



PFX 10 PFX 13 PFX 16 • TEST REPORT CAR&HIFI 2/2025

Eton PFX: Affordable coaxial speaker series
with superb performance

Budget coax series



► Even though they currently represent the lower end of the Eton speaker range, the PFX coaxial systems are by no means cheaply made. Here we put the new entry-level speakers to the test.

The PFX coaxials come with fully-fledged fabric tweeters.

At prices from 130 to 150 euros the PFX coaxials are the cheapest speakers from Eton. At the same time there are many cheaper speakers from various sellers. But at Eton you always have

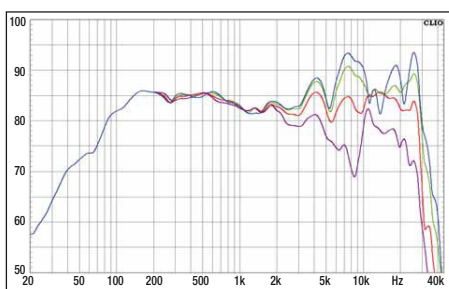


The upper pole plates are extra thick, and are machined and face milled

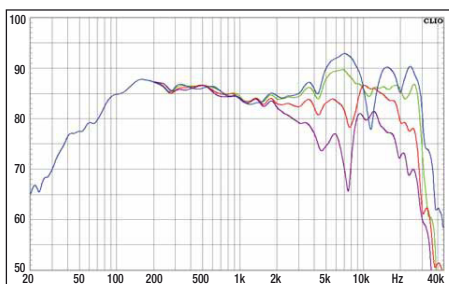
a certain expectation of the products, so that you refrain from playing in the very lowest price segment. Eton is rightly proud to manufacture at least some of the speakers in Germany (even if the PFX naturally does not belong among them, being made in the Far East). At Eton they also place importance on us-

ing their own technologies, and that goes for not only the more expensive speakers but down to our PFX here. With speakers one then naturally immediately thinks of cones and classic types like the hexacone or the fiber reinforced paper POW cone with hexagonal embossing, which has since been copied thousands of times. These are the work of Eton. And so it is that our PFX coaxial speaker cones employ in-house developments at Eton. Those here were introduced last year for the PRA line of loudspeakers. The PFX are thus roughly a coax offshoot of the PRA series. The cones are made of thick paper, which in itself makes them quite stable. The characteristic crescent-shaped embossings provide additional stiffness and break up any resonances. The stable metal baskets are powder

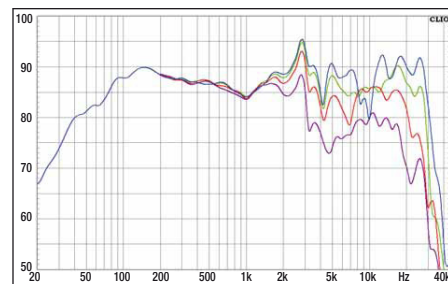
coated and have rear vent openings under the centering spider. Anything other than obvious in this price range are the finely machined pole plates. Even the top plate is planed so that it lies firmly on the ferrite ring and no magnetic field is lost. All three PFXe are equipped with 25 mm voice coils wound on aluminum formers. This is a practicable size because located in the center of the coaxial systems is the structure for the tweeters. Here it is astonishing that Eton actually installs different tweeters, namely a 25 mm in the PFX 16 and a 19 mm tweeter in the two smaller models. A reliable quality criterion for coaxials is the use of woven fabric domes, which are a bit more expensive than plastic domes. Naturally Eton has not skimped here and gives the PFX very nice, wafer thin fabric domes. No crossovers are to be seen in either PFX, Eton preferring the usual approach. The woofer passes through, and for the tweeter there is a small tiny electrolytic capacitor, which can be hidden in the tweeter structure.



The PFX 10 runs perfectly at an angle of 30°. At angles more or less than that there are bumps in the curve, which average out when summed



With the PFX 13 the on-axis hump around 7 kHz cancels out with the dip below that angle



The PFX 16 runs cleanly up to 30 kHz; at 2.8 kHz a small cone resonance is evident

Measurements and Sound

During the measurements both tweeters perform equally well. Even the larger 25 mm dome runs up to 30 kHz and so is in no way inferior to the tweeters of the PFX 10 and PFX 13. Naturally,

Generous, top quality drivers and well made metal baskets that include rear vent openings



all the tweeters run with very low distortion. Here the PFX 16 is a little bit ahead. All three coaxials also deliver a fairly balanced frequency response across the board. Typical for coaxial systems are the on-axis ripples, which one is happy to accept because the in-vehicle listening situation is not on axis. On the other hand the PFX offer a balanced sound pressure output at different angles, just as we would wish. One small anomaly is the woofer cone of the PFX 16, which actually shows a resonance point at 2.8 kHz. The 10 cm and 13 cm run faultlessly. Then we notice that the 13 cm has an equally low resonant frequency like the 16 cm. Why that is only Eton knows, but it is naturally not a problem or fault. Sonically the PFX coaxials rank among the very pleasant and mature sounding systems. As is already the case with the highly successful PRA component speaker systems you cannot hear the budget price in the sound. It sounds like a paper cone, which here means it isn't just any sound, but neutral and clean, as it should. Voices and instruments are authentically reproduced and once again the good woven fabric tweeters must be praised. They sprinkle in the right amount of detail and also produce the right atmosphere as the music can really 'breathe'. This is all at a very high level. The PFX coaxials make really good music, much more than one would expect in the entry level area.

Summary

In conclusion one can only be full of praise for the quality that Eton delivers with the PFX series. That begins with the build and haptic quality and runs like a red thread through to the very mature sound.

Loudspeaker	Eton PFX 10	Eton PFX 13	Eton PFX 16
Price	about 130 Euro	about 140 Euro	about 150 Euro
Distributor	ACR, CH-Zürzach	ACR, CH-Zürzach	ACR, CH-Zürzach
Hotline	info@eton-caraudio.com	info@eton-caraudio.com	info@eton-caraudio.com
Internet www	eton-audio.com	eton-audio.com	eton-audio.com

Summary

Sound quality	55 %	1,2	1,2	1,2
Bass foundation	11 %	1,0	1,0	1,0
Neutrality	11 %	2,0	2,0	2,0
Transparency	11 %	1,0	1,0	1,0
Spatiality	11 %	1,0	1,0	1,0
Dynamics	11 %	1,0	1,0	1,0
Lab	30 %	1,5	1,5	1,5
Frequency response	10 %	1,5	1,5	1,5
max. volume	10 %	1,5	1,5	1,5
Distortion	10 %	1,5	1,5	1,5
Practice	15 %	1,7	1,7	1,7
Crossover	10 %	2,0	2,0	2,0
Workmanship	5 %	1,0	1,0	1,0

Technical data			
Chassis diameter	100 mm	132 mm	166 mm
Mounting cutout	91 mm	113 mm	142 mm
Mounting depth	45 mm	57 mm	66 mm
Magnet diameter	70 mm	74 mm	74 mm
Tweeter dome diameter	19 mm	19 mm	25 mm
Tweeter housing diameter	-	-	-
Slope	-6 dB	-6 dB	-6 dB
Tweeter protection	-	-	-
Tweeter volume adjustment	-	-	-
Grill	-	-	-
Other	-	-	-
Nominal impedance	3 Ohm	3 Ohm	3 Ohm
DC resistance Rdc	2,40 Ohm	2,44 Ohm	2,42 Ohm
Coil inductivity Le	0,11 mH	0,19 mH	0,21 mH
Coil diameter	25 mm	25 mm	25 mm
Cone surface Sd	54 cm²	79 cm²	139 cm²
Resonance frequency fs	98 Hz	67 Hz	65 Hz
Mechanical quality Qms	2,69	3,58	3,52
Electrical quality Qes	0,67	0,51	0,80
Total quality Qts	0,54	0,45	0,65
Equivalent volume Vas	2,1 l	6,3 l	12,9 l
Moving mass Mms	4,5 g	7,6 g	12,6 g
Rms	1,03 kg/s	0,90 kg/s	1,46 kg/s
Cms	0,59 mm/N	0,73 mm/N	0,48 mm/N
B*I	3,14 Tm	3,92 Tm	3,94 Tm
Pressure 1 W, 1 m	85 dB	86 dB	88 dB
Power handling	30 - 100 W	30 - 100 W	30 - 100 W

Upper-class 1,4	Upper-class 1,4	Upper-class 1,3
CAR&HIFI 2/25	CAR&HIFI 2/25	CAR&HIFI 2/25
Price/performance: excellent	Price/performance: excellent	Price/performance: very good

"A very well-crafted coaxial series."