

DICENTIS Wireless Access Point

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The Wireless Access Point (DCNM-WAP) is the central device of the DICENTIS Wireless Conference System. It links the Wireless Devices (DCNM-WD and DCNM-WDE) by means of a secure wireless WPA2 communication. Only a DCNM-WAP with built-in web interface is needed to setup, configure and control the DICENTIS Wireless Conference System. The Wireless Access Point attractive design enables it to be placed unobtrusively on a wall, ceiling, or tripod floor stand by using the included universal mounting bracket.

Functions

Easy to use

- Truly wireless, no need for an additional WiFi router for tablet control.
- Easy and intuitive web interface for system set up, configuration, control and licensing.
- Native support for camera control.
- Range test function to guarantee that all Wireless Devices are in range, independent of the selected WiFi frequency.
- Remote interfacing using API to control microphones and 3rd party camera systems.

Zero Interference

- Seamless automatic wireless frequency channel switching.

- ▶ Stand alone usage, no central control unit needed
- ▶ Based on standard WiFi according IEEE 802.11n
- ▶ WPA2 encryption for secure communication
- ▶ Seamless frequency switching in the 2.4 GHz and 5 GHz band
- ▶ Powering via power supply adapter, Power over Ethernet or DCN multimedia System Network Cable

- Operating in the 2.4 GHz and 5 GHz (UNII1, 2 (extended) and 3) (license free) band.
- Packet Loss Concealment to mask the effects of lost or discarded packets.

Standard WiFi

- Visibility in the IT infrastructure.
- Co-existence with other WiFi networks.

System cameras

- For giving a clear visual overview of the proceedings.
- Native support for a maximum of six HD Conference Domes with SDI connection can be connected to the system.

General

- Powering via either: Power supply adapter, Power over Ethernet (PoE) or DCN multimedia System Network Cable.
- Typical wireless coverage area range of 30 m x 30 m.
- Functionality is modular expandable via licensing.

Web interface

- The DCNM-WAP supports the following software functions which are available through the web interface (Some functions are not supported when a tablet device is used).

Configuration

- User management which gives the possibility to create several users with user specific access to functionality.

- Line input/output and routing settings.
- 5-band parametric equalizer.
- Camera control and HD-SDI switcher configuration.
- Wireless network SSID and WPA2 settings.
- Wired network host-name setting (DHCP and zero-config protocol based on Bonjour, fixed IP address is not supported).
- Upload of custom logo which is shown in DCCM-WDE Wireless Device Extended.
- GUI language setting.
- Factory default.
- Device subscription using standard WPS protocol.
- Seat naming including priority setting for the chairperson (Maximum up to 15 Wireless Devices can have priority).
- Dual-use setting (requires DCCM-LSDU per DCCM-WD/WDE).
- Camera preposition assignment to seats (Requires one DCCM-LCC per DCCM-WAP).
- Date and time settings. Automatically date and time synchronization through ntp server from the internet or supplied by the local DHCP server.
- Firmware upgrade of all devices and the DCCM-WAP using the wireless network (Not supported when using the web interface on a tablet).
- License activation (Not supported when using the web interface on a tablet).
- Logging with export functionality (Export is not supported when using the web interface on a tablet).

Preparation

- Discussion mode settings, open, override, voice and Push-To-Talk.
- Maximum 10 of open microphones.
- Participant names.
- Participant identification by use of NFC tags (requires DCCM-LSID per seat).
- Identification on assigned seat or at any seat.
- Range test to guaranty device coverage in case of channel switching.

Management and monitoring

- Add/remove participant/seat to the waiting and/or speaking list.
- Shift from waiting list to speaker list.
- Monitor of battery life time and signal strength per seat.
- Power off all Wireless Devices.
- Voting control with subject, answer set, and results presentation.

Web interface general

- System information.
- Supports multiple languages.

Controls and Indicators

- 2x 3 LEDs on the front side showing the status of the Wireless Access Point / system.
- Equalizer control.
- 3rd party control, API and voting.

Interconnections

- 1x Ethernet/PoE/DCN multimedia socket.
- 1x DC power supply adapter input socket.

- 2x 6.3 mm jack sockets for audio line input and audio line output external system connections.

External system connections

Additional facilities are provided for the connection of external system equipment. These facilities comprise:

- An application programming web interface for control of external equipment such as video cameras (via a SDI control matrix), video displays.
- One audio line (balanced) output for connection to a sound reinforcement system, audio mixers or to a voice logging system for audio registration of all spoken conference proceedings.
- One audio line (balanced) input to allow connection of audio sources.
- Use of a telephone coupler for connection to a remote participant or conference system.
- Insertion of an external sound processing device such as an additional graphic equalizer in the audio path of the wireless device loudspeakers.

Certifications and approvals

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

The system is WiFi Certified by the WiFi Alliance.

Installation/configuration notes



DCNM-WAP mounted on a LBC 1259/01 tripod floor stand

Parts included

Quantity	Components
1	DCNM-WAP Wireless Access Point

1	AC/DC power supply adapter. Including: AC plug-AU, AC plug-UK, AC plug-EU, AC plug-US
1	Mounting bracket
1	DVD with manuals and software
1	Safety instructions

Technical specifications

Electrical

Supply voltage (PSU)	100-240 Vac 50-60 Hz in 48 Vdc out
PoE	802.3af, 802.3at - type 1 mode A (endspan), mode B (midspan)
DCNM system supply	48 Vdc
Power consumption	10 W
Frequency response	80 Hz - 20 kHz
THD at nominal level	<0.1 %
Dynamic range	>98 dBA
Signal-to-noise ratio	>96 dBA
Ethernet	1000Base-T IEEE 802.3ab

Audio inputs

Jack nominal	-18 dBV
Jack maximum	+18 dBV

Audio outputs

Jack nominal	-18 dBV
Jack maximum	+20 dBV

Radio

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

Mechanical

Mounting	Ceiling, Wall or Tripod floor stand (using included bracket)
Dimensions (H x W x D) with bracket	285 x 202 x 65 mm (11.2 x 8.0 x 2.6 in)
Weight: with bracket without bracket	958 g (2.11 lb) 725 g (1.60 lb)
Color	Light grey (RAL 000 7500)

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 Access Point

Wireless Access Point, light grey color. Power supply adapter and universal mounting bracket included.
Order number **DCNM-WAP**

Accessories

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**

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 Charger for 5 Batteries (JP)

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

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**

LBC 1259/01 Universal Floorstand

Universal floor stand lightweight aluminum construction, foldable, M10 x 12 reducer flange.
Order number **LBC1259/01**

Software Options

DCN multimedia Camera Control

DCN multimedia Camera Control enables Bosch Onvif compliant cameras to be used in the DICENTIS and DCN multimedia system.

Order number **DCNM-LCC**

Represented by:

Americas:

Bosch Security Systems, Inc.
12000 Portland Avenue South
Burnsville MN 55337, USA
Phone: +1-800-392-3497
Fax: +1-800-955-6831
audiosupport@us.bosch.com
www.boschsecurity.com

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:

Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road
North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:

Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com