

# MCS-DIGITAL DIGITAL WIRED CONFERENCE SYSTEM

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CONFERENCE  
TECHNOLOGY

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MADE IN GERMANY





Letters, emails, SMS, telephone, video chat – never before have there been so many means of communication at our disposal. However, none of them can compare to talking one-on-one. A holistic exchange of ideas is only possible face-to-face as it is only in this way that words, gestures, emphasis,

tone of voice and expression can merge together to create the overall picture. A picture that reveals clearly comprehensible opinions and points of view. Direct dialogue is and will remain the most immediate form of communication – be it in a small circle or in a large group.

# THE POWER OF DIALOGUE

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## Make yourself better heard

**Conversation takes centre stage with the fully digital, wired MCS-Digital conference system. All speakers and participants can concentrate on the most important thing – the dialogue. beyerdynamic's most cutting-edge conference technology for microphone units ensures optimal communication with impressive sound quality. Whether it's for meetings, conferences, sessions, talks or even highly sophisticated parliamentary set-ups, the open system architecture means that a broad variety of applications can be implemented.**

The MCS-Digital conference system meets the most varied and individual requirements with maximum flexibility. Ranging from functions such as foreign language communication, camera control, voting or monitoring via a control unit, to customer-specific microphone unit solutions and special configurations – the MCS-Digital offers all of this for up to 1,000 microphone units.

Regardless of their configuration, all MCS-Digital conference systems have something in common – their understated, user-friendly and functional design ensures optimum communication and perfect sound quality.

# REVOLUTO TECHNOLOGY



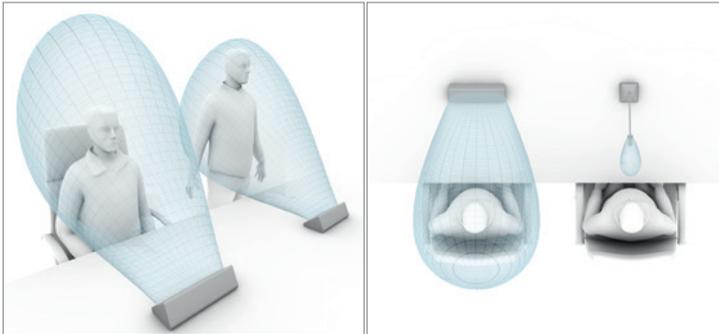
## Moor room for content

**The MCS-Digital conference system affords maximum use of the space at hand, even for large conferences. Whether sitting or standing, gesticulating or leaning back relaxed in a chair, looking at notes or at the group – thanks to the patented Revulto technology, speakers can be clearly seen and heard at all times.**

Instead of using a classic gooseneck microphone, the Revulto microphone units are manufactured with an array of microphone capsules which create a so-called corridor characteristic. What's more, they possess a correspondingly large and open voice range. This means that there is no need to stay close to, or maintain a certain distance from, the microphone to ensure clear communication as optimal speech quality and virtually consistent volume are a matter of course.

Revulto technology makes MCS-Digital a conference system synonymous with perfect voice transmission and as such, provides the greatest possible scope for facial expression and gestures.





Optimal voice range courtesy of patented microphone array technology

**TIP**

You will find a video with a detailed explanation of Revoluto technology at [www.beyerdynamic.com/revoluto](http://www.beyerdynamic.com/revoluto)

### The Revoluto principle

**Thanks to the Revoluto principle, the microphone units of the MCS-Digital conference system provide an exceptionally large voice range and superior voice quality.**

The Revoluto principle is based on the patented microphone array technology whereby several microphone capsules are intelligently interconnected. This creates a corridor effect making it considerably more convenient than a gooseneck microphone as it provides a larger voice range and allows the speaker to direct his / her speech in various directions.

Moreover, as it comes without a gooseneck, inconvenient adjustment is avoided and the speaker's line of vision and freedom of movement remain unimpeded. What's more, the low-profile design with its concealed microphone makes the room appear spacious and clearly laid-out.



# FUNCTIONALITY AT ITS BEST



Desktop microphone units with Revolutio technology

**Although the Revolutio microphone units within the MCS-Digital conference system appear discreet in a conference room environment, their outstanding sound quality and their wide range of functions are, by way of contrast, all the more striking.**

Thanks to the Revolutio microphone array technology the microphone units more than hold their own without gooseneck microphones. The advantage: a microphone without a gooseneck means visibility is not

obstructed and all participants have more freedom to move around. An LED light on the microphone button and two LED strips on either side signal the microphone's ready-to-talk status.



Desktop microphone units with gooseneck microphones

**The tried and tested gooseneck microphone units offer an equally wide range of functions as those with Revoluto technology.**

The folding, flexible gooseneck microphone has an LED ring which indicates the ready-to-talk status of the microphone. The microphone itself features a cardioid polar pattern which ensures optimal recording quality. Both types of microphone units are available in a selection of models with various features.



# DETAILS THAT WILL WIN YOU OVER

It's the little things that make the big things possible. The MCS-Digital conference system microphone units boast many such individual elements.

Sophisticated details ensure maximum flexibility and functional versatility. In other words, quality – “Made in Germany” – with functionality that leaves no room for doubt.



The two-way speaker system is designed for language to ensure optimal communication.



The five voting buttons allow for an easy and fast voting procedure.



At multi-lingual conferences the individual interpreting channels can be selected directly at the touch of a button.



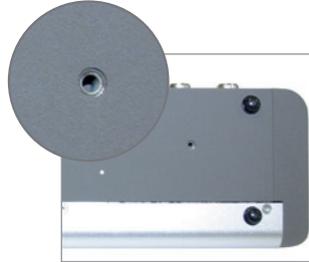
The high-quality and anechoic Nextel® surface is also available in various colours on request.



Foreign language output is transmitted via a rear standard 3.5 mm headphone connection.



The ID card reader automatically recognises user names which are then displayed by the software.



If required microphone units can be fixed to tables to stop them from moving around.



All microphone units have a microphone button displaying their status.



Chairman microphone units have additional "clear" and "priority" buttons to facilitate the running of the conference.



The keypad and display of every microphone unit is designed with intuitive operation in mind.



Aluminium housings provide the German made microphone units with a solid structure.



The high-quality pushpull circuit connectors guarantee trouble-free connections and lasting quality.



A port on the rear of the panel is ideal for mobile microphone units and rental purposes.



The port located on the base of the station enables fixed installation without visible cabling.

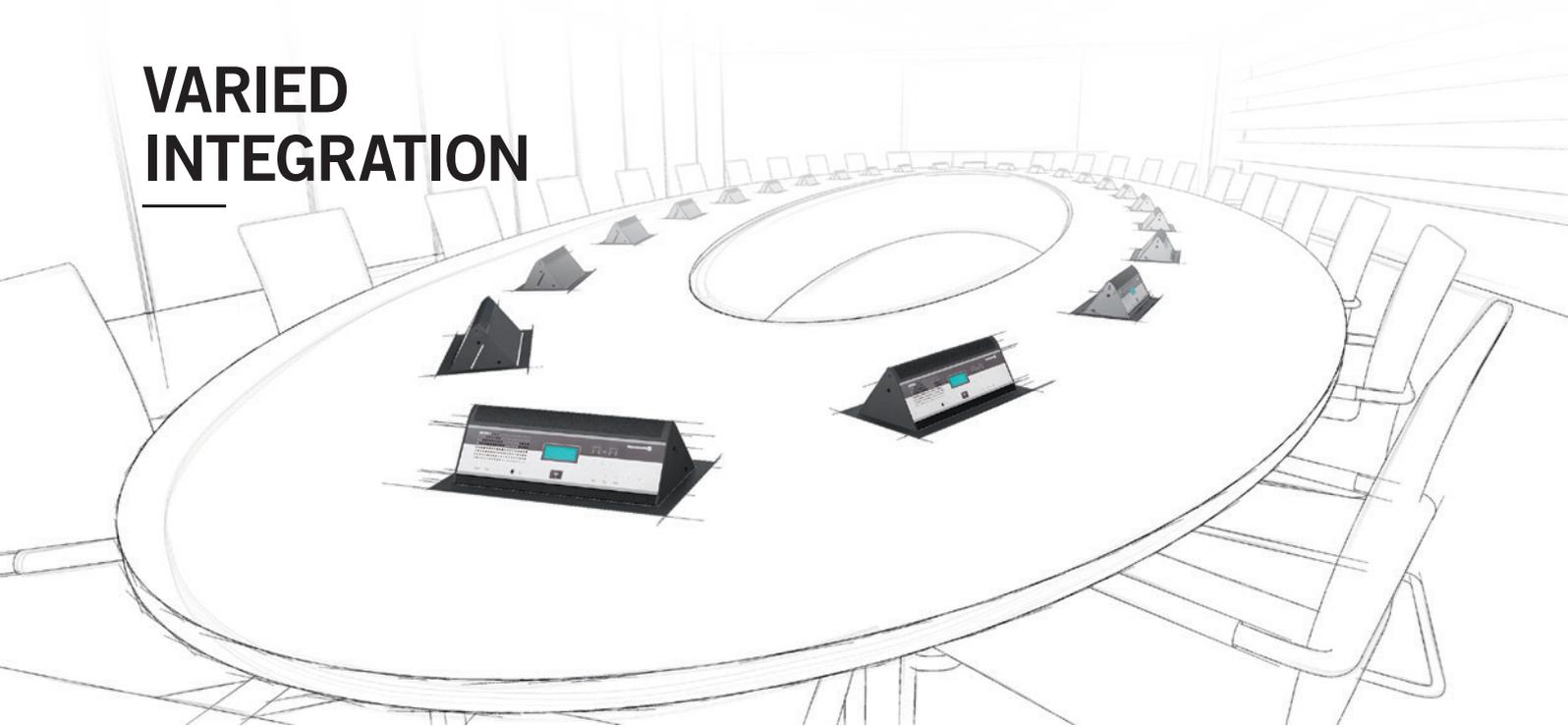


Individually adjustable gooseneck.



Practical folding mechanism.

# VARIED INTEGRATION



Functionality via variable installation solutions

**The built-in microphone units with Revolto technology provide maximum flexibility. They can be folded out when required; otherwise they are discretely stowed away in the table.**

On request, the visible parts can be produced in a specific colour to suit their particular surroundings, or provided with a suitable veneer from a furniture manufacturer.

The Nextel® surface of the microphone units underscores the high-quality look and feel of the conference system and is also available in various colours. All of which allows the MCS-Digital conference system to be individually, functionally and elegantly integrated to suit all requirements.



Customised

**Discrete installation solutions also offer a wealth of possibilities whereby only microphones and control panels are visible – whether separately or as part of a combined control panel with speaker and microphone.**

The microphone units' technology is integrated into the furniture so that it remains hidden. This remote mounting of a MCS-Digital system offers even more possibilities for individual installation.

Depending on the intended application, there are various integrated operating elements available – for example, interpreter channel selection or a voting pad. A wide range of further customised solutions are also available.



An example of a control panel



Table-top fixture with gooseneck microphone or Revoluto microphone.



Individual installation solution with piano finish.



Vertical mounting makes it possible to integrate the technology into armrests, e.g. for parliamentary seating in a hall (without control panel).

# DIVERSE POSSIBILITIES

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The advantages of unlimited flexibility

**Not only do the microphone units lend themselves to almost unlimited possibilities, but the system itself is also extremely flexible in terms of configuration.**

The NetRateBus, which connects all the individual components, is designed for up to 54 multi-functional audio channels. All manner of configurations can be realised due to the fact that all audio channels can

be distributed as required – from discussions between individual microphone units to connecting external participants via telephone conferencing.

Perfect combination

Thanks to the multi-session function, several rooms can be operated via one control unit. The flexible assignment of up to 54 audio channels makes it possible to bring together different conference rooms. It also provides the option of feeding in not only video signals but also audio signals from interpreters and much more besides.



Flexible room layout thanks to multi-session

International conferences

For multi-lingual conferences the interpreting stations can be linked to a designated station in the system. Interpreting stations for up to 50 target languages can be employed. For more information on beyerdynamic interpreting technology please visit [www.beyerdynamic.com/interpreter](http://www.beyerdynamic.com/interpreter)



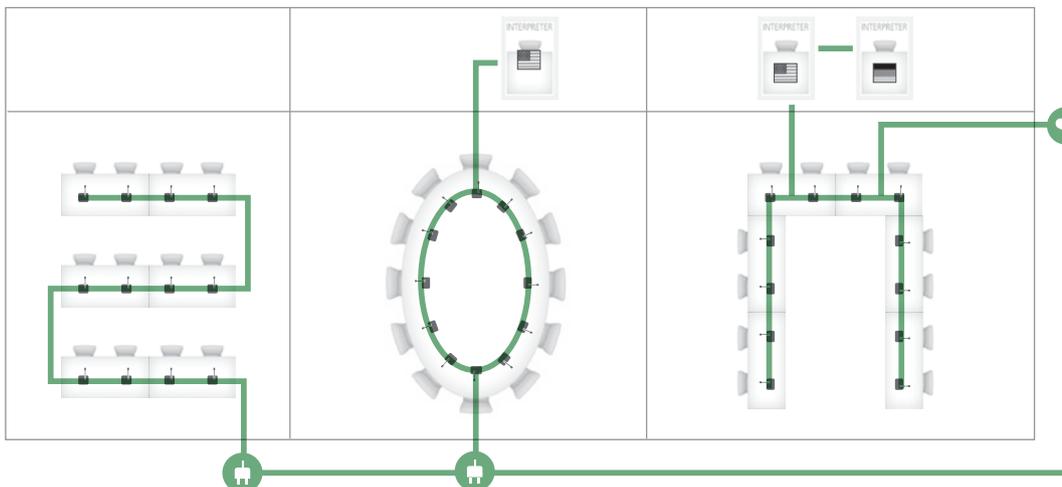
**TIP**

A fibre-optic cable converter from NetRateBus is available with the digital Optolink. This allows the connection of cross-building installations up to a distance of 2 km.

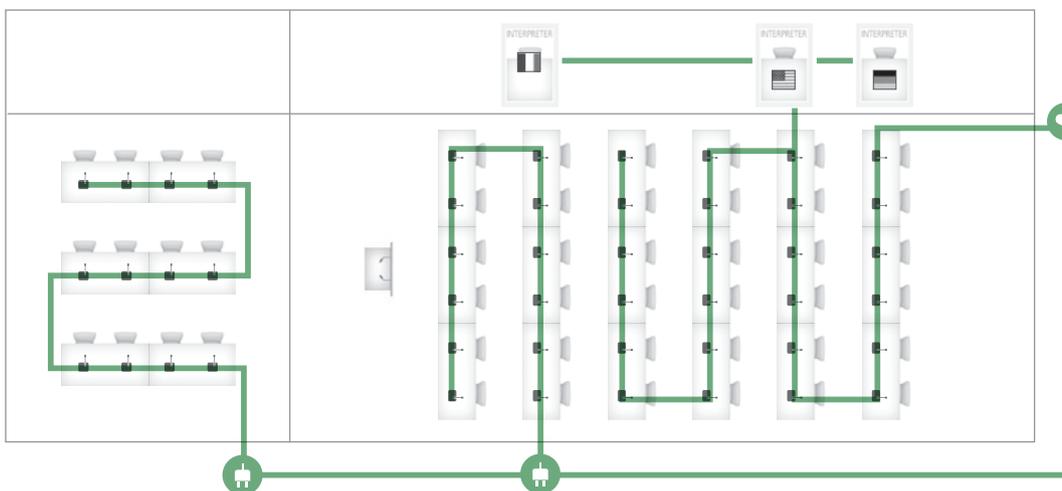


**Flexible positioning**

The built-in adaptability of the system means it can be altered to accommodate specific requirements quickly and easily. Several conferences can be run in parallel via one control unit or alternatively, several rooms can be connected to one conference.



One control unit can administrate three independent conferences.



Several rooms can be connected to a conference and the audio channels reassigned.

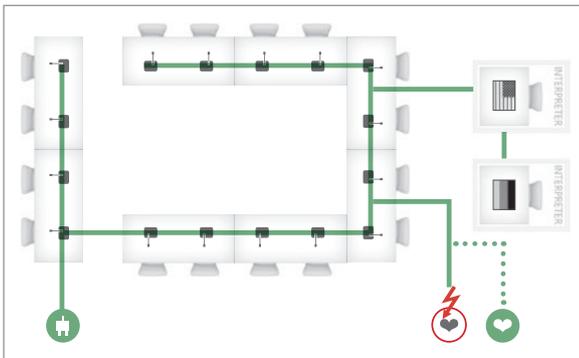


# ALWAYS SECURELY CONNECTED

All MCS-Digital conference system components, including their set-up, are developed with maximum functionality and the highest levels of security in mind. This applies from individual microphone units and control units through to additional components such as interpreter modules, combined systems and suitable conference and recording software for the operating computer (steno-s).

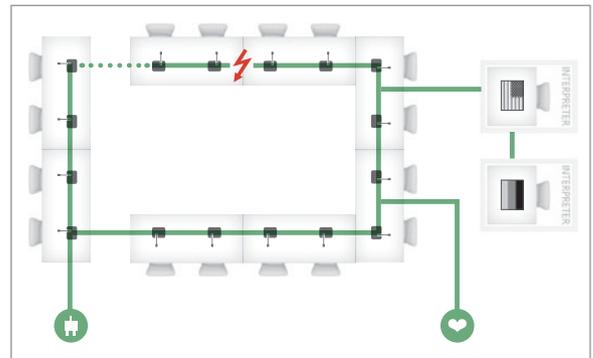
The components are connected via NetRateBus, an extremely reliable conference network, which transmits all audio control data digitally. Thanks to these unique protocols a wide range of practical functions and additional security measures are possible – allowing MCS-Digital conference systems to provide superior operational reliability and functionality.

To ensure premium operational reliability we have developed a 6 point programme for you



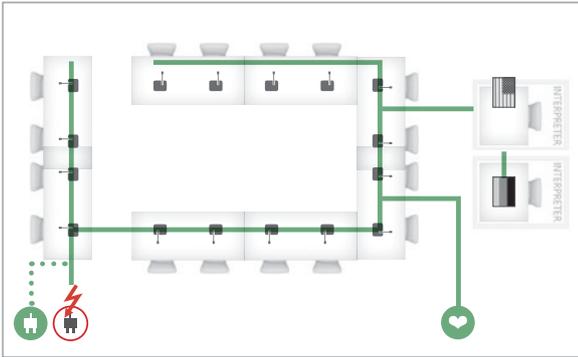
## 1. Doubly secured

Alongside the control unit a reserve control unit can be integrated into the system if desired. In the event the control unit is turned off for maintenance or it fails to operate, the reserve control unit will be automatically activated. This switch-over takes place without any loss of data, which means the conference need not be interrupted.



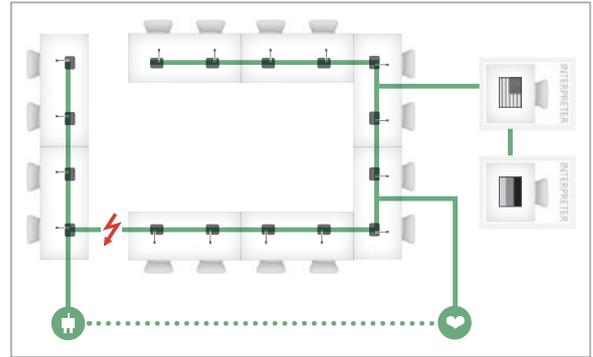
## 2. Well connected

In the event of a disruption all connected devices will remain fully functioning due to the fact that the microphone units are connected in a closed ring. Should a plug be removed from its socket, a microphone unit fail or a cable become disconnected all units will nevertheless remain connected to the control unit.



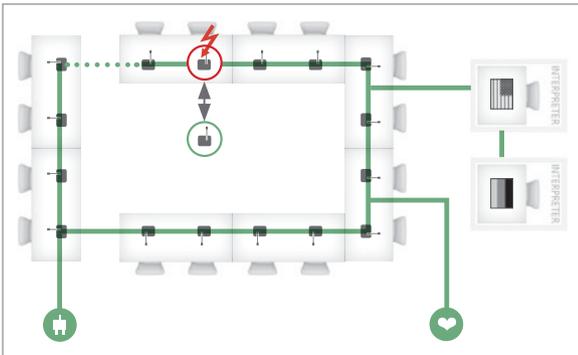
**3. Secure power supply**

Should a power supply fail or a plug be accidentally removed, the system automatically distributes the reserve power to ensure a sufficient supply of electricity and thus the system's continued operation.



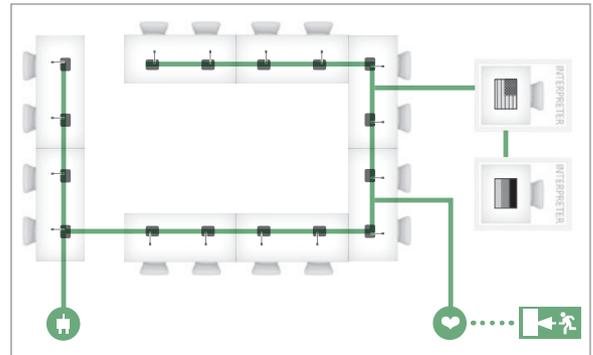
**4. Parallel connection**

The power supplies can also be used as reserve distributors for audio and control data. Should the direct connection between a section of the network and the control unit be disrupted, NetRateBus ensures data connection via the power supplies.



**5. Expandable at any time**

While the system is in operation additional microphone units can be added or changed without disrupting the operation of the system. The newly integrated microphone units automatically apply all existing settings.



**6. Always on the alert**

External audio signals can be fed in at any time via any desired system channel. This way, for example, alarm signals can be fed into the conference system or information media updates can be integrated. What's more, there are numerous other functions available such as the system-wide activation of alarm signals.

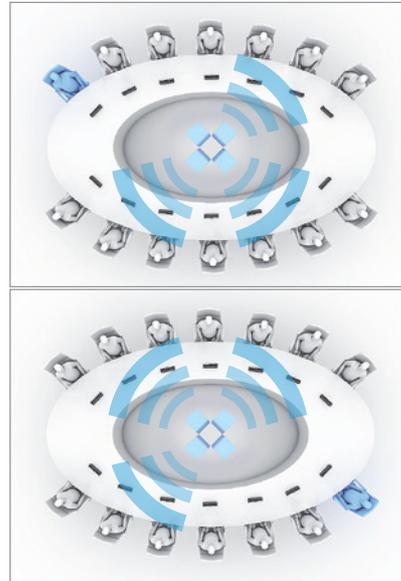


## Bringing it all to life

### Conferences with a direction-oriented public address system

A direction-oriented public address system is particularly recommended for large conferences, whereby the sound always comes from the speaker's direction.

This way listening is less tiring and the concentration of the participants is ensured for a longer period of time. Acoustic feedback is of course avoided.



### TIP

The beyerdynamic steno-s conference and recording software guarantees optimal documentation of conferences and proceedings.  
[www.steno-s.com](http://www.steno-s.com)



## Audio and visual harmony

### Video conferences with optimal sound

The MCS-Digital conference system can also show its worth when used for tele and video conferencing. The system's freely programmable multi-channel functionality ensures optimal integration in video conference systems.

Benefit from optimal sound quality at video conferences with advantages such as a direction-oriented public address system, anechoic audio transmission and high-quality speech communication can provide.

In conjunction with a video system there are additional options available, such as automatic camera control in accordance with the active microphone unit – advantages which enable a top-quality video conference experience.

## A sophisticated system

### The conference system with maximum potential

As the MCS-Digital conference system is completely programmable, a wide variety of individual installations can be realised to meet your exact requirements.

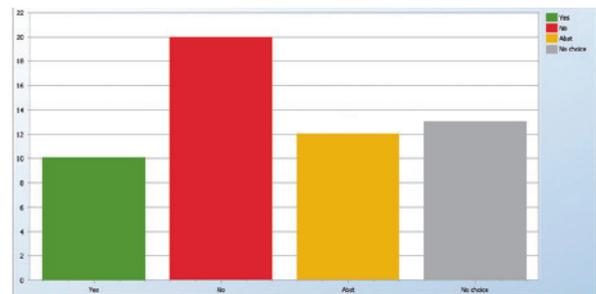
The accompanying iCNS software unlocks extensive functionality which allows the MCS-Digital conference system to be used effortlessly to great practical effect.



### The MCS-Digital conference system's high degree of flexibility gives rise to numerous practical functions.

These range from system control via various users, and convenient administration and management of conference proceedings, to voting.

A conference system on top of its game: thanks to this wealth of possibilities conferences are easier to organise, more productive and more efficient.



Example for voting

## The heart of the System

The control unit is either managed via the integrated display and the key pad or via two RS 232 interfaces on a media control, or alternatively via a PC with iCNS software.



# EXCELLENCE IN AUDIO

Made in Germany –  
German Audio Engineering (since 1924)

beyerdynamic has a strong reputation that extends far beyond the audio industry. On the one hand, its name is linked to Eugen Beyer, the developer of the first dynamic microphone and on the other, to the company itself which, like no other, is synonymous with the unparalleled sound quality and the highest quality standards – “Made in Germany”. Whether it’s microphones, conference and interpreting systems or headphones, for beyerdynamic optimal sound is the measure of all things.

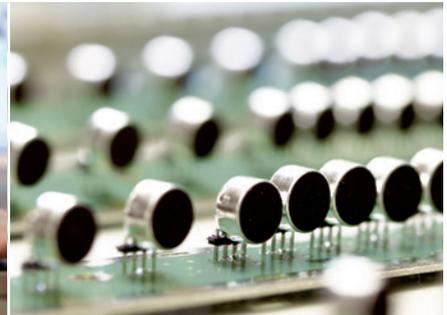
Thousands of companies, boards and institutions around the globe rely on beyerdynamic’s audio systems. The result is plain for all to hear: optimal sound quality and maximum reliability that win you over time and again.



Audio expertise since 1924



Manufacture in Heilbronn



Hand-selected microphone capsules



Made in Germany



Every microphone unit is individually



Every system undergoes a  
24-hour system test

# INTERNATIONALLY ACCLAIMED EXTRACT FROM THE MCS-DIGITAL LIST OF REFERENCES

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## GERMANY

Association of German Banks, Berlin  
 Berlin House of Representatives  
 Boardroom of the German Federal State "Hessen",  
 Wiesbaden  
 Boardroom of the City Hall of Duesseldorf  
 CDU Federal Party Headquarters, Berlin  
 Daimler Managing Board, Mercedes Benz Museum,  
 Stuttgart  
 District Administration of Paderborn  
 District Assembly, Meschede  
 District Court Frankfurt/Oder  
 District Court Ulm  
 E.ON Headquarters, Duesseldorf (Power Authorities)  
 Exhibition Centre, Duesseldorf  
 Evonik, Essen  
 Federal Ministry of the Interior, Berlin  
 Federal Office for Building and Regional Planning,  
 Berlin  
 Finance IT, Hannover  
 HSH Nordbank (Bank), Hamburg  
 Max-Planck-Institute  
 Sparkasseninformatik (Bank), Frankfurt  
 Technical Inspection Authority Rheinland  
 Town Hall Essen  
 University Heidelberg  
 University of Applied Science, Wildau  
 Volkswagen

## INTERNATIONAL

Newcastle City Council, Australia  
 OeNB Austrian National Bank, Vienna, Austria  
 National Bank of Canada, Canada  
 OECD Paris, France  
 Université Pierre et Marie Curie, Paris, France  
 Infosys, India  
 NDMC Conference Centre, New Delhi, India  
 Department of Environment, Tehran, Iran  
 Medical Council of Ireland  
 U.S. Naval Forces, Naples, Italy  
 Arcelor Mittal, Luxembourg  
 National Bank Macedonia  
 Ministry Malaysia  
 City Hall Herceg Novi, Montenegro  
 Maroc Telecom, Morocco  
 Smallingerland municipality, The Netherlands  
 Federal Government's Public Service Institute, Abuja,  
 Nigeria  
 Federal Ministry of Finance HQ Main Auditorium,  
 Abuja, Nigeria  
 Invest NI Headquarters  
 (economic development agency), Northern Ireland  
 Carnegie Mellon, Qatar  
 VW Bratislava, Slovakia  
 Parliament of the Republic of South Africa  
 La Caixa / Criteria Barcelona, Spain  
 Atel Olten, Switzerland  
 BIS - Bank for International Settlements, Basel,  
 Switzerland  
 Digital Roads Boardroom, USA  
 Petro Vietnam, Vietnam

[www.beyerdynamic.com/mcs-digital](http://www.beyerdynamic.com/mcs-digital)

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beyerdynamic GmbH & Co. KG . Theresienstr. 8 . 74072 Heilbronn . Germany . Phone +49 7131 617-400 . Fax +49 7131 617-199 . [conference@beyerdynamic.de](mailto:conference@beyerdynamic.de)  
beyerdynamic Inc. USA . 56 Central Ave . Farmingdale, NY 11735 . Phone +1 631 29332-00 . Fax +1 631 29332-88 . [info@beyerdynamic-usa.com](mailto:info@beyerdynamic-usa.com)



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