

REVOLUTO MICROPHONES FOR MAXIMUM FREEDOM OF MOVEMENT

CONFERENCE
TECHNOLOGY

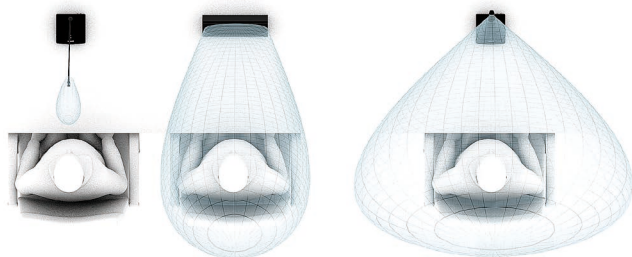
MADE IN GERMANY



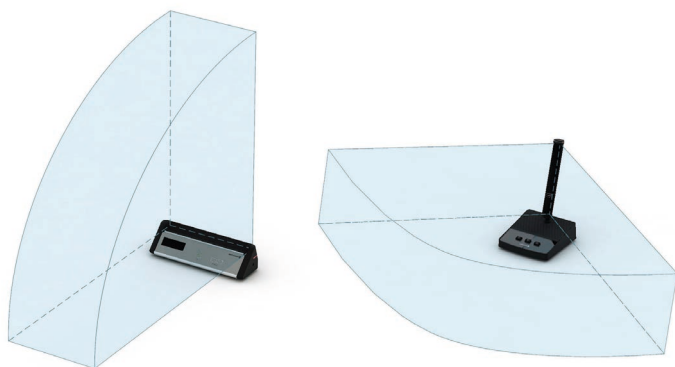
REVOLUTO TECHNOLOGY

The Revoluto principle – The Revoluto principle is based on patented microphone array technology, where microphone capsules are arranged in either a horizontal or vertical row.

Compared to gooseneck microphones this creates a much greater distance for voice pick up. As a result, the speaker is not restricted to the typical pick up pattern or usual compact speaking distance offered by most gooseneck microphones and therefore does not need to concentrate on talking directly into the microphone. The speaker has maximum freedom of movement with a consistent intelligibility of speech.



Recording area of a gooseneck microphone compared to a horizontal and vertical array microphone.



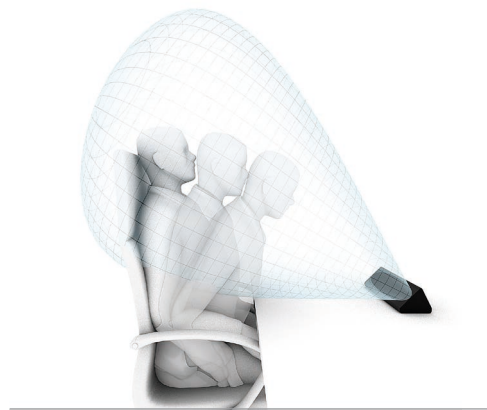
The horizontal and vertical arrangements of the microphone arrays differentiate in design as well as in the alignment of the corridor characteristic, which is displayed above. Depending on the request for design, room acoustics and sound reinforcement the appropriate variant can be selected to make optimal use of the advantages of the Revoluto technology.

ALIGNMENT OF MICROPHONE ARRAY

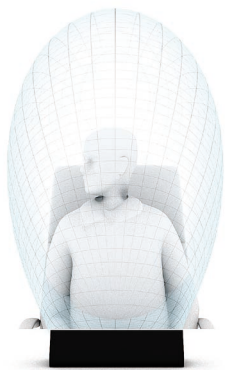
Horizontal Array



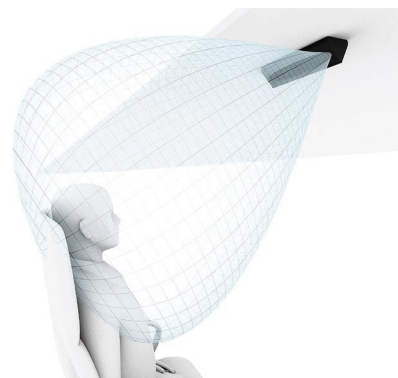
The horizontal arrangement of the microphone array results in a vertical corridor characteristic, which allows enhanced freedom of movement. Whether the speaker is sitting or standing, the volume and audio quality always remain the same. People on the left and right from the speaker are faded out.



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

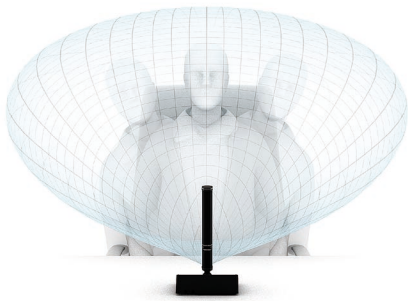


No fading in and out when you move your head to the left or right.

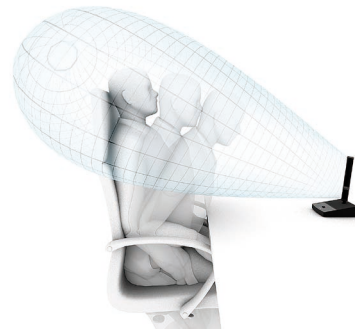


The high number and array of the microphone capsules ensures optimal voice recording when installing the array on the ceiling, minimising background noise.

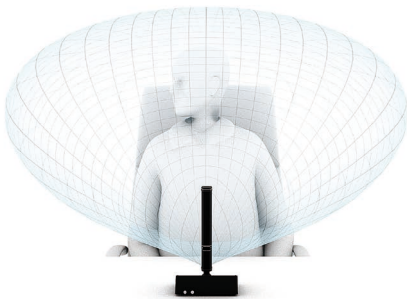
Vertical Array



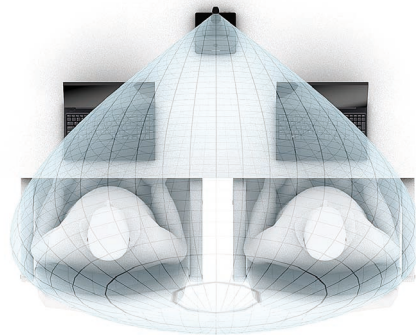
The vertical arrangement of the microphone array results in a horizontal corridor characteristic allowing maximum freedom of movement to the right and left without large volume fluctuations. The attenuation above and below the microphone limits the recording of signals and noises from the ceiling and table.



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



No fading in and out when you move your head to the left or right.



Due to the wide voice pickup 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.

MPR 210 / 211

Unique Design – with Horizontal Microphone Array



Horizontal Revoluta technology

The horizontal microphone array allows maximum freedom of movement. Whether you are standing, leaning back or turning your head, the sound level and quality remains consistent.



No cables cluttering the table

For a discreet installation the cable can be positioned to the rear or downwards.



Versatile use

Depending on the application, the button of the MPR 211 can be used for different operating modes and operation with an external control contact (operator-controlled).



RFI proof

The microphones are RFI proof so that no mobile phone interference can be heard when using device.



Display of the ready-to-speak status

The MPR 211 desktop microphone features an LED strip to display the ready-to-speak status. In the standard setting the LED strip illuminates red. As an option it can illuminate green or red and green.



High-quality material

The black microphones have a special coating developed for the automotive industry, which is impervious to finger prints, very robust and scratch-resistant. On request an individual finish such as a special colour or wooden look is available.



Made in Germany

Benefit from superior audio quality due to high manufacturing standards. The Revoluta technology has been developed and produced in Germany.

Classis RM 30

Elegant Design – with Vertical Microphone Array



reddot award 2015
winner

**Vertical Revolutio technology**

The vertical microphone array results in a horizontal corridor characteristic (horizontal cardioid, vertical lobar). This gives the speaker maximum freedom of movement with a consistent volume optimising the gain before feedback with ceiling installations.

**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 array enables high gain before feedback in ceiling installations.

**RFI proof**

The microphone is equipped with Scudio™ technology making it RFI proof so that no mobile phone interference will occur.

**3-pin XLR connector**

The microphone has a 3-pin male XLR connector with integrated phantom power adapter.

**Filter**

The integrated second-order filter prevents impact noise from tables.

**Made in Germany**

Benefit from superior audio quality due to high manufacturing standards. The Revolutio technology has been developed and produced in Germany.



Microphones with Optimum Intelligibility of Speech and Maximum Freedom of Movement – Typical Advantages in different Applications.

Conferences and Meetings

- + Freedom of movement
- + Wider audio pick up
- + Consistant volume

H

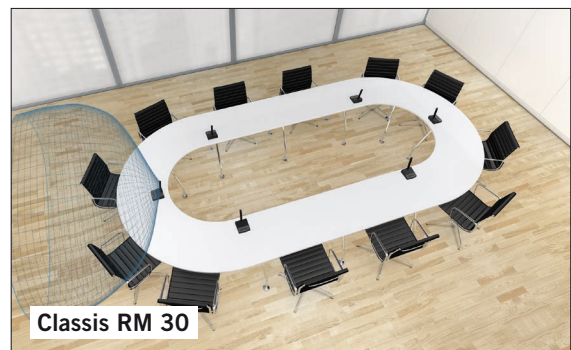
Horizontal Array Microphone



- + Flat design
- + Less impact on room design
- + Sitting and standing use possible

V

Vertical Array Microphone



- + Maximum freedom of movement to the back, right and left
- + Two people can share one microphone
- + Placing at the side allows the use of laptops



Due to the array of microphone capsules the signal-to-noise ratio is high, so that noise is low when the sensitivity is set high. The array of microphone capsules ensures audio pick up at different distances with an almost consistent volume level.

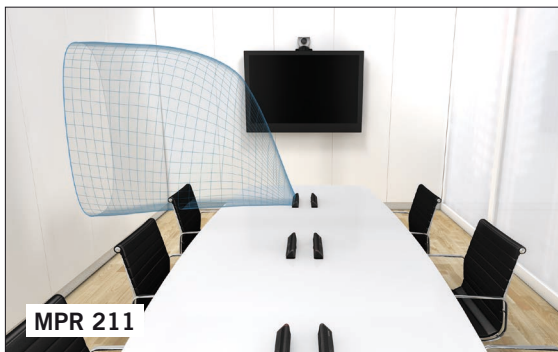
Tele and Video Conferences

- + Freedom of movement
- + Wider audio pick up
- + Consistant volume

Tele and Video Conferences with Ceiling Installations*

- + No microphones on the table
- + Freedom of movement
- + Wider audio pick up
- + Consistant volume

H



- + Average to large-sized conferences
- + Speaker clearly audible
- + Each participant has a microphone which minimises background noise

H



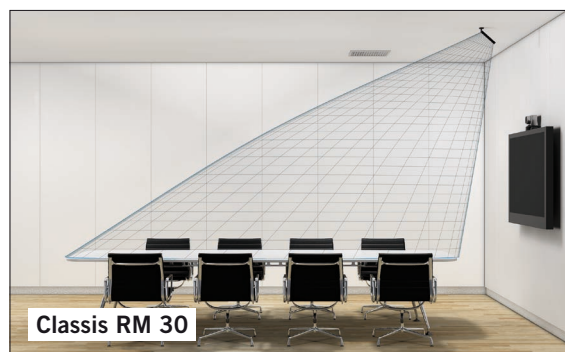
- + Medium-sized conferences
- + Several people are picked up with two microphones

V



- + Small conferences
- + Several people are picked up with one microphone

V



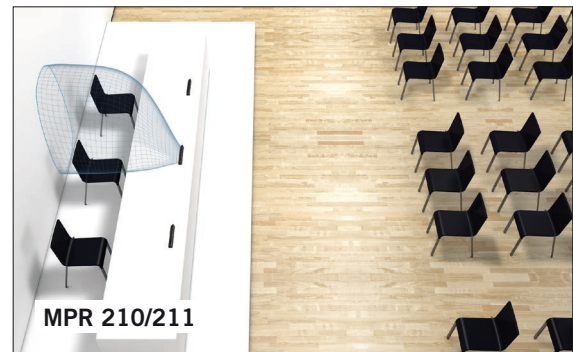
- + Small conferences
- + Several people are picked up with two microphones

Microphones with Optimum Intelligibility of Speech and Maximum Freedom of Movement – Typical Advantages in different Applications.

Panel Discussions and Press Conferences

H

Horizontal
Array Microphone



- + Lean backwards and speak to the side
- + Consistent volume
- + Direct eye contact without a visible microphone in the picture
- + Only the speaker is picked up, acoustical separation from the neighbour

Lectern and Education

V

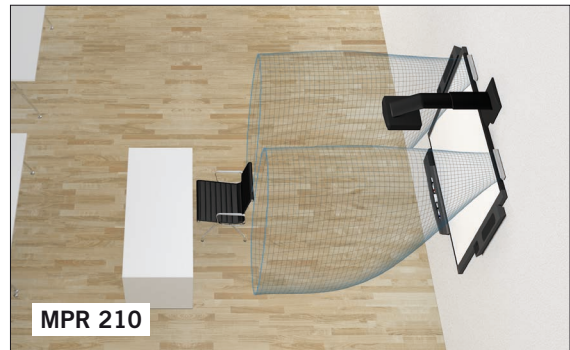
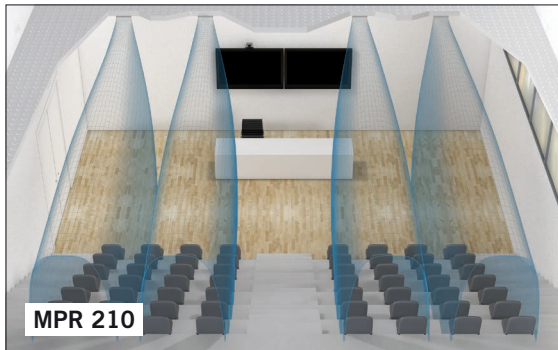
Vertical
Array Microphone



- + Maximum freedom of movement
- + Consistent volume
- + Free sight
- + Placing at the side allows the use of laptops

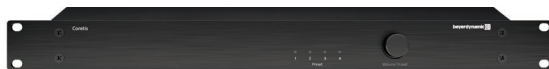
H**Horizontal**
Array Microphone**Education (Auditorium, Smartboard)**

- + Freedom of movement
- + Wider audio pick up
- + Consistant volume



- + With a few microphones you can pick up a whole auditorium
- + The array of microphone capsules ensures a consistant audio pick up over different distances and due to a high signal-to-noise ratio the noise is low when the sensitivity is set high

- + The speaker can move freely in front of the smartboard with a consistent volume

**Room Acoustics and Signal Processing**

The characteristics in the application images are displayed in a simple way in order to illustrate the possibilities and differences. As with any other microphone, the behaviour also depends on the individual room acoustics, the selected sensitivity and the PA system. In order to achieve an optimal result, it might make sense to adjust the sensitivity of the microphone individually to the appropriate room situation. For this it is possible to use a DSP audio processor, such as Coretis.

www.beyerdynamic.com/coretis

Product Overview



MPR 210 B
(Order # 725145)
Desktop microphone,
3 m long bare-ended
connecting cable, black



MPR 210 W
(Order # 725080)
Desktop microphone,
3 m long bare-ended
connecting cable, white



MPR 211 B
(Order # 725099)
Desktop microphone with
programmable microphone
button and connections for
external control, 3 m long
bare-ended connecting
cable, black



Classis RM 30
(Order # 729388)
Microphone with filter,
pre-amplifier and 3-pin
XLR connector, black

Accessories



GMB 33 S
(Order # 725242)
Microphone base,
3-pin XLR socket and
button for Classis RM 30



ZSH 20
(Order # 454559)
Shock-mount for Classis
RM 30



ZSH 210
(Order # 721832)
Stand plate for
MPR 210 / 211



Conference Systems

beyerdynamic conference system delegate
units are also available with
Revolutio technology

More products with Revolutio technology and video clips: www.beyerdynamic.com/revolutio