

PRO 10 – High-end subwoofer by Gladen

Sound quality first



► The brand-new PRO line from Gladen belongs to the top segment, which is made clear very quickly also by the PRO 10. Damn close to the Aerospace high-end woofer one might say. We make the comparison.

Gladen having caused a sensation in the sector of loudspeaker systems with its Aerospace high-end line, it took quite a while until also an Aerospace sub-woofer was produced. It was not until last year that the Aerospace 10 appeared as the only representative - an uncompromising sound quality model 25, which excels thanks to its very best ingredients. Apparently the development department's engineers were still

in shape, because the new PRO line comes along with a sub-woofer right from the start. And it is suspiciously reminiscent of the Aerospace 10. This is above all due to the ravishingly beautiful die cast frame, which the PRO has inherited directly from Aerospace. This unique design was created by computer simulation and is characterized by an asymmetrical, flow-optimized design – definitely the most elaborate and high-end sub-woofer



Even details including spider and tinsel lead guiding are at their best in the PRO 10

frame on the market. Thus it stood to reason for the PRO not to reinvent the wheel and to treat the subwoofer to the high-end frame. But even the cone is at least related to the Aerospace cone, both of them sharing

the basic structure with a hard foam core in the thin paper sandwich. The PRO furthermore has received a mineral coating, which we will also find in other PRO speakers (this much can be already revealed). The voice coil diameter of 64 millimeters, as with the Aerospace, is within the ideal range for a sound-quality woofer. The mass which is moved is thus at a very light 106 grams, nota bene without saving any wire, for the linear stroke of the PRO 10 lies at a very good 15 millimeters approx., in each direction. The motor of the PRO, however, constitutes the essential difference to the Aerospace, because what we have here is ferrite. In fact, with a beautifully crafted piece of engineering with finely turned top plates and a smart, lasered back plate for a more beautiful look. For perfect functioning, the PRO is comprehensively ventilated and thus cooled. Apart from the pole piece perforation, a circle of holes has also been drilled into the work area of the voice coil, of course flow-optimized by chamfering to make it just immaculate. This much love for detail is reflected in a lab performance, which can be nothing but perfect. The parameters are blamelessly balanced so that the PRO 10 runs optimally in the closed box it is intended for. 30 liters are enough to work with exactly the textbook installation quality of .7; from 20 liters (Qtc .8) onwards, its use is possible. The resulting amplitude curve in our 31.5-liter box consequently is close to perfection.

Sound

Close to perfection, this also describes the sound quality the PRO 10 effortlessly yields. It feels like it performs at any desired depth, and is guaranteed to do so with official precision. The way it just perfectly reproduces individual bass beats even at the lower end will fill you with pure joy. There is even more pressure than enough thanks to the incre-



The ferrite motor is a perfect example of posh workmanship and real eye candy. In addition to the pole piece perforation, there is a circle of ventilation holes



dibly long stroke, even though the SPL fraction is certainly accustomed to something else. To the audiophile, however, the PRO 10 delivers exactly an optimum performance. Superbly dry beats, if it must be that way, but also somewhat fuller, if that is what it is like on the recording.

Conclusion

The Gladen PRO 10 catapults itself immediately into the top league of sound-quality subwoofers. Basically, it is in no way inferior to the Aerospace from the same house. The fact that there is no high-end neodymium drive, but „only“ ferrite, can be easily overlooked in view of the price difference.

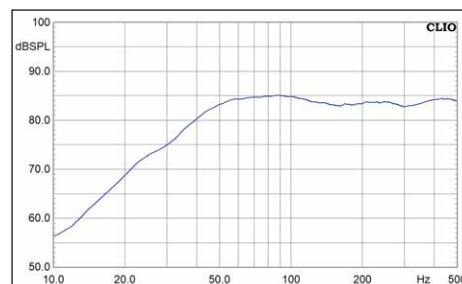
Elmar Michels



The frame with its asymmetric, flow-optimized spokes comes from Aerospace



Around the voice coil with ample stroke reserves, there is also a lot of free space



It could not be much better: the closed PRO 10 runs very smoothly down to low bass notes

Gladen PRO 10

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Sound	50 %	0,8	■■■■■■■
Low frequency extension	12,5 %	0,5	■■■■■■■
Sound pressure	12,5 %	1,5	■■■■■■■
Sound purity	12,5 %	0,5	■■■■■■■
Dynamics	12,5 %	0,5	■■■■■■■

Lab	30 %	2,0	■■■■■■■
Frequency response	10 %	1,0	■■■■■■■
Efficiency	10 %	3,0	■■■■■■■
Max. SPL	10 %	2,0	■■■■■■■

Verarbeitung	20 %	1,0	■■■■■■■
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Specifications

Basket diameter	27,9 cm
Mounting diameter	23,5 cm
Mounting depth	14,2 cm
Magnet diameter	15,5 cm
Weight	6,8 kg

Nominal impedance	4 Ohm
DC resistance Rdc	3,38 Ohm
Coil inductivity Le	1,21 mH
Coil diameter	64 mm
Membrane surface	350 cm ²
Resonance frequency fs	29,1 Hz
Mechanical Q-Factor Qms	6,89
Electrical Q-factor Qes	0,47
Overall Q-factor Qts	0,44
Equivalent volume Vas	48,1 l
Moved mass Mms	106,3 g
Rms	2,82 kg/s
Cms	0,28 mm/N
B x l	11,81 Tm
SPL 1W, 1m	85 dB

Recommended power	300 – 800 W
Test cabinet	g 31,5 l
Reflex tunnel (d x l)	-

Rating

Price	600 Euro
Sound	50 % 1+ ■■■■■■
Lab	30 % 2,0 ■■■■■■
Build quality	20 % 1,0 ■■■■■■

Gladen PRO 10

Absolute Top Class

Top Class
 Upper Class
 Middle Class
 Entry Class

1,2

Price Performance:
 very good

CAR & HiFi

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„Sound-Quality Woofer for the demanding.“