

### Introduction

*Pristinum* - from the latin *Pristinum*': pure, uncorrupted, original condition.

*Pristinum* is created with the intention of allowing the soul of music to reveal itself in all its original form, uncorrupted by today's mediocre products and marketing trends.

It is a representation of state-of-the art loudspeaker technology and fine-tuning – a synergy between "technology and art"; resulting in "accuracy and musicality".

Accuracy is achieved when a system remains true to the intent of the recording. This is achieved by having very low levels of harmonic distortion with minimum time smearing and coloration.

Musicality flows when we retain the emotional vigor of the musical event. This is achieved by a tweaking and fine tuning process. Instead of designing a product solely by measurement and theory, we spent hundreds of hours on trial and error methods and adding the "human touch".

The result is a speaker system which can give the listening experience the emotional excitement and realism of the actual musical event.



### Tweeter - TW2701

TW2701 is a high resolution, wide bandwidth fabric dome tweeter using state-of-the-art Scandinavian Technology.

The *motor system* houses high grade neodymium magnets and an optimized tuned chamber. The entire motor system is built as one resulting in low structural vibration and resonances.

Housed in the *chamber* are damping felt materials and acoustic wool, absorbing the backwave reflections and damping the impedance at resonance. The free-air resonance of this tweeter is a low 1,080 Hz.

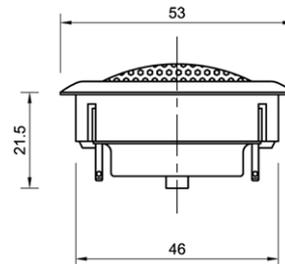
For non-custom installations, the wedge mount kit allows direct mounting onto dash or pillars without any major modification to the vehicle. With two off axis angles to choose from, the ideal dispersion pattern can be achieved.



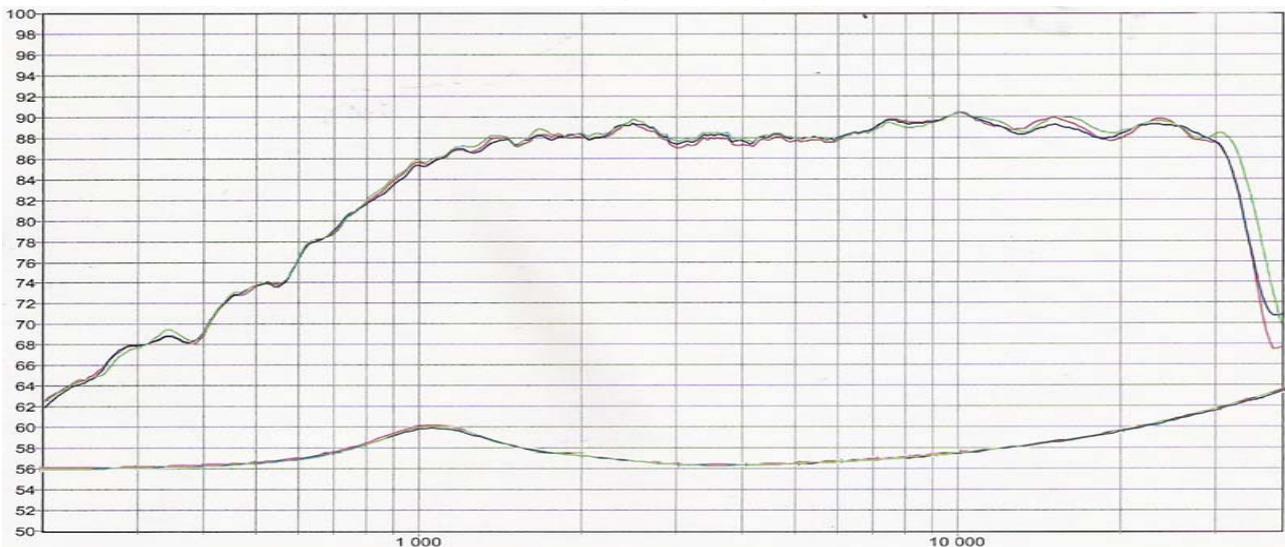
### **TW2701 TWEETER**

NOMINAL IMPEDANCE	6	Ohms
RECOMMENDED FREQUENCY RANGE	2200-25000	Hz
SHORT TERM MAXIMUM POWER *	220	W
LONG TERM MAXIMUM POWER *	90	W
SENSITIVITY (1W, 1m)	90.5	dB SPL
FREE AIR RESONANCE	1,080	Hz

\* VIA HIGH PASS BUTTER WORTH FILTER 3500 Hz 12 dB/oct



Anechoic Response & Impedance



Danish Acoustics reserve the right to change technical data at anytime

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### Mid-Woofer - PW165

PW165 is a polypropylene cone midbass drive unit with a powerful and linear motor system.

The specially selected low loss butyl surround mated with a flat spider design results in optimum suspension tuning for fast impulse response and deep low frequency reinforcement.

The copper clad aluminium voice coil increases power handling, bandwidth and lowers inductance. The voice coil is surround by powerful barium ferrite magnets keeping the flux energy concentrated at the magnetic gap.

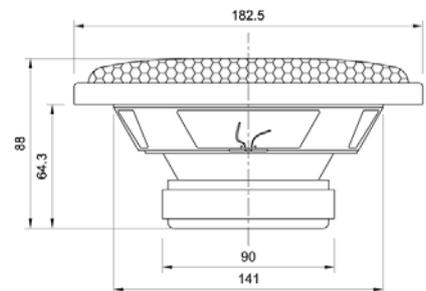
The result is a wide bandwidth mid-woofer capable of very large linear excursion. (8mm p-p).

The stamped steel basket is coated with anti-resonance material which increases rigidity and lowers the resonant frequency.

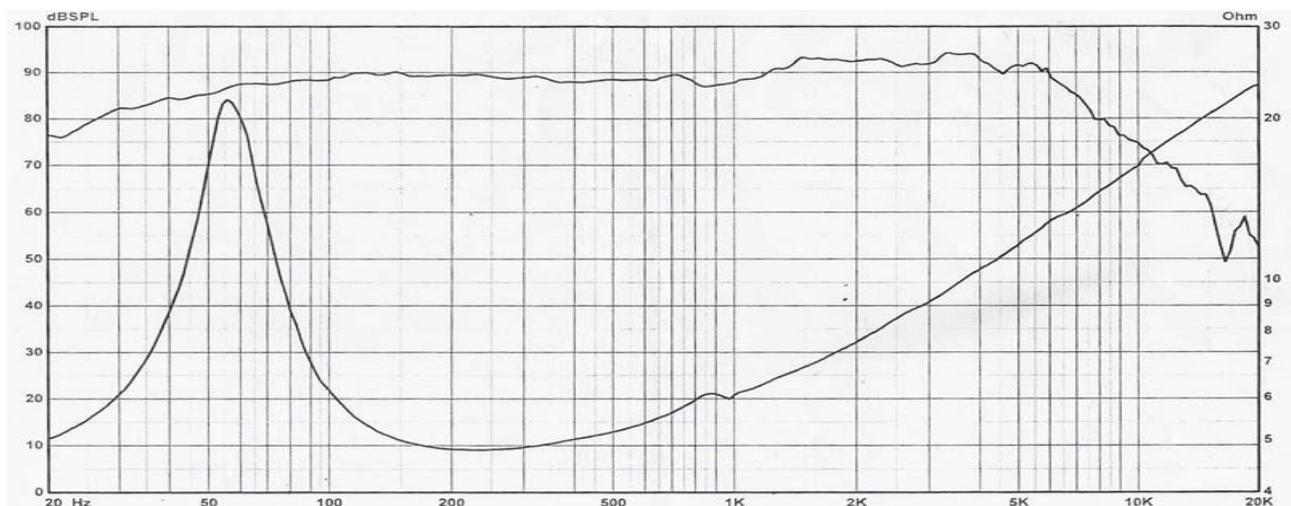


#### **PW165 MID-WOOFER**

NOMINAL IMPEDANCE	4	Ohms
RECOMMENDED FREQUENCY RANGE	50-4,500	Hz
SHORT TERM MAXIMUM POWER *	250	W
LONG TERM MAXIMUM POWER *	80	W
SENSITIVITY (1W, 1m)	88.5	dB
FREE AIR RESONANCE	49	Hz
VAS	20.85	Litres
QMS	4.23	
QES	0.75	
QTS	0.64	



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## Pristinum Series

### Crossover - XP 6.1

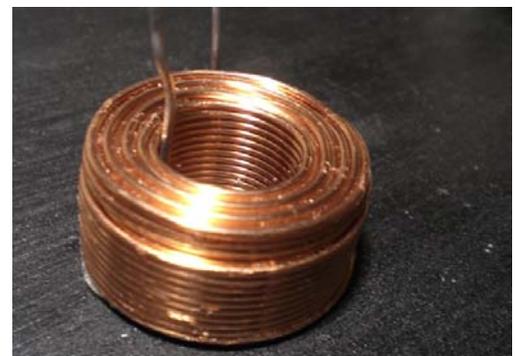
#### Featuring Advanced Serial Network Topology (AS Net)

The XP-6.1 crossover network not only acts as a filter, but minimizes phase errors and lobbing problems at the crossover region. This is achieved through using AS net topology which whereby the tweeter and mid-woofer are cascaded with reactive components. As a result, not only does the response achieve great linearity and minimal phase problems, but the stage is pushed far into the dash instead of being forward or in your face. ***This is the world's first product to use such a technology in car audio.***

Audiophile grade capacitors are custom made in Germany to achieve the most neutral sound character without adding any grain or distortion to the signal.

Low DCR, high purity copper (diameter = 1.4mm) is used for the air core inductors to achieve fast impulse response and minimum time smearing.

Precision attenuation circuits are used for 8 step tweeter level reduction. The secondary function is dampening the impedance so the user can adjust brightness or mellow sound just by changing the jumper settings.



### Advantageous of AS Net

All the benefits of 6db slope

Combined Shunts

Few reactive components

Amplifier friendly  
Excellent listenability

No phase distortion

Tweeter damping below crossover point  
Stage is pushed far into dash  
Human hearing compensation

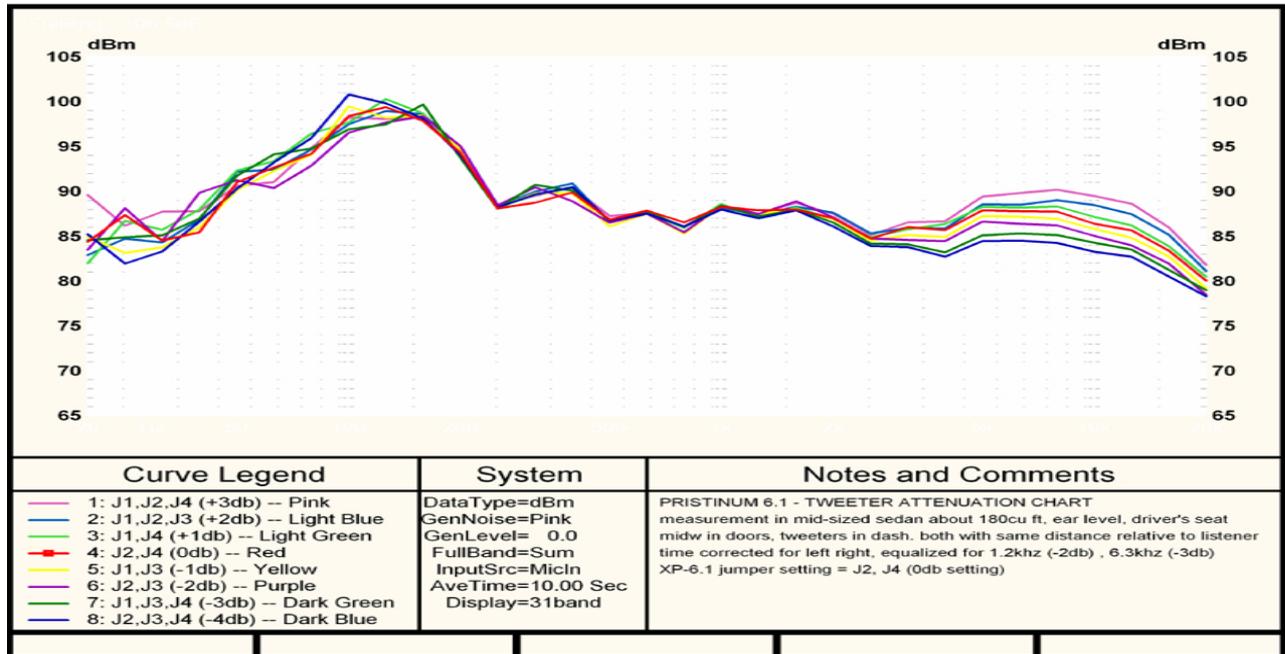
Improved SQ

Resistive load to amp  
Saving tuning/tweaking time

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### Total System Specifications



The above graph shows an in-car measurement of the Pristinum 6.1 component set with the 8 different tuning possibilities in the XP-6.1 crossover. For more information on jumper settings, please refer to the owner's manual.

#### SYSTEM SPECIFICATIONS

FREQUENCY RANGE	45 - 25,000	Hz
SENSITIVITY (1W/1M)	88.5	dB
NOMINAL POWER	80	W
PEAK POWER	250	W
NOMINAL IMPEDANCE	4	Ohms
CROSSOVER POINT	3,000	Hz
FILTER SLOPE (ACOUSTICAL)	12	dB/oct

### Mid-Woofer - PW110

The PW110 is a versatile polypropylene/paper midbass driver that has an amazing 6mm P-P linear excursion. The low loss rubber surround and spider results in extremely low energy storage. A bullet shaped phase plug reduces compression, resonance problems in the pole region and increases power handling. It can either be used as 4" midbass in 2-way setups or dedicated midrange in 3-way. It will fulfill minimum phase condition when custom into A-pillar with optimal position and implementation of AS net passive crossover, ideal for competition systems



#### **PW110 MID-WOOFER**

NOMINAL IMPEDANCE	4	Ohms
RECOMMENDED FREQUENCY RANGE	60-4000	Hz
SHORT TERM MAXIMUM POWER *	200	W
LONG TERM MAXIMUM POWER *	75	W
SENSITIVITY (1W, 1m)	87	dB SPL
FREE AIR RESONANCE	58	Hz
Qts	0.24	
VAS	4.5	Litres
QMS	1.79	
QES	0.25	
QTS	0.22	

\* = IEC 268-5

