DICENTIS Wireless Devices

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BOSCH
Invented for life

▶ 4.3 inch capacitive touch screen and built-in NFC reader for fast recognition of participants

▶ Option to display personalized custom logo on the touch screen

▶ Removable Battery Pack, easy to change and charge

▶ Configurable as a participant, dual-use or chairperson Wireless Device by use of web browser interface

▶ Functionality can be expanded with software modules without the need for hardware modification

The Wireless Devices (DCNM-WD and DCNM-WDE) of the DICENTIS Wireless Conference System enable participants to speak, register a request-to-speak, and listen to a speaker during a meeting.
Both devices can be easily configured as a single-use, dual-use or chairperson Wireless Device via the web browser interface of the Wireless Access Point (DCNM-WAP).
The Wireless Device Extended (DCNM-WDE) enables advanced meeting efficiency due to the 4.3 inch capacitive touch screen and Near Field Communication (NFC) reader for identifying users.

Functions

General
- The Wireless Devices connect to the DCNM-WAP.
- Single-use, dual-use or chairperson can be configured via the web browser interface.
- Audio mute button.
- Operates in the (license-free) bands:
  - 2.4 GHz.
  - 5 GHz (UNII-1, UNII-2, UNII-2 extended, and UNII-3).

DCNM-WD
- Used for basic discussion.

- Dual use functionality by use of software module.

DCNM-WDE
The Wireless Device Extended, which enables extended discussion, has:
- 4.3 inch capacitive touch screen for displaying:
  - Custom logo.
  - Multiple user interface languages in original characters.
  - Speaker list.
  - Request list.
- Built-in Near Field Communication (NFC) contactless tag reader.
- Additional functionality by use of software modules:
  - Identification functionality.
  - Voting.
  - Dual use.

Speech intelligibility
- Maximum speech intelligibility is guaranteed at all times.
- The Wireless Devices connect to the DCNM-WAP.
- They produce crystal-clear sound due to a very high signal-to-noise ratio and smart frequency selection.
- The loudspeaker and microphone can be active at the same time for a face-to-face meeting experience. To prevent acoustic feedback, a feedback suppressor is built-in.

Zero Interference
- Based on standard WiFi.
- Seamless automatic frequency channel switching.
- WiFi coverage area range test.
- Packet Loss Concealment.

Security
- The DICENTIS Wireless Conference System and Wireless Devices have secure connectivity using WPA2 to prevent eavesdropping and unauthorized access.
- Encryption ensures that information within the system remains confidential.

Microphones
- A socket is provided to connect a pluggable microphone (DCNM-HDMIC, DCNM-MICS or DCNM-MICL).

Headphones and loudspeakers
- The Wireless Devices accommodate two headphone connections and controls (on the left and right-hand side), so the speaker can be clearly heard, even when there is excessive background noise.

Battery maintenance
- Rechargeable Battery Pack (DCNM-WLIION).
- The lithium-ion Battery Pack can be removed and replaced in a matter of seconds, providing maximum flexibility in recharge scheduling.
- Smart battery management via web browser interface control (battery status and usage counting time).

Controls and Indicators
- On top side:
  - 4.3 inch capacitive display with touch screen (DCNM-WDE only).
  - Microphone with a red or green indicator:
    - **Red** indicates microphone is active.
    - **Green** indicates request-to-speak accepted.
  - LED indicators on device showing:
    - Microphone on state – **Red**.
    - Possible-to-speak – **White**.
    - Priority – **White** (Chairperson only).
    - Request-to-speak – **Green**.
- On the left and right-hand side
  - Headphone rotary volume controls.
- On rear-side:
  - Yellow out-of-range of Wireless Access Point LED indicator.
  - Red battery low LED indicator.
- Under base-side:
  - Recessed, so called 'De-init,' switch to disconnect the connected Wireless Device with the Wireless Access Point (DCNM-WAP).

Interconnections
- Socket for pluggable microphone.
- Two 3.5 mm (0.14 in) headphone sockets stereo jack type.

Certifications and approvals

EU	CE
US	FCC
CA	ICES-003
KR	KC
AU/NZ	RCM
RU/KZ/BY	EAC
JP	MIC
CN	China RoHS, CMIIT
SA	SASO
BR	ANATEL

Region	Certification	
Europe	CE	DECL EC DCNM-WD
	CE	DECL EC DCNM-WDE

Technical specifications

Electrical

Supply voltage (battery pack)	7.5 Vdc
Power consumption	4.5 W
Operating time DCNM-WD	> 24 hours (20% speech, 80% listening)
Operating time DCNM-WDE	> 20 hours (20% speech, 80% listening)
Frequency response	100 Hz – 20 kHz) (-3 dB at nominal level)
THD at nominal level	< 0.1 %
Dynamic range	> 90 dB
Signal-to-noise ratio	> 90 dB
Headphone load impedance	> 32 ohm <1k ohm
Headphone output power	15 mW

Radio

WIFI standard	IEEE 802.11n
Frequency Range	2.4 GHz and 5 GHz (ISM license free)

Audio inputs

Nominal microphone input	80 dB SPL according IEC60914
Maximum microphone input	110 dB SPL according IEC60914

Audio outputs

Loudspeaker nominal output	72 dB SPL at 0.5 m
Loudspeaker maximum output	80 dB SPL

Headphone nominal output	0 dBV
Headphone maximum output	3 dBV

General

Screen size (DCNM-WDE only)	4.3 inch
Screen type (DCNM-WDE only)	Capacitive multi-touch
Supported contactless NFC tag (DCNM-WDE only)	According to: ISO/IEC14443 Type A (from 106 kbps to 848 kbps. MIFARE 106kbps).

Mechanical

Mounting	Tabletop
Dimensions (H x W x D) without microphone	72 x 259 x 139 mm (2.8 x 10.2 X 5.5 in)
Weight: DCNM-WD DCNM-WD + Battery Pack DCNM-WDE DCNM-WDE + Battery Pack	590 g (1.30 Lb) 1051 g (2.32 lb) 670 g (1.47 lb) 1131 g (2.49 lb)
Color (top and base)	Traffic black (RAL 9017)

Environmental

Operating temperature	5 ºC to +45 ºC (41 ºF to +113 ºF)
Storage and transport temperature	-20 ºC to +70 ºC (-4 ºF to +158 ºF)
Relative humidity	< 95 %, > 5%

Ordering information

Wireless discussion device
DICENTIS Wireless Device. Pluggable microphone and battery pack to be ordered separately.
Order number **DCNM-WD**

Wireless discussion with touchscreen
DICENTIS Wireless Device Extended with 4.3 inch touch screen, NFC identification reader. Pluggable microphone and battery pack to be ordered separately.
Order number **DCNM-WDE**

Accessories

DCN multimedia High Directive Microphone
DICENTIS High Directive Microphone for the DICENTIS Conference System or DICENTIS Wireless Conference System.
Order number **DCNM-HDMIC**

DICENTIS Short Stem Microphone
DICENTIS short stem microphone for the DICENTIS Conference System or DICENTIS Wireless Conference System.
Order number **DCNM-MICS**

DICENTIS Long Stem Microphone
DICENTIS long stem microphone for the DICENTIS Conference System or DICENTIS Wireless Conference System.
Order number **DCNM-MICL**

DICENTIS Battery Pack
Battery Pack for Wireless Device (DCNM-WD and DCNM-WDE), lithium-ion, 7.5 Vdc, 12800 mAh, color: Charcoal.
Order number **DCNM-WLIION**

DICENTIS Charger for 5 Batteries
Charger for charging up to 5 Battery Packs (DCNM-WLIION). Color traffic black: RAL 9017.
Order number **DCNM-WCH05**

DICENTIS Transport Case for 8 XD
Transport Case for storing and transporting 8 DICENTIS devices, 8 high directive microphones (DCNM-HDMIC), 8 short or long Stem Microphones (DCNM-MICS/L), and one Wireless Access Point (DCNM-WAP), if applicable.
Order number **DCNM-TCD**

Multimedia device
MIFARE Classic ID card with 1 kByte data storage, 2 application areas, one of which can be customized.
Packing information: 50 cards/ each unit
Order number **ACD-MFC-ISO**

ACD-EV1-ISO 50/each
Mifare DESFire EV1 ID card with 8 kByte data storage, 2 application areas, one of which can be customized.
Packing information: 50 cards/ each unit
Order number **ACD-EV1-ISO**

Software Options

DICENTIS Dual Use at Seat
DICENTIS software license for enabling dual-use at seat in the DICENTIS Discussion device, DICENTIS Discussion device with language selector, DICENTIS Discussion device with touchscreen, and DICENTIS wireless devices.
Order number **DCNM-LSDU**

DICENTIS Voting at Seat
DICENTIS software license for enabling voting at seat in the DICENTIS Multimedia, DICENTIS Discussion device with touchscreen, and DICENTIS wireless Extended. The DICENTIS Discussion device with voting has the functionality built-in.
Order number **DCNM-LSVT**

DICENTIS Identification at Seat
DICENTIS software license for enabling identification at seat in the DICENTIS Discussion device with voting, DICENTIS Discussion device with language selector, DICENTIS Discussion device with touchscreen, DICENTIS Multimedia device, and DICENTIS wireless Extended.
Order number **DCNM-LSID**