4K CCU with Enhanced IP Connectivity,Including Support for ST 2110, The Industry's First*1 Dante®, NDI®*4 and SRT.

AK-UCU700 series

4K CCU with Enhanced IP Connectivity,Including Support for ST 2110, The Industry's First*1 Dante®, NDI®*4 and SRT. The AK-UCU700 CCU supports the next-generation SMPTE ST 2110*2 IP-transmission standard as well as JPEG-XS to uncompress/compress 4K video by a factor of 10 without degrading quality. As the industry's first*1 studio camera system to support the Dante®*3 network audio standard as well as the NDI®*4 (High Bandwidth NDI®*4) and SRT (Secure Reliable Transport)*5 IP transmission standards, Panasonic Connect's new CCU realizes diverse networks and applications for IP studio camera systems.

Key Features

Simultaneous output of HDR and SDR (BT.2020 and BT.709)

Eight standard outputs, including two 12G-SDI outputs.

Compatibility with the ST 2110*2 and industry-first support for Dante®*3 audio network as well as NDI®*4 and SRT*5

3.5-inch color LCD touch panel for intuitive operation and viewing camera output.

Uncompressed optical transmission between camera and CCU over distances up to about 2,000m.*6

High-speed shooting (Future Update): Up to 4x in HD*7 and 2x in 4K. *8

Uncompressed or JPEG-XS 4K/HD IP transmission with ST 2110/NMOS option. *2

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Camera Control Unit (CCU) -> General -> Power Supply	100 V - 240 V AC, 50 Hz/60 Hz
Camera Control Unit (CCU) -> General -> Power Consumption	550 W (Without camera connected: 130 W)
Camera Control Unit (CCU) -> General -> Capacity for Supplying Power to a Camera	AC 240 V (tolerance 5 %), 1.46 A、50 Hz/60 Hz
Camera Control Unit (CCU) -> General -> Operating Temperature	0 ℃ to 40 ℃ (32 ℉ to 104 ℉)
Camera Control Unit (CCU) -> General -> Humidity	10 % to 90 % (no condensation)
Camera Control Unit (CCU) -> General -> Storage Temperature	–20 ℃ to 60 ℃ (–4 ℉ to 140 ℉)
Camera Control Unit (CCU) -> General -> Weight	AK-UCU700: Approx. 9.1 kg (20.02 lb)
Camera Control Unit (CCU) -> General -> Dimensions	W 424 mm x H 88.5 mm x D 400 mm (16-11/16 inches x 3-15/32 inches x 15-3/4 inches) (excluding protrusions)
Camera Control Unit (CCU) -> Input/Output -> Video Output	3G/HD-SDI: 5 lines 12G/6G/3G/HD-SDI: 2 lines HD-SDI: 1 line (shared with picture monitor output [*1])
Camera Control Unit (CCU) -> Input/Output -> HD TRUNK output	3G/HD-SDI: 1 line
Camera Control Unit (CCU) -> Input/Output -> AUX Output	3G/HD-SDI: 1 line
Camera Control Unit (CCU) -> Input/Output -> Return Input	3G/HD-SDI: 4 lines
Camera Control Unit (CCU) -> Input/Output -> HD TRUNK (Prompter) input	3G/HD-SDI: 1 line
Camera Control Unit (CCU) -> Input/Output -> Reference Input	BB (black burst) / tri-level [*2]: 1 line (automatic termination, connect to upper connector; BB signal and tri-level [*2] 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 [*2] V [p-p], 200 Ω (RTS), 4 W / RTS / CLRCOM): 2 lines [*2] PGM input (0 dBm/600 Ω): 2 lines [*2] Tally input (red, green, yellow): 1 input each
Camera Control Unit (CCU) -> Input/Output -> Tally Output	Tally output (red, green) Alarm output Output from each of the open collectors
Camera Control Unit (CCU) -> Input/Output -> ROP	RS-422 1 line, 16 V DC output
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 1 line
Camera Control Unit (CCU) -> Input/Output -> LAN	Personal computer connection for distribution via the Web 1 line
Camera Control Unit (CCU) -> Input/Output -> LCD monitor	3.5 inch color LCD monitor, touch panel supported
Camera Control Unit (CCU) -> Input/Output -> ST 2110[*3]	SFP+/SFP28 x 2 (for ST 2110 connection) * When AK-NP701G (sold separately) is installed.
Camera Control Unit (CCU) -> Input/Output -> Dante® [*4]	RJ45 x 2 (Primary, Secondary) * When AK-NP702G (sold separately) is installed.

Footnote Description

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

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

Standard in AK-UCU710S/UCU710 and optional in AK-UCU700S/UCU700 (requires ST 2110 interface board sold separately).

Standard in AK-UCU710S/UCU710 and optional in AK-UCU700S/UCU700 (requires Dante® interface board AK-NP702G sold separately).