DCNM-WD Wireless discussion device

www.boschsecurity.com

BOSCH
Invented for life

▶ 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 Device (DCNM-WD) of the DICENTIS Wireless Conference System enables participants to speak, register a request-to-speak, and listen to a speaker during a meeting.
The device 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).

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).
- Dual use functionality by use of software module.

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:
  - 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	ISED
KR	KC
AU/NZ	RCM
RU/KZ/BY	EAC
JP	MIC
CN	China RoHS, CMIIT
SA	SASO, CITC
BR	ANATEL

Region	Regulatory compliance/quality marks	
Europe	CE	DECL EC DCNM-WD

Parts included

Quantity	Component
1	DCNM-WD Wireless Device

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)
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

Mechanical

Mounting	Tabletop
Dimensions (H x W x D) without microphone	72 x 259 x139 mm (2.8 x 10.2 x 5.5 in)
Weight: DCNM-WD DCNM-WD + Battery Pack	590 g (1.30 Lb) 1051 g (2.32 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

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

Accessories

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

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

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

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

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

DCNM-WTCD Transport case wireless sys, 10x DCNM-WD
Transport case for storing and transporting ten DICENTIS wireless discussion devices, ten high-directive microphones, ten short or long stem microphones, WAP, PSU, and two chargers.
Order number **DCNM-WTCD**

Software Options

DCNM-LSDU License for 2 seats per device
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**