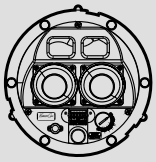
Starlet
ECLIPSE



KamoGa
Karaoke | Movie | Gaming

TECHNICAL DATASHEET ISSUE 11.2026

Product overview

Starlet Eclipse is the first karaoke in-ceiling speaker. Two 2" full-range drivers, each tilted 20°, are angled to land vocals and dialogue on the seating area, so a KamoGa system can sing, play films and fill a room with nothing on the walls.

With 40 W rated power (60 W peak), 90 dB sensitivity and a 210 Hz – 20 kHz response, Eclipse runs at 8 Ω with a KamoGa main module or on 70 V / 100 V lines, making it the natural choice for media rooms, yacht saloons, private suites and hospitality spaces.





With grille · grille off, showing the twin tilted drivers

Key features

Twin drivers tilted 20° – Two 2" full-range drivers sit at a 20° tilt inside the enclosure, aimed at the listening position or angled to bounce off the walls.

The first karaoke in-ceiling speaker – Voiced for vocals and dialogue, so singers and speech sound clear and present from a speaker you never see.

Vented enclosure – A 1.6 L back volume with twin bass-reflex ports tuned to 130 Hz, inside a steel back can.

8 Ω or 70 V / 100 V – Run it directly at 8 Ω, or on 70 V / 100 V distributed lines with 10, 20 and 40 W transformer taps for daisy-chained multi-zone systems.

Magnetic grille – The grille is held by retention magnets, in White or Black, for a clean, flush finish.

Fast, secure installation – A Ø160 mm cut-out, three captive dog screws for ceilings 13 – 38 mm thick, a 6-pole pluggable terminal block and a cable-entry knockout.

Part of a KamoGa system – Matched with the KamoGa main module and bass module, including the KamoGa 7.1 SE system, with no sound calibration needed after installation.

Architect & engineer specifications

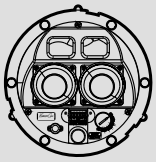
The loudspeaker shall be an in-ceiling loudspeaker with two 2" full-range drive units, each tilted 20°, in a vented enclosure with twin bass-reflex ports and a steel back can.

It shall have a frequency response of 210 Hz – 20 kHz (−3 dB), a sensitivity of 90 dB ±3 dB (1 W / 1 m), a rated power of 40 W (60 W peak) and a nominal impedance of 8 Ω with the transformer bypassed, with 70 V and 100 V transformer taps of 10, 20 and 40 W.

The outer diameter shall be 187 mm and the depth 113 mm, for a Ø160 mm cut-out in ceilings 13 – 38 mm thick, secured by three captive dog screws. The grille shall be magnetic, in white or black. Net weight shall not exceed 980 g.

The loudspeaker shall be the KamoGa Starlet Eclipse.

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Specifications

Model	Starlet Eclipse
Type	In-ceiling speaker, vented enclosure
Drive units	2 × 2" full range, tilted 20°
Nominal impedance	8 Ω, transformer bypassed (2 × 4 Ω drive units in series)
Frequency response (−3 dB)	210 Hz – 20 kHz
Frequency range (−10 dB)	189 Hz – 20 kHz
Sensitivity (1 W / 1 m)	90 dB ±3 dB
Rated / peak power	40 W / 60 W
70 V line taps	10 W, 20 W, 40 W
100 V line taps	10 W, 20 W, 40 W
Application	Daisy-chain multi-zone
Enclosure	Vented, twin bass-reflex ports tuned to 130 Hz, 1.6 L back volume, steel back can
Grille	Magnetic, White or Black
Dimensions	Ø187 × 113 mm
Cut-out	Ø160 mm
Ceiling thickness	13 – 38 mm
Mounting	Ceiling (3 captive dog screws) or suspended
Connection	6-pole pluggable terminal block, cable-entry knockout
Net weight	980 g per piece
Compatible systems	KamoGa 3.1, 5.1, 5.1 Wireless and 7.1 (7.1 SE)

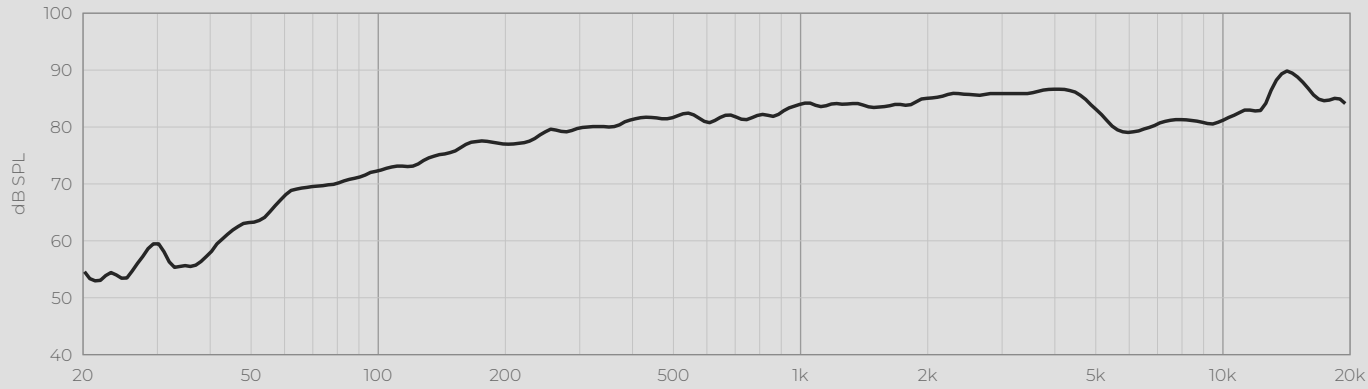
Drive unit (2 per speaker, data per driver)

Type	2" full range
Frame diameter / depth	57 mm / 35.9 mm
Nominal impedance	4 Ω
Resonance frequency (Fs)	119.7 Hz
DC resistance (Re)	3.59 Ω
Total Q (Qts)	0.30
Sensitivity (1 W / 1 m)	84.4 dB

Drive-unit data measured with a Klippel analyser (manufacturer's report, 2024).
KamoGa reserves the right, in line with continuing research and development, to amend or change specifications. E&OE.

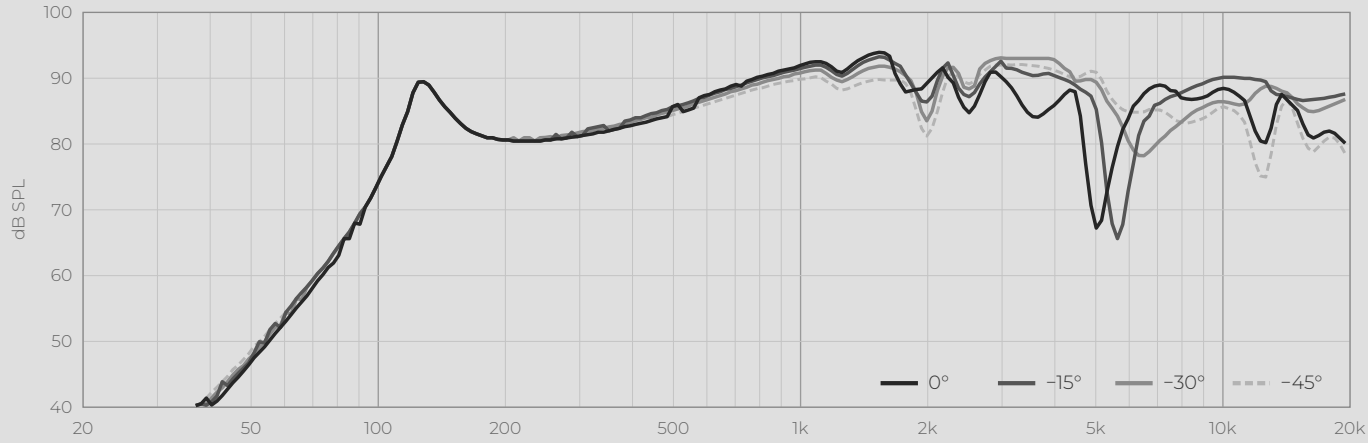
Measurements

Drive unit frequency response



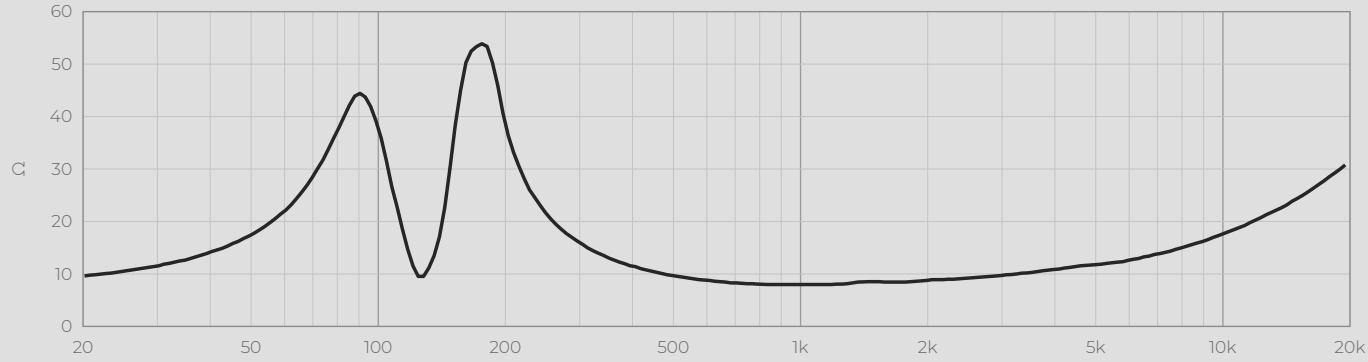
Measured · single drive unit · 2π baffle · 1 W / 1 m

Speaker frequency response, on and off axis



Simulated · complete speaker, free air · 1 W / 1 m · angles measured from the tilted driver axis

Impedance

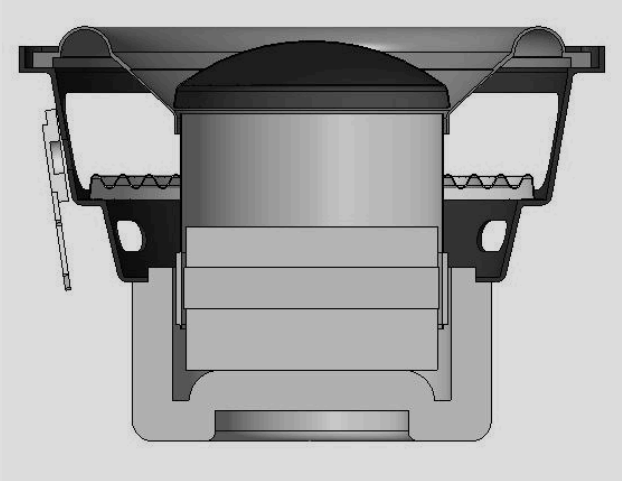


Simulated · complete speaker, two drive units in series, transformer bypassed · minimum 7.9 Ω

Drive unit (2 per speaker)

PARAMETER		VALUE
Fs	Resonance frequency	119.7 Hz
Re	DC resistance	3.59 Ω
Le	Voice coil inductance	0.122 mH
Mms	Moving mass	2.018 g
Cms	Compliance	0.877 mm/N
Bl	Force factor	4.165 T·m
Rms	Mechanical resistance	0.226 kg/s
Qms	Mechanical Q	6.714
Qes	Electrical Q	0.314
Qts	Total Q	0.30
Vas	Equivalent air volume	0.313 L
Sd	Effective piston area	15.89 cm²
SPL	Reference efficiency (Re)	84.36 dB

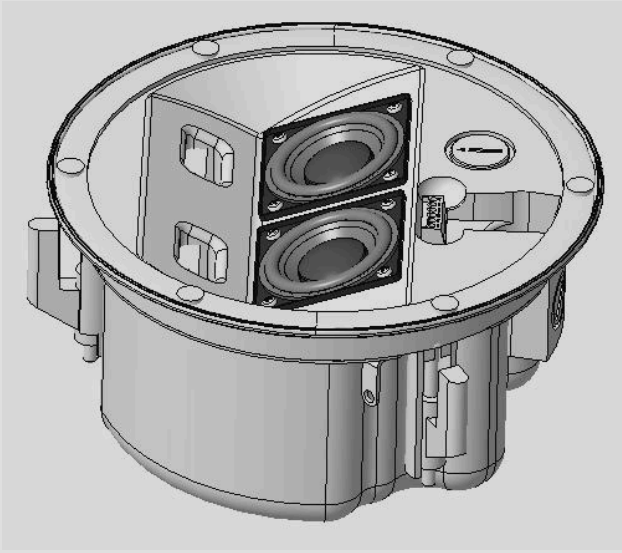
Thiele/Small parameters per drive unit, Klippel analyser



Drive-unit cross-section · 57 mm frame, 35.9 mm deep

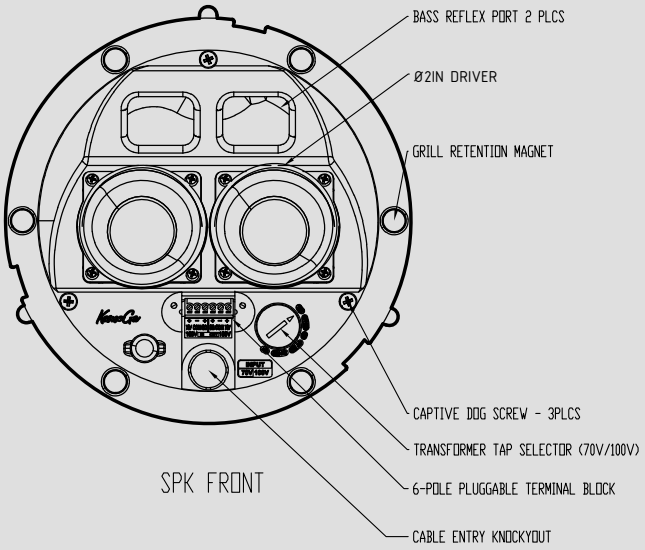
Enclosure

Drive units	2 × 2", tilted 20°, in series
Back volume	1.60 L (1.64 L with port tubes)
Bass-reflex ports	2, tuned to 130 Hz
Back can	Steel

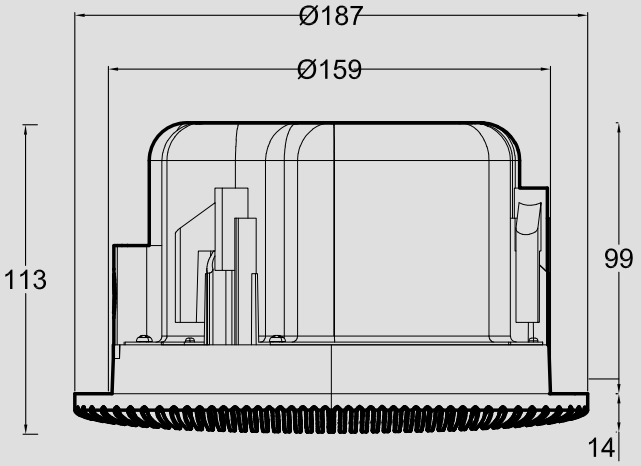


Enclosure with the twin tilted drivers

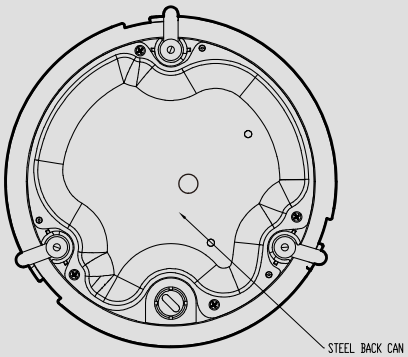
Mechanical diagrams



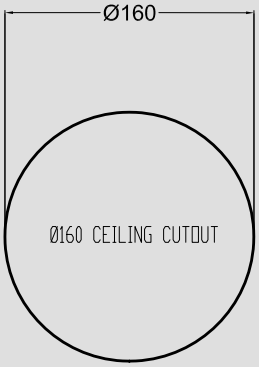
SPK FRONT

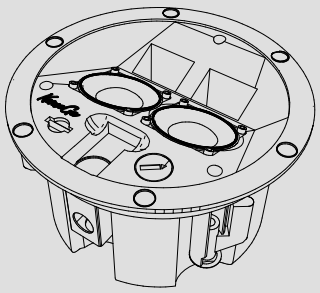


SPK SIDE



SPK REAR





ISOMETRIC VIEW (REF)

Dimensions in mm