

# 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 DCNM-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 DCNM-LSDU per DCNM-WD/WDE).
- Camera preposition assignment to seats (Requires one DCNM-LCC per DCNM-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 DCNM-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 DCNM-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.

Region	Certification
Europe	CE

### 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**

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**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**

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