

CU 4010

CDS 4000 Central Control Unit for 100 Conference Units



Configuration

CU 4010

The Central Control Unit (CU) powers and controls conference units and mixes the audio. The CU 4010 can control and power 100 conference units. System settings such as operating modes (Automatic, FIFO and Manual) are accessible via the menu on the front of the CU.

A PC, MC 4000 or 3rd party control device (AMX/Crestron) can be connected to the Central Control Unit to allow the operator to remotely control conference units. In the event of PC failure, the Central Control Unit will revert to its stand-alone operation mode, enabling the conference to proceed.

The Central Control Unit has one balanced audio input (line level) for an external audio source and two balanced pre-fader audio outputs (line level, microphone level) for recording or amplification of the mixed feed of all active conference units.

Highlights

- Audio inputs/outputs.
- "Daisy Chain" loop-through cabling.
- Microphone control via PC, MC 4000, or 3rd party device.
- Different operating modes with request-to-speak queue.
- LCD on central unit for easy set-up.
- Up to 6 open delegate microphones.
- Up to 10 CU 4010 can be linked.
- Up to 100 units per CU 4010.
- Conference units are hot swappable.
- 1,000 maximum conference units per system.

Used With

CU 4010
MC 4000
SW 4210
SW 4211
SW 4220
DM 4410 P
CM 4410 P
DM 4420 P
DM 4450 P
CM 4450 P
FD 4010 FHB-4432-GB-100
FC 4010 FHB-4432-GB-100
FD 4011 FHB-4432-GB-100
FC 4011 FHB-4432-GB-100
FD 6012 FHB-6033-GB-100
MU 4040
EC 4000-02
EC 4000-05
EC 4000-10
EC 4000-20
CA 4400-100
CO D15 M
CO D15 F

Includes

CU 4010
19" rack mount hardware
System installation manual
Line cable

| | Specifications | CU 4010 |
|-------------------|---------------------------|-----------------|
| Audio Performance | System Frequency Response | 35Hz - 19 kHz |
| | THD at Nominal Level | <0.1% |
| | Cross Talk Attenuation | |
| | Dynamic Range | |
| | Signal-to-Noise Ratio | >68 dBA |
| | Audio Input | 130 Hz - 13 kHz |
| | Audio Output 1 | 35 Hz - 19 kHz |
| Audio Output 2 | 35 Hz - 19 kHz | |

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|-----------------------|----------------------------|--|
| Controls & Indicators | Power Switch | Mains on/off switch on the front panel |
| | LCD | 2 x 20 Character LCD display for status info and configuration |
| | Menu Push Buttons | Three (3) push buttons for menu navigation and selection |
| | Audio Control Push Buttons | Four (4) push buttons for quick microphone and line input volume control |
| | LEDs | |

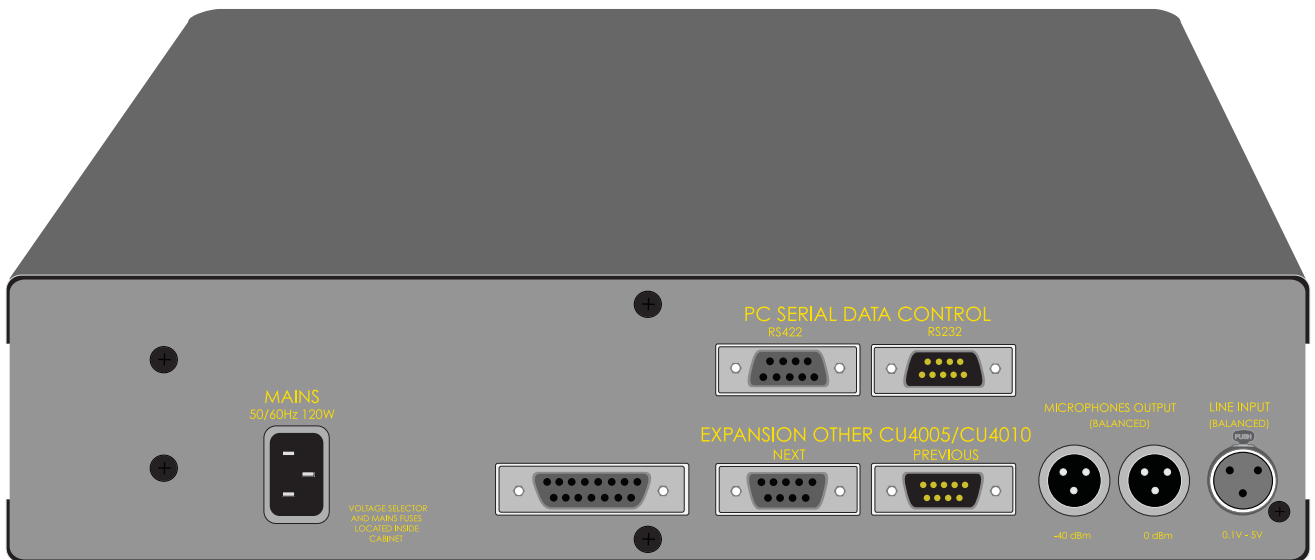
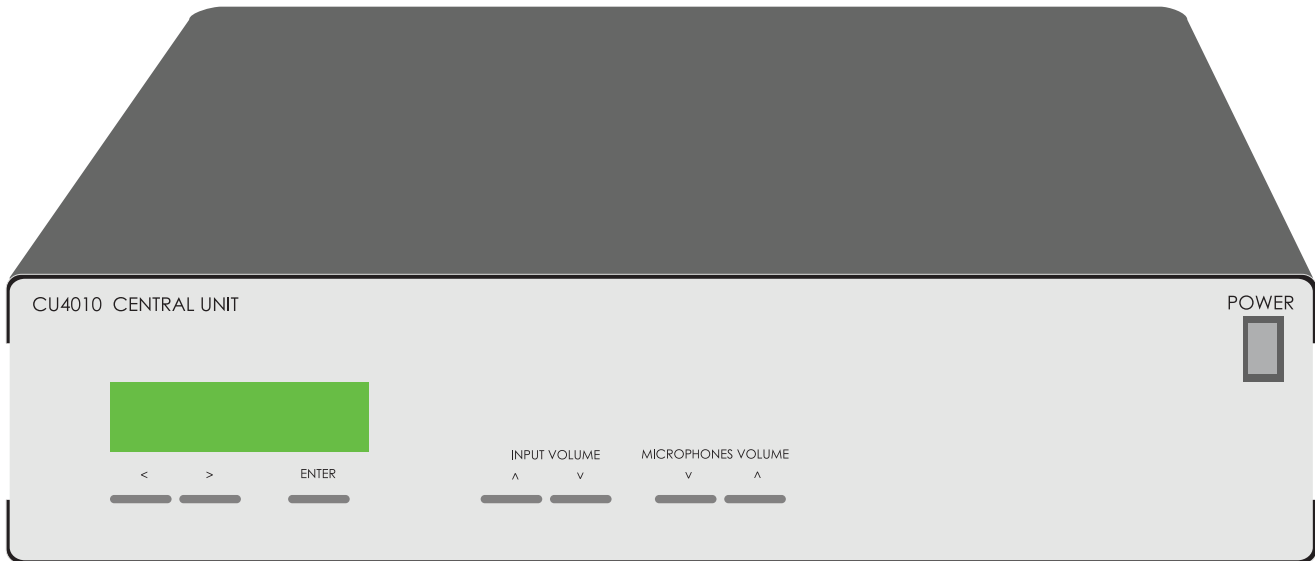
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| Interconnections | Main Socket | Euro main s socket with built-in fuse, matching mains cable 5.58 ft. (1.7 m) included. |
| | CDS daisy chain connector | Two (2) D-sub DB15 female connectors for connecting a chain of conference units. |
| | Audio Inputs | One (1) XLR balanced audio input, Nominal 0 dBm (100mV - 5V) |
| | Audio Outputs | One (1) XLR balanced audio output 0dBm. Configurable for Recorder out, Mix-minus, and Insertion. |
| | | One (1) XLR balanced audio output -40dBm. Configurable for Recorder out, Mix-minus, and Insertion. |
| | Cascading | One (1) male and one (1) female connectors to cascade other central units and/or the MC 4000 Microphone Control Panel (D-sub DB9) |
| Serial Ports (Optional) | One (1) D-sub DB9female RS-232 and one (1) RS-422 D-sub DB9 male serial data connectors for PC, 3rd party control device connection (RS-232 and RS-422 can be used simultaneously). Requires RS 4232. | |

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|-------|-------------------|------|
| Power | Supply Voltage | |
| | Power Consumption | 360W |

| | | |
|----------|---|---|
| Physical | Dimensions (H x W x D) (without brackets) | 3.5 x 18.7 x 12.5 in. (88 x 475 x 317 mm) |
| | Color | Black w/silver |
| | Unit Weight | 19.6 lbs. (8.89 kg) |
| | Shipping Weight | 22.0 lbs (9.99 kg) |
| | Mounting | Free-standing or mounted in a 19" rack |

| | | |
|----------|--------------------------------|-----------------------------|
| Capacity | Control | 100 conference units per CU |
| | Power | 100 conference units per CU |
| | Maximum extension cable length | 330.0 ft. (100 m) |
| | Total maximum CDS chain length | 660.0 ft. (200m) |

** Specifications are subject to change without notification



Accessories



EC 6232-01

DIS D-sub DB9 RS232 Cable 39.37 in. (1 m)

RS232 extension cable to connect the DCS 6000 central control unit to a PC or an AMX/Crestron control device. It is also used to inter-connect multiple CDS 4000 central control units together or a CU to a MC 4000 Microphone Control Panel.



EC 6232-02

DIS D-sub DB9 Cable 6.6 ft. (2 m)

RS232 extension cable to connect the DCS 6000 central control unit to a PC or an AMX/Crestron control device. It is also used to inter-connect multiple CDS 4000 central control units together or a CU to a MC 4000 Microphone Control Panel.



EC 6232-05

DIS D-sub DB9 Cable 6.6 ft. (2 m)

RS232 extension cable to connect the DCS 6000 central control unit to a PC or an AMX/Crestron control device. It is also used to inter-connect multiple CDS 4000 central control units together or a CU to a MC 4000 Microphone Control Panel.



EC 6232-10

CDS 4000 Extension Cable Assembly 6.6 ft. (2 m)

Extension cable, designed to connect the central control unit to conference units or to interconnect delegate units when the standard 6.6 ft. (2 m) cable affixed to the conference unit is not long enough. Provides an additional 6.6 ft. (2 m).



EC 4232-02

CDS 4000 Extension Cable Assembly 16.4 ft. (5 m)

Extension cable, designed to connect the central control unit to conference units or to interconnect delegate units when the standard 6.6 ft. (2 m) cable affixed to the conference unit is not long enough. Provides an additional 16.4 ft. (5 m).



RS 4232

CDS 4000 Extension Cable Assembly 32.8 ft. (10 m)

Extension cable, designed to connect the central control unit to conference units or to interconnect delegate units when the standard 6.6 ft. (2 m) cable affixed to the conference unit is not long enough. Provides an additional 32.8 ft. (10 m).

Frequently Asked Questions

- Q** What's the difference between the CU 4005 and the CU 4010?
A The CU 4005 allows for one microphone chain with 50 units, the CU 4010 allows for 2 microphone chains of 50 units each for a total of 100 units.
- Q** How many microphones can be connected to a single CU 4010?
A 100.
- Q** How far can the daisy chain cabling go?
A A single extension cable must not exceed 330 ft. Maximum total cable length is 660 ft.
- Q** Can I mix and match different microphone styles with the system?
A Yes. You can mix table top units with flush mount units.
- Q** Is the cabling proprietary cabling?
A Yes.
- Q** Does the system work with third party control companies such as AMX or Crestron?
A Yes, however RS 4232 card is required.
- Q** How can I use CDS 4000 for an Interpretation system?
A The CDS 4000 is a discussion system only. The mixed floor channel from the CDS 4000 will need to be connected to a separate Interpretation system.
- Q** Is it possible to have the loudspeaker active when a headphone is used on the CDS 4000 unit?
A There are no headphone outputs on the CDS 4000 microphone units.
- Q** What is the maximum number of chairman's units, which can be connected to CDS 4000 discussion system?
A Up to 10 chairman units can be active simultaneously in addition to the 6 possible active delegate units.
- Q** Are there any software applications that I can use with the CDS 4000 system?
A Yes, the SW 4210, 4211 and 4220. Features monitoring, microphone control, geographical/mimic display, etc. The software is functional in parallel with other control units such as the MC 4000 and external control systems. Note: The SW 42XX requires an RS 4232 interface card to be inserted into the CU.