RMini

Point Source Loudspeaker

The Ray-On range includes four passive column loudspeakers of 0,2 to 2 meters in height, based on the patented DGRC principle. This innovation provides a homogeneous sound coverage and perfect speech intelligibility over the entire audience area.

The elegant design of the columns, with their finely perforated grid, yields optimum results in terms of integration and aesthetics. Being vertically mounted, and no tilted off the walls, the Ray-On columns remains extremely discrete.

With only 192mm in height, Ray-On Mini is the perfect companion for the other columns in the Ray-On range and designed to complement the R200, R100 and R60 in smaller spaces.

As with all Active Audio public address speakers, we focused on intelligibility, elegance and ease of installation. Ray-On Rmini is available in Black or White and can be painted any colour.

Like every column of the Ray-On range, Ray-On Mini can be switched between a low impedance mode and a 70V/100V mode and can be used indoor and outdoor.

Ray-On Mini is available in EN 54-24 certified version.





Max SPL: 97dB at 1m Impedance : Low Z & 100V modes Bandwidth: 120Hz-18kHz Continuous Power: 30W IP54 Paintable EN54-24 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.





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RMini Technical Specifications

Mechanical drawing

Front views







Top views



Technicals Specifications

Acoustical data	Ac	ous	sti	cal	d	a	ta
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Material

Range +/- 3dB (nominal height)	3,2m
Range +/- 5dB (nominal height)	5m
Max SPL (pink noise)	97dB at 1m
Continuous power	30W
Frequency bandwidth (-10 dB)	120Hz- 18kHz
Horizontal opening angle (1 kHz)	180°
Loudspeaker	2x 2,5"
Mechanical data	
Net weight	2 kg
Shipping weight	2.7 kg
Height	192 mm
Width	128 mm
Depth	117 mm
Standard colors	White RAL 9016 Black RAL 9005

Electrical data

Impedance	6Ω, 1333/667/333Ω
Max continuous power	30W, 7,5W/15W/30W
Connector	Ceramic terminal block, screw Loop-through
Wire section	from 0,5 to 2,5mm²
Tunning and expoitation	
Recommended equalisation	Speech : 5 param Cells Music : 6 param Cells
Modeling	EASE and CATT
Environnement	IP 54 from -25°C to 55°C indoor & outdoor
Mounting	Vertical
Nominal mounting height	1,9m

Frequency response

Ray-On Mini $\,$ frequency response, with recommended equalisation. Average from 2 to 5m axis.



02 - 44806 Saint-Herblain Cedex Fran



Aluminum body, treated steel

Rustproof and UV proof

B70TC

Single channel sound bar



Based on the expertise of Active Audio in the field of directivity control by loudspeakers arrays, the Ray-On B70TC sound bar focuses on the directivity control of loudspeaker alignments on the horizontal plane.

The elegant design and the finesse of the B70TC enclosure combined with its horizontal laying mode allow to obtain an easy and aesthetic integration.

B70TC is designed for the sound reinforcement of longilineal spaces such as corridors, shopping alleys, railway plateforms, subway stations, meeting rooms.

The directivity of the B70TC provides excellent intelligibility, even in reverberant and noisy spaces.

It also allows to limit the noise pollution on the adjacent areas: neighbourhood of station docks, shops in a shopping arcade, screens in a museum, Visio-Conferences spaces in an open-space offices...

The ray-on B70TC operates in 8 Ω and 70/100V mode, and is certified EN54-24.

Max SPL: 97dB at 2m Advantage of B70: Optimised horizontal coverage Bandwidth: 120Hz-18kHz Continuous Power: 75W IP54 Paintable EN54-24 TYPEE 5 years warranty

Advantage of B70: Optimised horizontal coverage



Direct sound at 1kHz on a 10m wide path with Ray-on B70 spaced by 10m, installation height 5, 5m: attenuation -10dB at the edges.



Direct sound at 1kHz obtained with 6" ceiling loudspeakers spaced by 5m, installation height 5,5m: attenuation of-3dB on the edges.



R7OTC Technical Specifications

Mechanical drawing

Front views



Top views



Technicals Specifications

Acoustical data

28

Opening angle 500Hz-2kHz (at -6dB):	
Longitudinal plan	40°
Transverse plan	180°
SPL max	97dB at 2m
Bandwidth (à -10dB)	120Hz - 18kHz
Drivers	7 x 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	666/333/167 Ω
Continuous power	75W	16W/36W/72W
Connector	Lever quick connector with loop-thru	
Wiring	2 wires, from 0,5 to 2,5mm ²	
Tunning and exploitation		
Recommanded equalisation	5 paran	n Cells
Modeling	EASE et CATT-Acoustic™	
Environnement	IP54 from -25°C to 55°C indoor & outdoor	
Certification	Compat	ible EN54-24 type B
Mounting	Surface mount or hanged	

Frequency response

 $\mathsf{B70}$ frequency response with recommended equalisation at $\mathsf{2m}$ on axis.





B70TC_06-2019

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R70

Mono channel Column Loudspeaker

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+.





Max SPL: 91dB at 5m Impedance: Low Z & 100V modes Bandwidth: 120Hz-18kHz Continuous Power: 75W IP54 Paintable EN54-24 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

R70 Technical Specifications

Mechanical drawing



Technicals Specifications

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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

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



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
Tunning and exploitation	
Recommanded 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.



R70_05-2019

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R70+

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 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.





Max SPL: 91dB at 5m Bandwidth: 120Hz-17kHz Continuous Power: 75W Donte Paintable 5 years warranty R70+

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.

12 m

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

R70+ Technical Specifications

Mechanical drawing



Technicals Specifications

Acoustical data	ta
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Material

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

Range of the column versus different height of installation.



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.



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Aluminum body, treated steel

Rustproof and UV proof

R70+_05-2019

R110

DGRC Mono channel Column Loudspeaker

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 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 +.





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.



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

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

R110 Technical Specifications

Mechanical drawing



Technicals 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

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



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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 2,5mm²
Tunning and exploitation	
Recommanded 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.





R110_05-2019

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.





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

R110+ Technical Specifications

Mechanical drawing



Technicals 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

Range of the column versus different height of installation.



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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

F

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





R110+_05-2019

R210

DGRC Mono channel Column Loudspeaker

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 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 +.





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

R210 Technical Specifications

Mechanical drawing



Top views

Rigging



Technicals 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

The following graph shows the range of the column versus height of installation. $$_{\mbox{Ray-On 210}}$$



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 2,5mm ²
Tunning and exploitation	
Recommanded 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)

140

Frequency response

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





R210+

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 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 low impedance or 70V/100V version under the reference Ray-on R210.





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

R210+ Technical Specifications

Mechanical drawing



Technicals 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

Range of the column versus different height of installation.



Top views

155,50

140

Rigging



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.





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