







Superior usability for existing HD and new 4K video production with simultaneous UHD(4K)/HD/SD output and standard B4 mount for standard 2/3" lenses

With the newly developed large-format 4K sensor, AK-UC3000 4K Studio Camera produces highly expressive 4K video with rich gradation in addition to supporting simultaneous HD/SD.





AK-UC3000

4K Studio Camera

AK-UC3000GJ (Tajimi connector model) AK-UC3000GSJ (LEMO connector model)

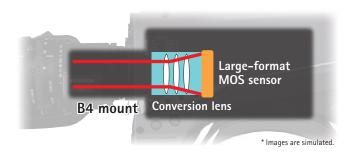


 Lens and viewfinder are optional. Photo shows a system example using Fujinon 2/3-type 4K ULTRA HDTV Zoom Lens.

Internal conversion lens allows use of existing 2/3" type lenses for 4K shooting

New-generation 4K video

Applying built-in conversion lens, 2/3-type lens can be used with this 4K large-format camera without an adapter achieving excellent image quality. The new imaging system makes maximum use of incident light to achieve a wide dynamic range.



UHD and HD/SD output supported*1

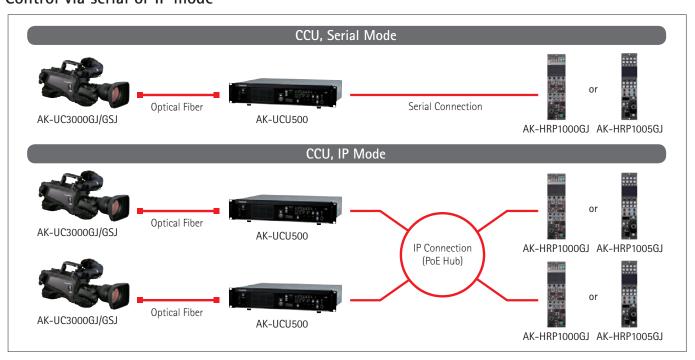
The AK-UC3000 camera system handles UHD as well as HD/SD output simultaneously*1. You can select the video output based on applications. (See below chart for the supported video format.)

List of supported formats

| UHD (3G-SDI x 4) | 3840×2160/59.94p, 50p, 29.97p, 25p, 23.98p, 29.97PsF, 25PsF, 23.98PsF |
|---------------------|---|
| HD (3G-SDI) | 1080/59.94p, 50p, 59.94i, 50i, 23.98p over 59.94i, 29.97PsF, 25PsF, 23.98PsF, 720/59.94p, 50p |
| SD | 480/59.94i, 576/50i |

^{*1:} AK-UCU500 Camera Control Unit (CCU) outputs UHD/HD/SD video.

Control via serial or IP mode



AK-UC3000 Key Features

High-quality video and excellent operability

With the AK-UCU500 Camera Control Unit (CCU), uncompressed long-distance transmission of 4K/HD video signals via optical fiber is supported. The AK-HRP1000GJ/1005GJ Remote Operation Panel (ROP) is equipped with a color LCD display that provides excellent visibility. In combination, this system achieves high-quality video and excellent operability. In cases where power is supplied by the CCU, it is possible to transmit at a long distance of up to approx. 2,000 m between the camera and the CCU. The distance on be extended up to 10,000 m*1 by providing a local power supply at the camera head and using general-purpose single mode optical fiber. Between the CCU and the ROP, in addition to a dedicated serial line, IP connection via LAN cable is also supported.

High sensitivity and low noise

The AK-UC3000 is equipped with a newly developed large-format 4K MOS sensor. Two shooting modes can be selected. In High Sense Mode, it is possible to obtain an S/N ratio of 60 dB or higher while also achieving F10 high sensitivity. The result is low-noise and high-image-quality video.

■ Skew reduction realized through high-speed scans

Building on the knowhow accumulated in Panasonic's ENG camera experience, the skewing characteristic of MOS sensors has been reduced by reading out the MOS sensor signal at high speed.



* Images are simulated.

Chromatic Aberration Compensation (CAC)

This exclusive technology utilizes communication between the lens and camera to deploy for a sophisticated algorithm that will automatically compensate for the registration error caused by lens chromatic aberration, and minimize the circumjacent blur.*2

Images showing CAC (Chromatic Aberration Compensation) function effect

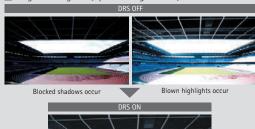


* Images are simulated

■ Dynamic Range Stretch (DRS) function*3

The DRS function automatically suppresses blocked shadows and blown highlights. When dark and bright areas are mixed in the same scene, such as when looking outside from indoors, DRS can maintain a high level of gradation expression in dark, bright, and intermediate tones, thereby minimizing blocked shadows, blown highlights, and washed out colors. This makes it possible to obtain visually wide dynamic range video in real time.

■ Images showing DRS (Dynamic Range Stretch) effect





* Images are simulated.

■ Selectable gamma curves

In addition to the Film Rec Gamma functions (V–REC, F–REC) supporting digital film production, you can select the Filmlike 1/2/3 modes. They produce natural gradations and rich color reproduction with a film-like quality.

■ HDR (High Dynamic Range) compatibility



This mode enables the camera to apply an alternative optical electro transfer function (OETF) to selected camera outputs so that the camera can provide a high dynamic range (HDR) image for capable displays or function in a complete HDR live broadcast system. HDR displays use their increased brightness and contrast capabilities to take advantage of the cameras full dynamic range to deliver compelling high contrast images with very bright highlights.

■ Shockless gain

It is possible to smoothly transition the image changes that occur when gain is changed. In addition, with the 0.1 dB step master gain adjustment function, you can fine tune the adjustments to match the scene being shot.

Diverse color correction functions

In addition to EBU and NTSC preset color matrix, camera users can save two custom specified linear matrix tables, and additionally tune the saturation and hue individual colors with 12-pole color correction system. Specific skin tones can also be adjusted in addition to the primary secondary and tertiary colors in the 12-pole system.

Skin Tone Detail Correction

Tone down wrinkles and blemishes in on air personalities to beautifully shoot natural skin tones. While designed to soften skin tones the skin tone detail feature can be applied to any hue phase so it could likewise be used to soften areas of other colors (such as green grass). The skin tone detail feature can define three independent skin tone ranges to manage different light levels or different people on camera. Skintone-get feature finds a specific color in frame to simplify the set up process.

■ Images showing Skin Tone Detail Correction effect



* Images are simulated.

^{*1:} Adverse conditions, additional patching and longer runs will require repeater devices. *2: For software supporting Chromatic Aberration Compensation (CAC) file, please download from "Software download" on Panasonic website: http://pro-av.panasonic.net/en/ *3: Only when in HD mode.

■ Servo control ND/CC filters

The cameras are equipped with filters for a variety of shooting environments. [ND filters] CAP, Through, 1/4, 1/16, 1/64 [CC filters] Cross, 3200 K, 4300 K, 6300 K, Diffusion

Focus assist functions

Quick and accurate focusing is supported with focus assist functions such as Focus Bar (indicates focus level), Focus-in-Red (uses color to indicate areas in focus), MAG (magnifies central portion), and Square (shows focus status of screen as a whole). Lenses with auto focus and focus assist capabilities are also supported*1.

Focus assist function examples









Ooll in focus

Panel in focus

Camera standalone output formats

For camera head output (HD SDI 1/HD SDI 2), it is possible to select 1080p, 1080i, and 720p.

■ Extensive video and data transmission (TRUNK) functions

Since video and data can be transmitted between the camera and a Camera Control Unit (CCU) using optical fiber cable alone, system expansion to match operation conditions is possible.

- HD SDI (CCU→camera) two lines, VBS (CCU→camera) two lines: Can be used for monitoring with prompter, fixed return or camera (studio floor monitor), etc.
- HD SDI (camera—CCU) one line*2: This line can be used to transmit an
 additional video signal of a handheld or remote camera to the studio.
 Since the camera video input is equipped with a frame synchronizer,
 asynchronous video signals can also be used.
- LAN (1000BaseT)*² one line: To be used to control external devices and remote cameras by IP protocol. Transmission of streaming video is also supported.
- DATA (RS422A or RS232C) two lines: Can be used to transfer lens and pedestal position data in a virtual system.

HD SDI (Fixed Return) HD SDI (PROMPT) VBS 1 VBS 2 HD SDI (PROMPT) VBS 1 VBS 2 HD SDI (PROMPT) VBS 1 VBS 2 HD SDI (PROMPT) A CONTROL OF THE SDI (PROMPT) DATA 1 RS422A Or RS232C DATA 2 RS422A Or RS232C DATA 2 RS422A Or RS232C

Detailed settings and functions optimized for operability

- •Color temperature display and adjustment function (2000 K to 15000 K variable).
- •Transmission of up to 10,000 m possible using single fiber.*3
- It is possible to save camera settings, such as video adjustments, on an SD memory card. Firmware version upgrades are also supported.
- ·A lens file function to save flare and shading values.
- ·Support for IP streaming and IP control.
- •The NewTek Software "NewTek AutoLink for Panasonic PTZ"*4, which is available on the Internet, allows Panasonic professional cameras equipped with IP streaming to be automatically detected from NewTek TriCaster® and IP series Video Mix Engine on the network, enabling direct use of IP streaming from the cameras with these NewTek products.
- •DC12 V 2.5 A and 1.0 A output as a standard feature. This can be used as a power source for large lenses, prompters, and sub-monitors.
- •There are four user buttons (enabling function selection) on the camera head and four on the viewfinder. They support rapid shooting by the camera operator.

■ Intercom connection

With two independent intercom lines, in addition to Intercom 1 and Intercom 2 switching, an Intercom 1 and 2 mix mode has been added and can be selected to observe the situation. With the Intercom front/rear switch and front volume, it is possible to adjust the intercom audio level even when the camera is being used from the shoulder.

■ Intercom Operation Panel



New slanted-line design improves mobility and operability

The functional layout of controls improves ease of use and operator performance. The low profile body design, along with the low center of gravity, enhances right side visibility and comfort for the operator. The shoulder pad can be in a 24 mm range so you can increase shooting stability by adjusting the balance when lens weight changes.



- *1: For the compatible lenses, please contact the manufacturer.
- *2: Cannot be utilized when the camera system is UHD(4K) and HD high-speed mode is used.
- *3: Adverse conditions, additional patching and longer runs will require repeater devices.
- *4: For more details, please visit the following website (http://pro-av.panasonic.net/en/products/newtek_autolink/).

Camera System

AK-UCU500

Camera Control Unit (CCU)

AK-UCU500PJ/AK-UCU500EJ (Tajimi connector model) AK-UCU500PSJ/AK-UCU500ESJ (LEMO connector model)

The same AK-UCU500 supports both the AK-UC3000 4K capable camera and the AK-HC5000 HD high speed camera, as do the other main camera accessories, so production rental companies have flexibility in preparing a camera rental or fly-pack.



Rear View



- Optical fiber transmission of uncompressed video signals over a distance of approx. 2,000 m between camera and CCU*1.
- The compact, lightweight unit measures 2U in height and is rack-
- Supported formats

UHD $(3G-SDI \times 4)^{*2}$: 3840×2160/59.94p, 50p, 29.97p, 25p, 23.98p,

29.97PsF, 25PsF, 23.98PsF

HD (3G-SDI): 1080/59.94p, 50p, 59.94i, 50i, 23.98p over 59.94i, 29.97PsF, 25PsF, 23.98PsF, 720/59.94p, 50p

SD: 480/59.94i, 576/50i

- Supports IP streaming (100 Base-T).
- SD memory card can be used for saving user files and updating firmware versions
- Input/output

SDI OUT x 7, SDI OUT (PM) x 1, VBS x 1, etc.

*4K MODE*2 : SDI OUT x 4 (4K), SDI OUT x 3, SDI OUT (PM) x 1, VBS x 1, VBS (PM) x 1

RET Input (SDI: 4ch, VBS: 1ch) etc. LAN-TRUNK (100/1000BASE-T)

PROMPT Input (SDI: 1ch, ANALOG: 2ch)

AK-HRP1000GJ AK-HRP1005GJ

Remote Operation Panel (ROP)

Expand operation scope with two size options: a full operation panel and a simplified panel. These compact operation panels also support PoE*3 and IP



AK-HRP1000GJ



AK-HRP1005GJ

Rear View

AK-HRP1000GJ





- Two models: 1/4 rack size (AK-HRP1000GJ) and 1/5 rack size (AK-HRP1005GJ).
- LCD panels with enhanced visibility. AK-HRP1000GJ: 8.9 cm (3.5 inches) (VGA) AK-HRP1005GJ: 8.1 cm (3.2 inches) (VGA)
- Camera serial control and IP control (RJ45 LAN cable) are possible.
- Supports PoE*3, which can supply power via LAN cable (CAT5e or faster).
- Functions for studio camera scene file registration and retrieval.
- Equipped with SD memory card slot for saving user files, scene file and updating firmware versions.

^{*1:} When power is supplied from CCU.
*2: When Connected with AK-UC3000 4K Studio Camera.

^{*3:} Abbreviation of Power over Ethernet

AK-HVF100GJ

22.9 cm (9 inches) LCD Color Viewfinder

Equipped with newly designed tilt mechanism and extensive functions such as focus assist and external video input.

- High-resolution 22.9 cm (9 inches) color LCD panel displays full HD 1920 x 1080 pixels
- Focus assist functions (Focus-in-Red, Focus Bar*1)
- Detail depends on zoom ratio*1
- External HD-SDI (3G SDI) input
- External DC input (+12 V DC)
- Four assignable function buttons
- Contrast, brightness, and peaking are adjustable
- Pan, tilt, and lift structure used





Rear View



AK-MSU1000GJ

Master Setup Unit (MSU)

Controls up to 99 CCU units via IP

- IP and serial connections supported.
 IP connection: Up to 99 units
 Serial connection: Up to six units
- 7-inch Touch Panel LCD
 Video monitoring function
- HD SDI Input (Monitoring) (1080i)
- Power DC12 V(DC10 V DC17 V) or PoE+ (via PoE+ Hub)



Rear View



AK-HBU500GJ

Build-up Unit

Enables use of large studio-use lens.



Side Panel



■Rear control panel

- Smooth camera mounting/removal possible
- Precise optical axis (horizontal/vertical) adjustment structure
- Rear control panel equivalent to that of a large camera
- DC OUT 12V 7.5 A (XLR4-pin)/DC OUT 1.5 A (4-pin)

^{*1:} When connected to AK-UC3000.

Other accessories



AJ-CVF50G 38.1 mm (1.5 inches) HD EVF



AJ-HVF21KG 50.8 mm (2 inches) HD EVF 59.94 Hz/50 Hz Switchable Not available in some areas.



AG-CVF15G 87.6 mm (3.45 inches) Color HD EVF Open two ways for LCD monitor viewing



AG-CVF10G 87.6 mm (3.45 inches) Color HD EVF Open one way for LCD monitor viewing



AK-HVF70G 17.8 cm (7 inches) LCD Color Viewfinder



AJ-MC700P Microphone Kit (monaural)

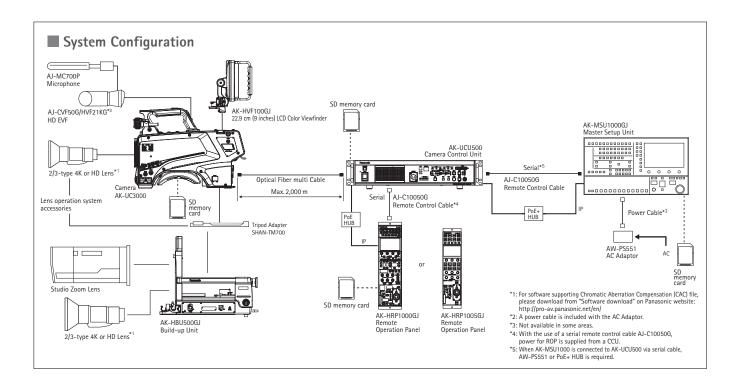


AW-PS551 AC Adaptor





SHAN-TM700 Tripod Adapter



Specifications

AK-UC3000GJ/UC3000GSJ

| AK-0C30000J/0C300003J | | |
|--|---|--|
| Power Supply | DC 12 V (when using an external power supply) AC 240 V, 50 Hz/60 Hz (when AK-UCU500P/AK-UCU500PS/ AK-UCU500E/AK-UCU500ES is connected) | |
| Power Consumption | 119 W (maximum, when connecting to an external 12 V and including supply to an externally connected devices) 360 W (maximum, when AK-UCU500P/AK-UCU500E/AK-UCU500E/AK-UCU500E) is connected and including supply to an externally connected devices) | |
| Operating Temperature | -10 °C to 45 °C (14°F to 113°F) (Preheating required under a temperature 0 °C (32 °F) or below) | |
| Storage Temperature | -20 °C to 60 °C (-4°F to 140°F) | |
| Operating Humidity | 85% or less (relative humidity) | |
| Weight | Approx. 4.4 kg (9.70 lbs.) (body only, excluding the accessories) | |
| Dimensions (W x H x D) | Body only 151 mm x 267 mm x 371.5 mm (5-31/32 inches x 10-17/32 inches x 14-21/32 inches) (excluding protrusions) | |
| Pickup Device | 11 million pixels, CMOS x 1 | |
| Optical Filter | CC: 3200 K, 4300 K, 6300 K, Cross, Diffusion ND: CAP, Clear, 1/4, 1/16, 1/64 | |
| Lens mount | 2/3-type bayonet | |
| Sensitivity | Two shooting modes [HIGH SENS]: F10 (59.94 Hz)/F11 (50 Hz) [NORMAL]: F6 (59.94 Hz)/F7 (50 Hz) 2000 lx, 3200 K, when white reflectivity is 89.9% | |
| Horizontal Resolution | 4K: 1800 TV lines or above (center, AK-UCU500P/ AK-UCU500PS/AK-UCU500E/AK-UCU500ES output) HD: 1000 TV lines or above (center) | |
| S/N | 60 dB or above | |
| Horizontal Modulation | 50% or above (27.5 MHz) | |
| Gain switching | [NORMAL]: -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36 [HIGH SENS]: -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36 | |
| Shutter speed | • [59.94i]/[59.94p] mode: 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 • [29.97p] mode: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 • [23.98p] mode: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 • [50i]/[50p] mode: 1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 • [25p] mode: 1/48, 1/50, 1/60, 1/96, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/1000, 1/1500, 1/1000, 1/1500, 1/1000, 1/1500, 1/1000, 1/1500, 1/2000 | |
| <hd sdi1=""> terminal</hd> | BNC x 1 HD (3G/1.5G): 0.8 V [p-p], 75 Ω | |
| <hd sdi2=""> terminal</hd> | BNC x 1 HD (3G/1.5G): 0.8 V [p-p], 75 Ω | |
| <aux> terminal</aux> | BNC x 1 Functions as <hd trunk=""> terminal/<prompter2> terminal by switching the setting in the menu <hd trunk="">: HD (1.5G) <prompter2>: VBS signal 1 V [p-p], 75 Ω</prompter2></hd></prompter2></hd> | |
| <g in="" l="" out="" prompter=""> terminal</g> | BNC x 1 <g in="" l="">: Tri-level SYNC or BB (black burst) <prompter out="">: VBS signal 1 V [p-p], 75 Ω Functions as <g in="" l=""> when standalone, and as <prompter out=""> when AK-UCU500P/ AK-UCU500PS/ AK-UCU500E/AK-UCU500ES is connected</prompter></g></prompter></g> | |
| <mic 1=""> terminal</mic> | XLR x 1, 3-pin <line>/<mic>/<+48 V> switchable For <mic>, <front>/<rear> switchable <line>: 0 dBu, +4 dBu menu selection available <mic>: -60 dBu, -40 dBu, or -20 dBu menu can be selected</mic></line></rear></front></mic></mic></line> | |

| <mic 2=""> terminal</mic> | XLR x 1, 3-pin <pre><line>/<mic>/<-48V> switchable</mic></line></pre> <pre><line>: 0 dBu, +4 dBu menu selection available</line></pre> <pre><mic>: -60 dBu, -40 dBu, or -20 dBu menu can be selected</mic></pre> |
|--|---|
| <mic> terminal (front)</mic> | XLR x 1, 3-pin Switchable with <mic 1=""> terminal</mic> |
| <intercom1> terminal</intercom1> | XLR x 1, 5-pin |
| <intercom2> terminal</intercom2> | XLR x 1, 5-pin |
| <earphone> terminal</earphone> | Stereo mini jack x 1, 3-pin |
| <opt fiber=""> terminal</opt> | Optical composite connector x 1 |
| <lens> terminal</lens> | 12-pin x 1 |
| <vf> terminal</vf> | 20-pin x 1 |
| <vf> terminal (rear)</vf> | 29-pin x 1 |
| <dc in=""> terminal</dc> | XLR x 1, 4-pin, DC 12 V |
| <dc 1="" 12="" a="" out="" v=""> terminal</dc> | 4-pin x 1 |
| <ret ctrl=""> terminal</ret> | 6-pin x 1 |
| <ext i="" o=""> terminal</ext> | 20-pin x 1, DC 12 V, 0.5 A |
| <remote> terminal</remote> | 10-pin x 1 |
| <trunk> terminal</trunk> | 12-pin x |
| <dc 12="" 2.5="" a="" out="" v=""> terminal</dc> | 2-pin x 1 |
| <lan> terminal</lan> | RJ-45 x 1 |
| <usb2.0> terminal (host)</usb2.0> | Type A connector, DC 5 V, 0.5 A |
| Build-up terminal | 20-pin x 1 |

Rear View



8

Specifications

AK-UCU500PJ/UCU500EJ/UCU500PSJ/UCU500ESJ

| Power Supply | AK-UCU500P/AK-UCU500PS: 100 V - 120 V AC, 50 Hz/60 Hz AK-UCU500E/AK-UCU500ES: 100 V - 240 V AC, 50 Hz/60 Hz | |
|---|--|--|
| Power Consumption | 500 W (Without camera connected: 70 W) | |
| Capacity for Supplying Power to a Camera | 240 V AC (tolerance: 5%), 1.46 A , 50 Hz/60 Hz | |
| Operating Temperature | 0°C to 40°C (32°F to 104°F) | |
| Humidity | 10% to 90% (no condensation) | |
| Weight | Approx. 8.8 kg (19.4 lb) | |
| Dimensions (W x H x D) | 424 mm x 88 mm x 401 mm (16-5/8 inches x 3-7/16 inches x 15-13/16 inches) (excluding protrusions) | |
| Video Output | 3G/HD/SD-SDI: 7 lines (embedded audio is supported only for HD signals) HD/SD-SDI: 1 line (shared with picture monitor output*1; embedded audio is supported only for HD signals) | |
| UD TRUNK Output | Analog composite: 2 lines (1 line shared with picture monitor output*1) HD-SDI: 1 line (cannot be used in UHD/HS mode) | |
| HD TRUNK Output Return Input | 3G-HD/HD/SD-SDI: 4 lines (RET1 input has active-through output) Analog composite: 1 line | |
| Prompter Input | HD-SDI: 1 line (with active-through output) Analog composite: 2 lines (through output of 1 and input of 2 share the connector*1) It is not terminated when the unit is turned OFF. No through output. | |
| Reference Input | BB (black burst) / tri-level*2: 1 line (automatic termination, connect to upper connector; BB signal and tri-level signal automatically recognized, with loop-through output) | |
| Microphone Output | 0 dBm/600 Ω, 2 lines (XLR, 3-pin, male) | |
| Communication | Intercom input/output (ENG / PROD, 0 dBm, 600 \Omega (4 W) / 1 \times (p-p), 200 \Omega (RTS), 4 \times / RTS / CLRCOM) : 2 lines*1 PGM input (0 dBm/600 \Omega) : 2 lines Tally input (red, green, yellow) : 1 input each | |
| AUX | WFM control 6-bit (open collector output, terminal shared with camera microphone gain setting*1) Camera microphone gain setting input 5-bit (photo-coupler input, terminal shared with WFM control*1) Down-conversion system setting input 2-bit (photo-coupler input) | |
| TRUNK | RS-422 / RS-232C 2 lines*1 | |
| FRONT ROP | RS-422 1 line, 16 V DC output (only one of this and REAR ROP can be selected at one time via the menu or the [ROP FRONT/ REAR] selection switch on the front panel) | |
| REAR ROP | RS-422 1 line, 16 V DC output (only one of this and FRONT ROP can be selected at one time via the menu or the [ROP FRONT/REAR] selection switch on the front panel) | |
| MSU | RS-422 1 line, GPI for control | |
| LAN TRUNK | LAN connection with camera side via an optical cable*3 1 line, 100BASE-T, 1000BASE-T | |
| LAN | Personal computer connection for distribution via the Web*3 1 line, 10BASE-T, 100BASE-TX (use a crossover cable when connecting directly with a personal computer) | |
| | | |

AK-HRP1000GJ/HRP1005GJ

| | AK-HRP1000GJ | AK-HRP1005GJ |
|------------------------|--|---|
| Power Supply | 12 V DC (Power supply from camera: 10 V - 16 V DC) 42 V - 57 V DC (PoE power supply) | |
| Power Consumption | 0.51 A (Power supply from camera: 10 V - 16 V DC) 0.15 A (PoE power supply) | camera: 10 V - 16 V DC) |
| Operating Temperature | 0°C to 40°C (32°F to 104° | F) |
| Humidity | 90% or less | |
| Storage Temperature | -20°C to 60°C (-4°F to 140°F) | |
| Weight | Approx. 1.7 kg (3.75 lb) | Approx. 1.5 kg (3.31 lb) |
| Dimensions (W x H x D) | 102 mm x 385 mm x 113 mm (4 inches x 15-3/16 inches x 4-7/16 inches) | 82 mm x 355 mm x 124.4 mm (3-1/4 inches x 14 inches x 4-7/8 inches) |
| Camera/CCU Control | Control signals (camera, CCU control) Power supply 16 V DC (when CCU connected)*4, 12 V DC (when camera connected)*4 | |
| Maximum Cable Length | When camera connected: When CCU connected: 50 | |

AK-MSU1000GJ

| Power Supply | 12 V DC (DC input range: 10 V - 16 V DC) 42 V - 57 V DC (PoE+ power supply) | |
|------------------------|--|--|
| Power Consumption | 1.6 A (Power supply: 12 V DC) 0.6 A (PoE+ power supply) | |
| Operating Temperature | 0°C to 40°C (-4°F to 140°F) | |
| Humidity | 90% or less | |
| Storage Temperature | -20°C to 60°C (-4°F to 140°F) | |
| Weight | Approx. 4.0 kg (8.82 lb) | |
| Dimensions (W x H x D) | 482 mm x 222 mm x 81.5 mm (18-31/32 inches x 8-3/4 inches x 3-7/32 inches) (including mounting brackets and dial heights) | |
| Adjustment Functions | Scene file, ND filter, CC filter, Color temperature (COLOR TEMP), Master gain (MASTER GAIN), Shutter (SHUTTER), Master pedestal (MPED), Iris (IRIS), Camera selection | |
| CCU Control | RS422 or IP | |
| Maximum Cable Length | When CCU connected: 50 m (164 ft) | |

AK-HVF100GJ

| AK-IIVI 10003 | | |
|--|---|--|
| Power Supply | DC 12 V (supplied from camera or XLR) | |
| Power Consumption | 18 W | |
| Operating Temperature | 0 °C to 45 °C (32 °F to 113 °F) | |
| Operating Humidity | 10% – 85% (no condensation) | |
| Storage Temperature | -20 °C to 60 °C (-4 °F to 140 °F) | |
| Weight | Approx. 2.6 kg (5.73 lbs.) (not including hood) / Approx. 3.0 kg (6.61 lbs.) (including hood) | |
| Dimensions (W x H x D) | 340 mm x 234 mm x 193 mm (13-13/32 inches x 9-7/32 inches x 7-5/8 inches) (not including hood) 340 mm x 234 mm x 231 mm (13-13/32 inches x 9-7/32 inches x 9-1/8 inches) (including hood) | |
| Display Panel | 9.0 inches | |
| Number of Pixels | 1920 x 1080 (FHD) | |
| Display Color | Approx. 16.77 million colors | |
| Operation | <power> switch, <menu> button, <select> dial button, <f1>/<f2>/<f3>/<f4> buttons, <bright> knob, <contrast> knob, <peaking> knob, <input/> switch</peaking></contrast></bright></f4></f3></f2></f1></select></menu></power> | |
| Connector | Camera I/F connector (D-sub 29 pins x 1) SDI IN connector (BNC x 1) DC IN connector (XLR 4 pins x 1) | |
| CAM: 1080/59.94i, 1080/50i Supported Signal Format SDI: 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p | | |

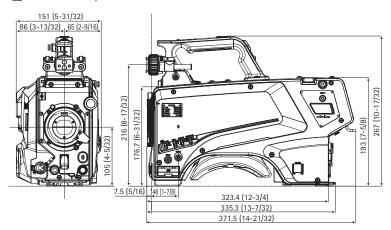
AK-HBU500GJ

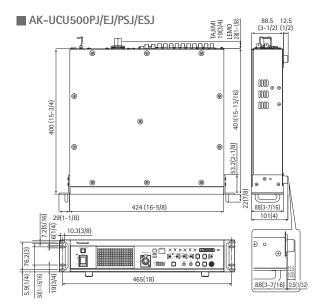
| 12 V DC (when external power is supplied) 240 V AC 50 Hz/60 Hz (when AK-UCU500 is connected) | |
|---|--|
| 70 W (when external power is supplied) 165 W (when AK-UCU500 is connected) | |
| mperature -10°C to 45°C (14°F to 113°F) | |
| nge 85% or less (relative humidity) | |
| -20°C to 60°C (-4°F to 140°F) | |
| Approx. 12.8 kg (28.22 lb) (unit only) | |
| 300 mm x 417 mm x 510 mm (16-7/16 inches x 20-1/16 inches x 11-13/16 inches) | |
| 1 to15 (depending on system settings) | |
| 36-pin x 1 | |
| 20-pin x 1 | |
| XLR x 1, 4-pin, 12 V DC | |
| 4-pin x 1 | |
| XLR x 1, 4-pin | |
| | |

- *1: Depending on the setting, only one of them can be selected at one time.
 *2: The BB (black burst) signal and tri-level sync signal of the reference input are recognized automatically.
 *3: IP video cannot be transmitted when [CCU MODE] is set to [2160/23.98p], [2160/23.98PsF], [1080/23.98p], or [1080/23.98PsF].
 *4: Can be provided from CCU

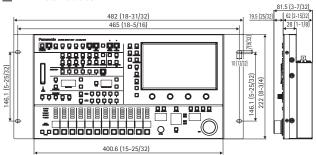
Unit: mm(inches)

■ AK-UC3000GJ/UC3000GSJ

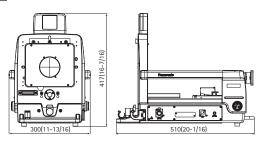




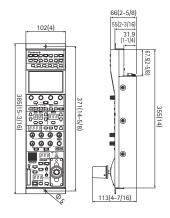
AK-MSU1000GJ



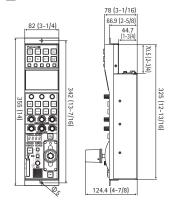
AK-HBU500GJ



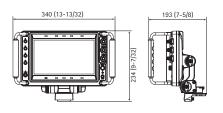
■ AK-HRP1000GJ



■ AK-HRP1005GJ



■ AK-HVF100GJ



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



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