

Ray-On

R70TC

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.

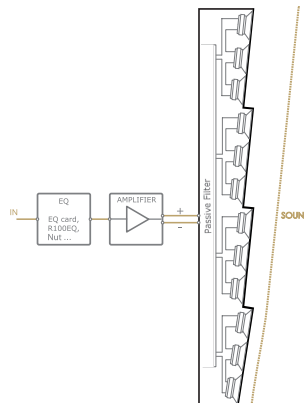
With a similar height and characteristics Ray-on R70 exists in amplified version with DANTE input under the reference Ray-on R70+.



- Max SPL: 91dB at 5m
- Impedance: Low Z & 100V modes
- Bandwidth: 120Hz-18kHz
- Continuous Power: 75W
- IP55
- Paintable
- EN54-24 TYPE B
- 5 years warranty

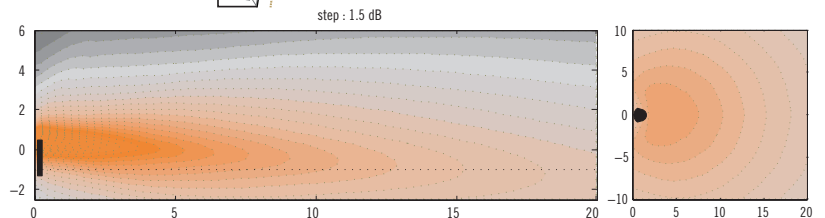


DGRC principle (Example for a 1m column)

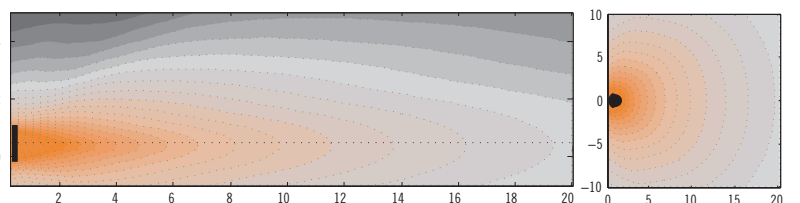


Ray-On is based on the DGRC principle: the internal loudspeaker inclination associated with the calculated height of installation allows to cover the audience area.

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.



Ray-On R110 vertical and horizontal directivity: sound level for the speech octaves (500Hz-1kHz-2kHz) in the vertical median plane and 80cm below the column.



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

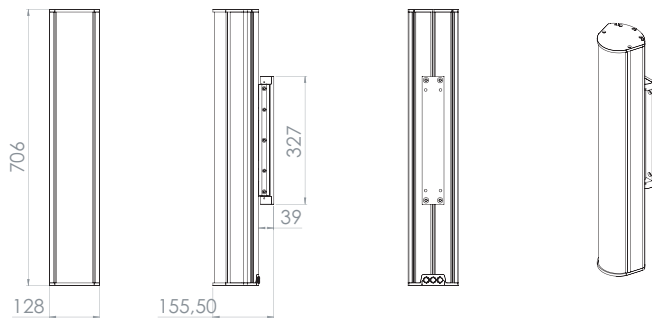


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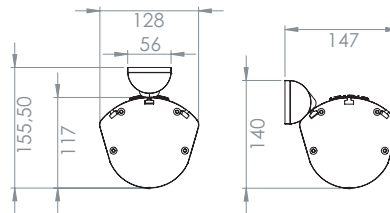
Technical Specifications

Mechanical drawing

Front views



Top views



Rigging



Technical Specifications

Acoustical data

Range +/- 3dB (nominal height)	6,5 m
Range +/- 5dB (nominal height)	12 m
Max SPL (pink noise)	91dB at 5m (105dB à 1m)*
Efficiency 1W/1m	87dB 1W/1m
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

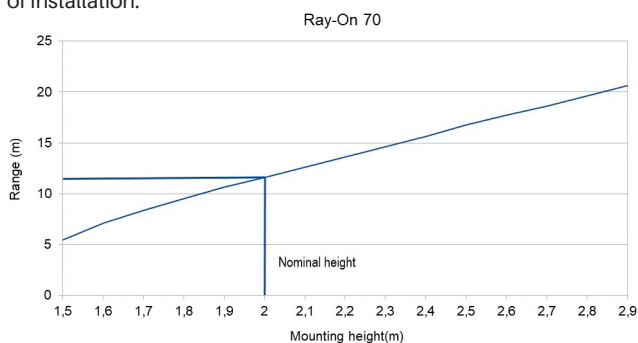
Impedance	8Ω, 556/278/139Ω
Max continuous power	75W, 18W/36W/72W
Connector	Lever quick connector with loop-thru
Wire section	from 0,5 to 2,5mm ²

Tuning and exploitation

Recommended equalisation	Speech: 5 param Cells Music: 6 param Cells
Modeling	EASE/ CATT
Environnement	IP55 from -25°C to 55°C / IK08 indoor & outdoor
Mounting	Vertical
Nominal mounting height	2,0 m (bottom of loudspeaker)

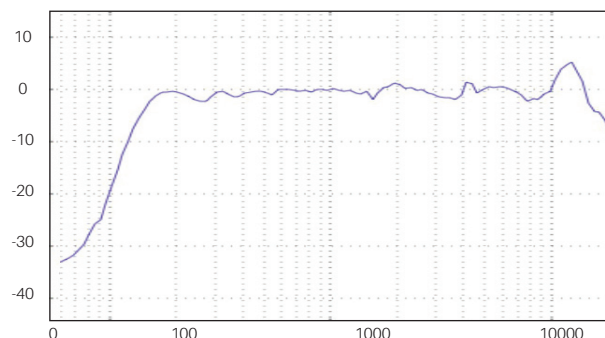
*Estimated sound level based on a 6dB decreased by doubling distance from the measure pressure level at 5m.

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

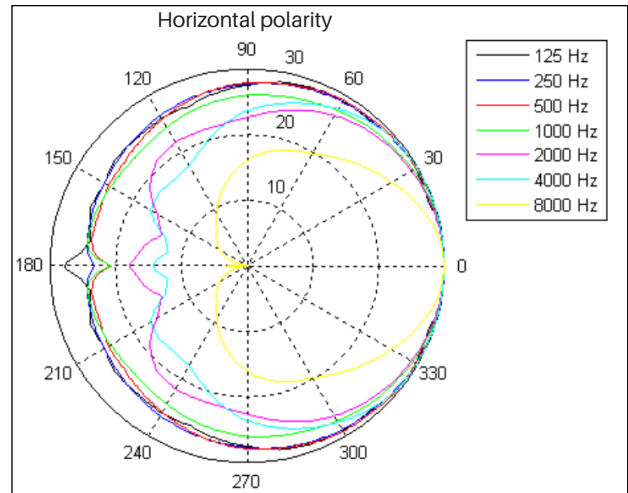
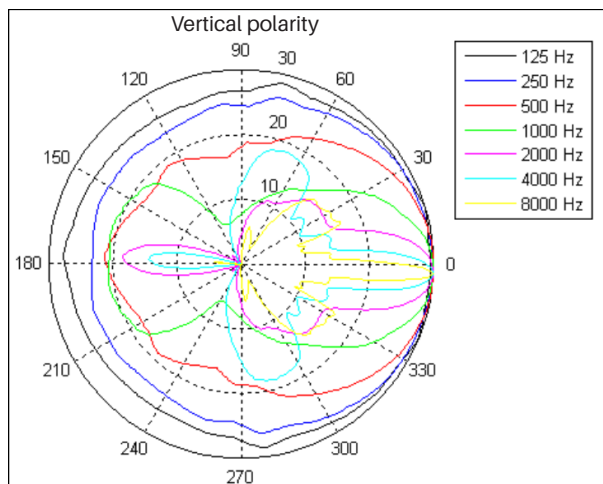


Frequency response

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



Polarity diagrams



Impedance curve

Impedance curve of R70.

