



CU 5905 Central Unit

- **Control of 250 conference units**
- **Support for 2 interpretation channels**
- **Encrypted sound**
- **Web browser interface for Mic control & configuration**
- **TCP/IP control interface**
- **Emergency connection (EEM)**
- **4 configurable analog audio out**



DESCRIPTION

The CU 5905 is the system controller in the DDS 5900 Digital Discussion System product portfolio.

It controls and supplies power to the chairman/delegate conference units and interpreter units.

The CU 5905 operates up to 250 conference units and 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 connected to the DCS-LAN in daisy chains using standard CAT 5e (or higher) FTP/STP cables.

The CU 5905 features fully digital audio transmission of the floor channel and 2 interpretation channels and up to 8 conference microphones can be open at the same time. The floor channel can be distributed in three different qualities to accommodate for the use with external PA systems.

The CU 5905 features 1 analog audio input and 4 analog audio output. The 4 analog output are used for distribution of audio from a single conference unit or from a group of units. The analog output can also be configured for interpreter channel sound for output to language distribution systems like wireless infrared systems. Sound to the built in loudspeakers are either from Out A or from the Analog Audio Input connector.

Connection for Emergency Input (EEM) is available as well.

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

All system settings are available in a web browser interface as the CU 5905 provides TCP/IP communication to external control over Ethernet.

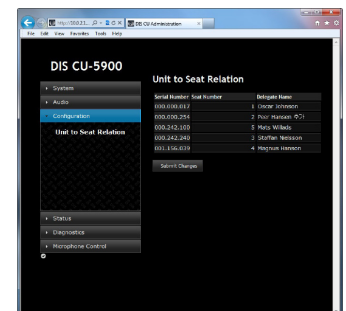
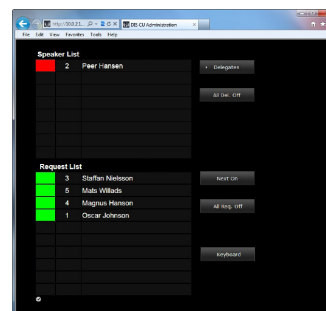
The DCS-LAN chain can be branched using repeater RP 6004 or extension unit EX 6010. Additional units can be powered using power supplies PS 6000 or extension unit EX 6010

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 junction box.

FEATURES

The CU 5905 has the following features:

- Fully digital audio transmission
- Support for 4 microphone operation modes; Automatic, FIFO Manual and VOX (Voice activated On/Off of the microphone)
- Support for 3 microphone interrupt ability modes
- Auto Off of the microphones
- Encrypted sound to prevent eavesdropping
- Powers up to 60 units without the use of additional power supply
- Control of up to 250 conference units
- Control of up to 64 interpreter units
- Up to 8 simultaneous open microphones
- 2 interpretation channels
- 4 analog audio outputs, configurable as group out or interpretation channel out
- DCS-LAN daisy chain topology with loop through connections or hot plug connection when using JB 6104 junction boxes
- DCS-LAN connection by use of CAT 5e (or higher) FTP/STP cabling
- TCP/IP Ethernet connection for external control
- Web browser interface for easy setup of the system configuration
- Web browser interface for microphone control, request list control and basic operational parameters
- Built-in seat table for attaching seat numbers to units
- Assigning names to the seats



TECHNICAL SPECIFICATIONS

Electrical

External supply voltage.....	100-240 V, 50-60 Hz
Total supply power.....	150 W
Sound quality.....	24 bit audio, 32 kHz sampling frequency
Frequency response.....	65 Hz-16 kHz
THD.....	< 0.1 %
Signal-to-noise ratio.....	> 85 dBA

Audio inputs

Analog audio input.....	1 3-pin female XLR sockets (electronically balanced)
Analog Emergency input (EEM).....	1 3-pin female XLR sockets

Audio outputs

Analog audio output.....	4 3-pin male XLR sockets (electronically balanced)
Maximum load.....	> 1 k ohm

Interconnections

DCS-LAN.....	2 RJ45 female sockets
EEM.....	1 contact closure input

System Performance

Max. number of conference units.....	250
Max. number of IS units in one channel.....	32
Max. number of languages.....	2
Max. number of open "floor"microphones.....	8

Mechanical

Mounting.....	Tabletop or mounted in a 19" 1U rack
Color.....	Black
Dimensions without feet (H x W x D).....	44,4 x 426 x 186 mm
Weight.....	2800 g
Storage temperature.....	-20°-60° C, 10-80% humidity
Optimal operating temperature.....	5°-40° C, 35-80% humidity

How to order

CU 5905 Central Unit.....1509 58001

Included accessories

Power cable, 1 piece
19" brackets, 1 set
Tool for fixing GM to XLR
Chairman overlay, English Language, 2 pieces
Interpreter overlay, English Language, 3 pieces
Delegate overlay, 1 piece, "One button" (Mic On/Off).

Data subject to change without notice

CONTACT

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The DDS 5900 system in general conforms to all relevant standards (IEC 914, ISO 4043, ISO 2603), however some functionality when the unit is configured as interpreter unit does not fulfill all requirements in the standard

DRAWING

