Technical information

Micro Precision Z-Studio 170 M8 Bass - Midrange

Features :

Z-Studio 170 released in 05.2008.
It was the logical step after release „Z-Studio Tweeter“. The result is a perfect bass-midrange with **extreme** low distortion from 50-5.000 Hz. The result is a new dimension of detail and dynamic without compression.
From the beginning we followed the idea to have a removeable magnetsystem. The reason to have this possibility is, updating or upgrading the magnet-system without touching the precious membrane.
Membrane specially made for clearest midrange and bass. Membraneweight : 2.2 gramm only.
Surroundgeometry CAD constructed & produced for best linear movement and perfect 0-point.

Carefully assembled basket. 100% CNC produced.
No tolerances, no ringing. Brass dampingelements.
Maximized venting, effects coil and spider.

History :

Update 9.2011 : New surround geometry with less mechanical resistance.
Update 11.2013 : New spider, new voicecoil. Less mechanical resistance because of the new parts & geometry. QTC is now 0.7. New parameters on page 3.
Update 12.2015 : New magnet system. Internal triple shielding. Improved venting. New visual backside design.
Update 11.2019 : New basket construction.
Upgrade 02.2023 : New Membrane „M8“. New assembling technology. Wide frequency range extension.

Technical Data

Height total	79,2 mm	Surround	Rubber / Low-Loss
Outer Diameter	170,0 mm	Sensitivity	89 dB/W
Cutout Diameter	145,0 mm	Impedance	4 Ω
Interior Depth	72,2 mm	Power handling	70/150 W
Drillcircle	162,0 mm	Voicecoil	GF
		Voicecoil diameter	25 mm
		Membrane	M8
		Recommended Filter	HP 63 Hz/12dB
Weight	0,728 Kg / piece.	Updated :	2024-02

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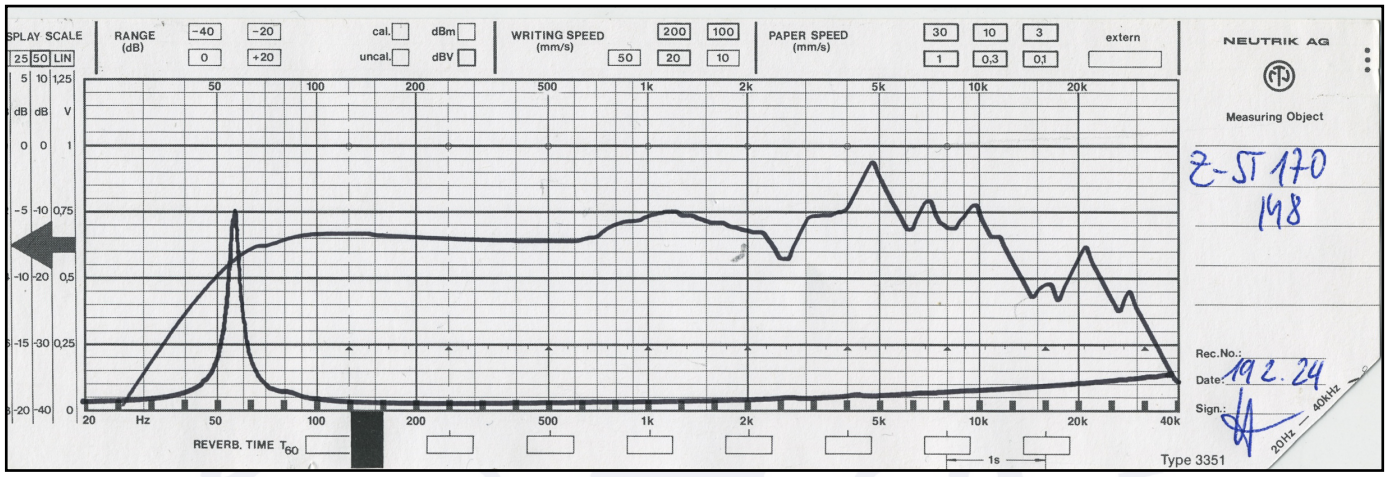

All measurements are made in open baffle.
A cabinet will change the response.

F_S	56,41 Hz	----	----
Q_{MS}	13,09	----	----
Q_{ES}	0,93	----	----
Q_{TS}	0,87	----	----
S_D	143,14 cm²	----	----
R_E	3,72 Ω	----	----
L_E	---- mH	----	----
R_2	---- Ω	----	----
L_2	---- mH	----	----
K_{rm}	0,0137	----	----
E_{rm}	0,4636	----	----
K_{xm}	0,0038	----	----
E_{xm}	0,6527	----	----
R_{MS}	0,25 Ns/m	----	----
C_{MS}	0,85 mm/N	----	----
M_{MS}	9,42 g	----	----
V_{AS}	24,56 l	----	----
Bl	3,65 Tm	----	----
η_o	0,45 %	----	----