



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://latam.connect.panasonic.com/pa/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) -> General	500 W (Without camera connected: 90 W)
-> Power Consumption	
Camera Control Unit (CCU) -> General	240 V AC (tolerance: 5 %), 1.46 A, 50 Hz / 60 Hz
-> Capacity for Supplying Power to a Camera	
Camera Control Unit (CCU) -> General	0 °C to 40 °C (32 °F to 104 °F)
-> Operating Temperature	
Camera Control Unit (CCU) -> General	10 % to 90 % (no condensation)
-> Humidity	
Camera Control Unit (CCU) -> General	Approx. 8.9 kg (19.6 lb)
-> Weight	
Camera Control Unit (CCU) -> General	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	(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) -> Input/Output -> Reference Input	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)
Camera Control Unit (CCU) -> Input/Output -> Microphone Output	0 dBm/600 Ω, 2 lines (XLR, 3-pin, male)
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) -> Input/Output -> AUX	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)
Camera Control Unit (CCU) -> Input/Output -> TRUNK *1	RS-422 / RS-232C 2 lines
Camera Control Unit (CCU) -> Input/Output -> ROP	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)
Camera Control Unit (CCU) -> Input/Output -> MSU	RS-422 1 line, GPI for control
Camera Control Unit (CCU) -> Input/Output -> LAN TRUNK	LAN connection with camera side via an optical cable *4 1 line, 100BASE-TX, 1000BASE-T
Camera Control Unit (CCU) -> Input/Output -> LAN	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)
IP/12G/3G Interface Kit AK-NP600G -> 0 °C to 40 °C (32 °F to 104 °F)	
General -> Operating Temperature	
IP/12G/3G Interface Kit AK-NP600G -> 10% to 90% (no condensation)	
General -> Operating Humidity	
IP/12G/3G Interface Kit AK-NP600G -> Approx. 284 g (0.63 lbs) (including radiator fins)	
General -> Weight	
IP/12G/3G Interface Kit AK-NP600G -> W 175.5 mm x H 28.8 mm x D 138.5 mm	
General -> Dimensions	
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	
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	
IP/12G/3G Interface Kit AK-NP600G - BNC x 1, 1.5G HD SDI when HD TRUNK, 3G / 1.5G HD SDI when TICO : 0.8 V [p-p], 75 Ω	
> Input/Output - > < HD TRUNK/TICO	
OUT > terminal	
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 x 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,	
Bundled Items	askets x 2
Footnote Description	<div>1. Depending on the setting, only one of them can be selected at one time.</div> <div>2. For details on output formats, please see the "Supported formats".</div> <div>3. The BB (black burst) signal and tri-level sync signal of the reference input are recognized automatically.</div> <div>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].</div>