

# DICENTIS Wireless Devices

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The elegantly designed 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 the speaker during a meeting.

Both devices can be easily configured as a single-use, dual-use or chairperson Wireless Device via the web interface of the Wireless Access Point (DCNM-WAP). The DCNM-WDE Wireless Device Extended 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 interface.
- Audio mute button.
- Operates in the 2.4 GHz and 5 GHz (UNII1, 2 (extended) and 3) (license free) band.

### DCNM-WD

- Used for basic discussion.

### DCNM-WDE

The Wireless Device Extended, which enables extended discussion, has:

- ▶ 4.3 inch capacitive touch screen and built-in NFC reader for identifying users
- ▶ 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 interface
- ▶ Functionality can be expanded with software modules without the need for hardware modification

- 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 only:
  - Identification functionality.
  - Voting.
  - Camera control.

## Speech intelligibility

- Maximum speech intelligibility is guaranteed at all times.
- The Wireless Device connects to the DCNM-WAP.
- The Wireless Devices 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 the pluggable microphone (DCNM-HDMIC, DCNM-MICS or DCNM-MICL, all to be ordered separately).

### Headphones and loudspeakers

- The Wireless Devices accommodate two headphone connections and controls (on the left and right-hand side), so the speaker can be heard clearly even with 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 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

### Parts included

Quantity	Components
1	DCNM-WD or DCNM-WDE Wireless Device

### Technical specifications

#### Electrical

Supply voltage (battery pack)	7.5 Vdc
Power consumption	4 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	259 x 139 x 72 mm (10.2 X 5.5 x 2.8 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 °C to +45 °C (41 °F to +113 °F)
Storage temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Relative humidity	< 95 %, > 5%

**Ordering information****DICENTIS Wireless Device**

DICENTIS Wireless Device. Pluggable microphone and battery pack to be ordered separately.

Order number **DCNM-WD**

**DICENTIS Wireless Device Extended**

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****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 Transport Case for 8 Devices**

Transport Case for storing and transporting one Wireless Access Point (DCNM-WAP), 8 Wireless Devices (DCNM-WD and/or DCNM-WDE), 8 high directive microphones (DCNM-HDMIC), 8 short or long Stem Microphones (DCNM-MICS/L).

Order number **DCNM-TC**

**DCN multimedia High Directive Microphone**

DCN multimedia High Directive Microphone for the DICENTIS Wireless Devices and DCN multimedia devices.

Order number **DCNM-HDMIC**

**DCN multimedia Short Stem Microphone**

DCN multimedia Short Stem Microphone for the DICENTIS Wireless Devices and DCN multimedia device.

Order number **DCNM-MICS**

**DCN multimedia Long Stem Microphone**

DCN multimedia Long Stem Microphone for the DICENTIS Wireless Devices and DCN multimedia device.

Order number **DCNM-MICL**

**ACD-MFC-ISO 50/each**

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-MCF-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****DCN multimedia Voting at Seat**

The DCN multimedia Voting at Seat license extends DICENTIS Wireless Devices Extended and DCN multimedia devices with voting functionality.

Order number **DCNM-LSVT**

**DCN multimedia Identification at Seat**

The DCN multimedia Identification at Seat license extends a DICENTIS Wireless Device Extended or a DCN multimedia device with identification functionality.

Order number **DCNM-LSID**

**DCN multimedia Dual Use at Seat**

This license extends the DICENTIS Wireless Device with dual-use functionality. If the DCNM-LSID and/or DCNM-LSVT licenses are activated, two LSID and/or two DCNM-LSVT licenses are required for each dual-use Wireless Device.

Order number **DCNM-LSDU**

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