM (Manuals)

### Weight and Dimensions

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

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### Video Compression Formats:

- **AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-Intra100/AVC-Intra50/DVCPRO/DVCPRO/DV:** 24 bit
- **AVC-Intra6012:** 12 bit

### Video Input

- **Reference Input:** BNC x 1

### Video Output

- **Reference Output:** BNC x 1

### 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 × 1 (monaural)
Notes Regarding the Handling of P2 Files Using a PC

Mounting and Transferring Files

The PC must be installed with the included P2 driver in order to recognize, copy and transfer P2 files. This driver is also necessary when using the PC card slot and when handling P2 files stored on a hard-disk device, such as P2 store. For other operating requirements, refer to the P2 installation manual. The P2 driver and the P2 installation manual can be downloaded free from a Panasonic website. Visit <http://pro-av.panasonic.net/en/download/).

Preview and Nonlinear Editing

To preview (play) P2 files on a PC, it is necessary to install P2 Viewer Plus software (downloadable for free, for Windows and Mac), both from Panasonic, or P2-compatible editing software available from other companies (for details, visit http://pro-av.panasonic.net/en/sales_o/p2/partners.html). Note that each software places specific requirements on the operating environment, and the operating environment must meet additional requirements to play and edit HD content on Windows PCs and Macs. For P2 Viewer Plus download and operating requirement information, visit <http://pro-av.panasonic.net/en/download/). For operating requirements and details of other P2 editing software, visit the website of the relevant software manufacturer.

Precautions When Using SD Memory Cards

On the Memory Card Recorder, use SD memory cards that conform to the SD standard, SDHC standard, or the SDXC standard. When performing proxy recording (extra-cost option), use SDHC memory cards, SDXC memory cards, or Panasonic SD memory cards with the class description of class2 or higher. The MMC (Multi Media Card) cannot be used. Be sure to format cards on the Memory Card Recorder before use. In this Memory Card Recorder, memory card of the capacity of SD (8 MB to 2 GB), SDHC (4 GB to 32 GB), and SDXC (32 GB to 128 GB) can be used.

**P2HD,** "AVC-Intra," "AVC-Proxy," "DVCPRO HD," "DVCPRO 50" and "DVCPRO" logos are registered trademarks of Panasonic Corporation. SDHC logo and SDXC logo are trademarks of SD-3C, LLC. Quick Time is a trademark of Apple, Inc., registered in the U.S. and other countries.

Panasonic

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