

## **ETON CSR 16 • TEST REPORT CAR& HIFI 5/2020**



and swish crafted

drive system

new. That goes for the highly robust

and great-looking die-cast basket of



## ETON CSR 16 • TEST REPORT CAR<sub>8</sub>HIFI 5/2020



The composite cone of the 16-cm speaker is kept in check by a centering spider of mixed fabric SOUND-TIPP Top-Class CAR, HiFi 5/2020

for airflow. However, the tweeter also does things in style. In a typical pivoting enclosure, a hard diaphragm ceramic dome works in a soft suspension that we are familiar with from ETON's top systems. Only the dome of the CSR is based on aluminum and not magnesium, as with the Core. The aluminum is anodized in a special process in which it is given a ceramic coating that ensures a particularly high hardness and intrinsic sound velocity, while the aluminum takes on the damping role. The new thing about the CSR tweeter is the small rear coupling chamber. This serves to extend the area of application towards lower frequencies and in the case of the CSR tweeter hardly protrudes so that it remains great to install. Even the crossover is new. Here ETON has again made an improvement in using generous air coils with thick wire gauge as well as decent metal oxide resistors. You can tune the level of the tweeter, and select the slope of the woofer to be 6 or 12 dB/octave.

### Measurements and Sound

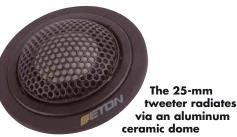
Anyway, the small rear coupling chamber of the tweeter lowers its resonant frequency from the typical 1.7 kHz to 1.4 kHz so that it can be coupled a bit lower. The material resonance of the ceramic dome at 24 kHz is high and therefore outside the audible range, though it is distinctly evident. The midrange/woofer speaker is immediately pleasing thanks to its balanced set of parameters. The quality factor is a very practicable 0.65 and the resonant frequency at 71 Hz is not excessively low — an ideal prerequisite for a punchy bass. The amplitude frequency response of the 16-cm speaker is near perfect: over the entire working range there is no trace of resonance effects.

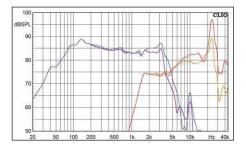
A small peak is noticeable at 10 kHz, which is presumably due to the aluminum dust cap — all totally harmless. The performance of the CSR was outstanding during the distortion measurements.

Both chassis are simply outstanding with virtually no distortion right up to high volume levels. Soundwise the CSR does credit to its fine choice of materials. It sounds highly precise, almost analytical, throughout the frequency range. The ceramic tweeter develops a mind-boggling spatial resolution, like its stablemates. A crystal clear soundstage builds up in front of the listener so that you can almost touch the music. The bass reproduction is as precise as the high end; the CSR produces a dry punchy kick – a delight for precision fanatics. In addition, the system produces a flawless, cleanly resolved vocal range so that you immediately feel tonally at home. A very high class performance!

### **Summary**

The ETON CSR 16 has turned out to be a sound highlight. A fine example for quality speakers made in Germany.





Both chassis run perfectly in their working ranges. The tweeter cone resonance appears at 24 kHz

# FETON

Eton CSR 16						
Distributor	ACR, CH-5330 Zurzach					
Hotline	info@etongmbh.com					
Internet	www.etongmbh.com					
Sound quality	55 %	1,1				
Bass	11 %	1,0				
Neutrality	11 %	1,5				
Transparency	11 %	1,0				
Soundstaging	11 %	1,0				
Dynamics	11 %	1,0				
Lab	30 %	1,3				
Frequency response	10 %	1,5				
max. volume	10 %	1,5				
Distortion	10 %	1,0				
Practice	15 %	1,3				
Crossover	5 %	1,5				
Workmanship	5 %	1,0				

#### Technical Data

Chassis diameter	165 mm
Mountig diameter	77 mm
Mountig depth	146 mm
Magnet diameter	90 mm
TW dome diameter	25 mm
TW housing diameter	44 mm
Crossover slope L/H	6, 12/12 dB
Tweeter protection	<u> </u>
Tweeter volume adjustment	+3, 0, -3 dB
Grille	<u>-</u>
Other	mounting adaptors
Nominal impedance	4 ohms
DC resistance Rdc	3,25 ohms
Coil inductivity Le	0,43 mH
Coil diameter	32 mm
Cone surface Sd	137 cm <sup>2</sup>
Resonance frequency Fs	71 Hz
Mechanical quality Qms	5,39
Electrical quality Qes	0,74
Total quality Qts	0,65
Equivalent volume Vas	8,4 I
Moving mass Mms	15,5 g
Rms	1,29 kg/s
Cms	0,32 mm/N
B*I	5,54 Tm
Pressure 2 V, 1 m	86 dB
Power handling	30 – 150 W
Power handling	30 – 150 W

### Summary

Price		about	400	Euro
Sound quality	55 %	1,1		
Lab	30 %	1,3		
Practice	15 %	1,3	ПП	
Tractice	13 /0	1,0		_

### Eton CSR 16

Ultimate-Class
Top-Class
Upper-Class
Middle-Class

rice/performance:

<u>CAR<sub>&</sub>HiFi</u>

04.1.0.7 0,20.

"Outstandingly made and great sounding system"