

ORBIS RELIABLE CONFERENCING

CONFERENCE
TECHNOLOGY

MADE IN GERMANY





Reliable, intuitive, functional.

Orbis, the digital, wired conference system



The spoken word and its effect on our fellow human beings is part of our communication on a daily basis, at conferences and lectures. Whether in conference rooms, council halls or boardrooms – the spoken word can only be powerful if it is understood. Therefore, technology becomes an indispensable part of your entire presentation.

This new wired conference system combines demanding design and discreet integration in high-quality furnishing and becomes an inherent part of your success. During development we were very careful to concentrate on the operational reliability and user convenience of the system, without having to neglect technical refinements.

Modern design, ease-of-use, operational reliability and high-quality materials are now what make this new conference system stand out. Components of the new Orbis wired conference system have received the world-renowned “Red Dot Award”.



reddot award 2015
winner

CONTROL UNIT

RELIABLE, MODERN
INTUITIVE



The centre of your conference

The control unit sets new standards with regard to design and operability. High-quality materials and the innovative one-button navigation concept make this control unit unique and provide for extremely simple operation and configuration of numerous functions.

Advantages that you will remember.

The most important functions of the Orbis control unit.



Reliable operation

Maximum reliability due to redundancy. A set up with all microphone units in a loop ensures a system redundancy with a maximum operational reliability. Even when a defect within the cabling of the microphone units or a failure within the microphone units occurs, the conference system will still be powered from the other end of the loop.



OneButton Navigation

Unprecedented user-friendliness that speaks for itself. The innovative one-button navigation makes operation of the system intuitive and implementation uncomplicated. By consistently dispensing with numerous sub-menus, we have achieved an unprecedented level of user-friendliness. An overview of all functions and parameters can be seen at a glance on the glass panel display.



System capacity

Excellent consumption figures enable a high number of microphone units. The line system topology allows the operation with a maximum of 100 microphone units using one control unit. If the system is connected in a loop to achieve the redundant operating mode, a maximum of 50 microphone units can be connected to one control unit. This impressive system capacity is achieved with economical microphone units that use less than 1 Watt in operation and at maximum volume.



Hot plugging

Additional microphone units can be added to the system or, if necessary, individual microphone units can be replaced, without interrupting the conference. In both cases there is automatic system recognition in the network.



Display

The labelled and back-lit glass display provides clear and well-arranged presentation of the operating parameters. As only those functions which have been set are back-lit, the user has an overview at a glance and any changes are very simple.



Interfaces

Using the RS-232 interface, the Orbis can be connected to a media control system. Control commands allow convenient operation of the microphones and various status displays, such as redundancy, fire alarm and audio recording.



Recording

The integrated recorder allows each meeting to be recorded without an extra device to ensure the registration of important incidents. This function becomes only then visible, when an SD card has been inserted into the control unit.



Audio settings

Due to its flexibility, Orbis can be used for a variety of applications. Audio signals are channelled and emitted via inputs and outputs in the digital signal processor, for example for telephone or video conferences or for the inclusion of a foreign language channel for interpreting purposes.



19" rack mount kit

In order to mount the control unit in a 19" rack, we supply a 19" rack mount kit as an optional accessory.

MICROPHONE UNITS

MODERN, CLEAR

SOPHISTICATED



Modern design in harmony with high-quality materials.

Conference technology that exceeds the highest demands thanks to a consequent design and premium-quality materials. With beyerdynamic's gene of individuality, we are underlining not only the furnishings, but also your presentation in conference rooms or meetings. With features like backlit, easy-to-feel silicone push-buttons with Braille and a headphone connection for hearing assistance we adhere to the UN Convention to ensure equal participation of disabled persons in society.

Properties that satisfy every need.

The main features of the Orbis microphone units at a glance.



Integrated solutions

Microphone units that can be adapted to the requirements of the conference setting. Integration is the most demanding requirement of a high-quality and individual table-mounted system. Intelligent build-in options enable the equipment to be integrated and combined individually, elegantly and discreetly with furniture and any conference environment – in the boardroom, in the council chamber, or in parliament.



Cable routing

Discreet or invisible. The practical cabling options allow the cables to be laid from below or behind. Depending on the requirements, the intelligent concept provides strain relief for the cables and allows them to be fixed and to be hidden.



Removable gooseneck microphones

Flexibility that pays. The gooseneck microphones are available in four different lengths. Thanks to the robust XLR connector, the gooseneck microphones can be replaced quickly and easily on site. The locking mechanism prevents accidental detachment of the microphones during the conference. The Scudio technology reliably eliminates interference caused by mobile phones.



Standard Cat5 cables

Global availability. Orbis is wired up using standard Cat5 cables. Global availability is guaranteed while affordable prices are maintained with the international standard TIA/EIA-568A/B. In accordance with the standards, the Orbis system transmits audio and control data and supplies voltage via the same cable.



High-quality surface

The microphone units are coated with a paint that was specially developed for the automotive industry and is particularly hard-wearing, scratch-resistant and impervious to fingerprints. The high-gloss control panel is made of specially hardened and therefore scratch-resistant acrylic glass.



Accessibility

The buttons on our microphone units are made of silicone and are Braille-marked, have a tactile feedback and thus touch-readable. Either a headset or an induction loop for assisted listening can be connected via the headphone jack. This means accessibility and equality for all conference participants.



Theft protection

Fixtures on the underside of the microphone unit enable it to be screwed onto the table. This prevents the microphone unit from being stolen or used as a missile.



Headphone jack

The adjustable headphone jack on the microphone unit can be used for output in the original for assisted listening or for a foreign-language audio channel if interpreting is offered.



Value

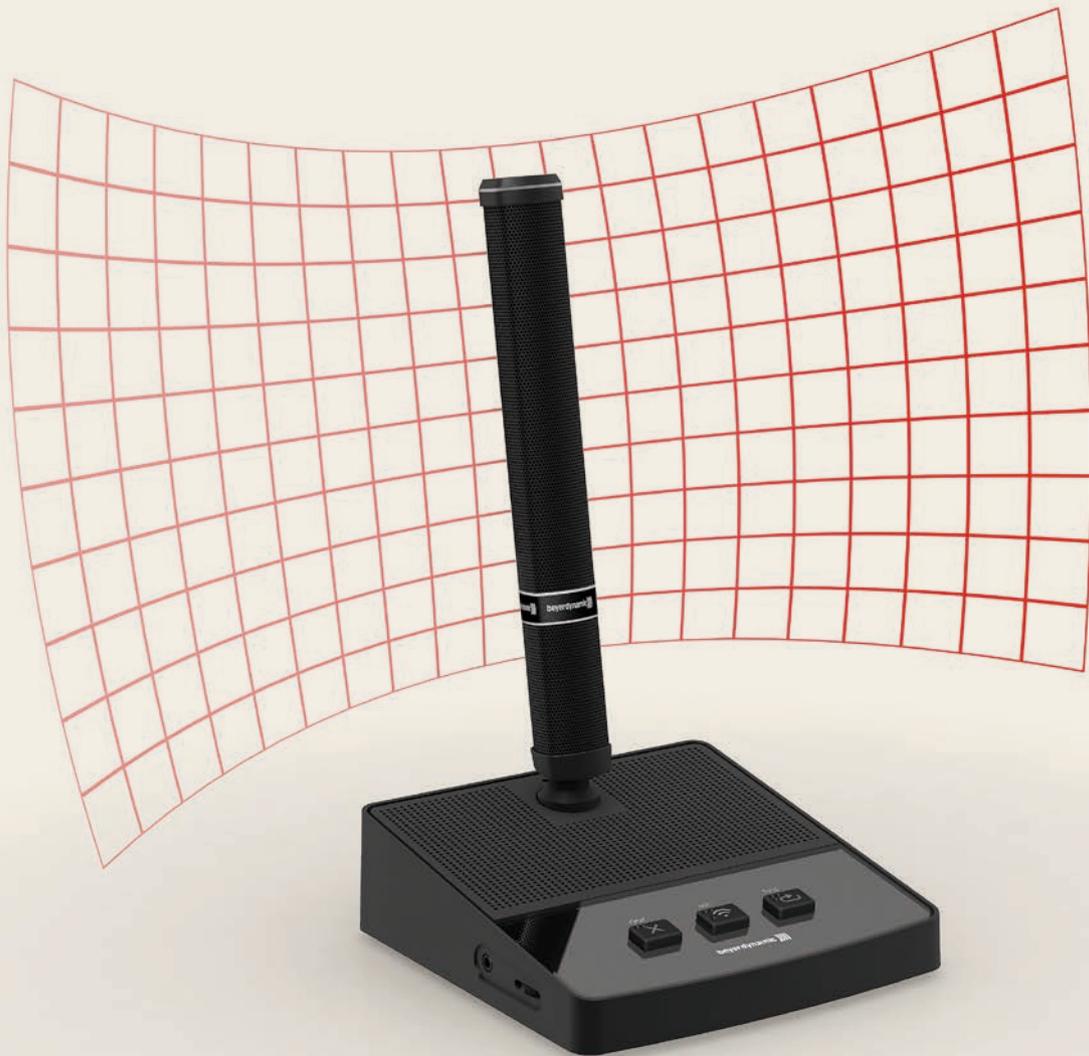
The sturdy housing with a solid metal base ensures stability and optimum footfall sound isolation. This effectively reduces the transmission of vibrations from the table and prevents the microphone units from slipping off the table when the microphone is being adjusted.



Voice Activation

The microphone can be tuned on by either using the microphone button or automatically via voice activation when the participant starts to speak.

REVOLUTO GOES VERTICAL



reddot award 2015
winner

Microphone for freedom of movement

Due to the Revoluto technology the vertical microphone array Classis RM 31 Q provides a very large voice range and high quality sound.

Conference microphone with Revoluto Technology.

The microphone can be connected to Orbis microphone units like a gooseneck microphone. The vertical microphone array results in a horizontal corridor characteristic (horizontal cardioid, vertical lobe). This allows the conference participant maximum freedom of movement at a consistent intelligibility of speech. It is possible for two people to share one microphone unit. The vertical lobe polar pattern also optimises the gain before feedback in ceiling installations.



Revoluto Technology



The Revoluto principle is based on the patented microphone array technology, where microphone capsules are arranged in a row. Compared to gooseneck microphones this creates a much greater voice range. As a result, the speaker must comply with neither the pick up pattern nor the usual small speaking distance.

The speaker can be close to the microphone or further away. Due to the array technology sound fluctuations are minimised by different speech distance.

The vertical arrangement of the array allows maximum freedom of movement to the right and left without volume waste. The attenuation up and down limits the recording of signals and noises from the ceiling and table.

Due to the large voice range two people can share one microphone. The microphone can also be used for video conferencing with several people. Due to the lateral placement of the microphone the workplace is free for laptops.



Reclinable microphone

The microphone can be reclined backwards to adapt the reclination and thus the alignment of the polar pattern to the situation and size of the speaker.



Gain before feedback

The vertical microphone arrays enables a high gain before feedback in ceiling installations.



RFI proof

The microphone is RFI proof so that no interference due to mobile phones is caused.



Made in Germany

Highest audio and product quality „Made in Germany“. The Revoluto technology was developed in Germany, the production is also in Germany.



LED ring

The microphone has an LED ring indicating the ready to speak status by a red illumination.

INTEGRATED SOLUTIONS

UNOBTRUSIVE INTEGRATION

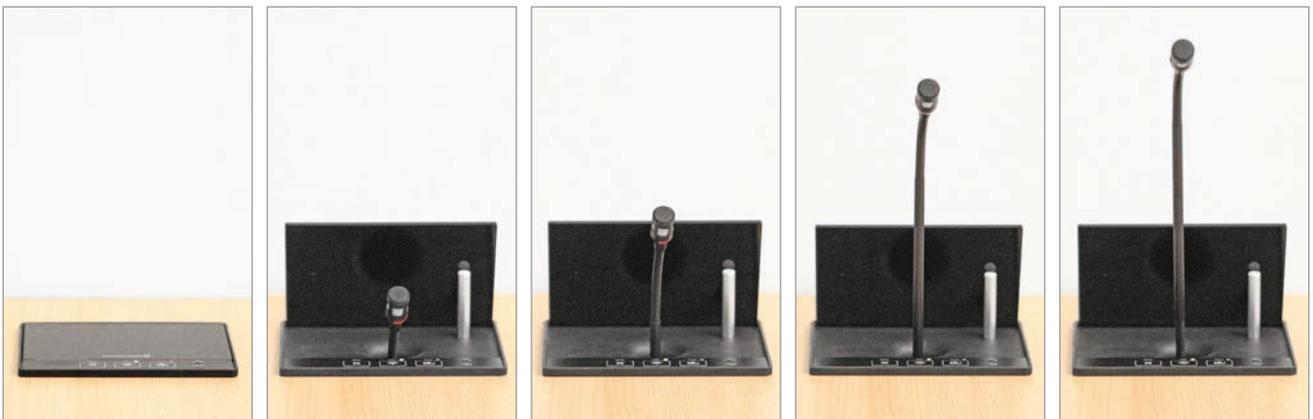


reddot award 2015
winner

Technology should blend in with the singularity of the architecture.
Integrated solutions meet highest demands on design and functionality.



The Orbis MU 41 and Orbis MU 43 flush mount microphone units will be used with our Classis microphone series. An optional CA OL loudspeaker module is available.



conMIC Orbis allows the seamless integration of conference microphones to be placed below furniture level and elevating only upon request. conMIC Orbis contributes greatly to the room aesthetics, removing clutter and obstruction while retaining functionality. These may be controlled either by a single press on the keyplate or by remote control. conMic Orbis is available at Element One.



Orbis Microphone Units – further integrated solutions.



Table installation with a gooseneck microphone of the Classis microphone series, shockmount and button. The Orbis SU 63 system unit is mounted under the table.



Armrest installation with a gooseneck microphone of the Classis microphone series, shockmount and button. The Orbis SU 63 system unit is mounted upright into the armrest.



Flexible shockmount fixture with swivelling lid for Classis microphones.

The swivelling lid of the shockmount can be customised for a discreet installation into furniture in any environment. By using water transfer printing the swivelling lid can be coated according to your requested colour and demands.

ORBIS MANUFAKTUR

Products carefully handcrafted have always been the basis for our “Made in Germany” products.

Our MANUFAKTUR made the philosophy come alive. Lifestyle materials such as brushed stainless steel or carbon-fibre look, control panels in the corporate colour or with integrated logo: the beyerdynamic MANUFAKTUR provides individuality on a superior level. As with your personal dream car you can select the colour of the housing up to the material of the control panels according to your personal taste. Finally your conference system will become a real unique one.

We distinguish between two levels of customisation.

1 The first stage of individualisation

Stage one includes the three pre-defined colours for the housing and seven pre-defined colours for the control panels, and a panel made of brushed stainless steel. The advantage for you: the conference system adapts even better to you, your environment and the conference room. Since we have these variants already on stock, there are no one-time costs for you and there are no long delivery times.



Option for housings



Standard black with soft-touch feeling
(Alexit “Comfort“ lacquer)



Grey with soft-touch feeling
(Alexit “Comfort“ lacquer)



White with soft-touch feeling
(Alexit “Comfort“ lacquer)

Option for panels



Blue, Green, Yellow, Red, Grey, White, Black and a control panel made of brushed stainless steel

2 The second stage of individualisation

Let your imagination run wild, the housing of the Orbis microphone units can be painted in any colour. Also there are no limits for the control panels: no matter which colour, whether images or logo and almost every material is possible. Please note that you have to calculate with a delivery time of approximately 8 weeks and one-time costs for additional expenses.

Custom for housings



Every RAL colour is possible
(without soft-touch-feeling)

Custom for panels



Every RAL / Pantone colour and
nearly every material is possible

System overview



Orbis CU

Digital control unit for up to 100 microphone units



CA OR

19" rack mount kit, with fixation option for the power supply and cable strain relief

Cat5 connecting cable,

RJ45 connectors
 CA OC 1 - length 1 m
 CA OC 2 - length 2.5 m
 CA OC 5 - length 5 m
 CA OC 10 - length 10 m
 CA OC 20 - length 20 m
 CA OC 50 - length 50 m



Classis microphone series

Classis GM 313 Q: Condenser gooseneck mic, length 300 mm
 Classis GM 314 Q: Condenser gooseneck mic, length 400 mm
 Classis GM 315 Q: Condenser gooseneck mic, length 500 mm
 Classis GM 316 Q: Condenser gooseneck mic, length 600 mm



Classis GM 115 Q: Condenser gooseneck mic (cardioid), length 500 mm
 Classis RM 31 Q: Vertical array mic, length 219 mm
 Classis GM 314 E: Condenser gooseneck mic cardioid, length 400 mm
 Classis GM 315 E: Condenser gooseneck mic (cardioid), length 500 mm
 Classis BM 32 E: Boundary microphone (semi-cardioid, condenser), black



Orbis MU 23

Chairman microphone unit, used with Classis microphones



Orbis MU 21

Delegate microphone unit, used with Classis microphones



CA OT

Transport case



ZSH 20

Flexible shockmount fixture for Classis microphones, black



Orbis MU 43

Flush mount chairman microphone unit, used with Classis microphones optional CA OL loudspeaker module



Orbis MU 41

Flush mount delegate microphone unit, used with Classis microphones optional CA OL loudspeaker module



CA OL

Loudspeaker module for Orbis MU 41/43 and Orbis SU 63



GMS 52 / GMS 52 w

Flexible shockmount fixture with swivelling lid for Classis microphones, black and white



Orbis SU 63

System unit for mounting under the table, used with Classis microphones, Phoenix connectors for microphone, CA OP piezo buttons and CA OL loudspeaker module, RJ 45 connection for the conference network



CA OP 2

Piezo-button for Orbis SU 63 system units, black anodized aluminium, with bicoloured LED indicator dot



CA OP 2 C

Piezo-button for Orbis SU 63 system units, black anodized aluminium, with "Clear" symbol printing



CA OP 2 F

Piezo-button for Orbis SU 63 system units, black anodized aluminium, with "Func" symbol printing and single coloured LED indicator dot

National

ARD Main Television Studio, Berlin
Ariola, Munich
Bavarian chamber for social benefits and pensions,
Munich
Ministry of Interior Affairs, Berlin
Office of the president (Schloss Bellevue), Berlin
CSU Political Office, Munich
CDU Political Office, Berlin
Dyckerhoff Zement, Mainz
EZB European Central Bank, Frankfurt
Geographical Institute, Bonn
Chamber of Crafts, Bayreuth
IG Metall (Union), Frankfurt
Clinical Center of the University of Munich
Cultural Building Sachsenheim
Medical Association Hesse, Bad Nauheim
District Office Eichach
District Office Friedrichshafen
Parliament Baden-Württemberg, Stuttgart
MDR Television Studio, Dresden
MDR Television Studio, Leipzig
Trade Fair Center Essen
City hall Gotha
City hall Heilbronn
City hall Cologne
City hall Schorndorf
SPD Municipal Council Munich
Public Services Nuremberg
University of Marburg
Zeppelinstein Authority Center, Bad Homburg

International

Australian Medical Association, NSW - Australia
Kingston City Council, Vic - Australia
China National Power General Corporation, Beijing - China
Shenzhen Manager Building, South China - China
Shanghai Fuxing Commercial Building, Shanghai - China
City Hall Frederikshavn - Denmark
County Court Kolding - Denmark
Danish Emergency Management Agency, Bernstorff Castle - Denmark
ALCATEL Lannian - France
AXA Assurances, Paris - France
Gaz de France, Paris - France
Athens Exchange, Athens - Greece
Bank of Scotland - Great Britain
Warwick/Leicester University - Great Britain
Western Education and Library Board HQ, Omagh - Ireland
Ministry of Interiors, Beyt Hall, Tehran - Iran
Ministry of Interiors, Minister Office, Tehran - Iran
Lisburn County Council - Ireland
City of Waterloo Council Chambers, Waterloo, Ontario - Canada
Statistic Canada, Ottawa, Ontario - Canada
Pickering City Council Chambers, Pickering, Ontario - Canada
Macedonian Parliament - Macedonia
Auckland City Council - New Zealand
Waimakiriri District Council - New Zealand
Municipal Waterworks, Gorinchem - Netherlands
Town hall Rotterdam - Netherlands
Nexim Bank Head Office, Abuja - Nigeria
The Adamawa State House of Assembly, Yola - Nigeria
Church boardroom, Zurich - Switzerland
University, Bern - Switzerland
Sala de Presentaciones de Torre Picasso, Madrid - Spain
University Carlos III, Madrid - Spain
University of Alicante - Spain
Anaheim City Council, California - USA
Board of Education, New York - USA
Orlando City Council, Florida - USA
The University of Foreign Languages, Hanoi - Vietnam
National Library - Belarus



Made in Germany

Conference systems from beyerdynamic stand for optimal audio quality and highest quality standards "Made in Germany".



Sustainability

beyerdynamic products are of course produced as environmentally friendly as possible.

Further references and project reports at
www.beyerdynamic.com/references

