

Eton UG BMW 10 W U / UG BMW 20 SUB U:
Premium speakers for BMW



High-end vehicle-specific

► Eton expands its upgrade series with an absolutely top model. BMW drivers can now enjoy the new Ultimate speaker, which we present here.

Under Audio Upgrade Eton includes everything that has been developed for a particular vehicle. From individual

speakers to sets to the cable harness there are vehicle-specific components for VW, BMW, Mercedes and Ducato

& Co., among others. For BMW models and Minis, for example, there is the door speaker UG BMW 10 – 10-cm systems optionally with a W or N basket alongside the center CN. Our new test candidates are called UG BMW 10 W U, where the unremarkable U

The Ultimate woofer and mid-range speakers feature aluminum die-cast baskets and neodymium drivers – all of top quality



stands for Ultimate. Already during unpacking we noticed that we had something rather special here. After the two-way system and underseat woofer UG BMW 20 SUB U were on the table in front of us it was clear what Eton had in mind with the Ultimate series. Vehicle-specific speakers but high-end are rarely seen if at all, and definitely not in this form – until now. Normally vehicle speakers lie in the middle price segment. Very cheap series are not worth the effort as the vehicle-specific sets will in any case be somewhat more

expensive than universal speakers of comparable technology. But no one will offer vehicle-specific sets that are too expensive either, so they land mostly somewhere in the middle. In the case of our Upgrade BMW Ultimate components it's different. Eton has actually dared to put their very best loudspeaker technology into BMW vehicles with all the special baskets, and naturally with plug and play connections. We are talking here about Eton's Graphit series, which was introduced not long ago with all its tweeters, mid-range speakers, woofers and subwoofers representing a completely new design. The highlight with Graphit is the new cones made of a special carbon fiber sandwich. In one of our tests we were fully convinced as regards their stiffness and damping. This cone technology comes up again in the BMW Ultimate series, beautifully packed and of course „Made in Germany“. The mid-range speakers and woofers got baskets of die-cast aluminum – a not inconsiderable effort „just“ for BMW speakers. Yet the Ultimate concept al-

lows no compromise here, neither in quality nor vehicle compatibility. In the new die-cast baskets we find vehicle bushings, which are of course made of plastic and are screwed for a perfect fit. The 10 cm BMW speaker is an enlarged version of the 8 cm Graphit mid-range speaker. It adopts the aluminum dustcap and the basket spoke design, though by its very nature it is a completely new development. At first sight the underseat woofer appears unremarkable – its top side looks like a normal powder-coated sheet metal basket. Yet in the middle is an extremely powerful neodymium driver, here for the first time in our test center with a huge 64 mm voice coil. The underside of the fine chassis is again formed by a die-cast basket, with the Graphit carbon fiber cone working in between. The easiest thing to upgrade for BMW was the tweeter. As was already the case with the Graphit Universal tweeter, Eton has made sure that the housing is no larger than for a 25 mm dome, even though a 28 mm voice coil drives the hand-coated woven fabric dome. Here the tweeter works with a BMW flange and naturally also with the small rear resonance chamber.



Optionally, the tweeter can be placed in a sound funnel



The premium 28 mm tweeter is fitted with a BMW flange and connector; the cable crossover includes a 12 dB filter

Measurements and Sound

The tweeter works with a 12 dB crossover accommodated in the supply lead for ease of installation. The frequency response measurement shows it is initially not very linear or wide-band — typical for Eton. Up to 30 kHz the sound coming out is certainly effective, but above that the level of the 28-mm driver soon drops off. The mid-range speaker runs without a crossover on axis with a rising level, a characteristic intended for BMW installation slots not evident in the universal Graphit mid-range unit. The 20 cm woofer with a 2 ohm coil soars up to 88 dB, which is not bad considering its low resonant frequency and high moving mass. What makes the Eton chassis again convincing is the almost complete absence of distortion. All chassis are exemplary, right

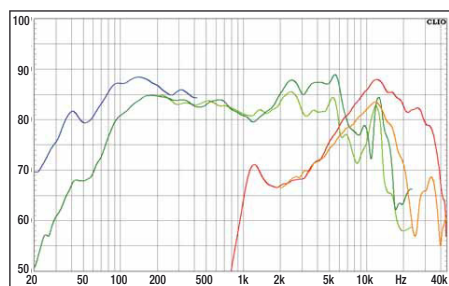
up to high volume levels. In the sound check the BMW Ultimate components then produce goosebumps. The intensity and fidelity with which the vocals are reproduced is absolutely outstanding. The mid-range is by no means glossed over. Rather the sound is characterized by authenticity and atmosphere. At the top end the tweeter is pleasantly restrained, but without sacrificing audibility or detail. An absolute highlight is the bass reproduction of the 20 cm underseat woofer. It is full and warm, but also explosive and very dynamic when required. Overall the sound is very high class, which sets the bar in BMW vehicles extremely high.

Summary

The Upgrade BMW Ultimate speakers are the best choice if you want to treat yourself to something really good in your BMW. Obviously the fun doesn't come cheap, but for that you get extraordinary quality.



The woofer comes with a possibly record-breaking neodymium driver and 64 mm voice coil



Not the most linear of curves, but when in the vehicle Eton tunes the tweeter with restraint and the mid-range speaker aggressively

BEST PRODUCT
BMW-loudspeaker
CAR&HiFi 6/2024

Eton UG BMW 10 W U /2x UG BMW 20 SUB U

Price about 1.640 Euro
 Distributor ACR, CH-5330 Zurzach
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Summary

Sound quality	55 %	0,9	■■■■■
Bass	11 %	0,5	■■■■■
Neutrality	11 %	1,0	■■■■■
Transparency	11 %	1,5	■■■■■
Soundstaging	11 %	1,0	■■■■■
Dynamics	11 %	0,5	■■■■■
Lab	30 %	1,0	■■■■■
Frequency response	10 %	1,5	■■■■■
max. volume	10 %	1,0	■■■■■
Distortion	10 %	1,5	■■■■■
Workmanship	15 %	1,2	■■■■■
Installation	5 %	1,0	■■■■■
Crossover	5 %	2,0	■■■■■
Workmanship	5 %	0,5	■■■■■

Technical Data

Basket diameter W	200 mm
Mounting depth W	31 mm
Basket diameter M	100 mm
Mounting depth M	29 mm
Tweeter dome diameter	28 mm
Tweeter housing diameter	42 mm
Slope W/M/T	-/-/12 dB
Tweeter protection	-
Tweeter volume adjustment	-
Fits in here *	E-, F-, and G-modells
other	-
Nominal impedance	2 ohms
DC resistance Rdc	2,06 ohms
Coil inductivity Le	0,51 mH
Coil diameter	64 mm
Cone surface Sd	249 cm ²
Resonance frequency Fs	57 Hz
Mechanical quality Qms	4,66
Electrical quality Qes	0,91
Total quality Qts	0,76
Equivalent volume Vas	13,8 l
Moving mass Mms	48,3 g
Rms	3,73 kg/s
Cms	0,16 mm/N
B*I	6,26 Tm
Pressure 2 V, 1 m	88 dB
Power handling	100 – 250 W

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BMW-Loudspeakers 1,0

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Price/performance: very good

"Finest BMW speaker with no competition."