



**BOSCH**

Invented for life

# Inform. Impress. Inspire.

## DICENTIS Conference System



# Conference Systems by Bosch

For over 135 years, the Bosch name has been synonymous with innovation, quality and reliability. Building on true world-class expertise, Bosch Security Systems has led the conference market for over 70 years. How? By fulfilling customer needs with outstanding products, and the promise of continuing to do so for many years to come.



 highest performance	 future-proof	 secure	 flexible	 cost-effective
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The market for conference solutions has changed rapidly in recent years, with a trend away from standalone systems towards fully integrated solutions. In these integrated solutions, information such as audio, video, social media and meeting data is shared over standardized infrastructure and interfaces.

This in turn has created higher demands on flexibility in system design and the ability for remote interaction which is required in hybrid meetings. These trends highlight the need to maximize meeting efficiency and increase ease of integration with third parties.

Bosch is committed to deliver the most innovative conference platform to fulfill current and future market needs, being able to fully integrate hybrid meeting solutions. This is why Bosch introduced its IP-based product family: DICENTIS. DICENTIS is a revolutionary platform for the integrated conference world of tomorrow.

The DICENTIS conference solution is ideal for a wide variety of uses, from small-sized organizations to multinational corporations, as well as local to national governments and international summits.



Today, more is required from a conference system. It must support video, social media, remote interaction and expandability.





**OMNEO**  

## The system that grows with your needs

### Inform. Impress. Inspire.

- ▶ Open platform based on the OMNEO media networking architecture for system flexibility and cost-effective installation and maintenance
- ▶ Easy integration with supporting systems to provide features such as automatic camera control
- ▶ License-based expandability for a future-proof system that can easily take on new functionality
- ▶ Optimized user experience to maximize meeting efficiency
- ▶ Simultaneous interpretation of up to 100 languages
- ▶ Cable and power supply redundancy to ensure meetings are held without system interruption

#### Future-proof via system flexibility

No matter how your organization changes, your DICENTIS Conference System will adapt to answer your evolving needs. That's because DICENTIS is built on open standards, fully supporting the integration of many third party solutions like hybrid meetings. For example:

- ▶ Ethernet and IP are used so existing infrastructures can be reused
- ▶ OMNEO is used so DICENTIS can connect to other audio and control equipment
- ▶ Android™ in the DICENTIS Multimedia device enables the use of custom Android™ applications

#### Cost-effective

At its heart, the DICENTIS Conference System makes use of the unique IP-based OMNEO media networking architecture, developed by Bosch, and operates over fully standardized Ethernet networks. This ensures flexibility and cost-effective installation and maintenance. It also makes

DICENTIS ideal for re-using existing infrastructure. Conference devices can be connected with a looped daisy chain configuration using Bosch powering switches and Bosch system network cables. This provides a time-saving, flexible solution. Alternatively, CAT5e (or better) cables and standard Power over Ethernet (PoE) switches enable star configurations.

#### What is OMNEO?

OMNEO is an architectural approach to connecting devices that need to exchange information such as audio content or device control. Built upon multiple technologies, including IP and open public standards, OMNEO supports the technologies of today - such as Audinate's Dante™ - while adopting the standards of tomorrow. OMNEO offers a professional-grade media networking solution that provides interoperability, unique features for easier installation, better performance, and greater scalability than any other IP offering on the market.



DICENTIS is built on open standards enabling the integration of many different technologies, even third party solutions.

### Configured to your needs

Each organization that uses a conference system has its own unique set of requirements, that's why the DICENTIS Conference System offers a wide choice of functions. Take a look at the table below to see what kind of system solution you could take advantage of.

Functions	DICENTIS Multimedia device	DICENTIS Discussion Range				DICENTIS Flush range
		device with touchscreen	device with language selector	device with voting	discuss-only device	
Delegate configuration	✓	✓	✓	✓	✓	✓
Chairperson configuration	✓	✓	✓	✓	✓	✓
Discussion	🗨️	🗨️	🗨️	🗨️	🗨️	🗨️
Language selection	🗨️🌐	🗨️🌐	🗨️🌐			🗨️🌐
Voting	🗳️	🗳️		🗳️		
NFC identification	📄	📄	📄	📄		
Dual use		🗨️📄	🗨️🗳️	🗨️📄	🗨️	🗨️🗳️
Automatic camera control	📹	📹	📹	📹	📹	📹
Multimedia	📄🌐📺					

- Automatic camera control is a system feature. The DICENTIS system supports multiple IP camera control protocols (e.g. ONVIF), simplifying the integration of automatic camera control.
- The multimedia functions of the DICENTIS Multimedia device are document viewing, internet access, presentation viewing, live video and the use of third party Android™ apps.

## The system that always delivers

### Highly reliable and secure

Inherent cable and power supply redundancy built into the DICENTIS Conference System, ensures no data is lost in the rare event of system failure. In addition, all audio and control data running through the system is securely encrypted by proven industry technologies, satisfying the most stringent and internationally recognized standards. This protects data against tampering and unauthorized access – extremely important in highly-secure or sensitive meeting situations.

### Latest functionality - always

With regular software updates, the DICENTIS Conference System easily expands to incorporate newly-developed functionality - without the need for expensive hardware replacements. This includes the licensed system and seat software but also additional system features via third-party Android™ apps. Bosch offers a Software maintenance agreement (SMA) to help customers maintain their system. This service keeps the entire DICENTIS Conference System operating seamlessly across the platform and servers. It includes software and compatibility plug-ins for the system as well as a variety of Internet-based applications.

### Automatic camera control

The DICENTIS system supports multiple IP camera control protocols (e.g. ONVIF), simplifying the integration of automatic camera control. ONVIF is the market's leading, global standard for networked video, and it ensures that conference participants always see the person speaking on the hall display. In addition, DICENTIS also supports Sony and Panasonic cameras with CGI protocols.

### Environmentally friendly

DICENTIS is designed to have minimal impact on the environment. For this reason, the system can be switched to stand-by mode. This patent-pending feature allows the chairperson to power off all the participant devices at once, significantly reducing power consumption and saving energy between meetings and during breaks.

The **new standard in conferencing** that does it all: discussion management, language selection, voting, multimedia functions, live video feed, dual use, internet access, document viewing, third party apps and more.



**Icon legenda**

- 🗨️ Discussion
- 🗨️🗨️ Dual discussion
- 📄 Identification
- 📄📄 Dual identification
- 🗳️ Voting
- 🗳️🗳️ Dual voting
- 🗨️🌐 Language selection
- 🗨️🌐🗨️ Dual language selection
- 📄👤 Participant list control
- 📺 Live video feed
- 📱 Third party apps
- 📄 Document viewing
- 🌐 Internet access
- 📺 Presentation viewing



## Unique conference devices with industry-leading features

### Focus on the discussion at hand

- ▶ Table-top and flush-mounted devices can be seamlessly combined within one installation.
- ▶ High directive, long and short stem microphones and intelligent Acoustic Feedback Suppression ensure crystal clear speech reproduction
- ▶ Loudspeaker and microphone can be active simultaneously to provide excellent speech intelligibility
- ▶ Optimal ergonomic design
- ▶ Advanced discussion functionalities, such as the “Possible to speak” indicator, to immediately engage in the discussion when the function is available

#### Clear, natural sound

All DICENTIS conference devices use intelligent Acoustic Feedback Suppression which is unique to Bosch, maximizing intelligibility when higher volume levels are required. This technology helps to avoid echoes and howling, resulting in clear speech intelligibility.

In addition, the microphone and loudspeaker are active at the same time, providing a natural sound. At all times, the participants and chairperson can listen to the meeting comfortably and focus on the discussion at hand.



#### Pluggable microphones

Three pluggable microphones can be used with any DICENTIS table-top conference device: Long Stem, Short Stem and the High directive microphones. The High directive microphone employs high directive Bosch technology, allowing for crystal-clear reproduction of the spoken word, while the discrete design helps the speaker to convey their message in a natural way.

For acoustically challenging locations, or for when people want to speak standing upright from a rostrum, the uni-directional Microphone with long or short stem is the best solution.

#### When table space is limited

For permanent installations where table space is limited, the DICENTIS Flush range is the perfect solution. Due to the modular design, the affordable range can easily cover different type of gatherings and meetings and offer a high level of functionality, installation convenience and distinctive styling.

#### Encouraging clarity

Design plays a key role in how people interact and it is central to creating an environment that encourages constructive dialogue. That's why Bosch has committed substantial resources to the research and development of the physical design of the DICENTIS conference devices. The result? Superior ergonomics, excellent ease of use, and a stylish yet unobtrusive appearance.

#### Keeping the meeting on track

The DICENTIS system is designed to optimize meeting structure and efficiency. Basic discussion settings can be defined for whichever DICENTIS conference device is being used. The meeting can be managed by an operator or chairperson, who can open or close a meeting, open voting rounds and decide which participant can speak and how many people can speak at the same time. The chairperson can also use the priority button to override all participant microphones whenever necessary.

#### Most straightforward use for all participants

All the DICENTIS conference devices enable participants to discuss, register a request-to-speak and listen to those speaking during the meeting. When the “Possible-to-speak” function is active, participants can start talking as soon as they press the button.

Any conference device can be configured by software as either a participant or chairperson device, this minimizes the amount of necessary hardware and maximizes cost-efficiency.



## DICENTIS Multimedia device

- ▶ User-friendly 7-inch high capacitive touchscreen to enhance the conference experience
- ▶ State-of-the-art award winning design
- ▶ Integrated Near Field Communication (NFC) Card Reader for quick participant identification and voting – participants can even use an existing registration card
- ▶ Two-way speaker system that offers outstanding intelligibility and sound quality
- ▶ Live video of the participant speaking can be followed on the device screens
- ▶ Internet access and document browsing to ensure that shared information is always up-to-date and that last minute corrections can be made on the spot

### Inspiring interaction

The DICENTIS Multimedia device's intuitive graphic user interface and easy to operate touchscreen enhances participant interaction and user comfort. Participants can follow the discussion in their own language, when simultaneous interpretation is provided. The touchscreen multimedia device integrates audio,

video, meeting data, internet access and a highly convenient electronic voting facility. All this enables participants to contribute more efficiently in meetings by having access to related information or the internet on their individual touchscreens, while the chairperson remains in full control.



You can follow the conference easily and speak in a natural way. All the information you need is at your fingertips.



### Attractive interface

DICENTIS Multimedia devices make use of the familiar Android™ operating system to provide an attractive and engaging interface. It also allows the use of custom-made or third-party apps to further increase meeting efficiency and for example the integration of room control.

### Award-winning design

The stylish internet-enabled DICENTIS Multimedia device is elegant, ergonomic and complements any interior. The multimedia device has already won several prestigious awards, including a Red Dot design award in 2014 and the German design award in 2015.

### Hear every word, every syllable

Extraordinary sound quality and intelligibility emits from the DICENTIS Multimedia device. Whether the source material is music or the spoken word. The special acoustic design with integrated two-way speaker systems reproduces the audio spectrum precisely. Bosch-engineered technologies further contribute to a more natural sound. Advanced equalization optimizes the acoustics throughout the room, while intelligent Acoustic Feedback Suppression technology from Bosch maximizes intelligibility when higher volume levels are required.

### See every expression

The DICENTIS system supports multiple IP camera control protocols (e.g. ONVIF), simplifying the integration of automatic camera control. This enables participants to see the face of the speaker on their own screen.

### Who's who

A name card holder with magnetic attachments on the rear of the device makes it easy for delegates to identify who is talking. A very practical option if the delegates did not get acquainted before the meeting.



reddot award 2014 winner



German Design Award WINNER 2015

## DICENTIS Discussion range from discuss-only to fully-featured touchscreen devices

- ▶ Four different wired models accommodating a wide range of meeting needs
- ▶ Award winning, stylish designs equipped with advanced audio technology, cable redundancy and data encryption to continue the Bosch tradition of acoustic excellence, system reliability and security
- ▶ A choice of three pluggable microphones can be used with any discussion device: long stem, short stem or high directive microphone



reddot award 2015 winner



The DICENTIS Discussion device with touchscreen offers an intuitive and clear conference experience, whether a device is being used by one or two participants.



The DICENTIS Discussion device with touchscreen also has a built-in NFC Card Reader for quick participant identification. The delegate places an existing registration card in the vicinity of the device to identify to the system.



### Speaking is only half of it

The DICENTIS Discussion device with 4.3 inch touchscreen delivers many conference functions including dual use, language selection and voting. Fast participant recognition is possible by means of an NFC (Near Field Communication) identification card. The device's touchscreen guides the participants through the meeting, allowing them to easily

identify each speaker and to view the speaker request list. The screen also provides easy access to translations and voting information and allows two delegates to share a device but vote separately and listen to proceedings in two different languages.



On the screen of the DICENTIS Discussion device with language selector, different languages are presented in native characters so that the delegate can easily find and select his language and focus on the meeting.



Like all other DICENTIS devices, this device possesses the "possible to speak" function, providing clear indication to the delegate on when he or she can speak.

Experience premium acoustic design and audio processing with high quality Bosch speakers

The DICENTIS Discussion device supports structured discussion, allowing participants to raise their hand by pushing the discuss button and be placed in a discussion queue. Moreover, the dual use function allows two participants to share a single device, ensuring maximum efficiency and reduced cost.



Integrated Near Field Communication (NFC) Card Reader for quick participant identification and automatic headphone language selection

Good readability of native characters and symbols on the selector screen makes it easy for the delegate to select their language



**Quick and simple language selection**

The discussion device with language selector allows participants to listen to speakers in their own language. Selecting a language is easy and straightforward; simply plugging the headphone into the device will automatically activate the device's language selection functionality. The delegate then scrolls through the list of available languages via the touch buttons on the device.

It also supports dual use and fast participant recognition thanks to its NFC identification function.

**Voting at the press of a button**

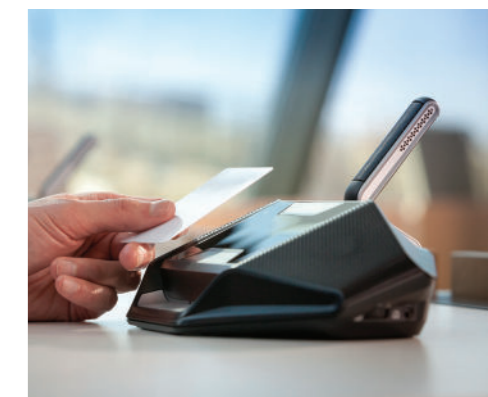
The discussion device with voting incorporates standard parliamentary-style voting facilities with touch buttons that only light up when the functionality is required. Voting access can be easily controlled via the device's NFC identification function.



Integrated Near Field Communication (NFC) Card Reader for quick participant identification and voting

Colored voting buttons only light up when the chairperson opens the voting process, allowing participants to stay focused.

With "Secret Voting" on the DICENTIS Discussion device with voting, non-influenced voting results are guaranteed. In this setting, the voting LEDs will be rendered invisible the instant the delegate has cast their vote.





## DICENTIS Flush range for permanent installations

- ▶ Attractive, modular flush-mounted design allows flexible configuration
- ▶ Easy replacement without major rework, DICENTIS Flush shares the same installation footprint as DCN Flush
- ▶ Extremely cost-efficient with four delegate positions in dual discussion setup.

### Easy, cost-effective installation

DICENTIS Flush incorporates the OMNEO\* media networking architecture, which enables cost-effective installations by using existing IP infrastructure. Its modular design allows future additions as needed. In combination with a single base device in dual-seat setup, DICENTIS Flush supports up to four delegate positions when two microphones are shared.

All modules have a click-to-fit mechanism for easy flush-mounting into metal or wood surfaces such as tabletops or seat armrests. For additional convenience, the DICENTIS Flush range share a similar installation footprint as DCN Flush devices from Bosch for easy replacement.

### Easy integration

DICENTIS Flush can be seamlessly combined with other DICENTIS tabletop devices, or with the DICENTIS interpreter desk as a fully ISO-compliant interpretation solution.

The sleek form factor and black finish complements any interior, making it suitable for both modern and historic conference locations.

### Enhanced user experience

The intuitive design of the modules contributes to an improved, more natural discussion atmosphere. Participants can choose their preferred language, listen to a speech and/or address the delegates. All deployed modules combine into one functional, straightforward device that offers best-in-class audio quality and speech intelligibility.



The modular design empowers the specifier and/or installer to tailor the system to the required meeting type.

Offering installation convenience in a distinctive stylish design, DICENTIS Flush is ideal for use in governmental, non-governmental or intergovernmental organizations, as well as for conference applications in commercial buildings and financial institutions.



## Accommodating future interpretation needs with up to 100 languages

- ▶ Intuitive simultaneous interpretation solution with all system components – interpreter desk, flush language selector and all participant devices – seamlessly integrated
- ▶ Flexible configuration making it possible to increase the participant capacity by passive room coupling
- ▶ Flexibility and cost-effective installation and maintenance due to OMNEO IP based technology

### Parliaments and international conventions

Participating in or running a meeting where delegates represent different languages and cultures is always a challenge. DICENTIS is specifically created to enhance the meeting management for all multi-lingual meetings where simultaneous interpretation is required, making it an ideal choice for parliaments and international conventions and events.

All DICENTIS devices can be easily combined in one solution. Active conference participants can use the Discussion device with language selector, the Discussion device with touchscreen, or the Multimedia device to select their preferred language. Passive listeners can follow meeting proceedings on the Flush language selector in the language of their choice. Up to

100 interpreter-provided languages are supported, streamed from the DICENTIS Interpreter desk via an IP network to the DICENTIS Conference devices.

### Flexible configuration

Today, international convention centers need more flexibility. The number of participants differ for each hosted event. Sometimes, more capacity is needed and meeting room accommodations need to be increased. That's why the DICENTIS Conference system can easily be configured and reconfigured to increase the number of participants who can listen to the proceedings with passive-room coupling. Quite simply, the DICENTIS Conference system suits everyone's needs at all times.



## DICENTIS Interpreter desk

### Speaking your language

Speaking the language of the interpreter, that's what it is all about. By observing and interviewing expert interpreters and technicians worldwide, the design of the desk is optimized for the real-life needs of interpreters. The result? An ergonomic interpreter desk that complies with the latest as well as future market requirements and that provides the interpreter maximum freedom to focus on the job. The vertical Graphical User Interface on the passive high-contrast screen

logically divides the sections for input and output languages in two columns. A simplified DICENTIS Interpreter desk interface, showing only the used functions, can be configured for less experienced users. During the entire interpreting process, only relevant information is displayed and unused features can be hidden. This means that the interpreter can observe the speaker's non-verbal communication to provide the best possible interpretation.

Short stem microphone provides maximum speech intelligibility and is ideal for the interpreter desk

HDMI video output makes easy connection with third party external screen possible so interpreters can see the current speaker or presentation.

Tactile buttons and knobs for better control enable operation without even looking at the interpreter desk

Compliant to latest simultaneous interpreting standard ISO-20109

Optional audible feedback to guarantee easy operation, especially for visually impaired interpreters

Intuitive operation based on logically divided language input and output sections, high-contrast screen and the use of personal presets

Three assignable buttons provide the interpreter with short key functions for quick and easy access to supporting functions such as "speak slow", "replay", "video select", etc.

An integrated NFC card reader enables the interpreter to quickly access his/her personal settings





### Easy installation and third party integration

The DICENTIS Conference System is a networked solution using state-of-the art OMNEO IP technology, this means that existing network infrastructure and third party solutions (such as Dante™ audio) can be used and multiple video feeds can be distributed to the interpreters without extra cabling for video. Showing the facial expression of the speaker on one screen and at the same time displaying the meeting presentation on 2nd screen, can help interpreters to provide a more accurate interpretation. A third party external screen can be connected to the HDMI video output on the DICENTIS Interpreter desk.

### Safe and secure

The Internationally recognized encryption standards that DICENTIS uses for all audio and data are also applied for interpreting. For highly sensitive meetings, this encryption offers the best protection against eavesdropping, unauthorized access and data tampering.

### Future-proof

The DICENTIS Interpreter desk complies with ISO-20109, enforcing high quality and uniformity for interpreting equipment so interpreters know what to expect.



## DICENTIS Flush language selector

### The Joy of understanding

The DICENTIS Flush language selector is an intuitive device that serves passive listeners such as meeting delegates or journalists. Finished in black, the Flush language selector has a sleek form factor that will complement any interior, making it ideal for both modern and historic conference locations. An invisible mounting system adds to its aesthetic refinement. It shares the same installation footprint and layout as the renowned DCN Flush range from Bosch, allowing it to easily replace the DCN-FCS Flush channel selector without any further rework of the conference location. Additional design features utilize the latest technology to ensure a positive user experience. Touch buttons add to the streamlined look and feel of the device. The

language selection functionality - with language ISO abbreviations or descriptions in native characters - is only visible when a headphone is connected and when interpretation languages are available. The bright screen automatically switches off seconds after use.

### Flush integration (and configuration)

The new language selector integrates seamlessly with the DICENTIS Conference System platform, which is based on the powerful OMNEO\* media networking architecture. Once connected, it automatically adopts the DICENTIS interpretation settings, ensuring efficient routing of the selected language. This is achieved instantly and requires no extra configuration or system restart.

Language descriptions in native characters and automatic language output settings make the device easy to understand and use

Sleek flush-mount design with invisible mounting system



Automatically adopts the DICENTIS interpretation settings, ensuring efficient routing of the selected language

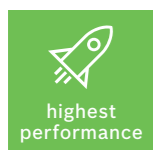
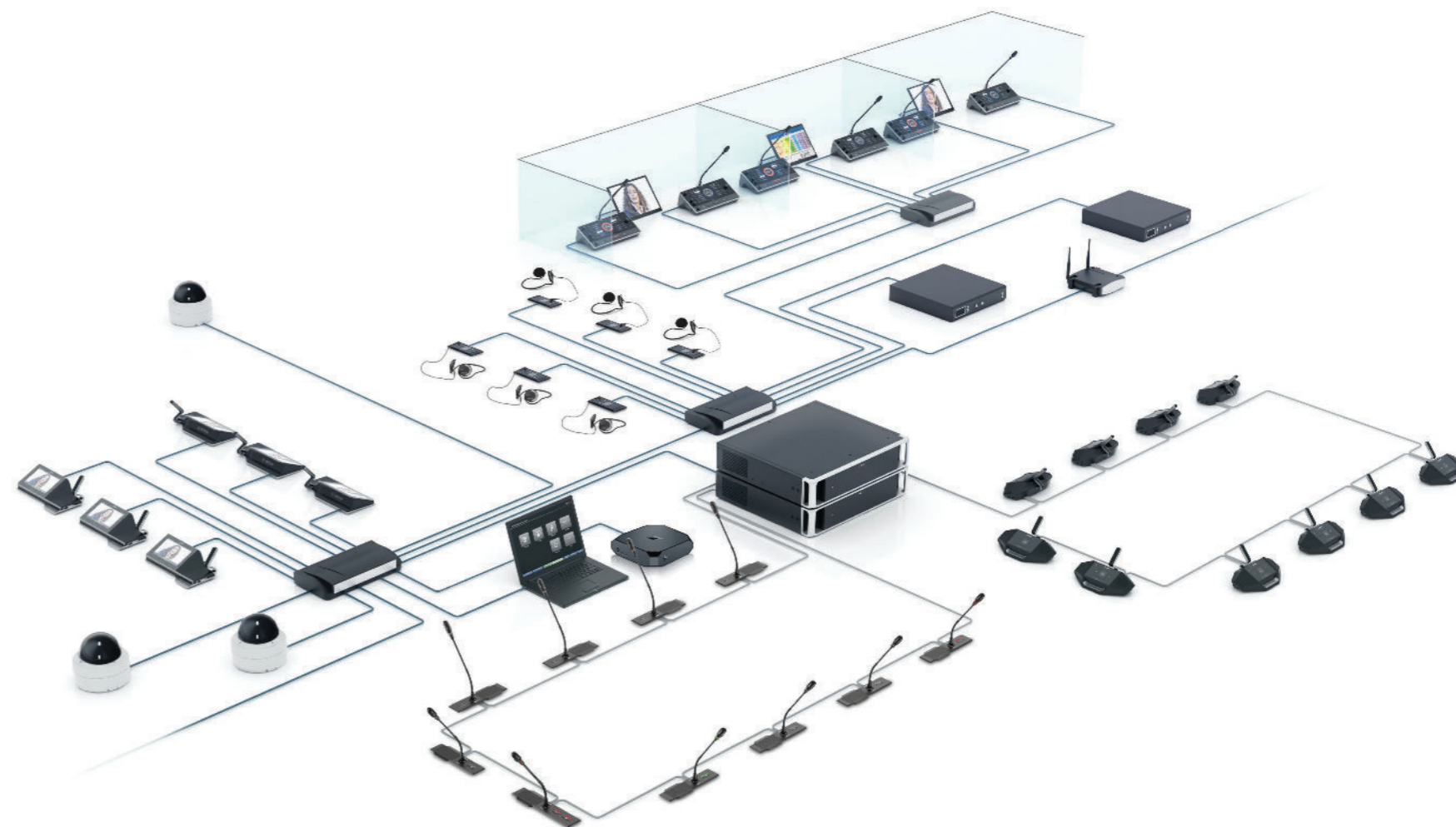
Shares the same installation footprint and layout as the renowned DCN-FCS Flush channel selector



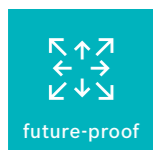
reddot winner 2020

# Why choose the IP-based DICENTIS Conference System?

The DICENTIS Conference System is the revolutionary IP-based platform for the integrated conference world of tomorrow. With an IP- and server-based architecture, it is built on open standards to ensure a high degree of flexibility, the most cost-efficient installation and maintenance and the ability for third-party integration. The system harnesses the most powerful security protection on the market to safeguard sensitive data throughout the conference chain.



Uncompressed digital audio for all system components results in **superior, latency-free audio** for up to 100 languages



**Standardized IP technology** and software-based ecosystem assure a reliable, scalable and future-proof conference solution



**Internationally recognized encryption and open standard security technology** assures the best protection against eavesdropping, unauthorized access and data tampering



**Tailored to your needs** – small or large, standalone or integrated with complementary solutions, all supporting the system configuration of your choice



Leverages standard IT infrastructure, server space, existing IT knowledge and allows for **remote maintenance possibilities to reduce costs**



**Bosch Security Systems**

To learn more about the Bosch  
product offering, please visit  
[www.boschsecurity.com](http://www.boschsecurity.com)

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