

Camera Control Unit (CCU)			ST 2110			Dante® Audio	NDI	SRT
			4K	HD	Jpeg-XS			
ST 2110 and Dante® Installed Model	LEMO	AK-UCU710PSJ / AK-UCU710ESJ	✓	✓	✓	✓	Sold separately (AK-NP703)	
	Tajimi	AK-UCU710PJ / AK-UCU710EJ	Standard	Standard	Standard	Standard		
Basic Model	LEMO	AK-UCU700PSJ / AK-UCU700ESJ	Sold separately (AK-NP701)			Sold separately (AK-NP702)	Sold separately (AK-NP703)	
	Tajimi	AK-UCU700PJ / AK-UCU700EJ						

## Supports simultaneous 4K HDR and HD SDR, plus ST 2110 and Dante® (industry first\*<sub>1</sub>)

The AK-UCU700 CCU supports the next-generation SMPTE ST 2110\*<sub>2</sub> 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\*<sub>1</sub> studio camera system to support the Dante®\*<sub>3</sub> network audio standard as well as the NDI® (High Bandwidth NDI®)\*<sub>4</sub> and SRT (Secure Reliable Transport)\*<sub>5</sub> IP transmission standards, Panasonic Connect's new CCU realizes diverse networks and applications for IP studio camera systems.

- Simultaneous output of HDR and SDR (BT.2020 and BT.709).
- Eight standard outputs, including two 12G-SDI outputs.
- Compatibility with the ST 2110\*<sub>2</sub> and industry-first support for Dante®\*<sub>3</sub> audio network as well as NDI® and SRT\*<sub>5</sub>
- 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.\*<sub>6</sub>
- High-speed shooting (Future Update): Up to 4x in HD\*<sub>7</sub> and 2x in 4K.\*<sub>8</sub>
- Uncompressed or JPEG-XS 4K/HD IP transmission with ST 2110/NMOS option.\*<sub>2</sub>
- Redundant operation with two SFP28 terminals.\*<sub>9</sub>

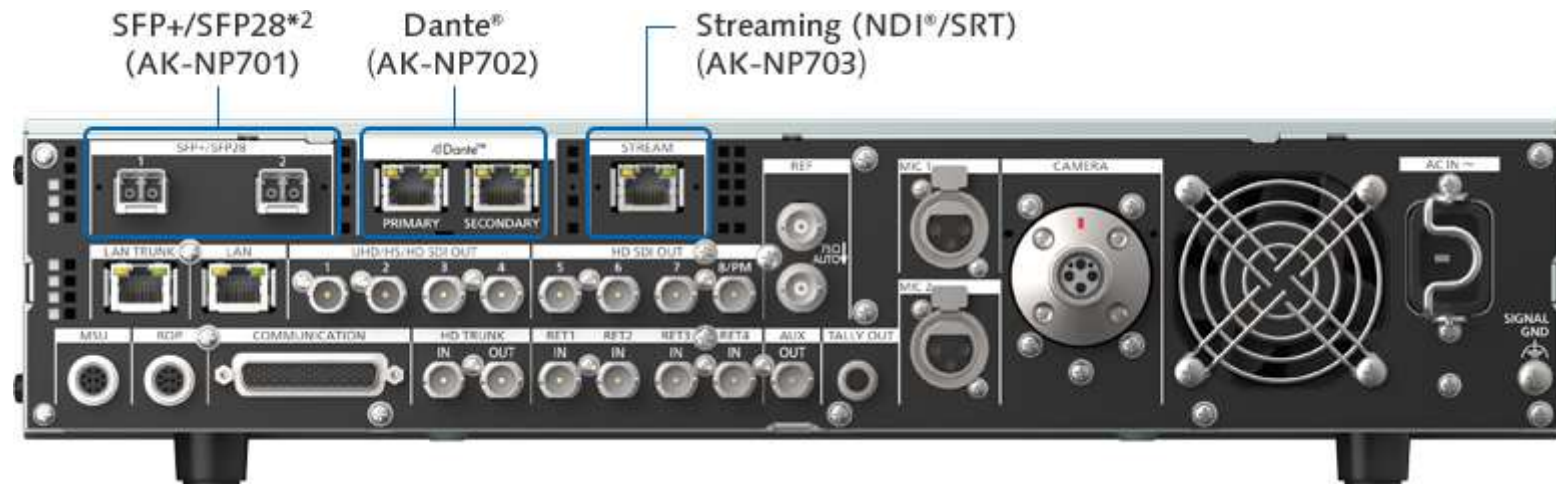
- Use connected PC browser to remotely configure settings.
- *\*1: First studio camera system to support Dante® audio networks, NDI® and SRT as of October 2023, according to Panasonic Connect research.*
- *\*2: Standard in AK-UCU710/UCU710S and optional in AK-UCU700/UCU700S (requires ST 2110 interface board AK-NP701 sold separately).*
- *\*3: Standard in AK-UCU710/UCU710S and optional in AK-UCU700/UCU700S (requires Dante® interface board AK-NP702 sold separately).*
- *\*4: New protocol developed by NewTek, Inc. that supports IP video production workflow. NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.*
- *\*5: Requires AK-NP703 streaming interface board sold separately.*
- *\*6: When power is supplied from CCU.*
- *\*7: When using AK-UC4000 or AK-UC3300 4K studio camera (Future support planned). 2x may vary depending on connected studio camera.*
- *\*8: When using studio camera currently under development.*
- *\*9: AK-UCU700 requires optional AK-NP701 interface board for SFP28 connection.*

## Supported Formats

UHD	3840 x 2160/59.94p, 50p, 29.97p* <sub>1</sub> , 25p* <sub>1</sub> , 23.98p* <sub>1</sub>
HD	1080/59.94p, 50p, 59.94i, 50i, 23.98p* <sub>1</sub> over 59.94i* <sub>1</sub> , 29.97PsF* <sub>1</sub> , 25PsF* <sub>1</sub> , 23.98PsF* <sub>1</sub> , 23.98p over 59.94i* <sub>1</sub>
HD High Speed* <sub>2</sub>	1080/59.94p-240fps, 180fps, 120fps, 1080/50p-200fps, 150fps, 100fps, 1080/59.94i-240fps, 180fps, 120fps, 1080/50i-200fps, 150fps, 100fps

- *\*1 Future support planned.*
- *\*2 Future support planned. When using AK-UC4000 4K studio camera. The maximum frame rate varies depending on the connected studio camera.*

## Rear View\*<sub>1</sub>



- *\*1: When all options are installed:*
  - AK-UCU710/UCU710S
  - + AK-NP703G (Sold Separately)
  - AK-UCU700/UCU700S
  - + AK-NP701G (Sold Separately) \*2
  - + AK-NP702G (Sold Separately)
  - + AK-NP703G (Sold Separately)
- *\*2: Optical communication module is not included. A third-party optical module must be purchased separately.*

## Specifications

	AK-UCU710PSJ/ESJ, AK-UCU710PJ/EJ	AK-UCU700PSJ/EJ, AK-UCU700PJ/EJ
Power Supply	100 V - 240 V AC, 50 Hz/60 Hz	
Power Consumption	TBD	

Capacity for Supplying Power to a Camera	AC 240 V (tolerance 5%), 1.46 A、 50 Hz/60 Hz [Target]
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 % (no condensation)
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Weight	TBD
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-SDI: 5 lines
	12G/6G/3G/HD-SDI: 2 lines
	HD-SDI: 1 line (shared with picture monitor output*1)
Return Input	3G/HD-SDI: 4 lines

Reference Input	BB (black burst) / tri-level*: 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 Ω (4 W) / 1
	V [p-p], 200 Ω (RTS), 4 W / RTS / CLRCOM) : 2 lines* <sub>1</sub>
	PGM input (0 dBm/600 Ω) : 2 lines
	Tally input (red, green, yellow) : 1 input each
Tally Output	Tally output (red, green, yellow) : 1 output each
AUX Output	Selective output from Return inputs.
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 1 line, 100BASE-TX, 1000BASE-T	
LAN	Personal computer connection for distribution via the Web 1 line, 10BASE-T, 100BASE-TX, 1000BASE-T (use a crossover cable when connecting directly with a personal computer)	
SFP+/SFP28 1, 2* <sub>3</sub>	SFP+/SFP28 x 2 (for ST 2110 connection)	SFP+/SFP28 x 2 (for ST 2110 connection) * When AK-NP701G (sold separately) is installed.
Dante®* <sub>4</sub>	RJ45 x 2 (Primary, Secondary)	RJ45 x 2 (Primary, Secondary) * When AK-NP702G (sold separately) is installed.
STREAM* <sub>5</sub>	RJ45 x 1 (for IP video streaming, SRT, and NDI®) * When AK-NP703G (sold separately) is installed.	RJ45 x 1 (for IP video streaming, SRT, and NDI®) * When AK-NP703G (sold separately) is installed.

- \*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: Standard in AK-UCU710S/UCU710 and optional in AK-UCU700S/UCU700 (requires ST 2110 interface board sold separately).
- \*4: Standard in AK-UCU710S/UCU710 and optional in AK-UCU700S/UCU700 (requires Dante® interface board AK-NP702 sold separately).
- \*5: Requires AK-NP703 streaming interface board sold separately.