

Eton RES 10 AR: Active subwoofer for the spare wheel well



Finest ingredients

► Spare wheel woofers have a long tradition at Eton and are well proven in our test center. Therefore it is exciting that Eton has brought out a new woofer, the RES 10 AR.



The ferrite driver completely disappears in the basket

It looks like a typical Eton unit: octagonal wooden enclosure, top class build quality and even a little bit beautiful. Our new test candidate goes by the name RES 10 AR and differs only by the R from the familiar and proven RES 10 A. The R stands for reinforced, and the AR is tremendously powerful, as we shall see. Eton has really put a lot of effort into the new version, instead of just working on cosmetic improvements. The AR is a completely new woofer, new subwoofer driver, new amplifier module and new enclosure. Everything has been rethought and improved. The components are old and new friends, both with top results and performance. The new is the star and as driver a key component. The RES 10 AR here employs the just recently presented active module AM 500. This compact device really has it all. At 470 to 480 watts it offers the same power into 2 and 4 ohms, and that lies at the top end of the market. The module is superbly equipped for this purpose. It offers the best connectivity to all vehicle equipment, and the input sensitivity can also be adjusted for factory amplifiers. Three input impedances enable the Eton device to work with vehicles of all brands. Level remote control, Auto turn-on, louds-



Rubber buffers fit under the flat woofer so that it sits firmly in the enclosure

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peaker identification and the full range of filters speaks for themselves. The installed woofer is a good friend out of Eton's flat woofer range; in the RES 10 AR the PW 10 flat ensures adequate bass and an enclosure height of just 15 cm. The ten-incher has a specially formed paper cone and its driver is integrated into the basket. It is a really good resilient woofer, and like the module is available separately. The 2 x 2 ohm dual voice coil is connected here in series – as already mentioned, it doesn't matter to the module whether it's 2 or as here 4 ohms. Turning to the enclosure, Eton has really gone to town. The MDF construction coated with impact resistant paint is pure enclosure porn! At the bottom is a foam rubber mat and chamfered edges, a widened spigot mount for fastening, recessed handles, laser-cut grille and everything milled, including the Eton logo. The milling machine was in constant use: inside, there are around 10 stiffening slats, which are of course milled into the floor. It's not just reinforced, the part is ultrastable.

Measurements and Sound

In contrast to the predecessor, Eton relies on the bass reflex principle. The reason is obvious: they want to give the RES 10 AR more bass response. That this has been quite successful has also been detected by our measurement microphone with a cut-off frequency of around 30 Hz – not bad for a 10 inch woofer. The low pass filters and a suitably placed bass boost work perfectly. The subsonic filter can be switched on at 30 Hz and has virtually no effect on the bass response of the woofer, but



The enclosure is a pure milling frenzy. The impact resistant paint in subtle gray protects it in rough everyday use:

BEST PRODUCT
Top-Class
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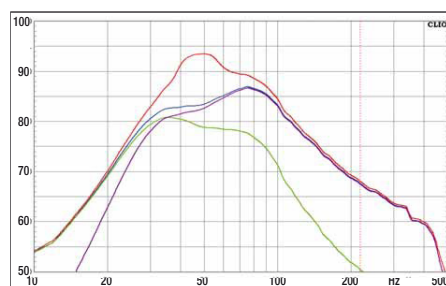
improves performance and therefore is recommended. In the vehicle the RES 10 AR fully satisfies our level requirements. In contrast to a mini woofer, the RES 10 AR produces full-bodied bass and is loud enough for home use, at least. As expected, there is enough bass response even for bass-heavy music. There is really nothing to criticize. The compact 10-incher always plays precisely and can be perfectly controlled – everything is fine!

Summary

With the RES 10 AR Eton has achieved a masterwork, which will certainly hold its own. In this case the finest ingredients also sum up to make a great subwoofer.



The AM 500 module is among the strongest in the market with excellent features.



The RES 10 AR behaves perfectly in front of the microphone. Bass down to 30 Hz, perfectly matched subsonic and boost and a crossover that works superbly



Lots of stiffening slats and a widened spigot recess for the RES 10 AR:

Eton RES 10 AR

Price about 430 Euro
Distributor ACR, CH-5330 Zurzach
Hotline info@eton-caraudio.com
Internet www.eton-audio.com

Summary

Sound quality	30 %	1,0	■■■■■
Bass foundation	7,5 %	1,0	■■■■■
Pressure	7,5 %	1,0	■■■■■
Transparency	7,5 %	1,0	■■■■■
Dynamics	7,5 %	1,0	■■■■■
Lab	40 %	0,8	■■■■■
Frequency response	10 %	1,0	■■■■■
Max volume	10 %	1,0	■■■■■
Power	20 %	0,5	■■■■■
Practice	30 %	1,0	■■■■■
Features	10 %	0,5	■■■■■
Workmanship electr.	10 %	1,5	■■■■■
Workmanship mech.	10 %	1,0	■■■■■

Technical Data

Case width	55,0 cm
Case high	15,0 cm
Case high	55,0 cm
Type / volume	BR 20 l
Port (d x l)	40 cm ² x 22 cm
Weight	15,3 kg
Chassi diameter	25 cm
Nominal impedance	2 x 2 ohms
Coil diameter	50 mm
Power nominal	470 W
Sensitivity max mV	200 mV
Sensitivity min V	6,1 V
THD +N (<22kHz) 5W	0,02 %
THD +N (<22kHz) half load	0,02 %
Signal/Noise Ratio DB(A)	79 dB

Features

Lowpass	40 – 125 Hz
Bass-boost	0 – 12 dB/45 Hz
Subsonicfilter	fix 30 Hz
Phaseshift	
Low-level inputs	•
High-level inputs	•
Autosense	•, DC or signal
Start-Stop compatible	– (7,6 V)
Remote	•, Gain
Other	speaker diagnostics adj. 12 / 24 dB/oct.

Eton RES 10 AR

Top-Class **1+**

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Price/performance: very good

"Premium spare wheel sub with the finest ingredients."