



The CCU supports UHD and HD simultaneous output while still having a compact size. HD mode enables output in 240p, 180p and 120p during normal filming.

## AK-UCU600

With the AK-UCU600 Camera Control Unit (CCU), uncompressed longdistance transmission of 4K/HD video signals via optical fiber is supported. The AK-HRP1000GJ/1005GJ Remote Operation Panels (ROP) are equipped with a color LCD display that provides excellent visibility and functions for quick response. 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 can be extended up to 10,000 m by providing a local power supply at the camera head and using general-purpose single mode optical fiber.

### Key Features

Contains a dual UHD 12G-SDI system, and supports 3G-SDI quad link and two-sample interleave

Optical fiber transmission of uncompressed video signals over a distance of approx. 2,000 m between camera and CCU

Supports TICO over SDI (4K over 3G-SDI) output (4K signal can be transferred by a conventional 3G-SDI cable)

Supports HDR/SDR simultaneous output and HDR BT2020/B709 simultaneous output

Supports IP streaming (100 Base-T)





## AK-UCU600

<https://ap.connect.panasonic.com/id/en/ak-ucu600>

<b>Camera Control Unit (CCU) -&gt; General</b>	AK-UCU600PJ/AK-UCU600PSJ 100 V - 120 V AC, 50 Hz/60 Hz
-> <b>Power Supply</b>	AK-UCU600EJ/AK-UCU600ESJ 100 V - 240 V AC, 50 Hz/60 Hz
<b>Camera Control Unit (CCU) -&gt; General</b>	500 W (Without camera connected: 90 W)
-> <b>Power Consumption</b>	
<b>Camera Control Unit (CCU) -&gt; General</b>	240 V AC (tolerance: 5 %), 1.46 A, 50 Hz / 60 Hz
-> <b>Capacity for Supplying Power to a Camera</b>	
<b>Camera Control Unit (CCU) -&gt; General</b>	0 °C to 40 °C (32 °F to 104 °F)
-> <b>Operating Temperature</b>	
<b>Camera Control Unit (CCU) -&gt; General</b>	10 % to 90 % (no condensation)
-> <b>Humidity</b>	
<b>Camera Control Unit (CCU) -&gt; General</b>	Approx. 8.9 kg (19.6 lb)
-> <b>Weight</b>	
<b>Camera Control Unit (CCU) -&gt; General</b>	W 424 mm x H 88 mm x D 401 mm (16-5/8 inches x 3-7/16 inches x 15-13/16 inches)
-> <b>Dimensions</b>	(excluding protrusions)
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; Video Output</b>	3G/HD-SDI:5 lines (embedded audio is supported only for HD signals) 12G/6G/3G/HD-SDI:2 lines HD-SDI:1 line (shared with picture monitor output) Analog composite:2 lines (1 line shared with picture monitor output *1)
<b>Camera Control Unit (CCU) -&gt; Input/Output</b>	HD-SDI 1 line (HD TRUNK output) 3G/HD-SDI 1 line (TICO output)
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; Return Input</b>	3G-HD/HD/SD-SDI 4 lines (RET1 input has active-through output) Analog composite 1 line
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; Prompter Input</b>	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.
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; Reference Input</b>	BB (black burst) / tri-level *3: 1 line (automatic termination, connect to upper connector; BB signal and tri-level *3 signal automatically recognized, with loop-through output)
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; Microphone Output</b>	0 dBm/600 Ω, 2 lines (XLR, 3-pin, male)
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; Communication</b>	Intercom input/output (ENG / PROD, 0 dBm, 600 Ω (4 W) / 1 V [p-p], 200 Ω (RTS), 4 W / RTS / CLRCOM):2 lines *1 PGM input (0 dBm/600 Ω):2 lines *1 Tally input (red, green, yellow):1 input each
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; AUX</b>	WFM control 6-bit (open collector output *1, terminal shared with camera microphone gain setting *1) Camera microphone gain setting input 5-bit (photo-coupler input *1, terminal shared with WFM control *1) Down-conversion system setting input 2-bit (photo-coupler input)
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; TRUNK</b>	RS-422 / RS-232C 2 lines
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; ROP</b>	RS-422 1 line, 16 V DC output (only one of this and FRONT/REAR ROP can be selected at one time via the menu or the [ROP FRONT/REAR] selection switch on the front panel)
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; MSU</b>	RS-422 1 line, GPI for control
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; LAN TRUNK</b>	LAN connection with camera side via an optical cable *4 1 line, 100BASE-TX, 1000BASE-T
<b>Camera Control Unit (CCU) -&gt; Input/Output -&gt; LAN</b>	Personal computer connection for distribution via the Web *4 1 line, 10BASE-T, 100BASE-TX (use a crossover cable when connecting directly with a personal computer)
<b>IP/12G/3G Interface Kit AK-NP600G -&gt; General -&gt; Operating Temperature</b>	->0 °C to 40 °C (32 °F to 104 °F)
<b>IP/12G/3G Interface Kit AK-NP600G -&gt; General -&gt; Operating Humidity</b>	->10% to 90% (no condensation)
<b>IP/12G/3G Interface Kit AK-NP600G -&gt; General -&gt; Weight</b>	->Approx. 284 g (0.63 lbs) (including radiator fins)
<b>IP/12G/3G Interface Kit AK-NP600G -&gt; General -&gt; Dimensions</b>	->W 175.5 mm x H 28.8 mm x D 138.5 mm (6-29/32 inches x 1-1/8 inches x 5-7/16 inches)
<b>IP/12G/3G Interface Kit AK-NP600G -&gt; Input/Output -&gt; &lt; UHD/HS/HD SDI OUT1 &gt; terminal</b>	BNC x 1, 12G / 6G / 3G / 1.5G HD SDI : 0.8 V [p-p], 75 Ω
<b>IP/12G/3G Interface Kit AK-NP600G -&gt; Input/Output -&gt; &lt; UHD/HS/HD SDI OUT2 &gt; terminal</b>	BNC x 1, 12G / 6G / 3G / 1.5G HD SDI : 0.8 V [p-p], 75 Ω
<b>IP/12G/3G Interface Kit AK-NP600G -&gt; Input/Output -&gt; &lt; UHD/HS/HD SDI OUT3 &gt; terminal</b>	BNC x 1, 3G / 1.5G HD SDI : 0.8 V [p-p], 75 Ω

<b>IP/12G/3G Interface Kit AK-NP600G</b> - BNC x 1, 3G / 1.5G HD SDI: 0.8 V [p-p], 75 Ω	
> <b>Input/Output</b> - > < <b>UHD/HS/HD SDI OUT4</b> > terminal	
<b>IP/12G/3G Interface Kit AK-NP600G</b> - BNC x 1, 1.5G HD SDI when HD TRUNK, 3G / 1.5G HD SDI when TICO : 0.8 V [p-p], 75 Ω	
> <b>Input/Output</b> - > < <b>HD TRUNK/TICO OUT</b> > terminal	
<b>IP/12G/3G Interface Kit AK-NP600G</b> - BNC x 1, 1.5G HD SDI: 0.8 V [p-p], 75 Ω	
> <b>Input/Output</b> - > < <b>HD SDI/PROMPT IN</b> > terminal	
<b>IP/12G/3G Interface Kit AK-NP600G</b> - SFP+ x 1, 10GBASE-LR	
> <b>Input/Output</b> - > < <b>SFP+1</b> > slot	
<b>IP/12G/3G Interface Kit AK-NP600G</b> - SFP+ x 1, 10GBASE-LR	
> <b>Input/Output</b> - > < <b>SFP+2</b> > slot	
<b>IP/12G/3G Interface Kit AK-NP600G</b> - RJ-45 x 1	
> <b>Input/Output</b> - > < <b>LAN2</b> > terminal	
<b>IP/12G/3G Interface Kit AK-NP600G</b> -> Pillar (M3 x H20) x 1, Options rear panel x 1, Power cable x 1, Heat-transfer sheet x 1, Bundled Items askets x 2	
<b>Footnote Description</b>	<ol style="list-style-type: none"> <li>1. Depending on the setting, only one of them can be selected at one time.</li> <li>2. For details on output formats, please see the "Supported formats".</li> <li>3. The BB (black burst) signal and tri-level sync signal of the reference input are recognized automatically.</li> <li>4. IP video cannot be transmitted when [CCU MODE] is set to [2160/23.98p], [2160/23.98PsF], [1080/23.98p], or [1080/23.98PsF].</li> </ol>