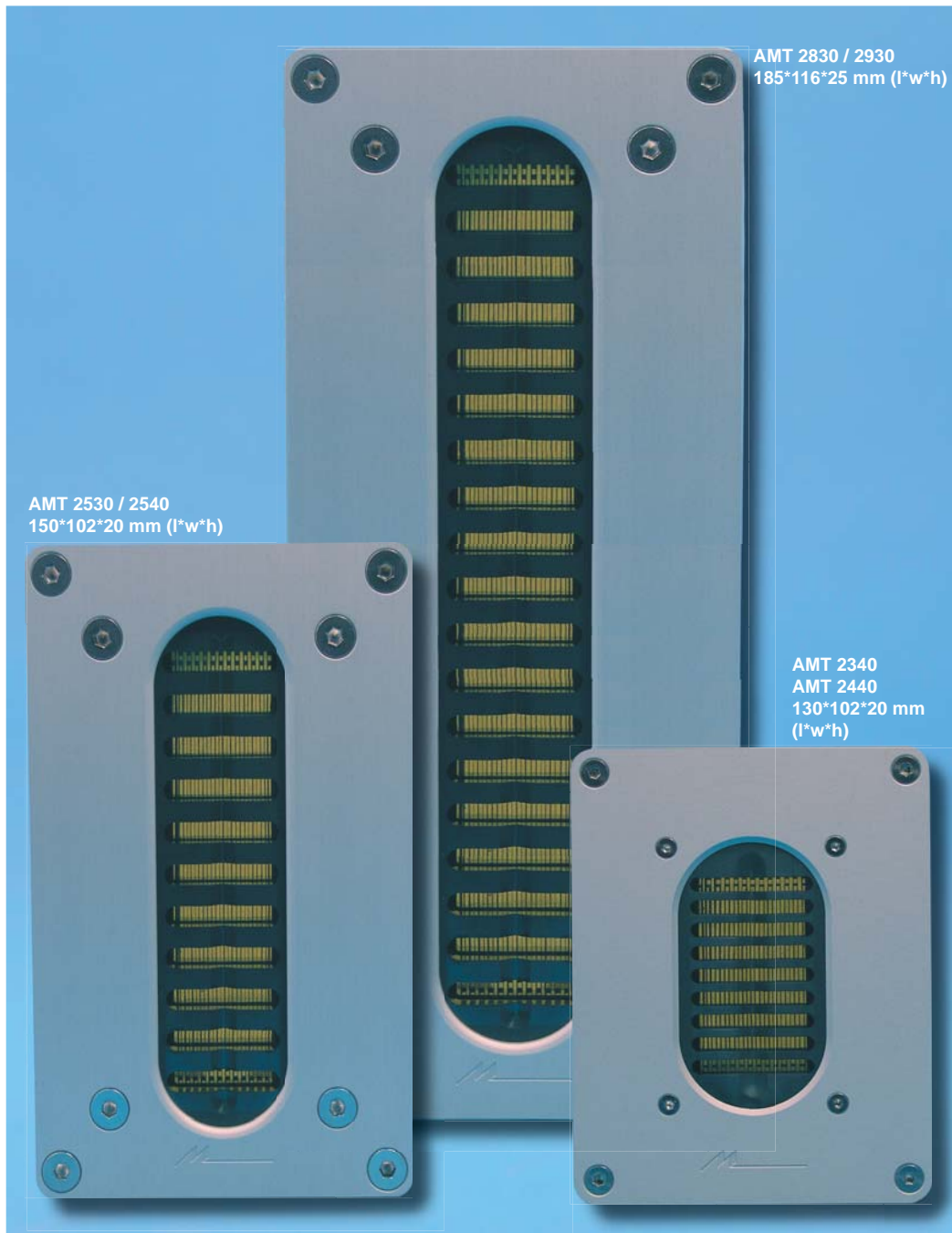


# HOLOGRAPHIC SOUND DEVICES - Air Motion Transformer



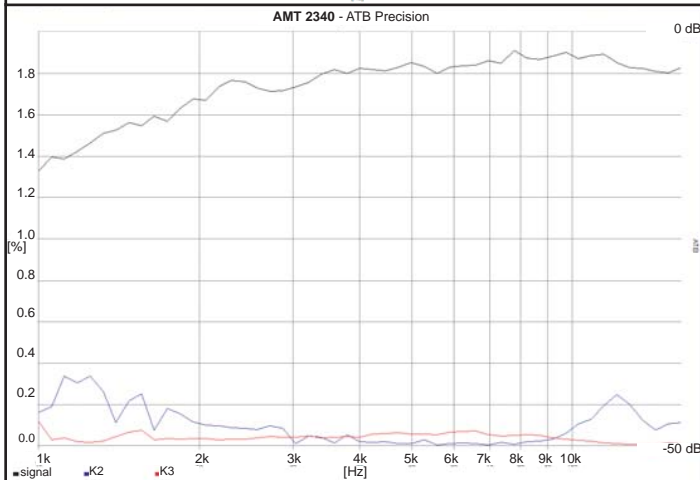
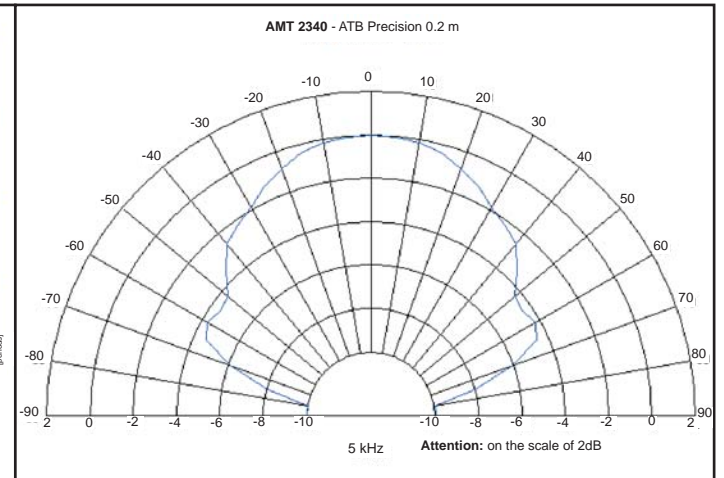
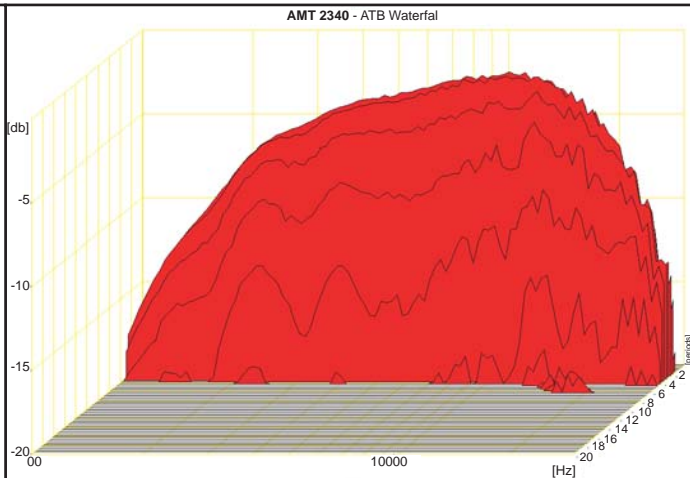
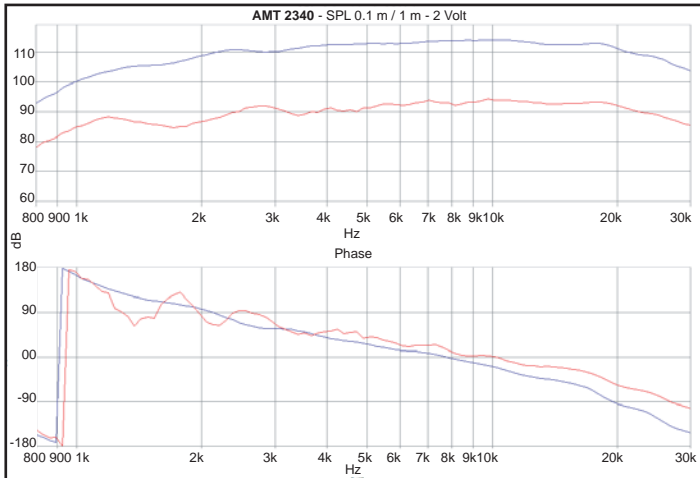
With the **HOLOGRAPHIC SOUND DEVICES** we introduce you to the latest product line from our establishment: Sound transducers of the highest quality from our own development and production. Stimulated by and based on the know-how of more than 20 years of successful development and manufacture of audiophile components, we have rethought progressive and successfully applied concepts such as the **Air Motion Transformer** or magnetostatic transducers and optimised them step by step.

*with perfect linear sound pressure frequency response and excellent decay behaviour... as a result, this tweeter is one of the most low-distortion tweeters that Hobby HiFi has ever examined in the laboratory*" (HH 1/2005, Page 17), and he writes further about the musical qualities: *"What makes the 'debut' so special is its ability to allow music to flow. This flow lives from the fine overtones, from gentle nuances that do not languish between the major signals, but stand their ground in an enti-*

	AMT 2340	AMT 2440	AMT 2530	AMT 2540	AMT 2630	AMT 2640	AMT 2730
Dimension (mm)	130*102*20		150*102*20		200*100*20		276*100*20
Purpose	HiFi / High End						
Impedance	3.9 Ohm	3.5 Ohm	~3.5 Ohm	~3.8 Ohm	~3.4 Ohm	~3.4 Ohm	5.5 Ohm
Frequency range (Hz)	2,200-23,000	2,600-30,000	1,300-22,000	1,500-26,000	estimate: 1,200-21,000	estimate: 1,300-26,000	1,000-21,000
Sensitivity (dB) (1watt/1meter)	90	90	98	98	100	100	100
Power handling	100 Watt	100 Watt	80 Watt	80 Watt	130 Watt	130 Watt	150 Watt

Based on principle, **Air Motion Transformers** boast a much greater distortion-free dynamic range than other types of transducers (linear dynamic). The given nonlinearity in the high frequency range was finally able to be virtually completely eliminated with constructive innovations. The result is an extraordinarily neutral transducer with considerable dynamic potential. Of course, the finest dynamic nuances are reproduced, as well as the greatest dynamic leaps are brilliantly mastered. For instance, Qualified Engineer Bernd Timmermanns from the HOBBY HiFi measuring laboratory also reported the following about our AMT 2340: "...

*rely unencumbered and matter-of-fact manner. ...of course, the piano, with its astoundingly perceptible outlines also seems to be so close you can touch it... in particular, live recordings gain enormously"*. Our Air Motion Transformer (AMT) series currently consists of five models: The AMT 2340 and AMT 2440, provided in identical housing, differ in the used membrane and the frequency response generated thereby. Both measurements are given for comparison. It is also available in the 2530/2540 two membranes. Succeeding you will see the measurements .

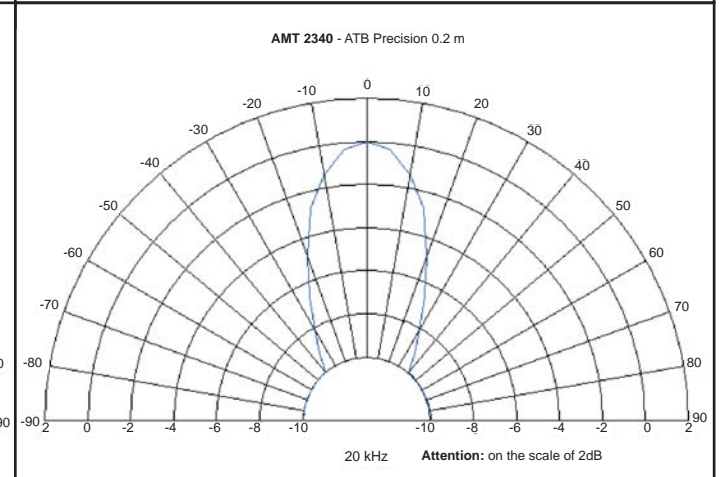
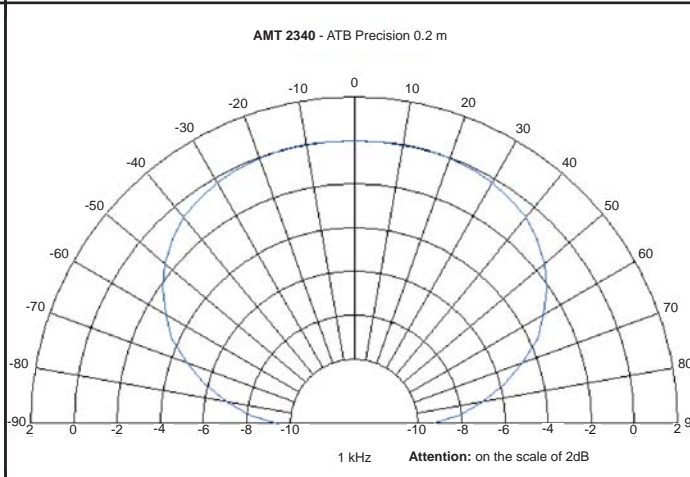
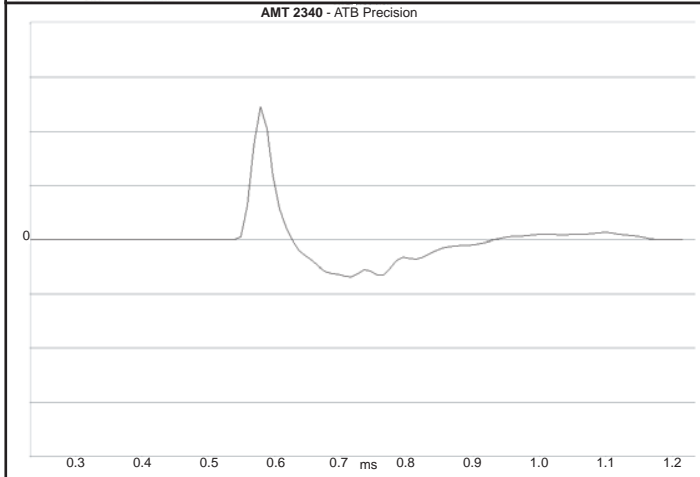
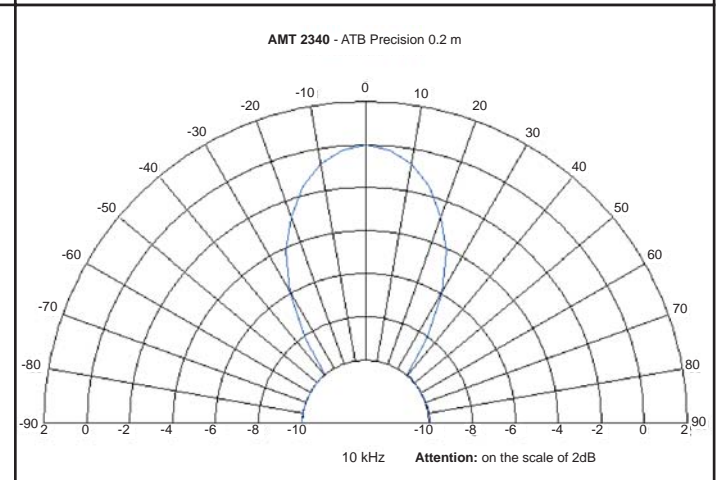


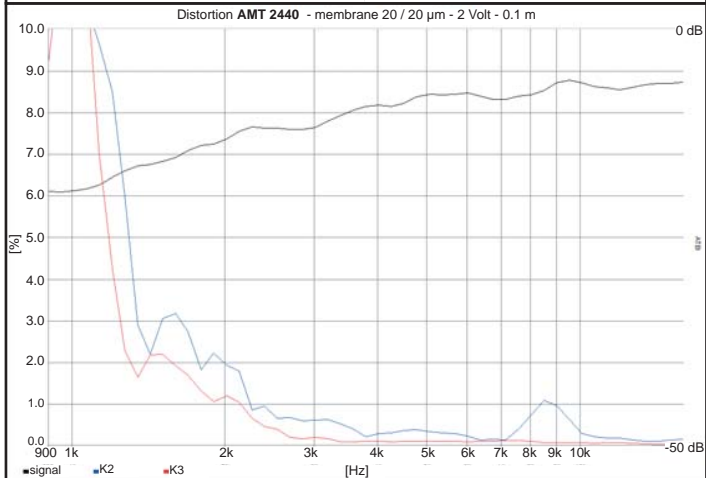
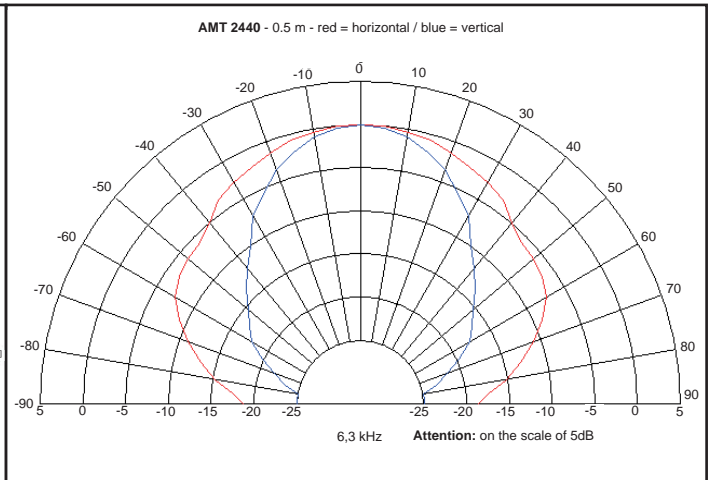
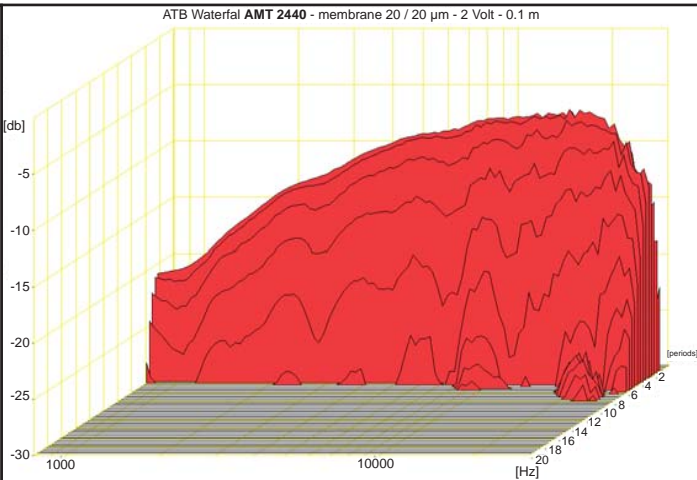
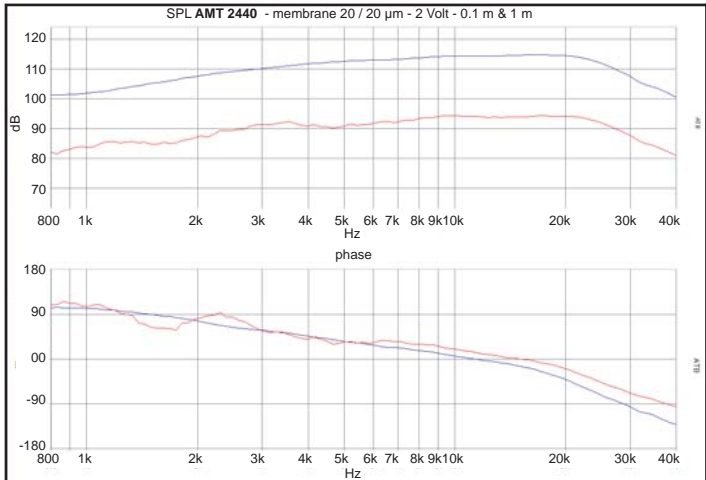
**Diagrams of: AMT 2340**

measuring equipment ATB Precision / USB  
microphone Mikrotech Gefell MK 202  
Mikrotech Gefell MV 203  
Mikrotech Gefell MN 900

rotary table Outline - ET 2 & ST 2  
computer Micromax x - Pentium 4 - 2 MHz  
Amplifier Linn LK1 Preamp  
Linn LK 280 Amp 2 x 80 Watt / 8 Ohm  
2 x 160 Watt / 4 Ohm

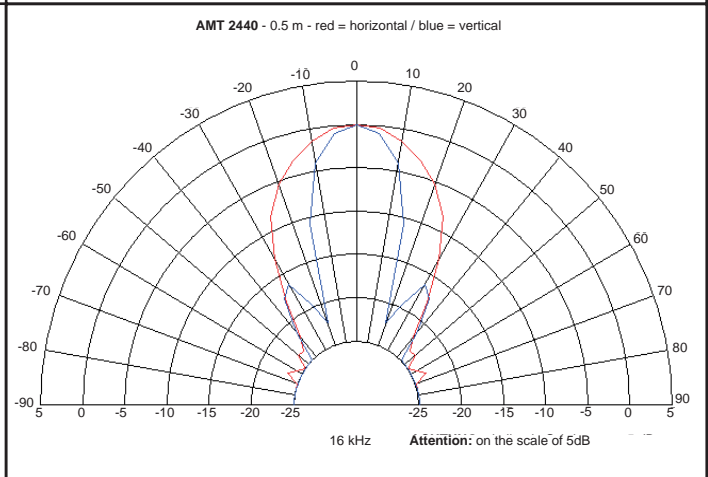
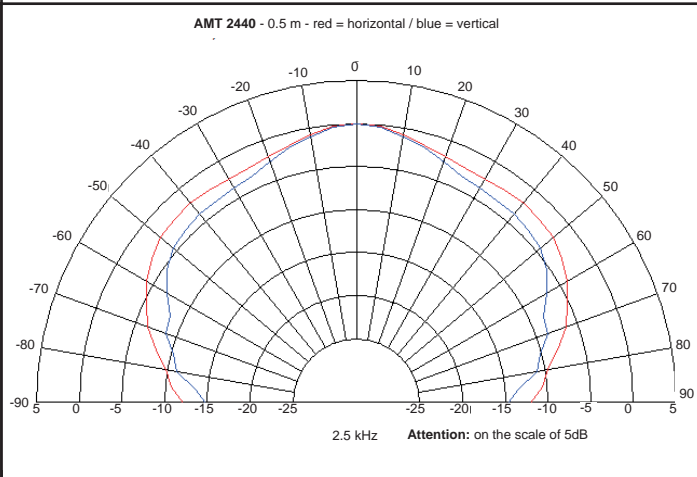
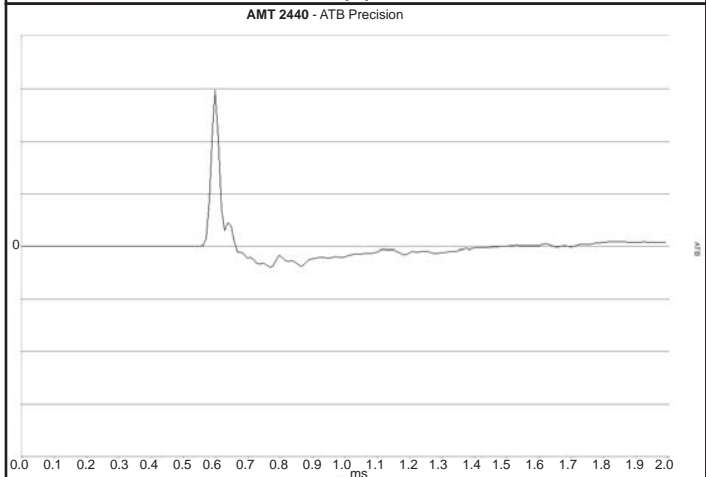
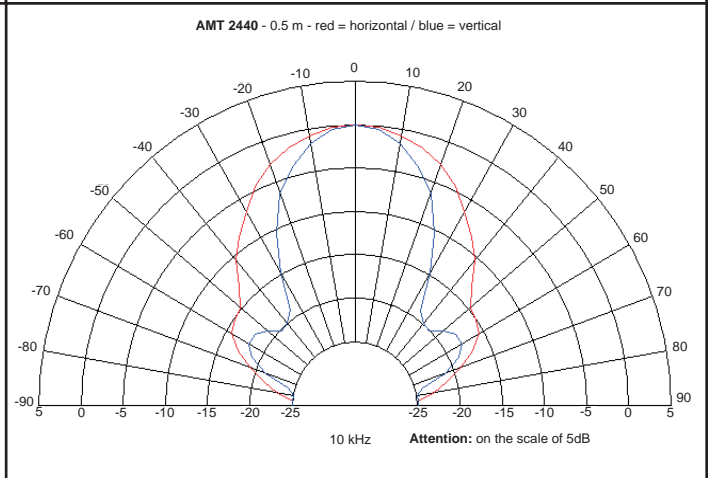
The driver unit was mounted on a baffle 30 x 30 cm with an additional volume. The volume encloses the magnet system and 15 mm of felt (33 mm total depth x 90 mm x 150 mm).



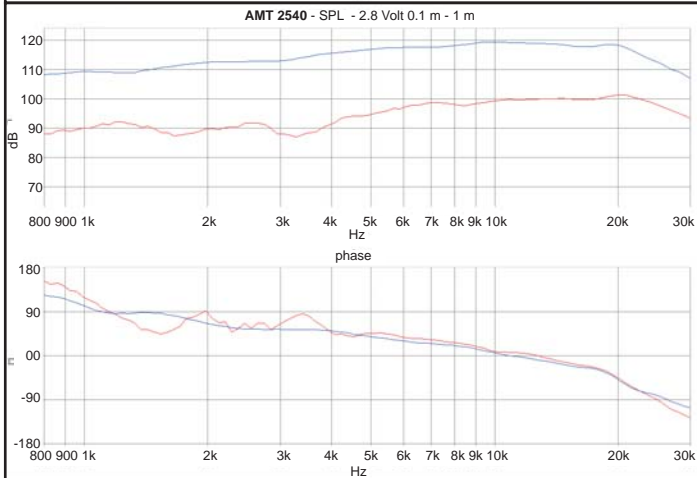
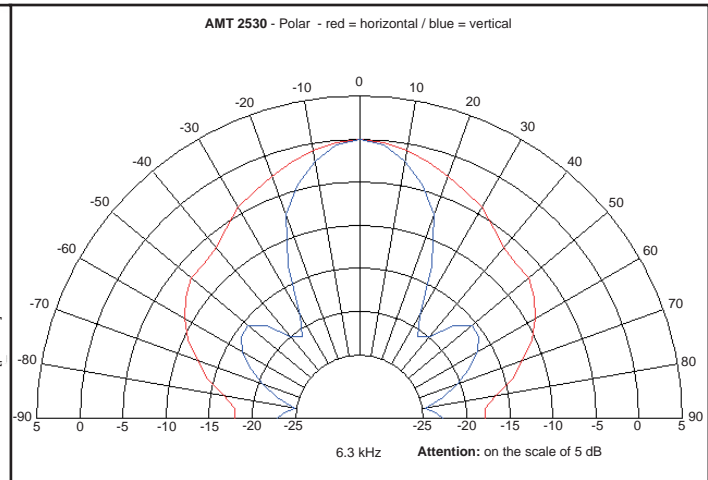
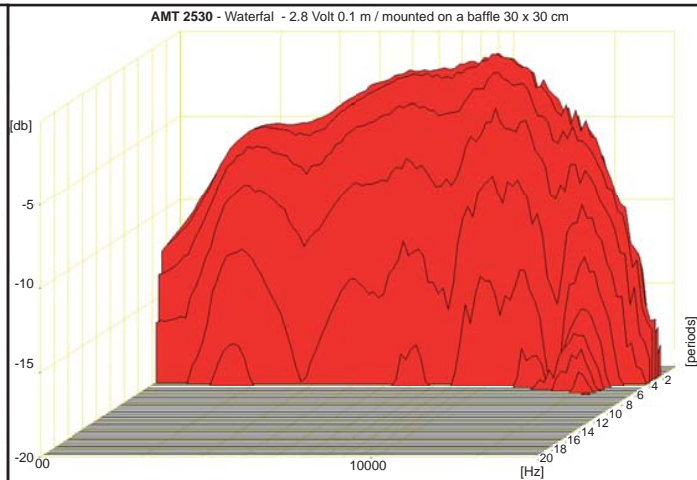
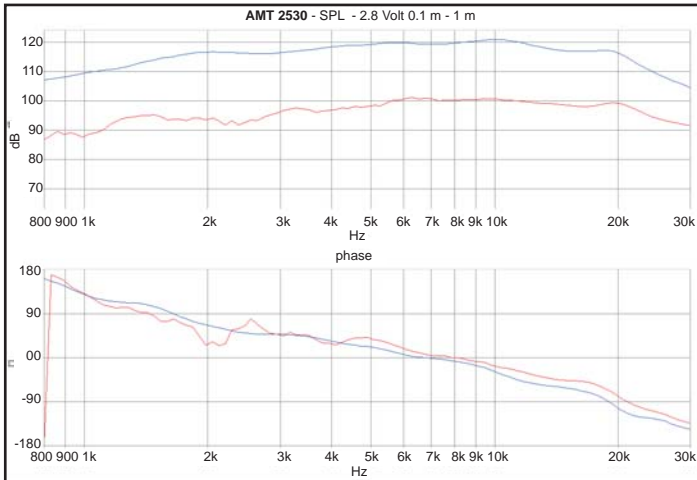


Diagrams of: **AMT 2440**

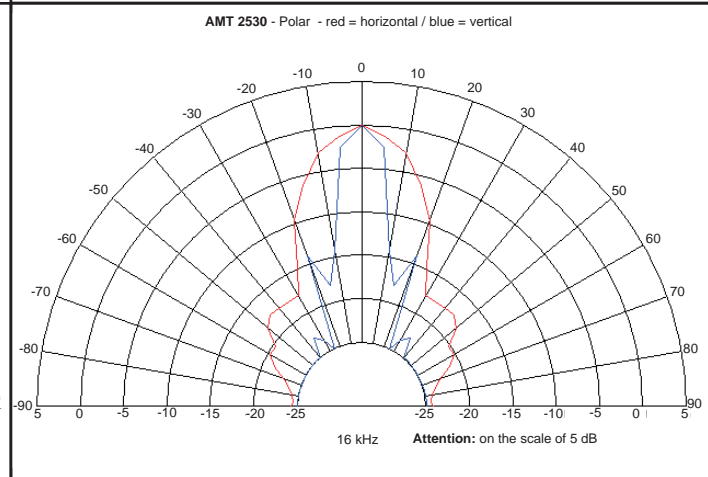
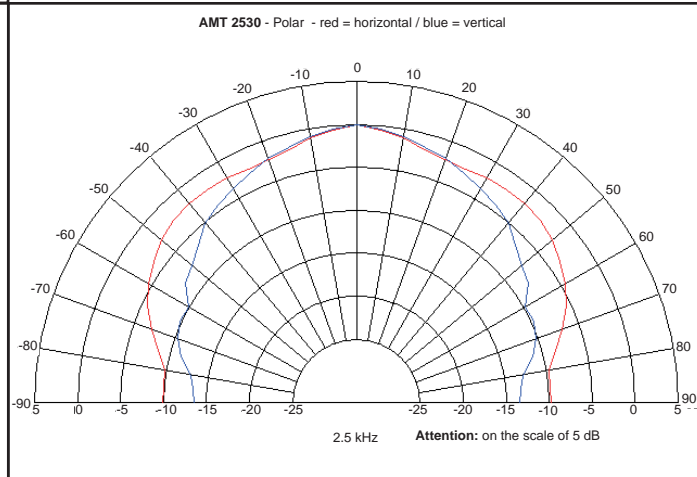
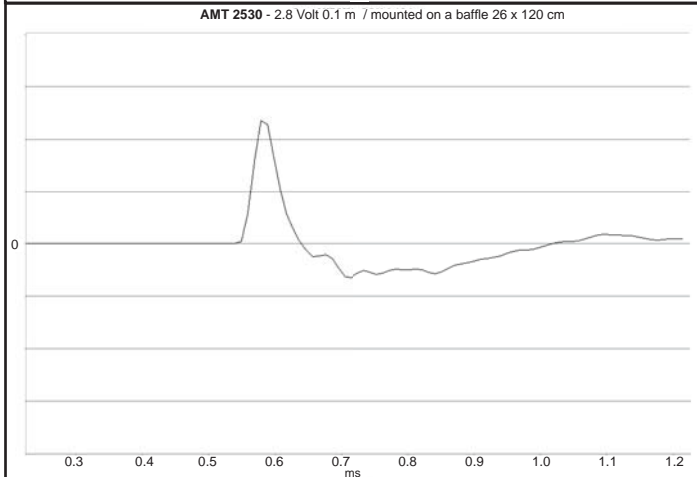
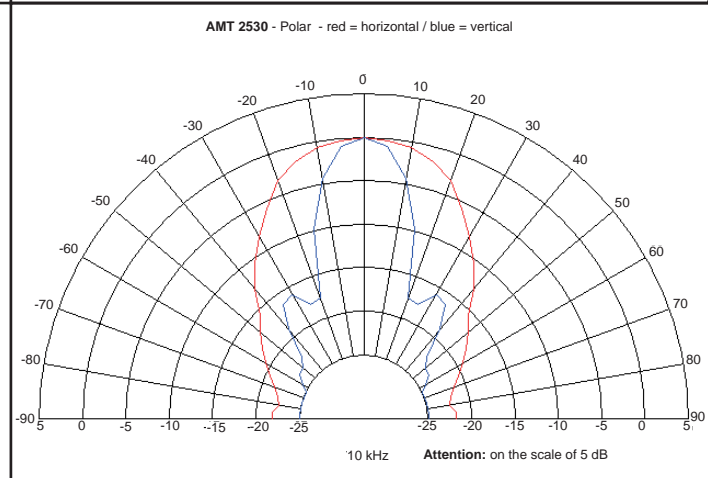
The **AMT 2440** and the AMT2340 have identical dimensions, but the **AMT 2440** has a strongly expanded frequency response for higher frequencies. The lower frequency limit is also somewhat higher.

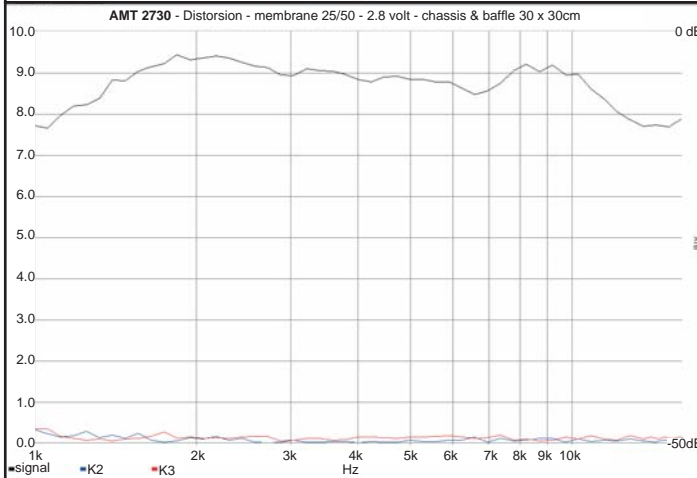
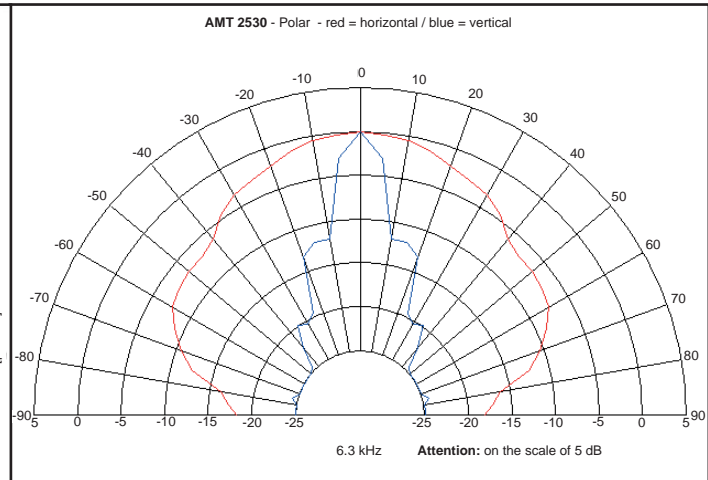
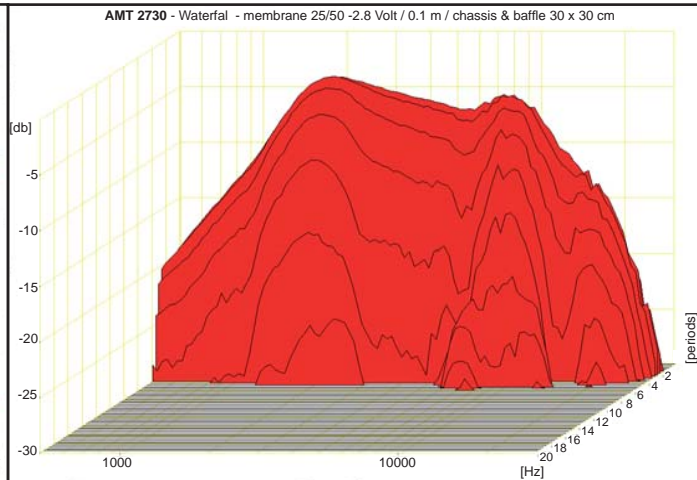
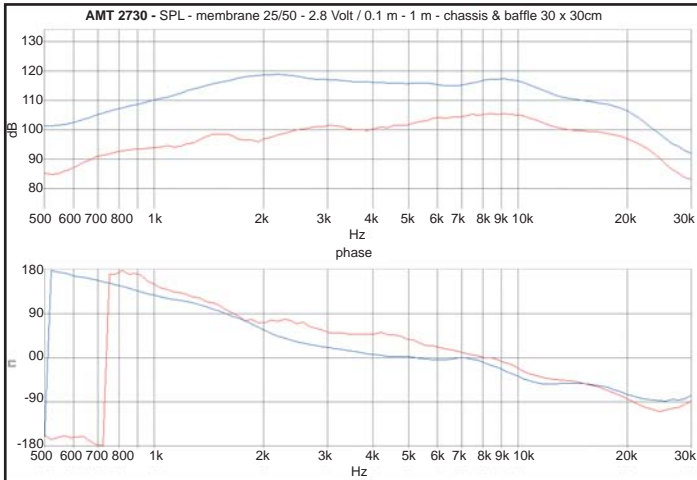




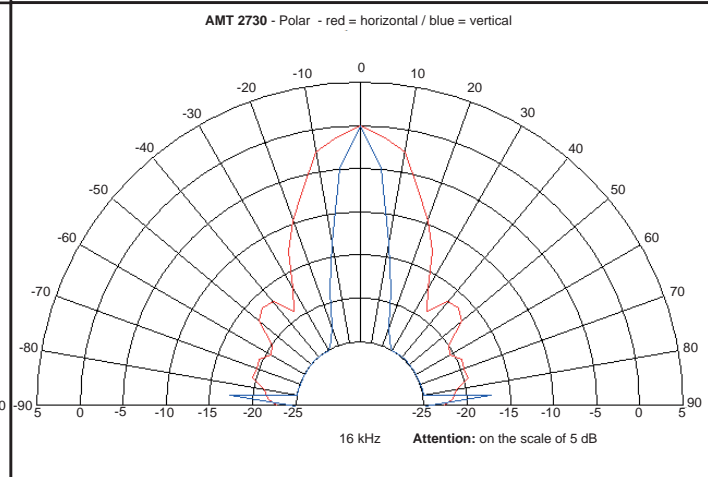
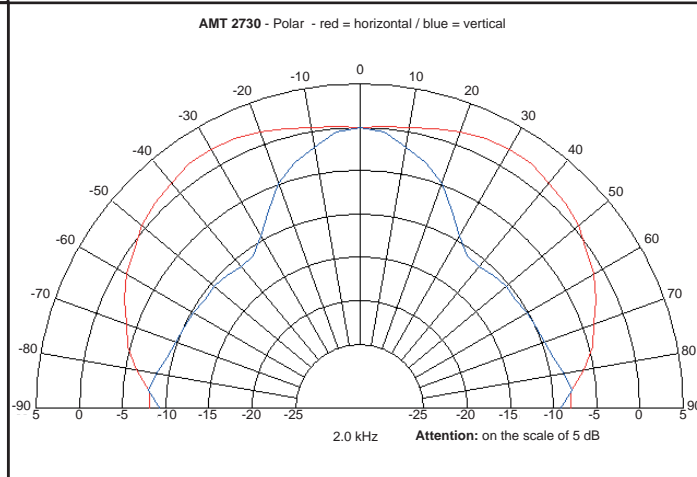
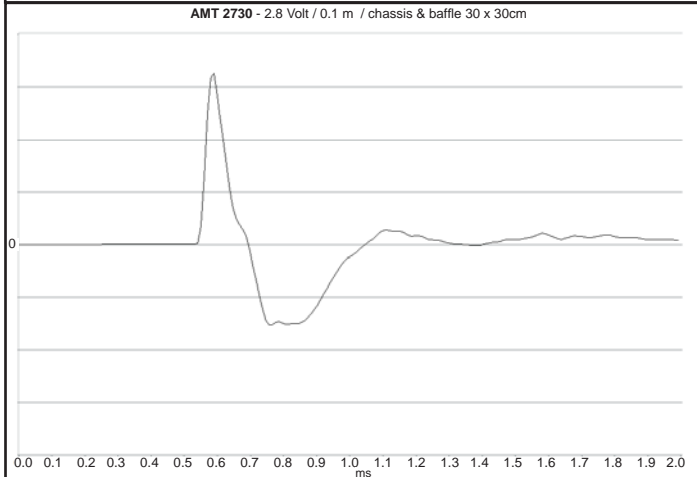
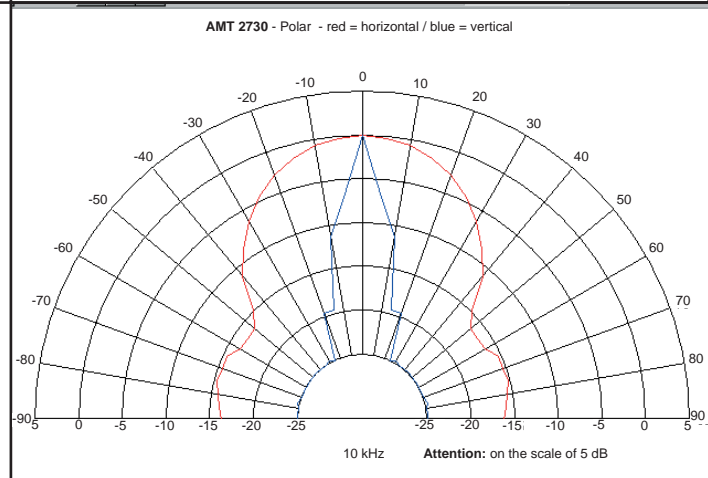


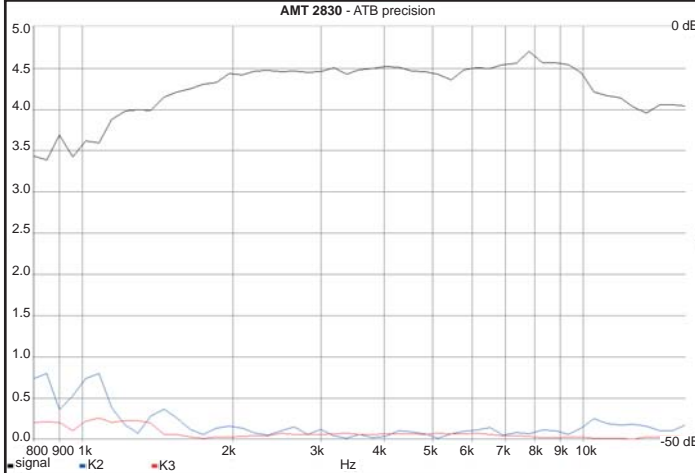
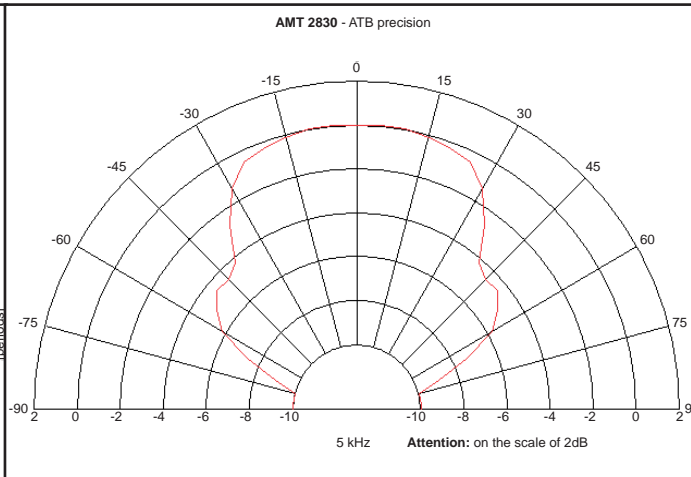
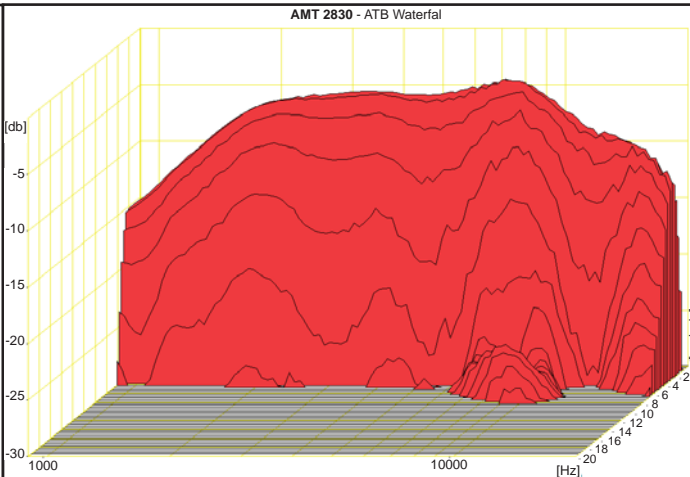
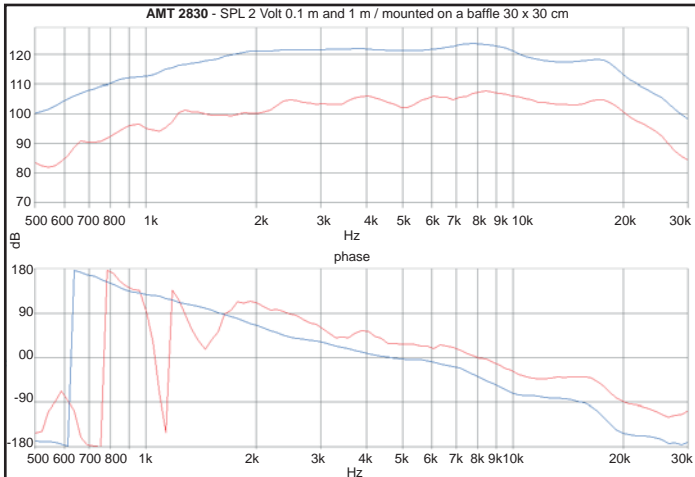
**Diagrams of: AMT 2530 and AMT 2540**





Diagrams of: **AMT 2730**





### Diagrams of: AMT 2830

The „large“ AMT is offered as **AMT 2830** for Hifi applications. The frequency range goes from approx. 1,200 Hz to 21,000 Hz.

	AMT 2830	AMT 2930	AMT 3140
<b>Dimension (mm)</b>	185*116*25		276*116*25
<b>Purpose</b>	HiFi / PA	PA	
<b>Impedance</b>	~3.4 ohm	~3.4 ohm	4.3 ohm
<b>Frequency range (Hz)</b>	1,200-21,000	1,200-20,000	estimate: 700-21,000
<b>Sensitivity (dB) (1watt/1meter)</b>	104	108	estimate: 108
<b>Power handling</b>	150 watt		

