

CAMERA CONTROL UNIT CCU-430

The CCU-430 is the camera control unit for the UHK-430 camera. The CCU is connected to the camera using fiber cable to transmit video, audio and control signals, as well as, supplying the power to the camera when hybrid fiber/copper cable is used. Since it works for both 4K and HD workflows, it supports smooth and easy migration from HD to 4K production. The cable length between camera and CCU is up to 4km(13,123ft) with power from the CCU and up to 10km(32,808ft) using the fiber single mode which requires local power at the camera.



Multi-Video Interface

- Switchable 4K or HD signal output
- Built-in 4 x 3G-SDI standard 4K output (Switchable quad link square division /2 sample interleave division)
- With option board, 4K, HD and HD cut-out signals from native 4K are available simultaneously
- Compact (3RU) and light weight

4K/HD Simultaneous Output (Option)

The CCU can output 4K and HD signals at the same time by fitting an optional processing module (the HD_VP board) and an optional output module (the HD_OUT board). Key processing functions such as Detail, Gamma, and Matrix can be separately optimized for each of the two simultaneous outputs.

- Simultaneous output for 4K Quad Link (2 sets of outputs) and HD/3G-SDI (8 outputs) is available.
- For HD/3G-SDI, the CCU can output the down-converted picture from the full 4K image and cut-out a HD image, including the ability to control the position of the cutout at the same time.



Original Native 4K picture



HD cut-out picture

12G-SDI Interface (Option)

Moreover, the CCU-430 Camera Control Unit has been designed taking into consideration that it would support 12G-SDI output interface by swapping the rear plug-in module. So it has flexibility to support future trends for 4K systems.

- 12G-SDI Option Board
 - With the 12G board it is possible to switch the outputs between 12G-SDI and 3G-SDI Quad Link.
 - The board is selectable between three modes according to customer's application.
 - 1) 12G-SDI x 8
 - 2) 12G-SDI x 4 + 3G-SDI x 4
 - 3) 3G-SDI x 4 + 3G-SDI x 4



12G-SDI Option Board

MoIP Interface (Option)

The CCU-430 can provide transportation for separate video, audio, and metadata as independent IP multicast streams by optional plug-in MoIP Gateway Unit, realizing more flexible system integration. The unit supports uncompressed 4K IP main output in 25GbE or 10GbE with low latency, providing superb picture quality. Moreover, redundancy is possible by using a 2nd SFP module (option), based on ST.2022-7.

- Supports uncompressed 4K IP main output based on ST.2110
- 25GbE and 10GbE, multi-mode (short distance) and single mode (long distance) SFP modules available.
- Provides simultaneous output for UHD and HD
 - * HD_VP module (option) is required for this feature.
- Simultaneous output for MoIP and SDI (12G, 3G, 1.5G)
- MoIP I/F x4 ports
- SDI Out (12G/3G/1.5G) x2ch
- HD RET Out x4ch
- HD QTV Out x2ch
- HD Trunk In x1ch
- HD MON In x1ch
- Sync Out x1ch for Tri-Sync Pulse from ST.2059 packet
- GbE Trunk x1port

