



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. Between the CCU and the ROP, in addition to a dedicated serial line, IP connection via LAN cable is also supported.

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)









General -> Operating Humidity

General -> Weight

General -> Dimensions

IP/12G/3G Interface Kit AK-NP600G ->Approx. 284 g (0.63 lbs) (including radiator fins)

IP/12G/3G Interface Kit AK-NP600G ->W 175.5 mm x H 28.8 mm x D 138.5 mm





AK-UCU600

https://ap.connect.panasonic.com/th/en/ak-ucu600

Camera Control Unit (CCU) ->	• General AK-UCU600PJ/AK-UCU600PSJ 100 V - 120 V AC, 50 Hz/60 Hz
-> Power Supply	AK-UCU600EJ/AK-UCU600ESJ 100 V - 240 V AC, 50 Hz/60 Hz
Camera Control Unit (CCU) -> -> Power Consumption	General 500 W (Without camera connected: 90 W)
Camera Control Unit (CCU) -> -> Capacity for Supplying Pov Camera	e General 240 V AC (tolerance: 5 %), 1.46 A , 50 Hz / 60 Hz ver to a
Camera Control Unit (CCU) -> -> Operating Temperature	General 0 °C to 40 °C (32 °F to 104 °F)
Camera Control Unit (CCU) -> -> Humidity	General 10 % to 90 % (no condensation)
Camera Control Unit (CCU) ->	General Approx. 8.9 kg (19.6 lb)

-> Humidity	
Camera Control Unit (CCU) -> Genera -> Weight	al Approx. 8.9 kg (19.6 lb)
Camera Control Unit (CCU) -> Genera	al 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)
-> Dimensions	(evaluding protrucions)
Company Combuel Unit (CCII)	(excluding protrusions)
Camera Control Unit (CCU) -> Input/Output -> Video Output	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)
Camera Control Unit (CCU) -> Input/Output	HD-SDI 1 line (HD TRUNK output)
	3G/HD-SDI 1 line (TICO output)
Camera Control Unit (CCU) -> Input/Output -> Return Input	3G-HD/HD/SD-SDI 4 lines (RET1 input has active-through output)
	Analog composite 1 line
Camera Control Unit (CCU) -> Input/Output -> 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.
Camera Control Unit (CCU) ->	BB (black burst) / tri-level *3: 1 line
Input/Output -> Reference Input	(automatic termination, connect to upper connector; BB signal and tri-level *3signal
	automatically recognized, with loop-through output)
Camera Control Unit (CCU) ->	0 dBm/600 Ω, 2 lines (XLR, 3-pin, male)
Input/Output -> Microphone Output	
Camera Control Unit (CCU) -> Input/Output -> Communication	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
Camera Control Unit (CCU) ->	WFM control
Input/Output -> AUX	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)
Camera Control Unit (CCU) ->	RS-422 / RS-232C 2 lines
Input/Output -> TRUNK	
Camera Control Unit (CCU) ->	RS-422
Input/Output -> ROP	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)
Camera Control Unit (CCU) ->	RS-422 1 line, GPI for control
Input/Output -> MSU	·
Camera Control Unit (CCU) ->	LAN connection with camera side via an optical cable *4
Input/Output -> LAN TRUNK	1 line, 100BASE-TX, 1000BASE-T
Camera Control Unit (CCU) ->	Personal computer connection for distribution via the Web *4
Input/Output -> LAN	
F	1 line, 10BASE-T, 100BASE-TX (use a crossover cable when connecting directly with a
	personal computer)
IP/12G/3G Interface Kit AK-NP600G General -> Operating Temperature	->0 °C to 40 °C (32 °F to 104 °F)
IP/12G/3G Interface Kit AK-NP600G	->10% to 90% (no condensation)

(6-29/32 inches x 1-1/8 inches x 5-7/16 inches)

IP/12G/3G Interface Kit AK-N P600G - BNC x 1, 12G / 6G / 3G /1.5G HD SDI : 0.8 V [p-p], 75 Ω > Input/Output - > < UHD/HS/HD SDI OUT1 > terminal IP/12G/3G Interface Kit AK-NP600G - BNC x 1, 12G / 6G / 3G /1.5G HD SDI: 0.8 V [p-p], 75 Ω > Input/Output - > < UHD/HS/HD SDI OUT2 > terminal IP/12G/3G Interface Kit AK-NP600G - BNC x 1, 3G / 1.5G HD SDI: 0.8 V [p-p], 75 Ω > Input/Output - > < UHD/HS/HD SDI OUT3 > terminal IP/12G/3G Interface Kit AK-NP600G - BNC x 1, 3G / 1.5G HD SDI: 0.8 V [p-p], 75 Ω > Input/Output - > < UHD/HS/HD SDI OUT4 > terminal $\textbf{IP/12G/3G Interface Kit AK-NP600G-} \quad \text{BNC} \times 1, 1.5 \text{G HD SDI when HD TRUNK, } 3\text{G} / 1.5 \text{G HD SDI when TICO: } 0.8 \text{ V [p-p], } 75 \text{ } \Omega$ > Input/Output - > < HD TRUNK/TICO **IP/12G/3G Interface Kit AK-NP600G** - BNC x 1, 1.5G HD SDI: 0.8 V [p-p], 75 Ω > Input/Output - > < HD SDI/PROMPT IN > terminal IP/12G/3G Interface Kit AK-NP600G - SFP+ x 1, 10GBASE-LR > Input/Output - > < SFP+1 > slot IP/12G/3G Interface Kit AK-NP600G - SFP+ x 1, 10GBASE-LR > Input/Output - > < SFP+2 > slot IP/12G/3G Interface Kit AK-NP600G - $\,$ RJ-45 $\times\,1$ > Input/Output - > < LAN2 > terminal IP/12G/3G Interface Kit AK-NP600G -> Pillar (M3 x H20) x 1, Options rear panel x 1, Power cable x 1, Heat-transfer sheet x 1,

askets x 2

Footnote Description

Bundled Items

Depending on the setting, only one of them can be selected at one time.

For details on output formats, please see the "Supported formats".

The BB (black burst) signal and tri-level sync signal of the reference input are recognized automatically.

IP video cannot be transmitted when [CCU MODE] is set to [2160/23.98p], [2160/23.98PsF], [1080/23.98p], or [1080/23.98PsF].