

DCS 6000 Digital Conference System

CU 6010



CU 6010 Central Control Unit

- **Up to 3800 conference units**
- **Up to 31 interpretation channels**
- **Voting & microphone control**
- **Use of feature licenses**



The CU 6010 Central Unit is a powerful microprocessor based control unit designed for the DCS 6000 Digital Conference System. Only one CU 6010 unit is needed for control of all types of conference units whether it is a small system with only a few microphones or a large network with interpretation equipment, voting units, numerous microphones and channel selectors.

The CU 6010 includes both power supplies for connected DCS 6000 units and system control features.

Connection of a PC is not necessary, However, new functionalities like voting can be added by using a PC with SW 6000 Conference Management Software.

Microphones, interpreter sets etc. are all connected in a fully digital communication bus - the proprietary DCS-LAN using standard CAT 5 cables developed for the best digital audio and data distribution.

CU 6010 main operational features:

The CU 6010 has as standard the following features:

- Operation modes: Automatic, FIFO and Manual
- 3 microphone interrupt ability modes
- Up to 8 microphones open at one time
- Auto Off of conference units
- Various interlock functions for interpretation units
- Max. 4 interpreter channels
- Control of max. 50 conference units

By uploading 'Feature Licenses' into the CU 6010 the following additional features will be available:

- Control of up to 3800 conference units
- Voting (with SW 6000)
- Operation mode VOX, Voice Activation
- Security enhancement (Encrypted Sound)
- Up to 31 interpretations channels

Additional with the SW 6000 Conference Management Software:

- Custom required operation modes
- Mix of operation modes in one system
- Sharing microphone functionality (two units are sharing the same gooseneck microphone)
- Chip card registration
- Voting

CU 6010 technical features:

- A powerful built-in microprocessor with DIS proprietary chips, DSP, flash RAM etc.
- Fully digital audio transmission of floor plus 31 interpretation channels and 8 conference microphone audio channels in a single digital bus cable structure
- Backlit alphanumeric LCD Display for displaying the actual mode, language and system settings, etc.
- Menu guided set-up of number of speakers, number of requests, operation mode, different languages and corresponding channels and other system settings.
- More than 70 ISO standard languages can be selected for interpretation. Preferred settings can be

saved in the CU 6010 memory.

- Versatile test program built-in for testing the system performance, the conference units and the interpreter sets.
- Firmware upgrade of the entire DCS 6000 system is possible via a PC
- Electronically balanced, analogue input/output for a variety of external devices
- Long life built-in temperature regulated fan for low-noise operation
- Horizontal orientation of air stream for easy stacking of units in 19"-racks
- External control possible with RS232 or RS422 connections for e.g. PC, room control (like AMX, Crestron etc.)
- DCS-LAN - a proprietary high speed all digital audio channel, data and power bus

In larger systems EX 6010 Extension Unit, JB 6000 Junction Boxes, RP 6004 Repeater or PS 6000 Power Supply may be included. Please refer to datasheet 6.09.

In order to provide additional analogue outputs AO 6004/6008, Audio Output Unit may be connected - see datasheets 6.07 and 6.36.

DCS 6000 Digital Conference System Specifications

CU 6010



Digital Section:

Sound quality 24 bit audio @ 32 kHz
sampling frequency

Analogue Section:

Floor output signal type:
electronically balanced
Nominal output level:
-8dBm at nominal input
Max. output level:
3.5V RMS ~ +13 dBm
Max. load >1 K ohm
Line input signal type:
electronically balanced
Max. input level: +30 dBm
Input impedance: 100 K ohm
Frequency response: 50 - 15 kHz
Signal to noise ratio: >85 dBA
Total harmonic distortion: < 0.1%

General:

Power consumption: max. 600VA
Mains voltage: 100 - 240V, 50 - 60 Hz
Supply voltage for units (for each of the
4 chains): 48V / 125W
Temperature to guarantee specified
performance:
5°-40° C (35-80% humidity)
Storage temp.:
-20°- 60° C (10-80% humidity)
Weight: 6.2 kg.
Unit housing: 19" rack, 2HU
Dimensions (W x H x D):
425 (483) x 87 x 317 (357) mm
(dim. in brackets are incl. 19" brackets)

Connectors:

DCS 6000 network chain (DCS-LAN):
4 x RJ45

Max. number of units to be
connected to each chain:

MU 6040: up to 80 units
DM/CM 60x0P: up to 42 units
IS 6132P : up to 54 units
CS 6032F: up to 110 units

The actual max. number of units
depends on the length of the feeding
cable and interconnection cables

Line output: XLR3 male connector
Line input: XLR3 female connector
RS232 (w. HW handshake):
D-sub 9 female
RS422 (w. HW handshake):
D-sub 9 male
either the RS 232 or the RS422 can
be used

System Performance (feature license dependant):

Max. number of conference units
(excl. CS): 3800
Max. number of IS 6xxx in one booth:
32
Max number of IS 6xxx: 150
Max. number of A0 6004/6008: 20
Max. number of CS 6032: unlimited
Max. number of languages: 31
Max. number of open "floor"
microphones: 8

The DCS 6000 system conforms to all
relevant standards - e.g. IEC 914, ISO
4043, ISO 2603

Data subject to change without notice in interest of
product improvements.

How to order

Central Units:

CU 6010
EX 6010
JB 6002
JB 6004
PS 6000
RP 6004

Order no.:

15 09 05755
15 09 05681
15 09 05758
15 09 05798
15 09 05756
15 09 05757

Connection Cable for DCS 6000 components:

EC 6000-0.5 EC 6000-10
EC 6000-01 EC 6000-20
EC 6000-05 EC 6000-50
0.5 m - 50 m. STP Cat.5 cables