



DCS 6000 Danish Interpretation Systems User Manual

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DCS 6000 Danish Interpretation Systems



Product Information

The DCS 6000 is a digital conference system manufactured by Danish Interpretation Systems. It consists of various components including the JB 6002 and JB 6004 Junction Boxes. The system is designed to provide a seamless and efficient conference experience.

Features

- Complies with part 15 of the FCC rules
- Provides protection against harmful interference
- Central equipment for managing the conference
- Interpreter equipment for language interpretation
- Conference equipment and channel selectors for participants

System Components

- Central equipment, including the JB 6002 and JB 6004 Junction Boxes
- Interpreter equipment for language interpretation
- Conference equipment and channel selectors for participants

Important

Compliance

The equipment has been tested and found to comply with the limits of the following standards for digital devices:

- EN55103-1 (Emission)
- EN55103-2 (Immunity)
- FCC rules part 15, class A (Emission)?

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

These limits are designed to provide reasonable protection against harmful interference when the equipment is

operated in a commercial or light industrial environment. The equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the user manual it may cause harmful interference to radio communications.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Installation precautions

Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place .Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place .

Cleaning

To keep the cabinet in its original condition, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use organic solvents such as thinners or abrasive cleaners since these will damage the cabinet.

Repacking

Save the original shipping cardboard box and packing material; they will become handy if you ever have to ship the unit. For maximum protection, re-pack the unit as originally packed from the factory.

Warranty

The individual units in the DCS 6000 system are minimum covered by 12 months warranty against defects in materials or workmanship.

Description of the DCS 6000 system

Features

- Fully digital
- Excellent sound quality
- “State of the Art” fully digital integrated interpretation, discussion and voting system offering interpretation, language distribution, conference microphone and voting facilities with attendance check with Chip Card TM.
- New, unique digital DATA and AUDIO bus.
- 39 incoming channels (8 floor channels + 31 interpreted channels) and one Line input.
- 33 distributed channels (2 x floor + 31 interpreted channels)
- The Delegate and Interpreter units are powered and controlled by the CU 6010 Central Unit, which drives up to app. 200 units on 4 chains.
- EX 6010 Extension Units or PS 6000 Power Supplies available if more units are required
- A total of 4000 units (delegate and/or interpreter units) can be connected to the system.
- Using screened CAT5 or CAT5e cabling (FTP or STP) ensuring a very cost effective installation and easy set-up of portable systems
- Firmware in Delegate units, Interpreter Units, Central Units etc. upgradeable through serial PC-connection (RS232 or RS422)
- Can be operated with or without a PC.
- Added functionality and comprehensive features provided by SW 6000 software package running on PC

RS232/RS422 connection on CU 6010 for external operation of the system of a PC or control system such as

AMX or Crestron

The SW 6000 is an optional software package, which expands the functionality of the DCS 6000 system. The software runs on standard computer technology (Standard PC with Windows 2000 or XP).

Main features of the SW 6000 are:

- Microphone management
- Mimic panel operation
- Interpretation management
- Voting management
- Message handling
- Agenda handling
- Data stored on SQL data base for easy export/import of data as well as easy links to external databases
- Multi language user interfaces
- Supports different User types with different priorities, user interfaces and control possibilities
- Variety of printing facilities such as speaker's log, voting results, delegates list etc.

System components

The CU 6010 Central Unit supports all available units in the DCS 6000 series:

Central equipment etc.

- **EX 6010** Extension Unit
- **PS 6000** Power Supply
- **AO 6008** Audio Output box
- **RP 6004** Repeater for four chains
- **JB 6002** Junction Box with 2 outputs
- **JB 6004** Junction Box with 4 outputs

Interpreter equipment

- **IS 6032P** Interpreter Set
- **IS 6132P** Interpreter Set
- **LS 6032P** Interpreter Loudspeaker

Conference equipment and channel selectors

- CS 6032FV/H Channel Selector (flush mounted)
- CM/DM 6010P Conference Unit (portable)
- CM/DM 6020P Conference Unit (portable) with XLR microphone connector
- CM/DM 6070P Conference Unit (portable) with two built-in channel selectors
- CM/DM 6090P Conference Unit (portable) with two built-in channel selectors and XLR microphone connector
- CM/DM 6060F Conference Unit (flush mounted) with one built-in channel selectors
- CM/DM 6510F Conference Unit (flush mounted) with Chip-card and 3 voting buttons
- CM/DM 6560F Conference Unit (flush mounted) with one built-in channel selector, Chip-card and 3 voting

buttons

- MU 6040C/D Microphone Unit for use with customised front plate with Loudspeaker, Microphone and Buttons.
Available in Delegate (D) and Chairman (C) version
- AM 6040 Ambient Noise Microphone

Operating instructions

JB 6002/04 Junction Box

General description: The JB 6002/04 Junction Boxes are part of the DCS 6000 system and enables the DCS-LAN to be split into 2 or 4 I/O buffered ports.

The JB 6002/04 is used to split the DCS-LAN for tap-out connection of a DCS 6000 conference unit.

Features

The main features of the JB 6002/04 are:

- Loop through of the DCS-LAN.
- 2 or 4 independent DCS-LAN tap-out ports.
- Redundancy enhancement as other tap-out ports are unaffected by potential network damage on one tap-out port.
- Enables single cable connection to each unit
- Designed in a small size easy-to-install cabinet.

Connectors JB 6002/04

The JB 6002/04 features the following connectors:

Loop through chain

RJ45 connector, 2 pieces

DCS-LAN connectors used for connection to the CU 6000/CU 6010 and for connection to other units with DCS-LAN connectors such as more JB 6002/04.

These connectors have auto termination.

Unit connector

- RJ45 connector, 2 pieces (JB 6002), 4 pieces (JB 6004)
- Each connector is for connection to one Delegate Unit or one Interpreter Unit or up to four Channel Selectors.
This limitation is because the 'Unit' connectors have current limiting devices for the power line.
- Maximum cable length on the 'Unit' connector: 10 m.

Note: The connected unit must be terminated (either by auto termination or terminating plug (CS 6032)).
Unused 'Unit' connectors of JB 6002/4 do not need termination.

LED Indications on JB 6004

- In addition to the above-mentioned connectors, the JB 6004 features the following indications

- **Power LED**

- This LED lights up when Power is available on the connector next to the LED.

- **Outgoing data**

- This LED lights up, when the Junction Box receives data from the CU 6010 Central Unit (at the 'Loop Through Chain').

- **Incoming Data**

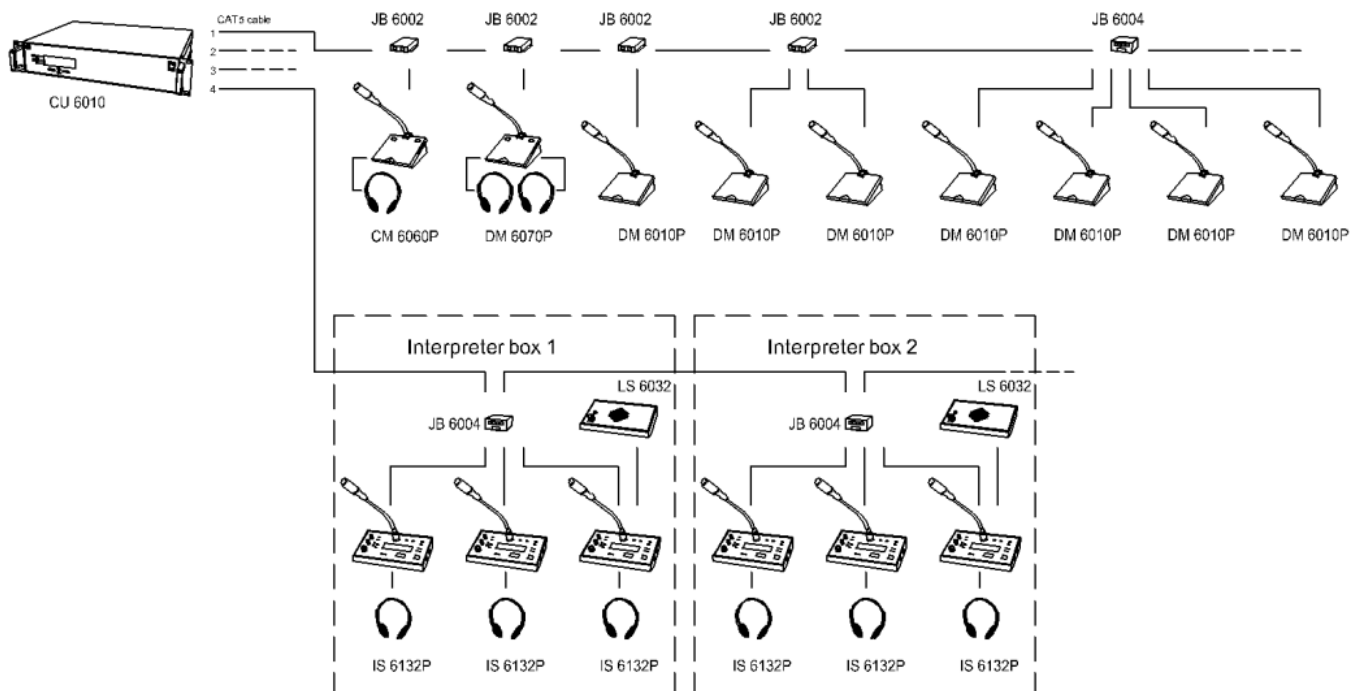
- This LED lights up, when the Junction Box received data from the connected Unit(s) (at the 'Unit' connector).

System design

- There are no settings to be done on the JB 6004 Junction Box.
- Regarding the number of units, which can be connected to the CU 6010, please refer to the CU 6010 User Manual.

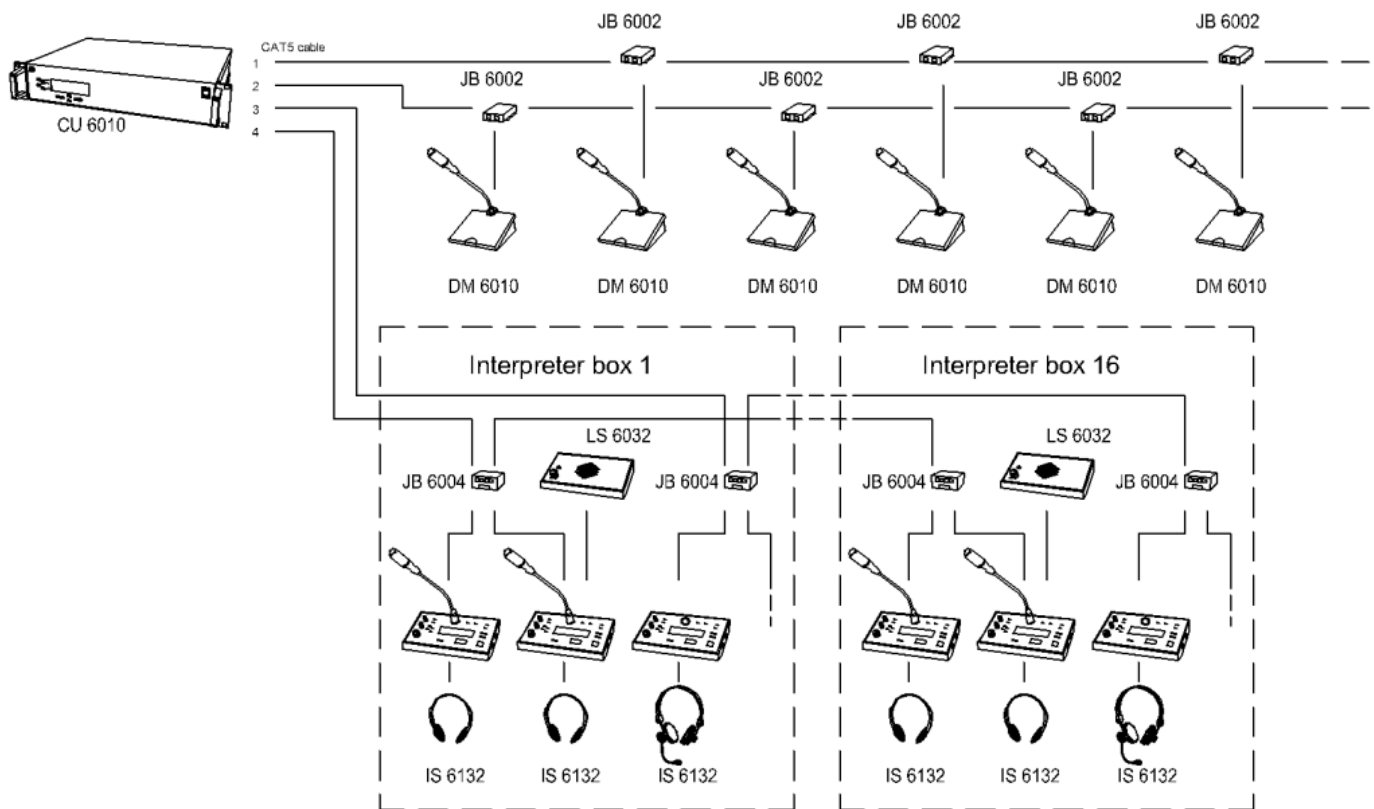
Standard use of JB 6002/04

The following typical schematic shows the normal use of JB 6002/04 with delegate and interpreter units:



Enhanced use of JB 6002/04

The following schematic shows how to use two parallel feeding cables to both the delegate units and the interpreter units. In case of cable failure, there will always be units (in the same row or booth), which will work. This considerably enhances the redundancy of the system.



Appendix

Technical appendix

Cabling

CAT5

- The DCS 6000 system uses CAT5, CAT5e or CAT6 FTP or STP cables with screened RJ45 connectors.
- EIA 568-B wiring shall be used.
- It is important to use only FTP or STP (screened) cables and screened RJ45 connectors and not UTP cable, which is unscreened.

How to wire a CAT5 (EIA 568-B) Cable:

Pin	Function	Connector #1	Connector #2
1	In-going +	ORG/WHT	ORG/WHT
2	In-going –	ORG	ORG
3	+48V	GRN/WHT	GRN/WHT
4	0V	BLU	BLU
5	0V	BLU/WHT	BLU/WHT
6	+48V	GRN	GRN
7	Outgoing –	BRN/WHT	BRN/WHT
8	Outgoing +	BRN	BRN

Note. If other colour codes are used then the four pairs are connected as follows:

- **Pair 1:** Pin 1 & 2
- **Pair 2:** Pin 3 & 6
- **Pair 3:** Pin 4 & 5
- **Pair 4:** Pin 7 & 8

The phase of the pairs must be correct and the wiring spec. as stated in CAT5 (EIA 568-B) have to be followed.

Note: CAT6 cables can normally only be terminated in sockets (female) and not in cable plugs. CAT6 can thus only be used for longer cable draws terminating in wall outlets or jack patch panels

Accessories (not supplied)

Cat 5e Connection Cables (AWG24)

- EC 6000-..5 Connection Cable 0,5 m.....10 03 12500
- EC 6000-01 Connection Cable 1 m.....10 03 13101
- EC 6000-02 Connection Cable 2 m.....10 03 13201
- EC 6000-05 Connection Cable 5 m.....10 03 13501
- EC 6000-10 Connection Cable 10 m.....10 03 14102
- EC 6000-20 Connection Cable 20 m.....10 03 14202
- EC 6000-50 Connection Cable 50 m.....10 03 14502

Technical specifications

General

- **Power consumption**max. 0,5W
- **Supply voltage for unit's** 48V
- **Temperature to guarantee specified performance**5 Deg C. to 40 Deg C. (35 to 80% humidity)

- **Storage temperature** -20 Deg C. to 60 Deg C. (10 to 80% humidity)
- Weight JB 6002 0,1 Kg
- Weight JB 6004.....0,2 Kg
- Dimensions JB 6002 (W x H x D)80 x 24 x 102 mm
- Dimensions JB 6004 (W x H x D)88 x 47 x 105 mm

Connectors

- **DCS-LAN loop through**.....2 pieces RJ45
- **DCS-LAN chain (JB 6002)**.....2 pieces RJ45
- **DCS-LAN chain (JB 6004)**.....4 pieces RJ45

Specifications are subject to change without notice

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Documents / Resources



[Danish Interpretation Systems DCS 6000 Danish Interpretation Systems](#) [pdf] User Manual JB 6002, JB 6004, DCS 6000 Danish Interpretation Systems, Danish Interpretation Systems, Interpretation Systems, Systems

References

- ^{M_H} [Search - Manual-Hub.com](#)