



A **SHURE** Company

## CU 6110 Central Unit

- Control of 3,800 conference units
- Support up to 31 interpretation channels
- Microphone and voting control
- TCP/IP ethernet interface
- Web browser control
- Two analog inputs
- Eight analog outputs (group or interpretation channels out)
- Audio scrambling



### Description

The CU 6110 is a system controller in the DCS 6000 Digital Conference System. The CU controls everything from small systems with only a few conference units to large systems with many conference units, channel selectors, interpretation and voting facilities.

It supplies power to the conference units and interpreter units. It operates up to 3,800 conference units and 150 interpreter units in a single bus cable structure known as the DCS-LAN; a proprietary high-speed digital audio, data and power bus. All units are daisy chained using CAT 5e (or higher) F/UTP or U/FTP cables.

The CU 6110 features fully digital audio transmission of the floor channel and up to 31 interpretation channels. Up to 8 conference microphones can be open at the same time. The units can be divided into eight groups using a built-in group matrix.

The CU 6110 features two analog audio inputs and eight analog audio outputs. The eight analog audio outputs are used for distribution of audio from eight groups of units, the floor channel or the interpreter channels. This is used either for connection to external PA systems, for recording purposes or for connection to a language distribution systems like the DIS Digital Wireless Infrared System.

The audio from the built-in loudspeakers in the conference units is routed from Group A and/or from the 'Audio In 1 or 2'. Connections for Emergency Evacuation Message (EEM) is available using 'Audio In 2' and a contact closure switch.

The OLED display on the front of the unit enables the user to setup basic system configurations in terms of maximum number of speakers/requests, microphone operation mode etc.

The CU 6110 provides TCP/IP communication over Ethernet. All system settings from a web browser interface, which also features simple microphone control. For more advanced controls, SW 6000 Conference Management Software is available. The CU 6110 also provides a simple to use protocol for external control over Ethernet.

The DCS-LAN chain can be branched using repeater RP 6004 or extension unit EX 6010. Additional units can be powered using power supply PS CU with power inserter PI 6000 or extension unit EX 6010. Inserting JB 6104 junction boxes in the DCS-LAN chain enables hot plug of single units. Each JB 6104 junction box features connection of a single unit to each of the four outputs on the junction box.

### Features

The CU 6110 has the following 'out-of-the-box' features:

- Digital audio transmission
- Daisy chain topology with loop-through connections or star topology using junction boxes or repeaters
- DCS-LAN connection using CAT 5e (or higher) shielded F/UTP or U/FTP cabling
- Control of up to 50 conference/128 interpreter units (expandable - see below)
- Up to eight open microphones/up to four interpretation channels
- Support for three microphone modes; Automatic, FIFO and Manual and three interrupt modes
- 'Auto off' option for microphones
- Scrambled audio to avoid eavesdropping
- Powers up to 60 units without an extra power supply (depending on unit type)
- Eight analog audio outputs (group out or interpretation channels out)
- TCP/IP Ethernet connection for browser control, SW 6000 and third party external control (AMX, Crestron etc.)
- Multi-language web browser for system configuration, microphone/request list control and basic operational parameters
- Built-in table for attaching seat numbers/names to units using a browser

By installing a feature license for the CU 6110, additional features are available:

- Control of up to 3,800 conference units
- Up to 31 interpretation channels
- Voting (One to five buttons in combination with DC 6990P or CUA) and Attendance Check
- Microphone operation mode VOX (voice activation)

Using the SW 6000 Conference Management Software, even more features can be made available like the following:

- Additional voting functionality (passed/not passed and quorum formulas, delegated votes, manual results)
- Conference facilities including agenda handling, delegate details and reports
- Mimic operation
- Message handling
- Chip card registration
- Multi-language user interface
- Mix of microphone operation modes in one system

# Specifications

## Electrical

<b>Power consumption</b>	max. 150W/48V
<b>Supply voltage for units</b>	125W/48V
<b>Audio quality</b>	24 bit audio, 32 kHz sampling frequency
<b>Frequency response</b>	65 Hz-16 kHz
<b>THD</b>	< 0.1 %
<b>Signal-to-noise ratio</b>	> 85 dBA

## Audio inputs

<b>Analog audio in 1</b>	3-pin female XLR sockets (electronically balanced)
<b>Analog audio in 2 (Audio in or Emergency input - EEM)</b>	3-pin female XLR sockets (electronically balanced)

## Audio outputs

<b>Analog audio out (A, B, C, D, E, F, G &amp; H)</b>	Eight 3-pin male XLR sockets (electronically balanced)
<b>Maximum load</b>	> 1 k ohm

## Interconnections

<b>DCS-LAN</b>	Four RJ45 female sockets
<b>EEM</b>	One contact closure input

## System Performance (feature license dependant)

<b>Max. number of conference units (excl. CS)</b>	3,800
<b>Max. number of IS (Interpreter Units)</b>	150
<b>Max. number of IS units in one booth</b>	32
<b>Max. number of AO (Audio Output Units)</b>	20
<b>Max. number of CS (Channel Selector Units)</b>	unlimited
<b>Max. number of languages</b>	31
<b>Max. number of open "floor" microphones</b>	8

## Mechanical

<b>Mounting</b>	Tabletop or mounted in a 19" one unit rack
<b>Color</b>	Black
<b>Dimensions without feet (H x W x D)</b>	44.4 x 426 x 186 mm
<b>Weight</b>	2800 g

<b>Storage temperature</b>	-20° to 60° C, 10-80% humidity
<b>Optimal operating temperature</b>	5° to 40° C, 35-80% humidity

## PS CU External Power Supply

<b>Main voltage</b>	100-240 V, 50-60 Hz
<b>Max. consumption</b>	175 W
<b>Total supply power</b>	150 W
<b>Standby consumption</b>	<0.5 W
<b>Supply voltage for CU 6110</b>	48V/3A



## Certifications

The DCS 6000 system conforms to standard IEC 60914.  
PS CU approvals CE, KC, CCC, cULus, TÜV

## How To Order

<b>CU 6110 Central Unit</b>	15 09 58150
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### Included accessories

- PS CU External Power Supply
- Power cable (EU connector), 1 piece
- 19" brackets, 1 set
- Tool for fixing GM to XLR

