

Ray-On PoE

R110PoE

Network powered single channel column loudspeaker

Ray-On PoE serie allows to the patented DGRC (Digital and Geometric Radiation Control) technology to be easily integrated in smart buildings. This innovation yield homogenous sound coverage and perfect 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.

The integrated 60W PoE+ amplifier module allows to power and put audio signal in the column with a single CAT6 cable. Ray-On PoE can be installed close to any RJ45 socket connected to a network switch with a PoE+ port.

Equipped with an AES67 compatible DANTE input on RJ45 connector, Ray-On PoE is designed to be integrated into complex digital networks.

The internal DSP of the enclosure provides a DANTE input and an optimal frequency response.

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

With a height of 110cm, the Ray-on R110PoE column has a nominal range of 20m for a continuous power of 60W. Its characteristics are perfect for medium-range venues or in distributed sound reinforcement system. Its nominal installation height of 2,2m allows a safety set up in public places.

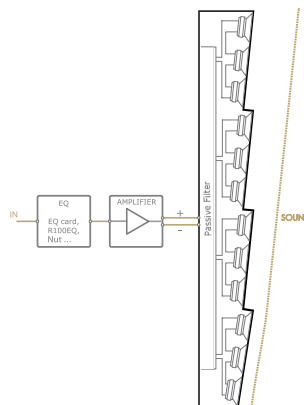
With a similar height Ray-On R110PoE exists in 150W self amplified version under the reference Ray-On 110+ and in low impedance or 70V/100V version under the reference Ray-on R110.



- Max SPL: 89dB at 8m
- Bandwidth (-10dB) : 120Hz-18kHz
- Continuous Output Power: 60W
- Dante™ / AES67
- Paintable
- 5 years warranty



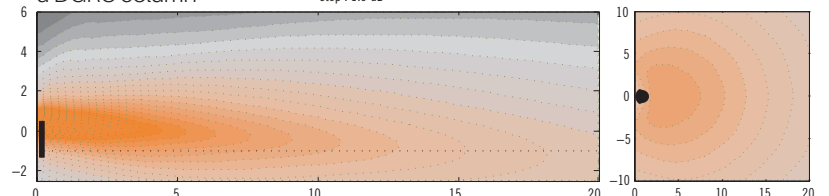
DGRC principle (Example for a 1m column)



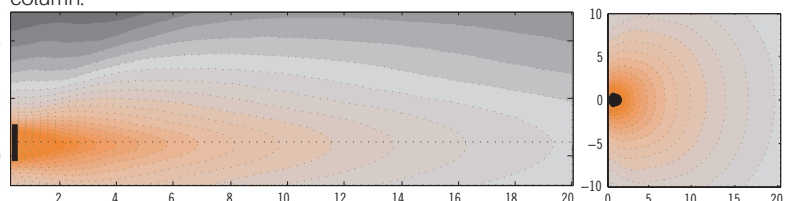
Ray-On is based on the DGRC principle: the internal loudspeaker inclination associated with the calculated height of installation allows to cover the audience area.

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 110 horizontal and vertical directivity. Sound level for the speech band (500Hz to 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 to 2kHz) in the vertical median plane.

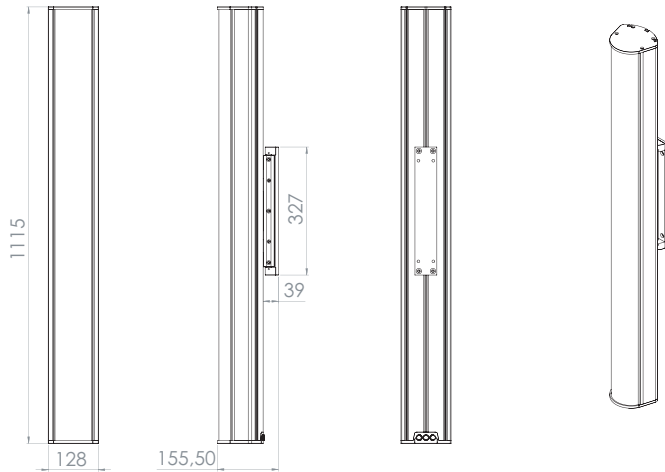


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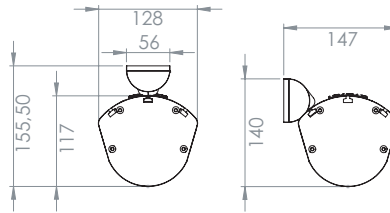
Technical Specifications

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	89dB at 8m (107dB at 1m)*
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

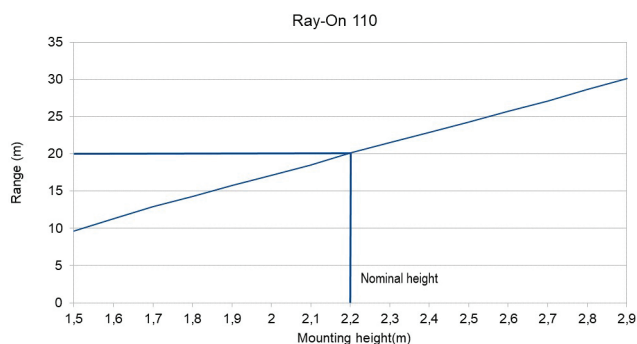
Power input	PoE+ (30W), 802.3af/at compatibility
Output Power	60W
Connector	RJ 45

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)

*Estimated sound level based on a 6dB decreased by doubling distance from the measure pressure level at 8m.

Range of the column versus different height of installation.



Frequency response

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

