

Ray-On

Single-channel application of the patented DGRC technology (Digital & Geometric Radiation Control), the Ray-On column family comprises 4 models from 0.2 m to 2m in height. Thanks to DGRC technology, these models yield homogenous sound coverage and perfect speech intelligibility.

The elegant design of Ray-On loudspeakers with their finely perforated grid, the ability to dispose of all colors thanks to a paintable cast aluminium body, and the vertical installation of the columns inherent to the DGRC technology allow achieving optimal results in terms of aesthetics and integration.

Indoor or outdoor use, compliance with EN 54-24 standard, and wide choice of possible connectivity (8Ω / 70V line / amplified) allow Ray-On column loudspeakers to meet the requirements of sound systems in houses of worship, conference rooms, airports, railway stations, shopping malls and recreational parks.

With a height of 70cm, the Ray-on R70 column has a nominal range of 12m for a continuous power of 75W. Its characteristics are perfect for medium-range venues or in distributed sound reinforcement system in large spaces. Its nominal installation height of 2,0m allows a safety set up in public places.

With a similar height and characteristics Ray-on R70 exists in amplified version with DANTE input under the reference Ray-on R70+.



R70

Mono channel Column Loudspeaker



Max SPL: 91dB at 5m

Impedance: Low Z & 100V modes

Bandwidth: 120Hz-18kHz

Continuous Power: 75W

IP54

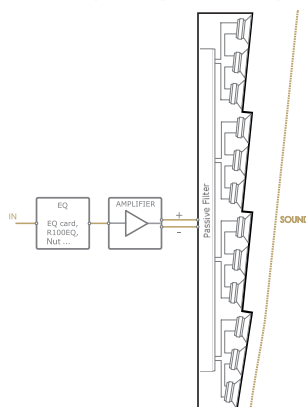
Paintable

EN54-24
TYPE B

5 years warranty



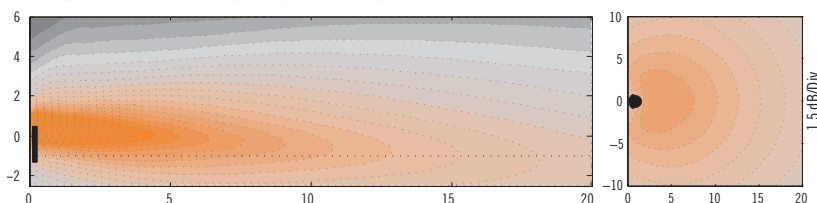
DGRC principle (Example for a 1m column)



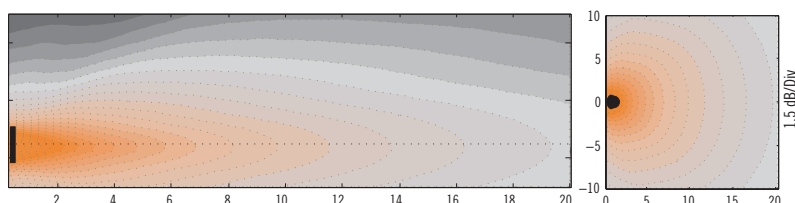
Ray-On is based on the DGRC principle: the internal loudspeaker inclination associated with the calculated height of installation allows to cover the audience area.

Hence Ray-On has to be mounted vertically. The range of Ray-On depends both of the Ray-On model and the height of installation.

Comparison of the homogeneity of coverage between a standard column and a DGRC column



Ray-on 100 horizontal and vertical directivity: Sound level for the speech band (500Hz-2000Hz) in the vertical median plane and on the audience area 80 cm below the column.



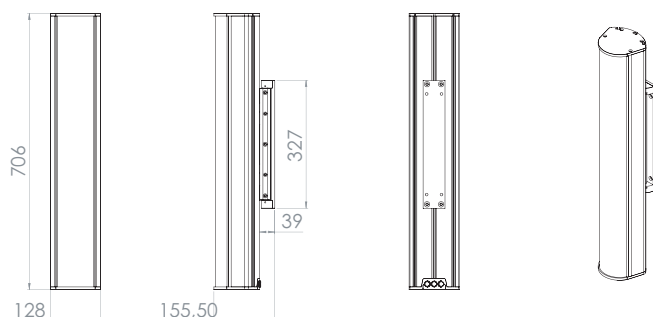
Standard 1m column vertical and horizontal directivity: sound level for the speech octaves (500Hz-1kHz-2kHz) in the vertical median plane.

R70

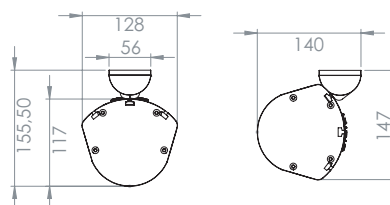
Technical Specifications

Mechanical drawing

Front views



Top views



Rigging



Technical Specifications

Acoustical data

Range +/- 3dB (nominal height)	6,5 m
Range +/- 5dB (nominal height)	12 m
Max SPL (pink noise)	91dB at 5m
Continuous power	75W
Frequency bandwidth (-10 dB)	120Hz- 18kHz
Horizontal opening angle (1 kHz)	180°
Loudspeaker	6x 2,5"

Mechanical data

Net weight	5,4 kg
Shipping weight	5,9 kg
Height	706 mm
Width	128 mm
Depth	117 mm
Standard colors	White RAL 9016 Black RAL 9005
Material	Aluminium body, treated steel Rustproof and UV proof

Electrical data

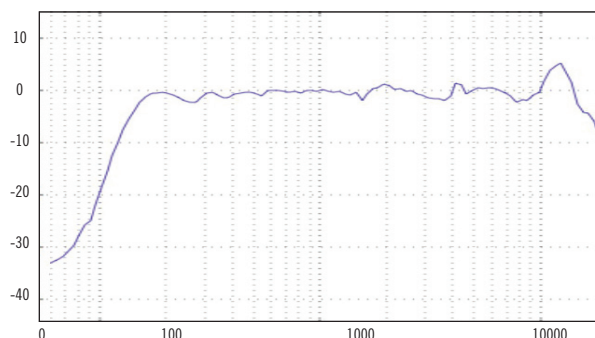
Impedance	8Ω, 666/333/167Ω
Max continuous power	75W, 15W/30W/60W
Connector	Lever quick connector with loop-thru
Wire section	from 0,5 to 2,5mm ²

Tuning and exploitation

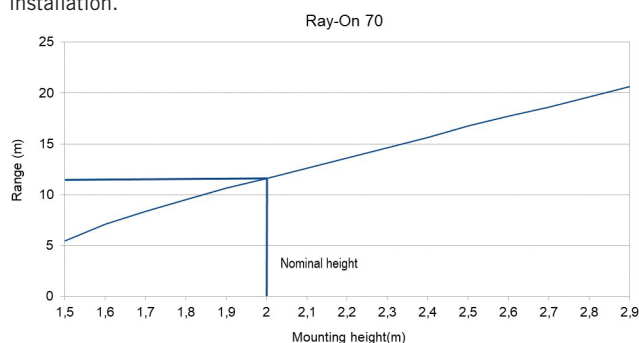
Recommended equalisation	Speech: 5 param Cells Music: 6 param Cells
Modeling	EASE/ CATT
Environnement	IP54 from -25°C to 55°C indoor & outdoor
Mounting	Vertical
Nominal mounting height	2,0 m (bottom of loudspeaker)

Frequency response

Ray-On 70 frequency response, with recommended equalisation.
Average from 2 to 10m axis.



The following graph shows the range of the column versus height of installation.



Ray-On+

Single-channel application of the patented DGRC technology (Digital & Geometric Radiation Control), the Ray-On column family comprises 3 models from 0.2 m to 2m in height equipped with a class D power amplifier. Thanks to DGRC technology, these models yield homogenous sound coverage and perfect speech intelligibility.

The elegant design of Ray-On loudspeakers with their finely perforated grid, the ability to dispose of all colors thanks to a paintable cast aluminium body, and the vertical installation of the columns inherent to the DGRC technology allow achieving optimal results in terms of aesthetics and integration.

Equipped with an analog input and a DANTE input on RJ45 connector, Ray-On + can easily be integrated into complex digital networks. The internal DSP of the enclosure provides an optimal frequency response.

The Ray-On+ column loudspeakers can be used indoors only, enabling them to meet the needs of sound systems in houses of worship, conference rooms, or shopping malls.

With a height of 70cm, the Ray-on R70+ column has a nominal range of 12m for a continuous power of 75W. Its characteristics are perfect for medium-range venues or in distributed sound reinforcement system in large spaces. Its nominal installation height of 2,0m allows a safety set up in public places.

With a similar height and characteristics Ray-on R70+ exists in low impedance or 70V/100V version under the reference Ray-on R70.



R70+

Mono channel amplified Column Loudspeaker



Max SPL: 91dB at 5m

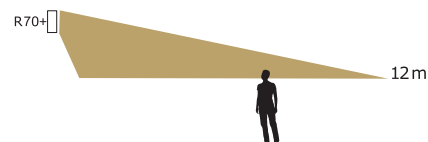
Bandwidth: 120Hz-17kHz

Continuous Power: 75W

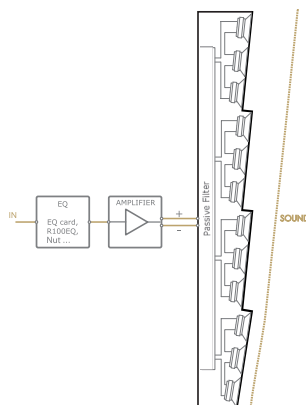
Dante™

Paintable

5 years warranty



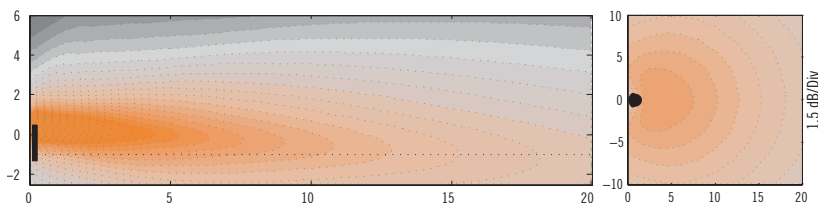
DGRC principle (Example for a 1m column)



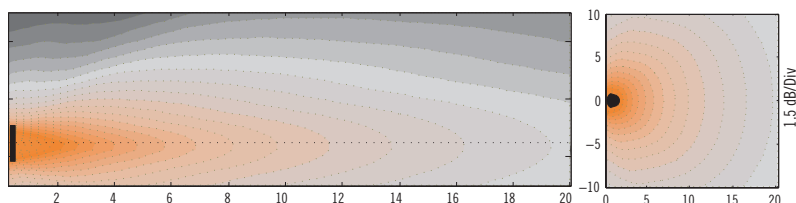
Ray-On is based on the DGRC principle: the internal loudspeaker inclination associated with the calculated height of installation allows to cover the audience area.

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Comparison of the homogeneity of coverage between a standard column and a DGRC column



Ray-on 100 horizontal and vertical directivity: Sound level for the speech band (500Hz-2000Hz) in the vertical median plane and on the audience area 80 cm below the column.



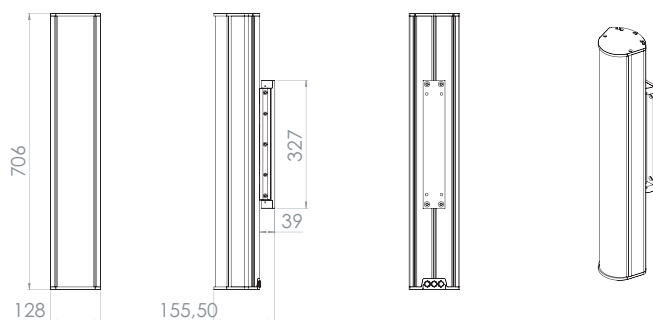
Standard 1m column vertical and horizontal directivity: sound level for the speech octaves (500Hz-1kHz-2kHz) in the vertical median plane.

R70+

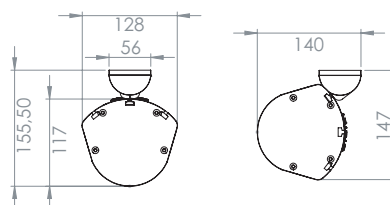
Technical Specifications

Mechanical drawing

Front views



Top views



Rigging



Technical Specifications

Acoustical data

Range +/- 3dB (nomial height)	6,5 m
Range +/- 5dB (nomial height)	12 m
Max SPL	91dB at 5m
Frequency bandwidth (-10 dB)	120Hz- 17kHz
Horizontal opening angle (1 kHz)	180°
Loudspeaker	6x 2,5"

Mechanical data

Net weight	7,0 kg
Shipping weight	7,5 kg
Height	706 mm
Width	128 mm
Depth	117 mm
Standard colors	White RAL 9016 Black RAL 9005
Material	Aluminum body, treated steel Rustproof and UV proof

Electrical data

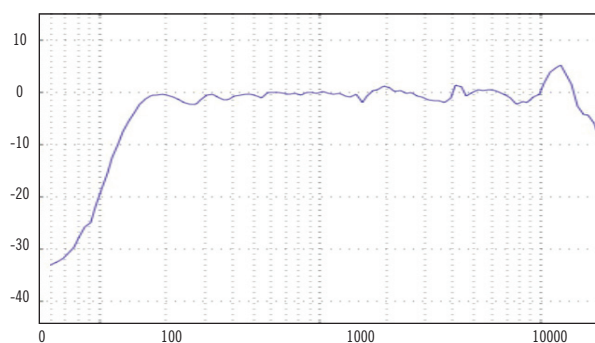
Amplifier	250W Class D
Power supply	90V-250V 50Hz-60Hz

Tunning and exploitation

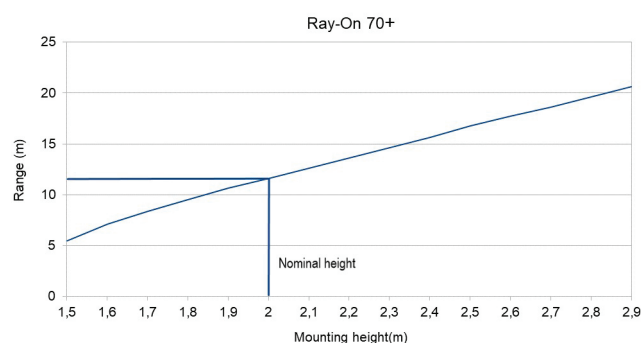
Equalisation	Optimal preprogrammed
Modeling	EASE/ CATT
Environnement	IP23 from -25°C to 55°C indoor
Mounting	Vertical
Nominal mounting height	2,0 m (bottom of loudspeaker)

Frequency response

Ray-On 70+ frequency response, with recommended equalisation.
Average from 2 to 10m axis.



Range of the column versus different height of installation.



Ray-On

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The elegant design of Ray-On loudspeakers with their finely perforated grid, the ability to dispose of all colors thanks to a paintable cast aluminium body, and the vertical installation of the columns inherent to the DGRC technology allow achieving optimal results in terms of aesthetics and integration.

Indoor or outdoor use, compliance with EN 54-24 standard, and wide choice of possible connectivity (8Ω / 70V line / amplified) allow Ray-On column loudspeakers to meet the requirements of sound systems in houses of worship, conference rooms, airports, railway stations, shopping malls and recreational parks.

With a height of 110cm, the Ray-on R110 column has a nominal range of 20m for a continuous power of 150W. Its characteristics are perfect for medium-range venues or in distributed sound reinforcement system in large spaces. Its nominal installation height of 2,2m allows a safety set up in public places.

With a similar height and characteristics Ray-on R110 exists in amplified version with DANTE input under the reference Ray-on R110 +.



R110

DGRC Mono channel Column Loudspeaker



Max SPL: 92dB at 8m

Impedance: Low Z & 100V modes

Bandwidth: 120Hz-18kHz

Continuous Power: 150W

IP54

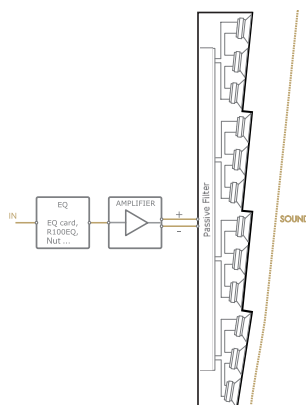
Paintable

EN54-24
TYPE B

5 years warranty



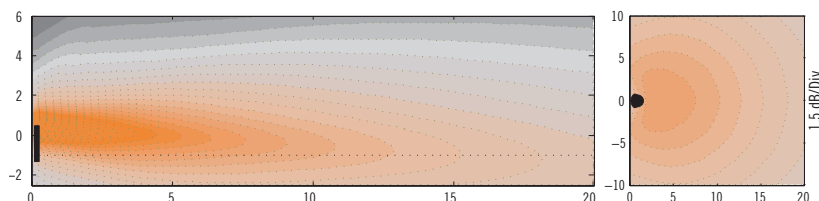
DGRC principle (Example for a 1m column)



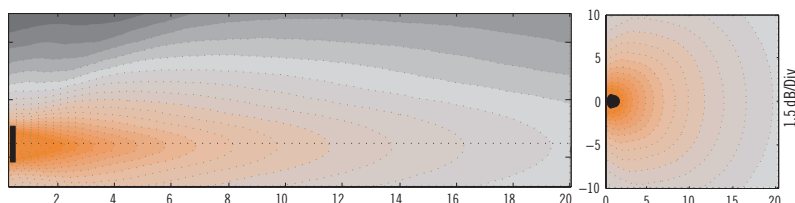
Ray-On is based on the DGRC principle: the internal loudspeaker inclination associated with the calculated height of installation allows to cover the audience area.

Hence Ray-On has to be mounted vertically. The range of Ray-On depends both of the Ray-On model and the height of installation.

Comparison of the homogeneity of coverage between a standard column and a DGRC column



Ray-on 100 horizontal and vertical directivity: Sound level for the speech band (500Hz-2000Hz) in the vertical median plane and on the audience area 80 cm below the column.



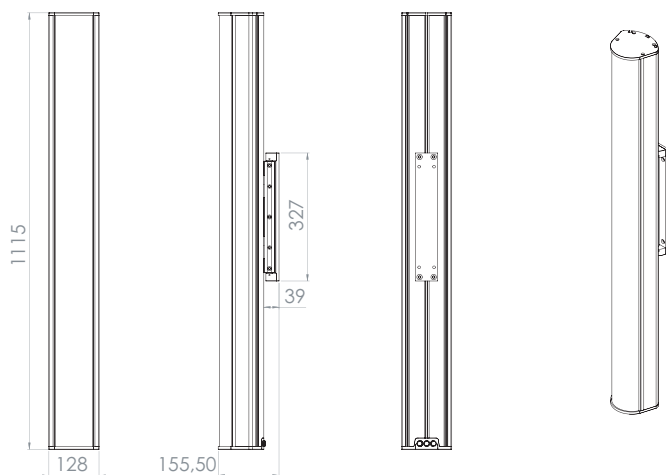
Standard 1m column vertical and horizontal directivity: sound level for the speech octaves (500Hz-1kHz-2kHz) in the vertical median plane.

R110

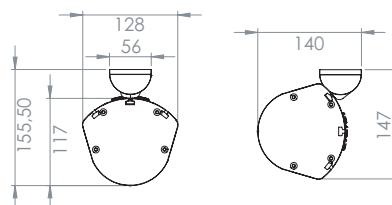
Technical Specifications

Mechanical drawing

Front views



Top views



Rigging



Technical Specifications

Acoustical data

Range +/- 3dB (nominal height)	15 m
Range +/- 5dB (nominal height)	20 m
Max SPL (pink noise)	92dB at 8m
Continuous power	150W
Frequency bandwidth (-10 dB)	120Hz- 18kHz
Horizontal opening angle (1 kHz)	180°
Loudspeaker	12x 2,5"

Mechanical data

Net weight	8,5 kg
Shipping weight	9,3 kg
Height	1115 mm
Width	128 mm
Depth	117 mm
Standard colors	White RAL 9016 Black RAL 9005
Material	Aluminium body, treated steel Rustproof and UV proof

Electrical data

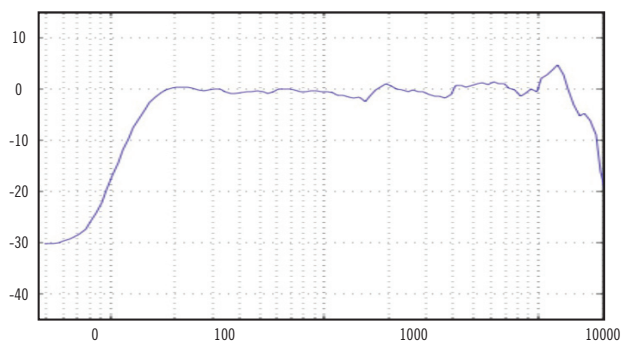
Impedance	8Ω, 400/200/100Ω
Max continuous power	150W, 25W/50W/100W
Connector	Lever quick connector with loop-thru
Wire section	from 0,5 to 2,5mm ²

Tuning and exploitation

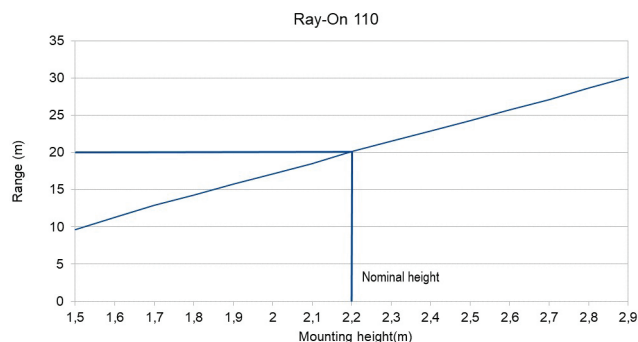
Recommended equalisation	Speech: 5 param Cells Music: 6 param Cells
Modeling	EASE/ CATT
Environnement	IP54 from -25°C to 55°C indoor & outdoor
Mounting	Vertical
Nominal mounting height	2,2 m (bottom of loudspeaker)

Frequency response

Ray-On 110 frequency response, with recommended equalisation.
Average from 2 to 15m axis.



The following graph shows the range of the column versus height of installation.



Ray-On+

R110+

DGRC Mono channel amplified Column Loudspeaker

Single-channel application of the patented DGRC technology (Digital & Geometric Radiation Control), the Ray-On column family comprises 3 models from 0.2 m to 2m in height equipped with a class D power amplifier. Thanks to DGRC technology, these models yield homogenous sound coverage and perfect speech intelligibility.

The elegant design of Ray-On loudspeakers with their finely perforated grid, the ability to dispose of all colors thanks to a paintable cast aluminium body, and the vertical installation of the columns inherent to the DGRC technology allow achieving optimal results in terms of aesthetics and integration.

Equipped with an analog input and a DANTE input on RJ45 connector, Ray-On + can easily be integrated into complex digital networks. The internal DSP of the enclosure provides an optimal frequency response.

The Ray-On+ column loudspeakers can be used indoors only, enabling them to meet the needs of sound systems in houses of worship, conference rooms, or shopping malls.

With a height of 110cm, the Ray-on R110+ column has a nominal range of 20m for a continuous power of 150W. Its characteristics are perfect for medium-range venues or in distributed sound reinforcement system in large spaces. Its nominal installation height of 2,2m allows a safety set up in public places.

With a similar height and characteristics Ray-on R110+ exists in low impedance or 70V/100V version under the reference Ray-on R110.



Max SPL: 92dB at 8m

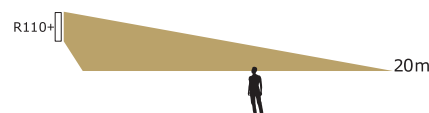
Bandwidth: 120Hz-18kHz

Continuous Power: 150W

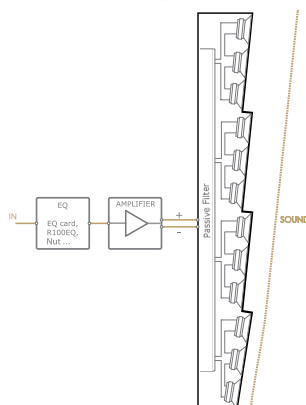
Dante™

Paintable

5 years warranty



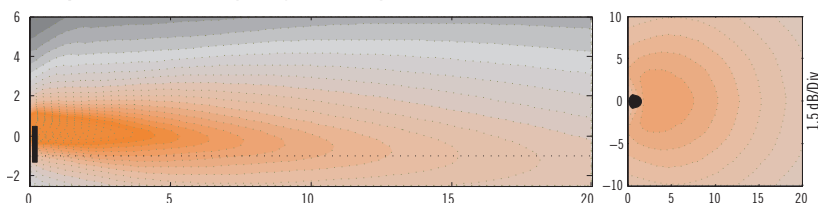
DGRC principle (Example for a 1m column)



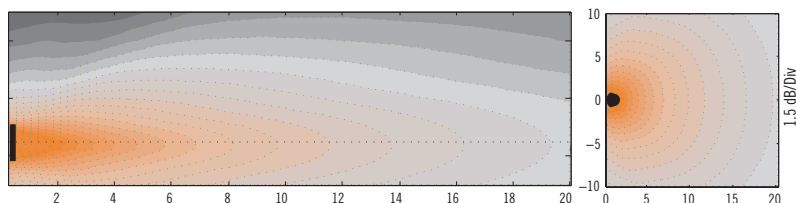
Ray-On is based on the DGRC principle: the internal loudspeaker inclination associated with the calculated height of installation allows to cover the audience area.

Hence Ray-On has to be mounted vertically. The range of Ray-On depends both of the Ray-On model and the height of installation.

Comparison of the homogeneity of coverage between a standard column and a DGRC column



Ray-on 100 horizontal and vertical directivity: Sound level for the speech band (500Hz-2000Hz) in the vertical median plane and on the audience area 80 cm below the column.



Standard 1m column vertical and horizontal directivity: sound level for the speech octaves (500Hz-1kHz-2kHz) in the vertical median plane.

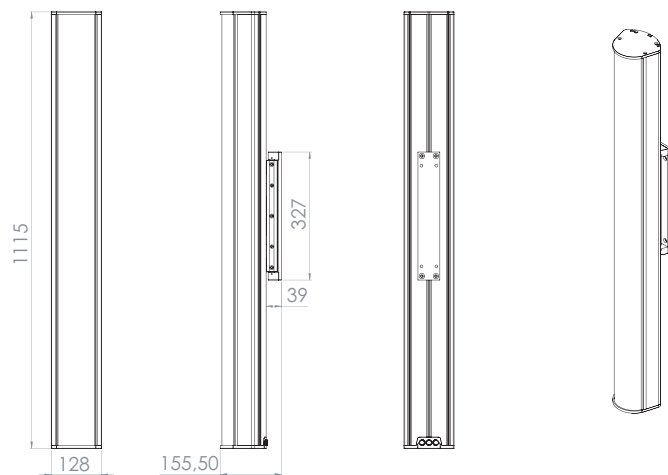
Active
audio

R110+

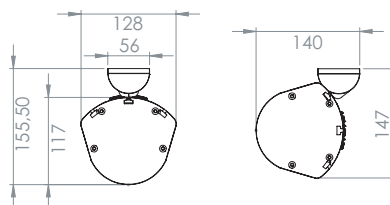
Technical Specifications

Mechanical drawing

Front views



Top views



Rigging



Technical Specifications

Acoustical data

Range +/- 3dB (nomial height)	15 m
Range +/- 5dB (nomial height)	20 m
Max SPL	92dB at 8m
Frequency bandwidth (-10 dB)	120Hz- 18kHz
Horizontal opening angle (1 kHz)	180°
Loudspeaker	12x 2,5"

Mechanical data

Net weight	10,1 kg
Shipping weight	10,9 kg
Height	1115 mm
Width	128 mm
Depth	117 mm
Standard colors	White RAL 9016 Black RAL 9005
Material	Aluminium body, treated steel Rustproof and UV proof

Electrical data

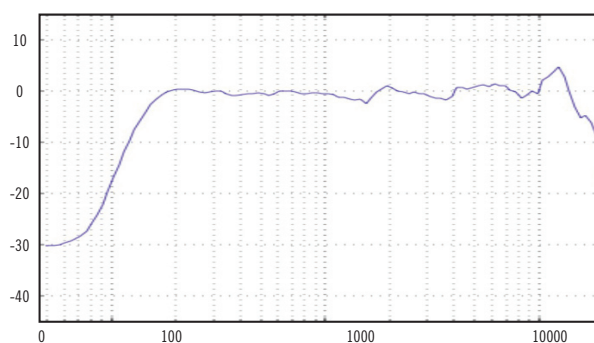
Amplifier	250W Class D
Power supply	90V-250V 50Hz-60Hz

Tunning and exploitation

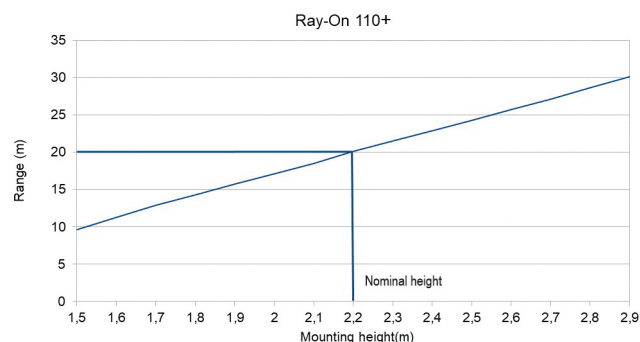
Equalisation	Optimal preprogrammed
Modeling	EASE/ CATT
Environnement	IP23 from -25°C to 55°C indoor
Mounting	Vertical
Nominal mounting height	2,2m (bottom of loudspeaker)

Frequency response

Ray-On 110+ frequency response, with recommended equalisation.
Average from 2 to 15m on axis.



Range of the column versus different height of installation.



Ray-On

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The elegant design of Ray-On loudspeakers with their finely perforated grid, the ability to dispose of all colors thanks to a paintable cast aluminium body, and the vertical installation of the columns inherent to the DGRC technology allow achieving optimal results in terms of aesthetics and integration.

Indoor or outdoor use, compliance with EN 54-24 standard, and wide choice of possible connectivity (8 Ω / 70V line / amplified) allow Ray-On column loudspeakers to meet the requirements of sound systems in houses of worship, conference rooms, airports, railway stations, shopping malls and recreational parks.

With a height of 210cm, the Ray-on R210 column has a nominal range of 42m for a continuous power of 300W. Its characteristics are perfect for sound reinforcement in large spaces. Its nominal installation height of 2,4m allows a safety set up in public places.

With a similar height and characteristics Ray-on R210 exists in amplified version with DANTE input under the reference Ray-on R210 +.



R210

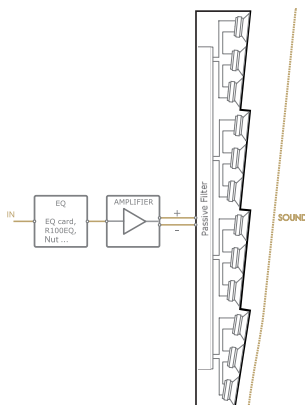
DGRC Mono channel Column Loudspeaker



Max SPL: 94,5dB at 16m
Impedance: Low Z & 100V modes
Bandwidth: 120Hz-19kHz
Continuous Power: 300W
IP54
Paintable
EN54-24
TYPE B
5 years warranty



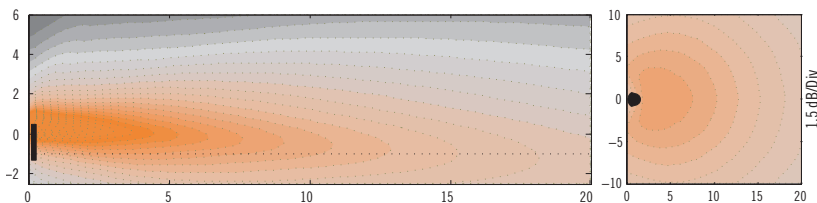
DGRC principle (Example for a 1m column)



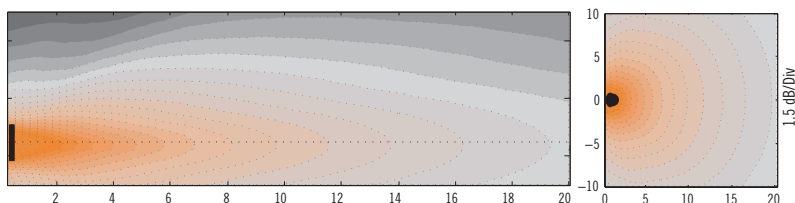
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Comparison of the homogeneity of coverage between a standard column and a DGRC column



Ray-on 100 horizontal and vertical directivity: Sound level for the speech band (500Hz-2000Hz) in the vertical median plane and on the audience area 80 cm below the column.



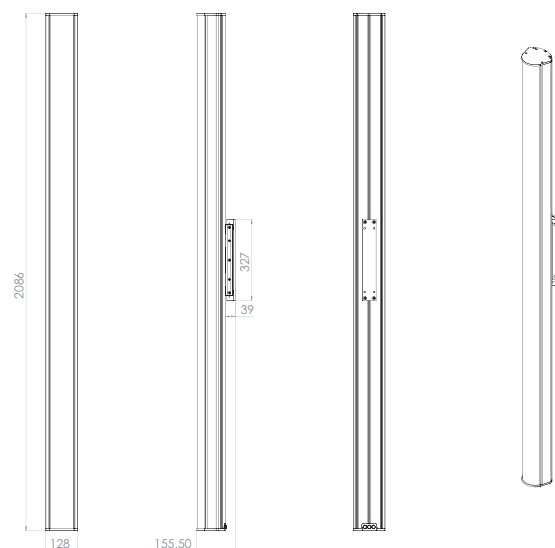
Standard 1m column vertical and horizontal directivity: sound level for the speech octaves (500Hz-1kHz-2kHz) in the vertical median plane.

R210

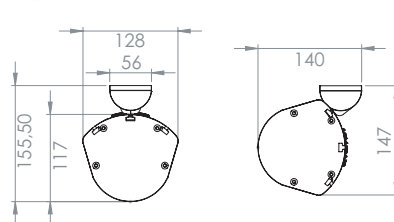
Technical Specifications

Mechanical drawing

Front views



Top views



Rigging



Technical Specifications

Acoustical data

Range +/- 3dB (nominal height)	31 m
Range +/- 5dB (nominal height)	42 m
Max SPL (pink noise)	94,5dB at 16m
Continuous power	300W
Frequency bandwidth (-10 dB)	120Hz- 18kHz
Horizontal opening angle (1 kHz)	180°
Loudspeaker	24x 2,5"

Mechanical data

Net weight	16,2 kg
Shipping weight	17,8 kg
Height	1977 mm
Width	128 mm
Depth	117 mm
Standard colors	White RAL 9016 Black RAL 9005
Material	Aluminium body, treated steel Rustproof and UV proof

Electrical data

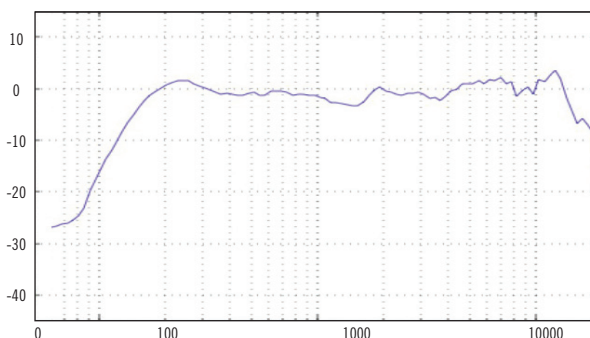
Impedance	8Ω, 400/200/100/50Ω
Max continuous power	300W, 25W/50W/100W/200W
Connector	Lever quick connector with loop-thru
Wire section	from 0,5 to 2,5mm²

Tuning and exploitation

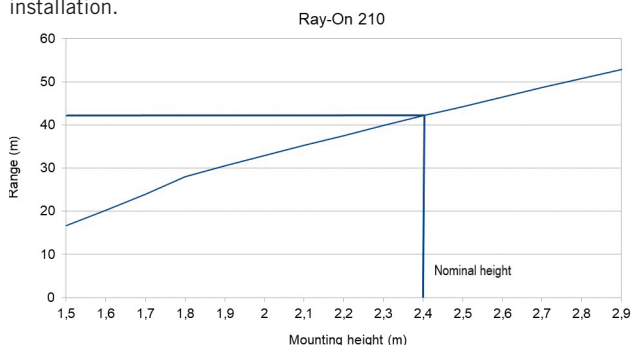
Recommended equalisation	Speech: 5 param Cells Music: 6 param Cells
Modeling	EASE/ CATT
Environnement	IP54 from -25°C to 55°C indoor & outdoor
Mounting	Vertical
Nominal mounting height	2,4 m (bottom of loudspeaker)

Frequency response

Ray-On 210 frequency response, with recommended equalisation.
Average from 2 to 30m axis.



The following graph shows the range of the column versus height of installation.



Ray-On+

R210+

DGRC Mono channel amplified Column Loudspeaker

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With a similar height and characteristics Ray-on R210+ exists in low impedance or 70V/100V version under the reference Ray-on R210.



Max SPL: 94,5dB at 16m

Bandwidth: 120Hz-18kHz

Continuous Power: 300W

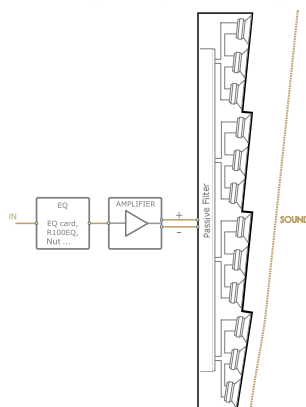
Dante™

Paintable

5 years warranty



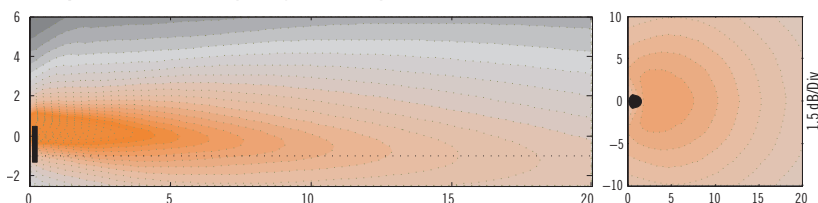
DGRC principle (Example for a 1m column)



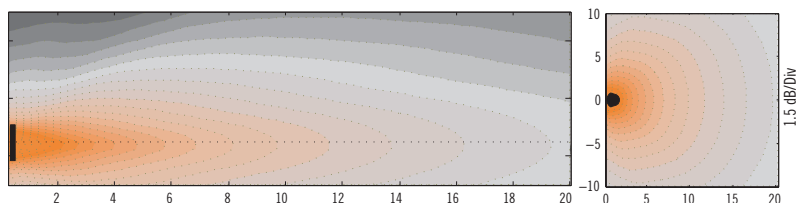
Ray-On is based on the DGRC principle: the internal loudspeaker inclination associated with the calculated height of installation allows to cover the audience area.

Hence Ray-On has to be mounted vertically. The range of Ray-On depends both of the Ray-On model and the height of installation.

Comparison of the homogeneity of coverage between a standard column and a DGRC column



Ray-on 100 horizontal and vertical directivity: Sound level for the speech band (500Hz-2000Hz) in the vertical median plane and on the audience area 80 cm below the column.



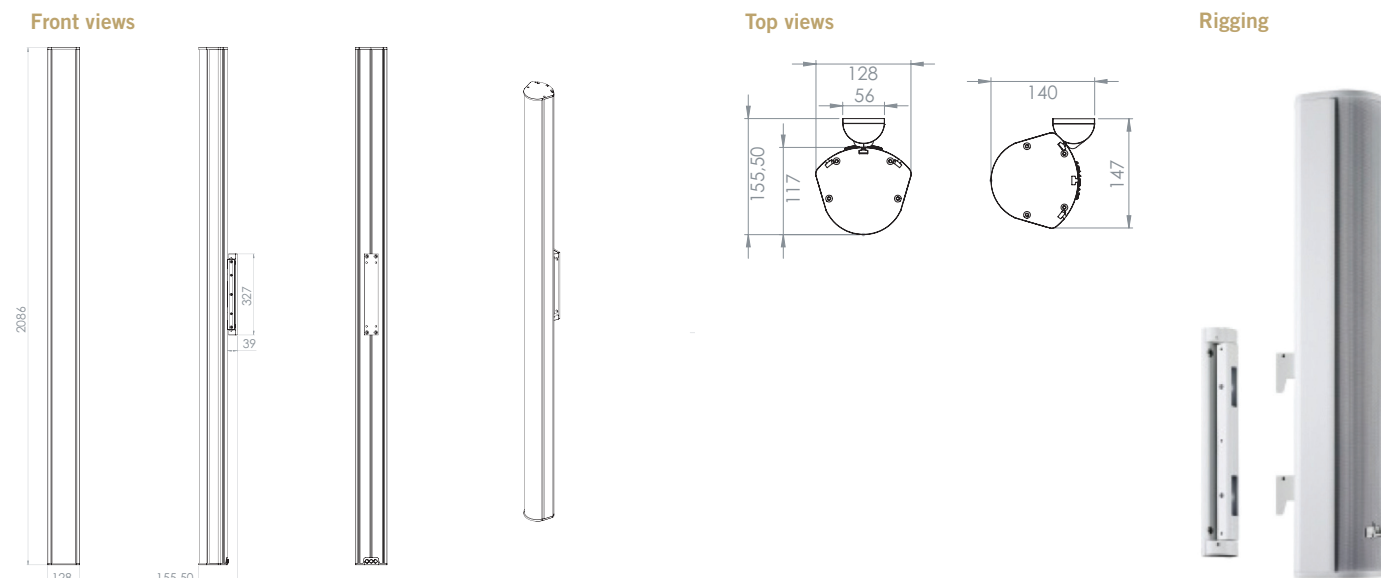
Standard 1m column vertical and horizontal directivity: sound level for the speech octaves (500Hz-1kHz-2kHz) in the vertical median plane.

Active
audio

R210+

Technical Specifications

Mechanical drawing



Technical Specifications

Acoustical data

Range +/- 3dB (nomial height)	31 m
Range +/- 5dB (nomial height)	42 m
Max SPL	94,5dB at 16m
Frequency bandwidth (-10 dB)	120HZ-19kHz
Horizontal opening angle (1 kHz)	180°
Loudspeaker	24x 2,5"

Mechanical data

Net weight	18 kg
Shipping weight	19,6 kg
Height	2086 mm
Width	128 mm
Depth	117 mm
Standard colors	White RAL 9016 Black RAL 9005
Material	Aluminium body, treated steel Rustproof and UV proof

Electrical data

Amplifier	500W Class D
Power supply	90V-250V 50Hz-60Hz

Tunning and exploitation

Equalisation	Optimal preprogrammed
Modeling	EASE/ CATT
Environnement	IP23 from -25°C to 55°C indoor
Mounting	Vertical
Nominal mounting height	2,4 m (bottom of loudspeaker)

Frequency response

Ray-On 210+ frequency response, with recommended equalisation. Average from 2 to 30m on axis.

Range of the column versus different height of installation.

