BOSCH
Invented for life

DCN-WCCU Wireless Central Control Unit

▸ Optical network interface for easy connection

▸ Single branch or redundant loop networks

▸ Control for up to 150 wireless discussion units

▸ Additional control for up to 93 interpreter desks

▸ Serial ports for PC and camera control

The DCN-WCCU is the brain of the DCN Wireless system. It provides control for up to 150 wireless discussion units and 93 interpreter units.

The WCCU uses Bosch's proprietary optical network for easy connection to the wireless access point and other Bosch congress equipment. Networks can be set-up in single branch or redundant loop configurations, depending on the installed equipment.
For connection to DCN-IDESK interpreter desks, the WCCU has two outlet sockets for DCN trunk-cables.
In combination with a PC and the Conference Control Software (DCN-SWSMV), the WCCU brings greater sophistication to conference control.

Functions

- Optical network to:
  - couple the WCCU to the WAP
  - allow a variety of audio contribution and distribution facilities (can connect to other Bosch congress equipment, such as: Integrus transmitter for infra-red language distribution; Audio Expanders, and CobraNet™ interfaces)
- DCN trunk to connect to DCN-IDESK interpreter desks

- Basic microphone management facilities
- Three operational microphone modes:
  - Open: microphone button control with request-to-speak (Auto)
  - Override: microphone button with override of activated microphones (FIFO)
  - PTT: Push To Talk (push and hold button to speak)
- Up to 4 open microphones (3 for delegates and 1 for the chairman)
- Voting control for parliamentary voting procedure when using PC and DCN-SWSMV software
- Simultaneous interpretation function with up to 31 language channels, plus one floor channel via Integrus language distribution system
- Basic intercom function
- Automatic camera control
- Extended conference facilities when using PC and DCN-SWSMV software
- Adjustable sensitivity for audio inputs and outputs
- Audio insertion facility to connect external audio processing devices or telephone couplers
- Configuration of WCCU and system via a display and a single rotary push button
- Each WCCU can be assigned a unique name by the installer for easy identification

- VU meter readings of audio inputs and outputs (monitored using a headphone)
- 19" (2U) housing for table top or rack mounting
- Handgrips for easy transport

Controls and Indicators

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

At the rear
- Four red LED overload indicators (2 for the DCN network outputs, 2 for the optical connections)

Interconnections

- Euro mains socket with built-in fuse
- Two DCN outlet sockets to connect DCN-IDESK interpreter desks, plus extension power supplies. Each socket is protected against short-circuit (2 x six-pole circular sockets)
- Two optical network connectors for a Wireless Access Point, Audio Expanders or Integrus TX
- Two three-pole XLR balanced audio line inputs with optional 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
- One headphone output 3.5 mm (0.14") stereo
- Two RS-232 serial data connectors for controlling PC and diagnostics

Parts Included

Quantity	Component
1	DCN-WCCU Wireless Central Control Unit
1	System installation and user instruction CD-ROM
1	Mains cable, 1.7 m (5.5 ft)
plus:	19" rack mounting brackets, detachable feet and mounting accessories

Technical Specifications

Electrical

Supply voltage	100 - 240 VAC +/- 10 % 50 – 60 Hz
Power consumption	200 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	Free-standing or mounted in a 19" rack
Dimensions (H x W x D) with brackets, without feet	88 x 483 x 350 mm (3.5 x 19 x 13.8 in)
without brackets, with feet	92 x 440 x 350 mm (3.6 x 17.3 x 13.8 in)
Weight	7 kg (15.4 lbs)
Color	Charcoal (PH 10736) with silver

Ordering Information

Model | Description

DCN-WCCU Wireless Central Control Unit
   for all regions except North-America

DCN-WFCCU Flight Case for WCCU and WAP
   light grey, holds wireless central control unit(s), access point & cable

DCN-WCCU-UL Wireless Central Control Unit UL/CSA
   for the North-America region