

## P2 Asset Support System

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#### 5 year extended warranty program

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5th year with the warranty program

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- \* Availability of this extended service program and service content may depend on country/region and model.
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- \* Not all repair work is covered by this extended warranty program.

Please refer to the latest Non-linear Compatibilty Information, P2 Support, Download and Service Information, etc. at the following Panasonic web site.



#### 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/ and click "P2 Support and 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/. 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 Camera 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 Camera Recorder before use. In this Memory Card Camera 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.

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Factories of AVC Networks Company have receive ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)

## **Panasonic**



## The "ULTRA" Handheld

The world's first\*1 handheld camera recorder to support the AVC-ULTRA\*2 codec family.



\*2: AVC-ULTRA is the name of Panasonic's professional video codec family. The AJ-PX270 does not support all of the formats included in the AVC-ULTRA family.

















### Featuring superb image quality, functionality and operability matching shoulder-type camera and network capability, this hand held camera recorder revolutionize ENG workflow.

The AJ-PX270 is a compact, lightweight professional ENG camera recorder for broadcast applications. It inherits Panasonic's accumulated broadcast technologies and know-how to offer high performance, easy operation and excellent versatility rivaling many shoulder-type models. The AJ-PX270 is



# ULTRA SPEED

#### Wired/Wireless LAN Network Functions\*1

The standard LAN (Ethernet) port allows network connection via a wired LAN. When installed with the optional AJ-WM30 Wireless Module, the AJ-PX270 gains wireless LAN (IEEE 802.11g/n) connectivity, enabling access to the following functions from a network-connected PC/Mac, tablet device or smartphone. The AJ-PX270 gives you a ready-to-use, cost-effective IT solution.

- Proxy Preview: Plays back proxy files (AVC-Proxy), downloads file/clip information, displays and allows editing of metadata, and enables addition/deletion of shot marks and text memos.\*2
- Camera Remote: Allows confirmation of camera status and thumbnails and also enables remote camera control (recording, time code setting, and user bits).
- File Transfer: The FTP client function lets you transfer clips from the camera recorder to a network.
- Playlist Editing:\*<sup>3</sup> Playlists can be created using proxy video with a PC/Mac or tablet. The workflow can be streamlined and faster by rough editing on location, and then transferring the content files.\*<sup>4</sup> The results can be saved together with the edited playlist, then played out of the camera and /or copied using a web application.
- \*1: For the OS, browser, device compatibility information, see "Service and Support" on the Panasonic website (http://pro-av. panasonic.net/).
- \*2: Some functions are not supported by some devices.
- \*3: Available in the near future.
- \*4: For a wireless LAN connection, the AJ-WM30 Wireless Module is required.

#### 4G/3G Network Connectivity (Available in the near future)\*5

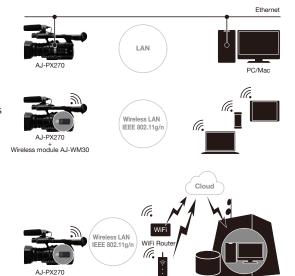
The AJ-PX270 can send data directly to a network server via FTP allowing broadcast stations to edit recorded data immediately at the editing desk.

\*5: 46/3G module is required from the 3rd party. For details, please go to Panasonic web page http://pro-av.panasonic.net/ For the OS, browser, device compatibility information, see "Service and Support" on the Panasonic website (http://pro-av.panasonic.net/)

#### Video Streaming Capability (Available in the near future)

The AJ-PX270 is capable of proxy image streaming via a wired LAN, wireless LAN, 4G or 3G. It enables live streaming while recording images onto a memory card.

The use of DCF Technologies is under license from Multi-Format, Inc.





Public wireless LAN

FTP Server

Wireless module AJ-WM30



# ULTRA QUALITY

#### Newly Designed 22x Zoom Lens

The AJ-PX270 features a newly developed, high-performance, compact zoom lens. Zooming from 28mm to 616mm (35mm equivalent), this 22x zoom lens covers a wide field of view, from wide-angle to telephoto, without the need for a conversion lens. Combining 18 lens elements in 12 groups, this advanced lens unit further adds a UHR (Ultra High Refractive) glass element, a low dispersion element and aspherical lenses. This newest optical technology provides superbly high resolution. In addition, it is combined with our unique, Emmy awarded digital signal processing technology called Chromatic Aberration Compensation (CAC) to minimize color bleeding in the surrounding image areas and to achieve rich expression with finely rendered nuances and excellent shading.



Wide 28 mm

Tele 616 mm (22x)

22x optical zoom x 10x digital zoom (220x)

### Three Manual Rings and Ultra Low-Speed Seesaw Zoom Levers

The AJ-PX270 has three manual rings: a mechanical (cam-type) zoom ring, a focus ring and an iris ring. The operating feel and rib pattern of these rings are carefully designed to make manual operation feel using an interchangeable lens. The focus ring is knurled for reliable fingertip control of delicate focusing. The seesaw zoom levers (grip/handle) support extra-slow zooming down to 180 seconds.



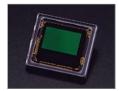
Lens Ring

#### Optical Image Stabilizer (OIS), Digital Zoom and ND Filter

- Hand-shake correction with the built-in optical image stabilizer (OIS).
- Equipped with a digital zoom function.\*1 Magnification control can be assigned to a user button for quick zooming to 2x, 5x or 10x. It provides a telephoto capability of up to 220x in combination with the optical zoom.
- Built-in ND filter (OFF, 1/4, 1/16, 1/64).
- \*1: Flash Band Compensation will not operate while digital zooming.

### High Sensitivity and Low Noise with New 1/3-Type 3MOS Image Sensors

Newly developed 2.2 megapixel 1/3 type 3MOS (RGB) image sensors offer full-pixel HD (1920 x 1080) resolution, F11 (59.94 Hz) or F12 (50 Hz) sensitivity\*2 and low noise. They also achieve rich gradation and vibrant color reproduction.
\*2: With [HIGH SENS.] mode



1/3 type, 2.2 megapixel MOS sensor

#### Image Adjustment Function from a New Menu

The AJ-PX270's camera signal processing LSI enables hue-adjustable 12 axis color compensation for each color gamut, independent 3 axis skin-tone color compensation, and also has a detailed image adjustment function. The new image adjustment menu brings you intuitive image control.



New image adjustment menu

Setting Items: H detail, V detail, detail coring, skin tone detail, chroma level, color temperature, master pedestal, knee, matrix, color correction, RB gain control, chroma setting, black control, gamma, high color, white clip.

#### Professional Image Quality and Advanced Functions

- Advanced Flash Band Compensation (FBC): High-precision flash band detection and compensation.
- DRS (Dynamic Range Stretch): Suppresses blocked shadows and blown highlights to achieve a visually wide dynamic range.
- Gamma: Select from 7 mode gamma curves (HD/SD/FILMLIKE 1/FILMLIKE 2/FILMLIKE 3/FILM-REC/VIDEO-REC).
- Three-position Gain Selector and +36dB Super Gain: The 3-position gain selector can be assigned with gain levels selected from a range of -3 dB to +18 dB to its L, M and H positions. The AJ-PX270 is also equipped with a +24 dB/+30 dB/+36 dB Super Gain function to enable extra-high sensitivity recording of scenes with subject luminance of as low as 0.02 lx.\*3
- Electronic Shutter with Slow Shutter Capability: The shutter speed can be set in seven steps between 1/60 and 1/2000 second (60i/60p mode). It is also equipped with Slow and Synchro Scan (variable) mode. The shutter opening angle (deg value) can be set with synchro scan mode.
- Shockless Auto White Balance: A smooth transition occurs when switching White Balance modes. This is effective, for example, when moving from outdoors to indoors.

\*3: When set to F1.6, 18 dB gain, 1-second accumulation, [HIGH SENS.] mode

#### Variable Frame Rate Supporting 1080p

The Variable Frame Rate function (AVC-Intra100)\*\*4 was inherited from the Panasonic VariCam, which is widely used for producing movies, TV series and TV commercials. Featuring a variable frame rate of 1 to 60 fps, this function creates a wide range of film-camera-like images, such as overcranking for slow-motion and undercranking for quick-motion effects.

\*4: Pre-Rec, Loop Rec, Interval Rec, One-Shot Rec, Dual Rec and One-Clip Rec cannot be used while recording at the native variable frame rate.



Overcranking (higher-speed shooting)



Undercranking (lower-speed shooting)

#### **Advanced Focus Assist Functions**

A variety of focus assist functions support quick and accurate focusing in manual focus mode.

- Turbo-Speed One-Push AF: Pressing the PUSH AUTO button enables focusing in 0.5 seconds or less.\*5
- Focus-in-Red Display: Emphasizes the image areas in focus by marking the edges in red.
- Expand: Enlarges the center portion for increased visibility.
- Focus Bar: The meter graphically displays the focus level.
- \*5: The focusing time varies depending on the shooting conditions and subjects.





Focus-in-Red

Expand

### Camera Section

#### Industry's First\* OLED EVF and High-Resolution LCD Panel

The AJ-PX270 is the first professional handheld camera recorder to feature a viewfinder with a high-resolution OLED display (approximately 2,360 K dots; image display area: approximately 1,770 K dots) for minimal image delay and superb color reproduction. The LCD monitor uses a QHD IPS LCD panel. These allow more easy focusing.



OLED EVF

\* The first handheld camera recorder with OLED EVF, as of March 2014, according to a Panasonic survey.

#### New Built-in Electronic Level Gauge

The electronic level lets you easily confirm camera tilting on the LCD monitor screen. It helps to keep the camera level during handheld shooting, low-angle shooting and high-angle shooting.



Electronic Level Gauge

#### Other Recording Support Functions

• Scene File/User File: Six preset scene files can be changed freely. One set of scene files can be stored internally in the AJ-PX270, and eight sets can be stored on an SD Memory Card. In addition, one user file containing camera settings can also be stored internally in the AJ-PX270, and eight files can be stored on an SD Memory Card.

Scene File Preset (Initial Settings): F1 for standard setting,

F2 (FLUO.) for shooting under fluorescent lights, F3 (SPARK) for emphasizing contrast, F4 (B-STR) for enhanced gradation of luminance in low-light scenes, F5 (CINE V) for cine-like setting with priority on contrast, and F6 (CINE D) for cine-like setting with priority on dynamic range.

- Eight User Buttons: Functions can be freely assigned to the eight user buttons.
- WFM/VECTOR: Simplified waveform and vectorscope display.
- Mode Check: Displays a list of the camera settings on the viewfinder and LCD monitor.
- Zebra: Select any two levels from among 0% to 109%, in 1% steps. A mode also allows two patterns to be overlaid and displayed.
- Y-GET: Measures brightness at the center and displays numerical data.
- Knee Mode Setting (AUTO/MANUAL/OFF).
- Two-value (A/B) memory and preset (3200/5600/VAR) white balance selector.
- Scan Reverse Function: Displays/records images in vertically or horizontally inverted orientation.



#### **AVC-ULTRA Codec Supported as Standard**

The AJ-PX270 is the first handheld camera recorder that features the AVC-ULTRA codec family as standard. To meet the various needs from mastering to streaming, the image quality and bit rate can be selected to match the application.



(See the table on the next page.)

AVC-Intra using intra-frame compression method which is highly suited to image production. In addition to the conventional AVC-Intra100/50, AVC-Intra200 codec will be available as option.\*1 Visually lossless images quality and superb 24 bit audio, it offers a level of quality that meets the needs of mastering or archiving.

This inter-frame compression method achieves highquality HD recording at a low bit rate. Ideal for providing on-air content direct from the shooting location and for workflows using content transferred over the internet. Three bit rates are available: AVC-LongG50/25/12 Mbps. AVC-LongG25 provide 10 bit/4:2:2 quality at a bit rate of approximately 25 Mbps.

Low-bit-rate, high-resolution, high-sound quality proxy video (Quick Time/H.264) can be recorded simultaneously with main video.\*1 Also includes metadata for efficient offline editing.



\*1: Available in the near future. Proxy data cannot be recorded when using the Loop Rec or Interval Rec function. Proxy data is low-resolution video and audio data with time code, metadata, and other management data in a file format. The use of DCF Technologies is under license from Multi-Format, Inc.

#### Dual Codec Recording for Smooth Network Connection\*2

The AJ-PX270 can record the main video data (MXF format) with an AVC-Intra100/50 or AVC-LongG50/25 codec, while simultaneously recording proxy video data at a low bit rate. Using the network function, it is capable of IP transmission of proxy video data via LAN, wireless LAN\*3 or 4G/3G network.\*4 This enables news flash distribution and advance editing before the main video data arrives, dramatically speeding up the video production workflow.

- \*2: Some formats are not supported depending on the recording mode. For details, visit Panasonic website (http://pro-av.panasonic.net/).
- 3: For a wireless LAN connection, the AJ-WM30 Wireless Module is required
- \*4: Available in the near future. 4G/3G module is required.
  The use of DCF Technologies is under license from Multi-Format, Inc.

#### Metadata Function Supporting Wireless Connection

The metadata function attaches metadata (text memos tagged to time, GPS data, selected character strings and frames) to P2 files. Metadata can be edited using a tablet or smartphone connected via USB or wireless LAN.\*5 Metadata can be used effectively for searching and management, facilitating the editing, distribution and archiving of video data.

\*5: For a wireless LAN connection, the AJ-WM30 Wireless Module is required.

#### High-Quality 24 Bit 4 Channel Audio Recording

AVC-Intra and AVC-LongG\*6 modes support 24 bit digital audio recording\*7 (16 bit for DVCPRO HD, DVCPRO 50, DVCPRO and DV). The AJ-PX270 offers 4 channel audio in all recording modes. Channel input locates in front and rear (both selectable from mic/line). The level volume also supports 4 channels.

- \*6: The AVC-LongG12 mode does not support 24 bit digital audio recording.
- 7: The audio signal can be played back by using 24 bit digital audio equipment. For details, refer to "Note Regarding 24 bit Audio" on page 9.

#### MicroP2 Card Slots

The AJ-PX270 comes with two slots for the microP2 card, the 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,\*8 the microP2 card was greatly downsized to match the



size of an SD Memory Card, resulting in a considerable reduction in cost. One P2 card slot is also provided for the use of a conventional P2 card.\*9

- 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 enables secure media control.
- 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.

\*8: 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 6 for recording times.

\*9: microP2 and P2 cards cannot be simultaneously recorded on.

#### HD/SD Multi Format/Multi Codec

In addition to 1080/60i,\*10 the AJ-PX270 supports 24p,\*10 30p,\*10 60p,\*10 and 720p multi HD format and SD recording. 59.94 Hz/50 Hz switchable for convenient use in productions headed for global use.

\*10:60i, 60p, 24p, and 30p are actually recorded at 59.94 Hz, 23.98 Hz, and 29.97 Hz respectively.

#### **Full Frame Progressive Recording**

1080/60p\*11 (50p) full frame progressive recording is supported for the first time in the AJ-PX270. In addition to being able to record with the AVC-Intra100 or AVC-LongG25/LongG12 codec, the camera can is capable of camera through output from the 3G SDI and HDMI output terminals. \*11: 60p is actually recorded at 59.94 Hz.

#### Multifunctional Recording\*12 Including Simultaneous Recording

- Simultaneous Rec:\*13 Records simultaneously onto two microP2 cards. A recording mode that continuously records onto one of the two cards will be available in the near future.
- Hot-Swap Rec:\*13 Thanks to the two card slots,\*14 you can hot-swap microP2 cards for continuous non-stop recording.
- One-Clip Rec Mode: Records up to 99 consecutive cuts as a single clip. A text memo is automatically attached to the Rec Start point for easy searching for the beginning of the cut.
- Pre Rec: This stores approximately 3 seconds of HD or 7 seconds of SD video and audio data in memory while in standby mode and lets you recover and use the data from the point before you started recording.
- Loop Rec: Maintains a recording of a certain time period through repeated loop recording.
- Interval Rec: Automatically records intermittently based on a set interval and recording time.
- One-Shot Rec: A frame-shot recording function for producing animations.
- Text Memo:\*15 Up to 100 memos can be posted onto a clip as bookmarks.
- Shot Marker:\*15 Used to mark clips as OK, NG, etc.
- Last Clip Delete: Deletes the last recorded clip with a single touch.
- Rec Check: This lets you run a quick playback check of the clip-end you have just recorded.
- \*12: microP2 and P2 cards cannot be simultaneously recorded.
- \*13: Recording is possible only through the microP2 card slots.
- \*14: Slots cannot be switched during recording.
- \*15: The text memo and shot mark cannot be added in Loop Rec, Interval Rec, or One-Shot Rec mode.



### Recorder Section

#### **Recording Codecs and Video Formats**

Codec					10	180							720			4	30	57	76
Codec	60p	50p	60i	50i	30p	30pN	24p	24pN*2	25p	25pN	60p	50p	30pN	24pN	25pN	60i	30p	50i	25p
AVC-Intra200 (option)*1	_	_	√*¹	<b>√</b> *1	_	<b>√</b> *1	_	<b>√</b> *1	_	<b>√</b> *1	_	-	-	_	_	_	_	_	_
AVC-Intra100	1	1	1	1	_	1	_	1	_	1	1	1	<b>√</b> *1	<b>√</b> *1	√*1	-	_	_	_
AVC-Intra50	_	_	1	1	_	_	_	-	_	_	1	1	_	_	_	_	_	_	_
AVC-LongG50	_	_	1	1	_	<b>√</b> *1	_	<b>√</b> *1	_	<b>√</b> *1	1	1	-	_	_	_	_	_	_
AVC-LongG25	1	1	1	1	_	<b>√</b> *1	_	<b>√</b> *1	_	<b>√</b> *1	1	1	-	-	_	_	_	_	_
AVC-LongG12	1	1	1	1	_	_	_	-	_	_	1	1	_	_	-	_	_	_	_
DVCPRO HD	_	_	1	1	<b>√</b> *1	_	<b>√</b> *1	-	<b>√</b> *1	_	1	1	<b>√</b> *1	<b>√</b> *1	√*1	_	_	_	_
DVCPRO 50	_	_	_	_	_	_	_	-	_	_	_	-	_	_	_	1	1	1	1
DVCPRO	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1	1	1	√
DV	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1	1	1	J

<sup>\*1:</sup> Available in the near future. \*2: 1080/23.98 PsF output will be supported in the near future.

#### Recording Times\*3

#### AVC-Proxy Recording Modes and Recording Signals (when using 1080-60i/50i recording for main video)\*5

Recording format (Compression	Card x 1						
Format) 59.94Hz/50Hz	16 GB	32 GB	64 GB				
AVC-Intra200 (Option)*4	Approx. 8 min.	Approx. 16 min.	Approx. 32 min.				
AVC-Intra100/ DVCPRO HD	Approx. 16 min.	Approx. 32 min.	Approx. 64 min.				
AVC-LongG50/ AVC-Intra50/ DVCPRO 50	Approx. 32 min.	Approx. 64 min.	Approx. 128 min.				
AVC-LongG25/ DVCPRO/DV	Approx. 64 min.	Approx. 128 min.	Approx. 256 min.				
AVC-LongG12	Approx. 120 min.	Approx. 240 min.	Approx. 480 min.				

Recording Mode		Video	Audio				
necording wode	Resolution	Codec	Bit Rate	Codec	СН	Bit Rate/1CH	
AVC-G6 2CH MOV	1920 × 1080	H.264 High Profile	6 Mbps	AAC-LC	2CH	64 kbps	
SHQ 2CH MOV	960 × 540	H.264 High Profile	3500 kbps	Linear PCM	2CH	768 kbps	
HQ 2CH MOV	640 × 360	H.264 High Profile	1500 kbps	AAC-LC	2CH	64 kbps	
LOW 2CH MOV	480 × 270	H.264 Baseline	800 kbps	AAC-LC	2CH	64 kbps	



# ULTRA USABILITY

### New Design – Switches Match Like Those on Shoulder-Type Models

The AJ-PX270 was designed for easy operation as an ENG camera. It inherits the functions, switch layout and dials of shoulder-type camera recorders. Users of professional shoulder-type camera recorders will be

able to take advantage of the mobility of the AJ-PX270 immediately.

- Front Rec Button: The front Rec button is positioned immediately below. When a tripod is used, this button allows smooth recording starts after operating the lens.
- Industry First\* Front Audio Level Dials: This is the industry's first handheld camera recorder to feature audio input level controls (which can be allocated with ON/ OFF and CH) on the front side of the unit. This allows quick operation during recording.
- Industry First\* Triple Toggle Switches: Three toggle switches DISP/MODE CHECK, GAIN and WHITE BAL are provided. They are located at the same location as on a shoulder-type model to support operation during recording.
- Audio Level Dials: Large 2-channel (switchable between CH1/ and CH2) audio level dials.
- \* As of March 2014, according to a Panasonic







### New Design — Separately Positioned XLR Audio Input Terminals

The AJ-PX270 is equipped with 2-channel XLR mic/line audio input terminals supporting a +48V phantom power supply. They are arranged on the front and rear sides of the unit, just like on a shoulder-type model. The front mic terminal is located behind the rear mic mounting section, eliminating problems resulting from catching protrusions on the side panel. The rear external audio



terminals are located on the right side for comfortable holding of the AJ-PX270 against the chest during recording, and also permit easy connection and disconnection while holding the camera recorder in shooting position.

#### **Battery Replacement during Recording**

The large-capacity battery is housed in the main body, and does not extend beyond the rear panel. This ensures comfortable holding of the AJ-PX270 against the chest. When power is supplied to the DC power supply input terminal using the AC adaptor, the battery can be changed while recording.

#### Handle with Multi-Stage Zoom Lever

The zoom lever located on the upper part of the handle is also provided with a multi-stage variable zoom function. It provides the same smooth zooming operation from a super-low speed as the zoom lever on the hand grip, allowing smooth zooming when shooting from a low angle or using a tripod.



### New Design Offering Enhanced Mobility and Easy Operation

Even with its high-power zoom lens, the AJ-PX270 is compact and has a low center of gravity. It remains stable during handheld shooting, and provides excellent visibility and a wide field of view. The lens hood with a built-in cover improves convenience and safety while moving. The magnesium alloy diecast chassis is rugged and durable.



#### 3G SDI Output and HDMI Output

- 3G SDI OUT: A 3-Gbps speed supports 1080/60p and 50p progressive full frame image output. Can be set to HD SDI or down-converted SD SDI. Allows Rec Start/Stop linked backup recording with a Panasonic recorder equipped with SDI input.
- HDMI OUT: This terminal allows digital A/V output to a wide range of devices such as an HD monitor.
- Aspect Conversion: The aspect ratio can be selected from among Side Crop, Letter Box, or Squeeze mode when down-converting and outputting from the SDI OUT terminal.

### Operation & Connection

#### **USB 3.0 High-Speed Transfer Interface**

- USB 3.0 (HOST): High-speed file copying to external storage.\*
- USB 2.0 (DEVICE): Allows use as a P2 card drive.
- \* Storage media with more than 2 TB of capacity cannot be used.

### Multi-Camera Synchronizing with Genlock IN and TC IN/OUT

This handheld camera recorder supports a multi-camera configuration. It features a built-in SMPTE time-code generator/reader, TC input/output, and Genlock input for multi-camera recording with time-code synchronization. Images can be synchronized and output to a switcher, providing the same level of operation as many shoulder-type models.

#### **Interfaces and Devices**

- Supports live video transfer uplink equipment (scheduled for the near future).
- Equipped with an audio output terminal (stereo mini-jack).
- Equipped with a headphone terminal (stereo mini-jack).
- Back tally, rear tally equipped. ON/OFF switchable.
- Camera Remote: Focus, iris, zoom and REC start/stop can be controlled.





Rear Terminal (when cover is open)





AG-MC200G XLR Microphone



VW-VBD58 Battery Pack (5,800 mAh) CGA-D54/CGA-D54s Battery Pack (5,400 mAh)



AG-B23 Battery Charger



AJ-WM30 Wireless Module



AJ-P2M064AG AJ-P2M032AG microP2 Card



AJ-P2E064FG AJ-P2E032FG AJ-P2E016FG Memory Card "P2 card" F Series\*1



AJ-MPD1G "microP2 drive" Memory Card Drive Compact, lightweight, cost-effective USB-Bus powered microP2 card drive with USB 3.0 support and 2 card slots.



AJ-AKR200G Upgrade Software Key Enables AVC-Intra 200 codec recording. \* Available in the near future.



AJ-PCD2G "P2 drive" Memory Card Drive USB-Bus powered 1 slot P2 drive Ideal for mobile application.



AJ-PCD30 "P2 drive" Memory Card Drive 3-slot drive with USB 3.0 interface for high-speed 1.5 Gbps data transfer.



AJ-PCD35 "P2 drive" Memory Card Drive High-speed PCI Express interface.

Avid NLE Plug-In Software



AJ-PD500 "P2 portable deck" Memory Card Recorder AVC-ULTRA and microP2 supported. A half-rack size recorder for a highquality, cost-effective workflow



P2 Viewer Plus\*2 Viewing Software Supports P2HD. This Windows/Mac utility makes it easy to view and copy



AJ-SK001G (for P2 Viewer plus) Ingesting Function Software Key\*3 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.



AJ-PS001G Software Key for AVC-Proxy re-link.



AJ-PS002G Software Key for AVC-Intra50/100 P2 file export.



AJ-PS003G Software Kev for AVC-LongG P2 file export.



AJ-PS004G Software Key for AVC-LongG file import to edit.

- \*1: The P2 card F Series may require P2 equipment software to be updated. Please go to the P2 support page on the Panasonic web page http://pro-av.panasonic.net/
- \*2: For information on purchasing software keys, see "Service and Support" on the Panasonic web page http://pro-av.panasonic.net/
  \*3: For P2 Viewer Plus download and operating requirement information, see "P2 Viewer Plus" on the Panasonic web page http://pro-av.panasonic.net/en/sales\_o/p2/p2viewerplus/

Tiles recorded using 24 bit audio must be played back with 24 bit compatible P2 equipment or the P2 Viewer Plus. If clips are played back with equipment not compatible with 24 bit audio, the clip number will be indicated in red and the clips will not be played back. For the latest information on 24 bit compatible P2 equipment and P2 Viewer Plus, see "Support & Download" on the Panasonic web page http://pro-av.panasonic.net/

### Specifications

General	
Power:	DC 7.2 V (when the battery is used)
Power consumption:	DC 12 V (when the AC adaptor is used)  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) (excluding protrusion) (6-15/16 inches x 6-23/32 inches x 12-15/16 inches)
Camera Unit	
Pickup Device:	1/3-type 2.2 million pixels, MOS solid state image sensor ×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:	
(M.O.D.) Gain Setting:	Approx. 0.06 m from front lens (When Macro=On, at wide-end) L/M/H selector switch-3 dB to 18 dB (in 1 dB steps)
dain setting.	(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, Ach, Bch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)
Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz
	<ul> <li>60i/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.</li> <li>30p mode: 1/30 sec., 1/50 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.</li> <li>24p mode: 1/24 sec., 1/50 (shutter off) sec., 1/60 sec., 1/100 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.</li> <li>50i/50p mode: 1/25 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.</li> <li>1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.</li> <li>1/250 sec., 1/500 sec., 1/50 (shutter off) sec., 1/60 sec., 1/1000 sec., 1/1000</li></ul>
Slow Shutter Speed:	Setting is possible when [VFR]=[0FF] When [SYSTEM MODE] = 59.94 Hz  • 60i/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. When [SYSTEM MODE] = 50 Hz  • 50i/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.
Synchro Scan Shutter:	When [SYSTEM MODE] = 59.94 Hz and [SYNC SCAN TYPE] = [sec]  • 60i/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.  When [SYSTEM MODE] = 50 Hz and [SYNC SCAN TYPE] = [sec]  • 50i/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 180.0 deg to 360.0 deg (in 0.5 deg steps, angle display)
VFR Recording Frame Rate	: •1080/59.94p: 1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40, 44, 48, 54, and 60 (frames per second) •1080/50p: 1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 37, 42, 45, 48, and 50 (frames per second)
Sensitivity:	[HIGH SENS.] mode F11 (2000 lx, 3200 K, 89.9% reflection, 1080/59.94i) F12 (2000 lx, 3200 K, 89.9% reflection, 1080/50i)
Minimum Subject Illumina	ation: 0.02 lx (F1.6, gain 18 dB, [1S.EXP.], [HIGH SENS.] mode)
Digital Zoom:	x2/x5/x10
Lens Hood:	Hood with lens cover
Memory card recorde	
Recording Media: Recording Slot:	microP2 card, P2 card microP2 card slot ×2, P2 card slot ×1
System Format:	1080/59.94p, 1080/59.94i, 720/59.94p, 480/59.94i
	1080/50p, 1080/50i, 720/50p, 576/50i
Recording Format:	AVC-Intra100/AVC-Intra50/AVC-LongG50/ AVC-LongG25/AVC-LongG12 DVCPRO HD/DVCPR050/DVCPR0/DV formats
Recording Video Signal:	1080/59.94p, 1080/59.94i, 1080/29.97pN, 1080/23.98pN, 720/59.94p, 480/59.94i, 480/29.97p 1080/50p, 1080/50i, 1080/25pN, 720/50p, 576/50i, 576/5p
Recording/Playback Time:	AVC-Intra100/DVCPR0 HD: 16 GBx1 Approx. 16 min. 32 GBx1 Approx. 32 min. 64 GBx1 Approx. 64 min. AVC-Intra50/AVC-LongG50/DVCPR050: 16 GBx1 Approx. 32 min. 32 GBx1 Approx. 64 min.
	64 GB×1 Approx. 128 min. AVC-LongG25/DVCPRO/DV: 16 GB×1 Approx. 64 min. 32 GB×1 Approx. 128 min. 64 GB×1 Approx. 256 min.
	AVC-LongG12: 16 GB×1 Approx. 120 min. 32 GB×1 Approx. 240 min. 64 GB×1 Approx. 480 min.

NC-Intra100/AVC-Intra50/AVC-LongG50/ VC-LongG25/AVC-LongG12/DVCPRO HD Y: 74.1758 MHz, P <sub>B</sub> /P <sub>R</sub> : 37.0879 MHz (59.94 Hz) Y: 74.1758 MHz, P <sub>B</sub> /P <sub>R</sub> : 37.1250 MHz (50 Hz) VCPR050 Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 6.75 MHz VCPR0 Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 3.375 MHz VC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bits VC-LongG12/DVCPR0 HD/DVCPR050/DVCPR0/DV: 8 bits VC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 VCPR0 HD: DV-Based Compression (SMPTE 370M) VCPR050/DVCPR0: DV-Based Compression (SMPTE 314M) VC: DV Compression (IEC 61834-2) VC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPR0 HD/DVCPR050: 48 kHz/16 bits, 4CH
Y: 74.1758 MHz, P <sub>B</sub> /P <sub>R</sub> : 37.0879 MHz (59.94 Hz) Y: 74.2500 MHz, P <sub>B</sub> /P <sub>R</sub> : 37.1250 MHz (50 Hz) VCPR050 Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 6.75 MHz VCPR0 Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 6.75 MHz VCPR0 Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 3.375 MHz VC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bits VC-LongG12/DVCPR0 HD/DVCPR050/DVCPR0/DV: 8 bits VC-LongG12/DVCPR0 HD/DVCPR050/DVCPR0/DV: 8 bits VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 VCPR0 HD: DV-Based Compression (SMPTE 370M) VCPR0 HD: DV-Based Compression (SMPTE 374M) V: DV Compression (IEC 61834-2)  VC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPR0 HD/DVCPR050: 48 kHz/16 bits, 4CH
Y: 74.2500 MHz, P <sub>B</sub> /P <sub>R</sub> : 37.1250 MHz (50 Hz)  VCPR050  Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 6.75 MHz  VCPR0  Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 3.375 MHz  VC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bits  VC-LongG12/DVCPR0 HD/DVCPR050/DVCPR0/DV: 8 bits  VC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile  VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264  VCPR0 HD: DV-Based Compression (SMPTE 370M)  VCPR0 HD: DV-Based Compression (SMPTE 314M)  V: DV Compression (IEC 61834-2)  VC-Intra100/ AVC-Intra50:  8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch  VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH  VC-LongG12/DVCPR0 HD/DVCPR050: 48 kHz/16 bits, 4CH
NCPR050 Y: 13.5 MHz, PB/PR: 6.75 MHz VCPR0 Y: 13.5 MHz, PB/PR: 3.375 MHz VC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bits VC-LongG12/DVCPR0 HD/DVCPR050/DVCPR0/DV: 8 bits VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 Intra Profile VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 VCPR0 HD: DV-Based Compression (SMPTE 370M) VCPR050/DVCPR0: DV-Based Compression (SMPTE 314M) V: DV Compression (IEC 61834-2)  VC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG50/AVC-LONGG25: 48 kHz/24 bits, 4CH
Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 6.75 MHz WCPRO Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 3.375 MHz WCPRO VC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bits WC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits WC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 Intra Profile WC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 WCPRO HD: DV-Based Compression (SMPTE 370M) WCPRO50/DVCPRO: DV-Based Compression (SMPTE 314M) W: DV Compression (IEC 61834-2)  WC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch WC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH WC-LongG50/AVC-LongG55: 48 kHz/24 bits, 4CH WC-LongG50/AVC-LongG55: 48 kHz/24 bits, 4CH
Y: 13.5 MHz, P <sub>B</sub> /P <sub>R</sub> : 3.375 MHz  VC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bits VC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 Intra Profile VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 VCPRO HD: DV-Based Compression (SMPTE 370M) VCPRO50/DVCPRO: DV-Based Compression (SMPTE 314M) V: DV Compression (IEC 61834-2)  VC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG50/AVC-LONGG25: 48 kHz/24 bits, 4CH
VC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bits VC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits VC-LongG12/DVCPRO+Intra50: MPEG-4 AVC/H.264 Intra Profile VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 VCPRO HD: DV-Based Compression (SMPTE 370M) VCPRO50/DVCPRO: DV-Based Compression (SMPTE 314M) V: DV Compression (IEC 61834-2)  VC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG50/AVC-LONGG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPRO HD/DVCPRO50: 48 kHz/16 bits, 4CH
WC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits WC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile WC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 WCPRO HD: DV-Based Compression (SMPTE 370M) WCPRO50/DVCPRO: DV-Based Compression (SMPTE 314M) W: DV Compression (IEC 61834-2)  WC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch WC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH WC-LongG12/DVCPRO HD/DVCPRO50: 48 kHz/16 bits, 4CH
VC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile VC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 VCPRO HD: DV-Based Compression (SMPTE 370M) VCPRO HD: DV-Based Compression (SMPTE 314M) V: DV Compression (IEC 61834-2)  VC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH witch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPRO HD/DVCPRO50: 48 kHz/16 bits, 4CH
WC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 WCPRO HD: DV-Based Compression (SMPTE 370M) WCPRO50/DVCPRO: DV-Based Compression (SMPTE 314M) W: DV Compression (IEC 61834-2)  WC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch WC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH WC-LongG12/DVCPRO HD/DVCPRO50: 48 kHz/16 bits, 4CH
IVCPRO HD: DV-Based Compression (SMPTE 370M) IVCPRO50/DVCPRO: DV-Based Compression (SMPTE 314M) IV: DV Compression (IEC 61834-2) IVC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch IVC-LongG60/AVC-LongG25: 48 kHz/24 bits, 4CH IVC-LongG12/DVCPRO HD/DVCPRO50: 48 kHz/16 bits, 4CH
WCPR050/DVCPR0: DV-Based Compression (SMPTE 314M) W: DV Compression (IEC 61834-2)  WC-Intra100/ AVC-Intra50:  8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch WC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH WC-LongG12/DVCPR0 HD/DVCPR050: 48 kHz/16 bits, 4CH
V: DV Compression (IEC 61834-2)  VC-Intra100/ AVC-Intra50:  8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch  VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH  VC-LongG12/DVCPR0 HD/DVCPR050: 48 kHz/16 bits, 4CH
VC-Intra100/ AVC-Intra50: 8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPRO HD/DVCPR050: 48 kHz/16 bits, 4CH
8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPRO HD/DVCPR050: 48 kHz/16 bits, 4CH
8 kHz/16 bits, 4CH and 48 kHz/24 bits, 4CH switch VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPRO HD/DVCPR050: 48 kHz/16 bits, 4CH
VC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4CH VC-LongG12/DVCPR0 HD/DVCPR050: 48 kHz/16 bits, 4CH
VC-LongG12/DVCPRO HD/DVCPRO50: 48 kHz/16 bits, 4CH
VCPRU/DV: 48 KHZ/16 01ts, 4CH
2 dB/18 dB/20 dB switchable menu
40\/
MOV
I.264/AVC Baseline Profile, H.264/AVC High Profile
AC-LC, Linear PCM
e (1 GB)* <sup>2</sup> :
VC-G6 2CH MOV: Approx. 13 min.
HQ 2CH MOV: Approx. 25 min.
IQ 2CH MOV: Approx. 78 min. OW 2CH MOV: Approx. 135 min.
OVV ZCIT IVIOV. Approx. 133 IIIIII.
NC×1, HD (3G/1.5G), SD: 0.8 V [p-p], 75 Ω
$NC \times 1$ , Also used as the GENLOCK IN, IN/OUT switch selection
composite: 1.0 V [p-p], 75 $\Omega$
IDMI×1
HDMI type A terminal, not compatible with VIERA Link)
isin type it terminal not compatible than the title end,
upports stereo microphone
T 2:
LR×2, 3 pin.Input high impedance, LINE/MIC switch selection
INE: 4 dBu/0 dBu (selectable menu)
/IC: -40 dBu/-50 dBu/-60 dBu (selectable menu),
48 åV on/off (switch selection)
.5 mm diameter stereo mini jack $\times$ 1, Output level: 600 $\Omega$ , 316 mV
.5 mm diameter stereo mini jack ×1
00 Ω, –16 dBV (32 Ω load, at maximum output level)
0 mm diameter, round ×1
.5 mm diameter super mini jack ×1 Z00M S/S
.5 mm diameter mini jack ×1 FOCUS IRIS
NC×1, also used as the VIDEO OUT, IN/OUT switch selection,
.0 V [p-p], 75 Ω
NC×1
Ised as the input and output terminals, IN/OUT switch selection
nput: 1.0 V = 4.0 V [p-p], 10 kΩ lutput: 2.0 V $\pm$ 0.5 V [p-p], low impedance
00BASE-TX/10BASE-T
ype miniB connector, 4 pin
ype A connector, 9 pin
ype A connector, 4 pin (exclusively for wireless module AJ-WM30)
C 12 V (DC 10.5 V - 13.5 V), EIAJ type 4
•
.5 type QHD color monitor (Approx. 1560000 dots)
.5 type OLED (organic EL display)
Approx. 2360000 dots, video display area: Approx. 1770000 dots)

Digital video

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

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

<sup>\*1:</sup> Figures are for continuous recording as one clip. Depending on the number of clips, the overall recording time may be shorter than the above.
\*2: These are reference values for continuous recording using the Panasonic products. The recording time may differ depending on the scene or the number of clips.