



**BOSCH**  
Invented for life

# DCN-CCU Central Control Unit



- ▶ **Stylish and modern design (IF award)**
- ▶ **Control for up to 245 Contribution units**
- ▶ **Control for an unlimited number of channel selectors**
- ▶ **2 x 32 high quality audio channels**
- ▶ **PC control facility**
- ▶ **Optical network coupling**
- ▶ **Redundant network capability**

The Central Control Unit (CCU) includes features for controlling delegate microphones, distributing simultaneous interpretation and conducting voting sessions, all without an operator.

In combination with a PC, this control unit brings greater sophistication to conference control. Users can access an extensive range of software modules, each with a specific function in controlling and monitoring a conference. These modules greatly expand the capacity to manage a conference. In the event of PC failure, this control unit will revert to its stand-alone operation mode, enabling the conference to proceed.

## Functions

- Basic microphone management facilities
- Four operational microphone modes:
  - Open: microphone button control with request-to-speak (Auto)
  - Override: microphone button with override of activated microphones (FIFO)
  - Voice: voice activated microphones
  - Push-to-talk (push and hold button to speak)
- Number of open microphones between 1 and 4
- Basic voting control for parliamentary voting procedure. Delegates can register 'Present', 'Yes', 'No' and 'Abstain'. The Centus Chairman unit can start, stop and suspend the voting. The total results can be displayed on hall displays and on the LCD screens of the units
- A page function which activates a voting tone. With this tone the chairman can indicate that a voting round is about to start.
- Basic simultaneous interpretation function with as many as 31 language channels plus one floor channel
- Basic intercom function with function to assign intercom operator and intercom chairman (both can be called from the interpreter desk)
- Stand-alone automatic camera control
- Extended conference facilities when using control PC software or remote controllers
- Adjustable sensitivity for the audio inputs
- Adjustable level for the audio outputs
- Audio insertion facility to connect external audio processing devices or telephone couplers
- Configuration of CCU and system via a display and a single rotary push button
- The CCU can be assigned a unique name by the installer for easy identification
- VU meter readings to monitor audio inputs and audio outputs. The audio can be monitored using a headphone
- 19" (2U) housing for tabletop or rack mounting
- Handgrips for easy transportation

**Controls and Indicators****Front**

- Power on/off switch
- 2 x 16 Character LCD display for status information and configuration
- Rotary control to navigate through the LCD menus

**Back**

- Two red LED overload indicators for the DCN network outputs
- Two red LED overload indicators for the optical connections
- Voltage selector

**Interconnections****Front**

- One stereo headphone output 3.5 mm (0.14 in)

**Back**

- Euro power socket with built-in fuse
- Two DCN outlet sockets for connection of units, plus extension power supplies. Each socket is protected against short-circuit (2 x six-pole circular sockets)
- Two optical network connections for connection of Integrus, various audio expanders or a network controller
- Two three-pole XLR balanced audio line inputs with galvanic separation.
- Two stereo Cinch unbalanced audio line inputs
- Two three-pole XLR balanced audio line output with galvanic separation.
- Two stereo Cinch unbalanced audio line outputs
- Two RS-232 serial data connectors for PC control, and controlling cameras and diagnostics

**Parts Included**

Quantity	Component
1	DCN-CCU Central Control Unit
1	Set of mounting brackets for 19" rack
1	Set of feet
1	System installation and user instruction on CD ROM
1	Power cord

**Technical Specifications****Electrical**

Supply voltage	115/230 V +/- 10 %
Power consumption	170 W
DCN system supply	40 VDC, max 65 W per DCN socket
Optical network supply	40 VDC, max 65 W
Total supply power	130 W
RS-232 connection	2 x nine-pole Sub-D female socket
Frequency response	30 Hz - 20 kHz (-3 dB at nominal level)
THD at nominal level	< 0.5 %
Cross talk attenuation	> 85 dB at 1 kHz
Dynamic range	> 90 dB
Signal-to-noise ratio	> 87 dBA

**Audio inputs**

XLR nominal input	-12 dBV (+/- 6 dB)
XLR maximum input	+12 dBV
Cinch nominal input	-24 dBV (+/- 6 dB)
Cinch maximum input	+0 dBV

**Audio outputs**

XLR nominal output	-12 dBV (+6 / -24 dB)
XLR maximum output	+12 dBV
Cinch nominal output	-24 dBV (+6 / -24 dB)
Cinch maximum output	+0 dBV

**Mechanical**

Mounting	Tabletop or mounted in a 19" rack
Dimensions (H x W x D)	
for tabletop use, with feet	92 x 440 x 400 mm (3.6 x 17.3 x 15.7 in)
for 19" rack use, with brackets	88 x 483 x 400 mm (3.5 x 19 x 15.7 in)
in front of brackets	40 mm (1.6 in)
behind brackets	360 mm (14.2 in)
Weight	7 kg (15.4 lbs)
Color	Charcoal (PH 10736) with silver

**Ordering Information**

<b>DCN-CCU Central control unit</b> for all regions except North-America	<b>DCN-CCU</b>
<b>DCN-CCU-UL Central Control Unit UL/CSA</b> for the North-America region	<b>DCN-CCU-UL</b>

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