Technical information

Micro Precision Z-Studio 170 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 :

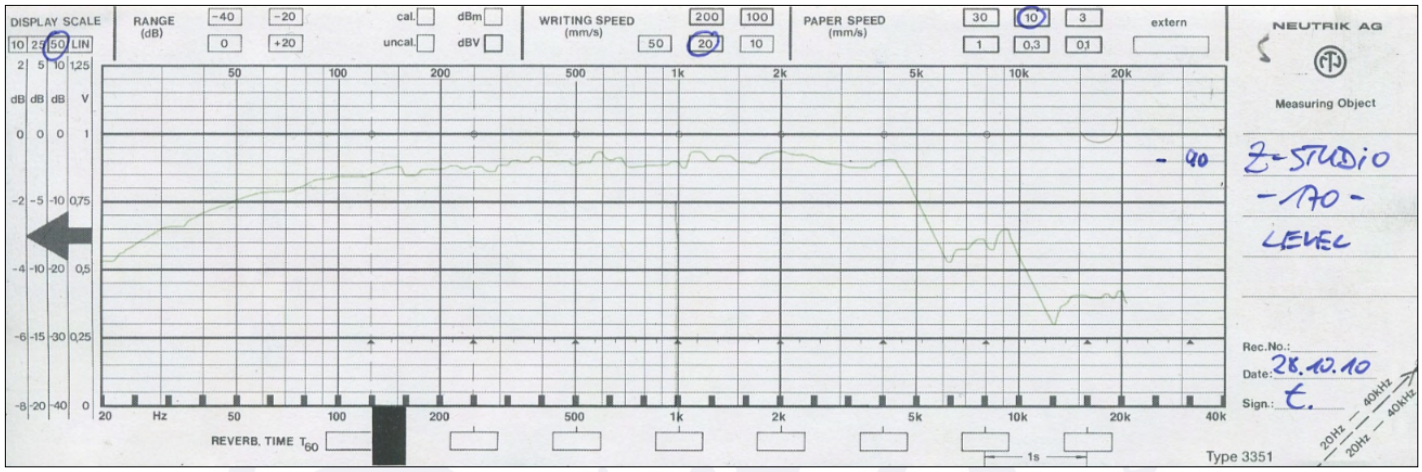
Update 9.2011 : New surround geometry with less mechanical resistance.
Update 11.2013 : New spider, new voicecoil. Less mechanical resistance because of the new parts & geometry. QTC is now 0.7. New parameters on page 3.
Update 12.2015 : New magnet system. Internal triple shielding. Improved venting. New visual backside design.
Update 11.2019 : New basket construction.

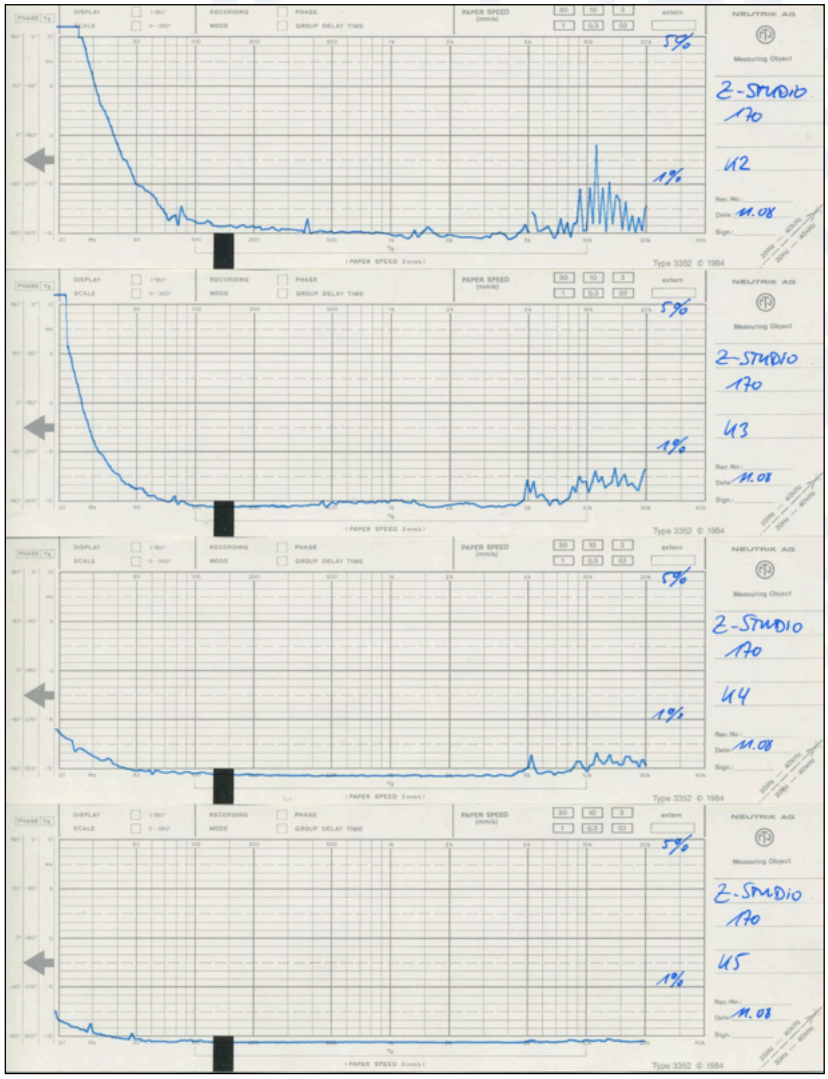
Technical Data

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	Z
		Recommended . Filter	HP 63 Hz/12dB
Weight	0,728 Kg / piece.	Updated :	11.2019

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

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< 09.2011

Measure	142/9	Unit
Re	4,7	Ω
Fs	35,91	Hz.
Qes	0,54	-
Qms	2,82	-
Qts	0,45	-
Le	0,4573	mH.
VAS	39,06	Liter
Mms	12,58	Gramm
Cms	1560	µM/Newton
Eff.	87	1W. / 1M.
Diam	130	mm.
Rms	1	R

> 09.2011-11.2013

Measure	MP	Unit
Re	4,8	Ω
Fs	41,81	Hz.
Qes	0,64	-
Qms	3,41	-
Qts	0,54	-
Le	0,419	mH.
VAS	36,16	Liter
Mms	10,98	Gramm
Cms	1319	µM/Newton
Eff.	**88**	1W. / 1M.
Diam	130	mm.
Rms	0,84	R

Measure	MP 11.2013	Unit
Re	4	Ω
Fs	49	Hz.
Qes	0,78	-
Qms	8,4	-
Qts	0,72	-
Le	0,31	mH.
VAS	26,3	Liter
Mms	9,81	Gramm
Cms	1053	µM/Newton
Eff.	**88**	1W. / 1M.
Diam	130	mm.
Rms	0,36	R

Liter	Q	f3
1	1,3	137
2	1,1	104
5 / **15**	0,87	80 / **67**
10 / **20**	0,7	72 / **63**
20 / **64**	0,6	72 / **62**
100	0,44	73
200	0,41	73
Vented	**D/L cm**	**f3**
47	7/20	31
20	5/27	47