100 OD8

Product sheet

The 100 OD8 loudspeakers have reaped the rewards of Focal's expertise and deliver high quality sound playback in outdoor environments. Just like the other models in the 100 Series range, they contain Focal technologies with an Aluminum inverted dome tweeter and a Polyglass treated bass/mid-range speaker driver at the source of their acoustic performance. These loudspeakers have been designed for extreme weather conditions and have received IP66 certification, meaning they are highly resistant to bad weather. They have been manufactured around a high density polypropylene cabinet, with an Aluminum grille, and have a reinforced Aluminum bracket so it can be fixed securely either vertically or horizontally. Available in a ready-to-paint black or white finish, they have also had a UV protection treatment.



Finishes

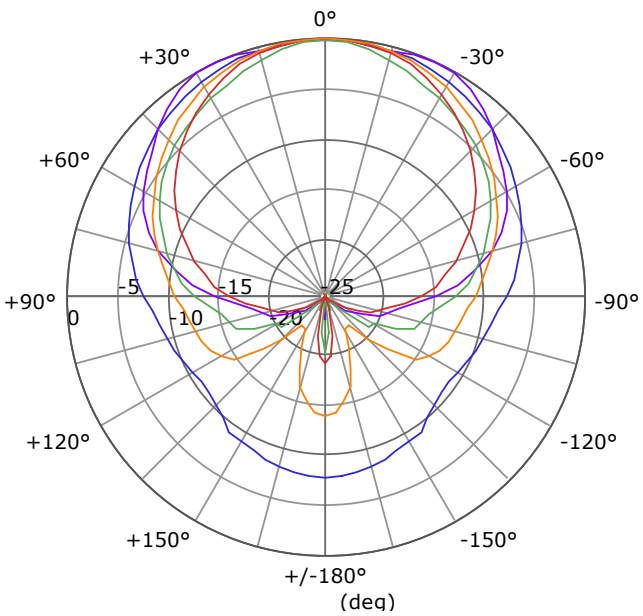
Key points

- Technical design, IP66 certified (water and dust)
- Ready-to-paint grille and cabinet
- 8 ohms impedance, possibility to connect 2 loudspeakers to the same amplifier output

Type	Outdoor loudspeaker
Speakers	Aluminum inverted dome tweeter 8" (210mm) waterproof woofer with Polyglass treatment
Sensitivity (2.83V/1m)	88dB
Frequency response (±3dB)	60Hz – 23kHz
Low frequency point (-6dB)	45Hz
Nominal impedance	8 Ω
Minimum impedance	6,7 Ω
Recommanded amplifier power	20 – 150W
Filtering frequencies	2,800Hz
Dimensions (L x P x H) with brackets	10.2 x 11 x 15.4" (258 x 280 x 390mm)
Net weight with brackets	12.6lbs (5.8kg)
Recommended settings for DSP-amplifiers:	
Recommended Limiter Threshold	30,4V RMS
Recommended Limiter Attack Time	0ms
Recommended Limiter Release Time	150ms
Recommanded High-pass filter	40Hz Linkwitz-Riley 12 dB/octave

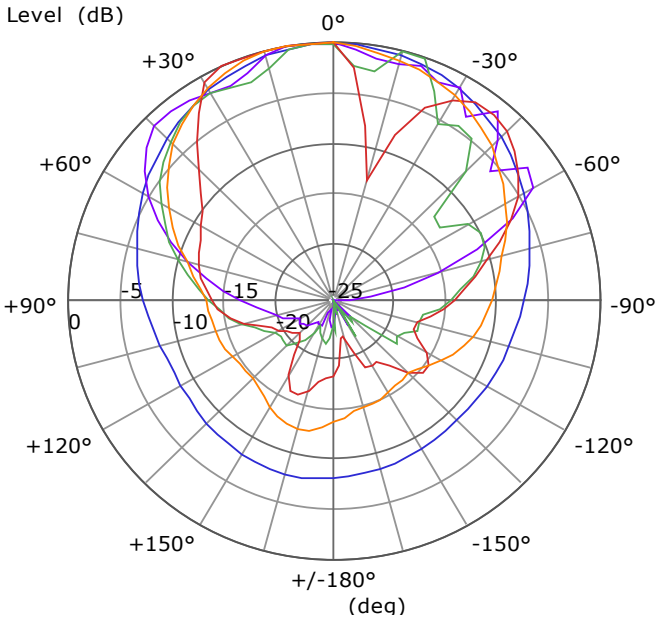
Measurements Directivity

Horizontal



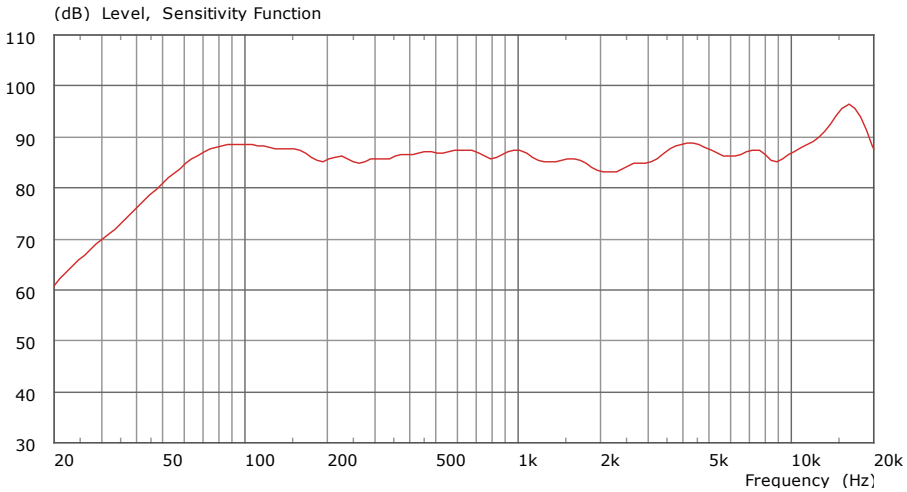
Curve at: 500 Hz
Curve at: 1 kHz
Curve at: 2 kHz
Curve at: 4 kHz
Curve at: 8 kHz

Vertical



Curve at: 500 Hz
Curve at: 1 kHz
Curve at: 2 kHz
Curve at: 4 kHz
Curve at: 8 kHz

Frequency Response



100 OD8 Speaker level Calculation Table

Nominal sensitivity	87dB

Power/Distance	1m	2m	5m
1 W (2.83V)	88dB	82dB	74dB
10 W (8.94V)	98dB	92dB	84dB
20 W (12.6V)	101dB	95dB	87dB
30 W (15.5V)	103dB	97dB	89dB

Summary	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
NPA (2.83V/1m)	88dB	85dB	87dB	87dB	84dB	89dB	87dB
Opening Angle at -6dB	360°	360°	160°	120°	100°	110°	130°