MASSIVE®

Factory Specific Upgrade
Drop-In Speaker Line

TOY-6K	2-way 6.5" compo set	80watts
TOY-6X	2-way 6.5" coaxial	80watts
HON-6K	2-way 6.5" compo set	80watts
HON-6X	2-way 6.5" coaxial	80watts
NIS-6K	2-way 6.5" compo set	80watts
NIS-6X	2-way 6.5" coaxial	80watts

Please read the installation instructions thoroughly before beginning with the installation!

Please read all warnings in this manual. They inform you with regard to personal injuries and damages! **These products are only suitable for users with the required installation expertise. The relevant safety regulations regarding weight-bearing body parts, regulations about interior vehicle safety STVZO-TÜV as well as the regulations from the responsible vehicle manufacturers must absolutely be adhered to.**

Hearing impairments:

Lasting, excessive volumes of over 85 dB can affect hearing over the long term. Rainbow® amplifiers are capable of producing volumes of over 85 dB.

Volumes and driver awareness:

The use of hi-fi equipment can prevent the driver from hearing crucial traffic noise and can lead to hazards while driving.

MASSIVE AUDIO does not assume any liability for hearing impairments,bodily injury or property damage,which results due to the use or misuse of its products.

Working on the vehicle:

Do not operate your vehicle before all components of the speaker system and the amplifier are permanently and securely installed. In the event of sudden braking action or an accident, loose parts could become dangerous, flying projectiles.

Do not drill or screw into a vehicle lining or a carpeted flooring before you have ensured that there are no important parts or cables underneath. Pay attention to petrol, brake and oil lines and electric cables when planning the installation.

Prior to beginning with the installation, disconnect the ground terminal (-) from the vehicle battery in order to avoid possible short circuits.

Should the speakers and amplifier body panels be cut out or removed, contact your vehicle workshop.

If damages occur to load-bearing body parts, the operating license could be terminated!

Be careful when removing the interior trim. Vehicle manufacturers use the most diverse fastening parts, which could be damaged during disassembly.

Danger of Electric Shock!

Do NOT touch the connections for the amplifier or the speaker during operation!

Technical Data

System	TOY-6K
Nominal Impedance: 4Ω±15%	
FO: 61Hz ± 20% (without baffle)	
Output SPL: 88±3dB at PST from 1W/1M	
Sweep Test: Sine wave 12V, from 61～ 20k Hz(must be normal)	
Bottoming Test: Sine wave 13V, from 61 ～ 20K Hz(must be normal)	
Power Input: NOM 40W, Max 80W	
Life Test: WHITE NOISE 40W 96H	
Magnet: Size: 85*32*15 Grade: Y30 Weight:13.1Oz	
Voice Coil: 25.5 (mm): 2 (L) Winding length: 11.3 (mm) Former Material: KSV/2L	
Size: 6.5"	

Polarity:When a positive DC voltage is applied to thevoice coil terminal marked (RED DOT OR "+"). and a negative to the other terminal,the diaphragm should move upwards.

Qms: 6.65	BL: 4.5
Qes: 0.79	MMS: 11.6
Qts: 0.70	Vas: 14.4L

System	TOY-6X
Nominal Impedance: 4Ω±15%	
FO: 57Hz ± 20% (without baffle)	
Output SPL: 88±3dB at PST from 1W/1M	
Sweep Test: Sine wave 12V, from 57～ 20k Hz(must be normal)	
Bottoming Test: Sine wave 13V, from 57 ～ 20K Hz(must be normal)	
Power Input: NOM 40W, Max 80W	
Life Test: WHITE NOISE 40W 96H	
Magnet: Size: 85*32*15 Grade: Y30 Weight:13.1Oz	
Voice Coil: 25.5 (mm): 2 (L) Winding length: 11 (mm) Former Material: KSV/2L	
Size: 6.5"	

Polarity:When a positive DC voltage is applied to thevoice coil terminal marked (RED DOT OR "+"). and a negative to the other terminal,the diaphragm should move upwards.

Qms: 5.92	BL: 4.7
Qes: 0.72	MMS: 12.1
Qts: 0.64	Vas: 16.0L

Technical Data

System	HON-6K
Nominal Impedance: 4Ω±15%	
FO: 81Hz ± 20% (without baffle)	
Output SPL: 89±3dB at PST from 1W/1M	
Sweep Test: Sine wave 12V, from 81～ 20k Hz(must be normal)	
Bottoming Test: Sine wave 13V, from 81 ～ 20K Hz(must be normal)	
Power Input: NOM 40W, Max 80W	
Life Test: WHITE NOISE 40W 96H	
Magnet: Size: 80*32*15 Grade: Y30 Weight: 11.4Oz	
Voice Coil: 25.5 (mm): 2 (L) Winding length: 11.3 (mm)	Former Material: KSV/2L
Size: 6.5"	

Polarity:When a positive DC voltage is applied to thevoice coil terminal marked (RED DOT OR "+"). and a negative to the other terminal,the diaphragm should move upwards.

Qms: 7.65	BL: 4.5
Qes: 0.98	MMS: 10.9
Qts: 0.87	Vas: 8.8L

System	HON-6X
Nominal Impedance: 4Ω±15%	
FO: 81Hz ± 20% (without baffle)	
Output SPL: 89±3dB at PST from 1W/1M	
Sweep Test: Sine wave 12V, from 81～ 20k Hz(must be normal)	
Bottoming Test: Sine wave 13V, from 81 ～ 20K Hz(must be normal)	
Power Input: NOM 40W, Max 80W	
Life Test: WHITE NOISE 40W 96H	
Magnet: Size: 80*32*15 Grade: Y30 Weight: 11.4Oz	
Voice Coil: 25.5 (mm): 2 (L) Winding length: 11 (mm)	Former Material: KSV/2L
Size: 6.5"	

Polarity:When a positive DC voltage is applied to thevoice coil terminal marked (RED DOT OR "+"). and a negative to the other terminal,the diaphragm should move upwards.

Qms: 7.94	BL: 4.4
Qes: 1.14	MMS: 11.5
Qts: 1.00	Vas: 7.5L

Technical Data

System	NIS-6K
Nominal Impedance: 4Ω±15%	
FO: 60Hz ± 20% (without baffle)	
Output SPL: 88±3dB at PST from 1W/1M	
Sweep Test: Sine wave 12V, from 60～ 20k Hz(must be normal)	
Bottoming Test: Sine wave 13V, from 60 ～ 20K Hz(must be normal)	
Power Input: NOM 40W, Max 80W	
Life Test: WHITE NOISE 40W 96H	
Magnet: Size: 85*32*15 Grade: Y30 Weight:13.1Oz	
Voice Coil: 25.5 (mm): 2 (L) Winding length: 11.3 (mm) Former Material: KSV/2L	
Size: 6.5"	

Polarity:When a positive DC voltage is applied to the voice coil terminal marked (RED DOT OR "+"). and a negative to the other terminal,the diaphragm should move upwards.

Qms: 6.61	BL: 4.8
Qes: 0.70	MMS: 11.8
Qts: 0.63	Vas: 14.8L

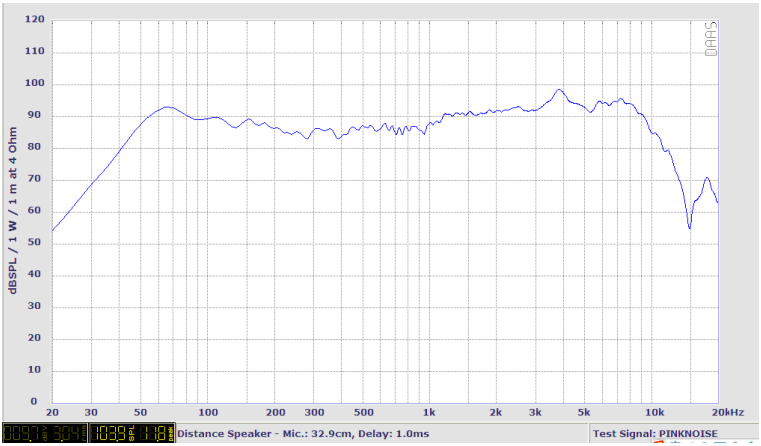
System	NIS-6X
Nominal Impedance: 4Ω±15%	
FO: 60Hz ± 20% (without baffle)	
Output SPL: 88±3dB at PST from 1W/1M	
Sweep Test: Sine wave 12V, from 60～ 20k Hz(must be normal)	
Bottoming Test: Sine wave 13V, from 60 ～ 20K Hz(must be normal)	
Power Input: NOM 40W, Max 80W	
Life Test: WHITE NOISE 40W 96H	
Magnet: Size: 85*32*15 Grade: Y30 Weight:13.1Oz	
Voice Coil: 25.5 (mm): 2 (L) Winding length: 11 (mm) Former Material: KSV/2L	
Size: 6.5"	

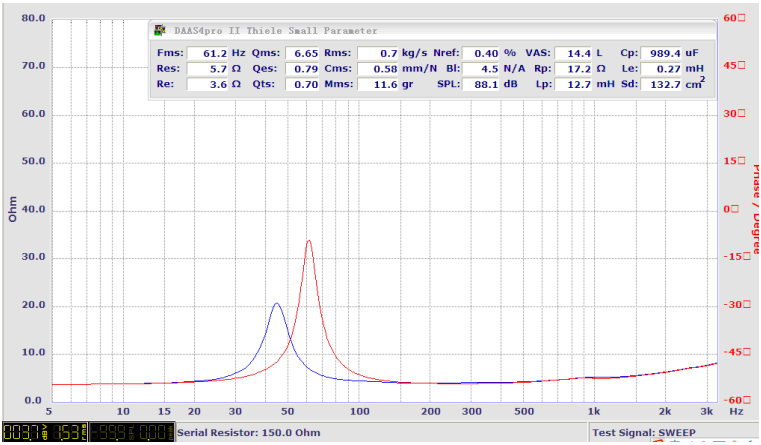
Polarity:When a positive DC voltage is applied to the voice coil terminal marked (RED DOT OR "+"). and a negative to the other terminal,the diaphragm should move upwards.

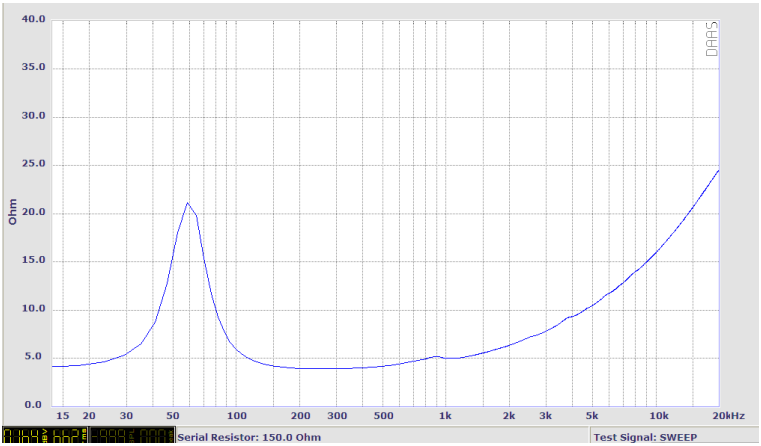
Qms: 6.72	BL: 4.4
Qes: 0.80	MMS: 11.7
Qts: 0.72	Vas: 14.9L

Graph

TOY-6K

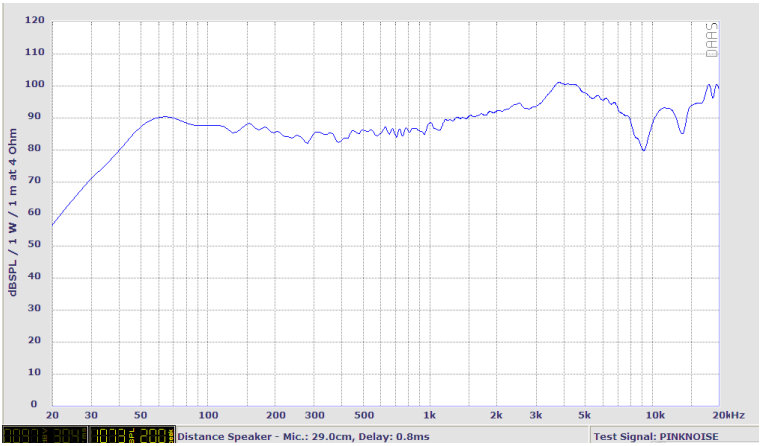

dBSPL / 1 W / 1 m at 4 Ohm
120
110
100
90
80
70
60
50
40
30
20
10
0
20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
DAAS
Distance Speaker - Mic.: 32.9cm, Delay: 1.0ms
Test Signal: PINKNOISE

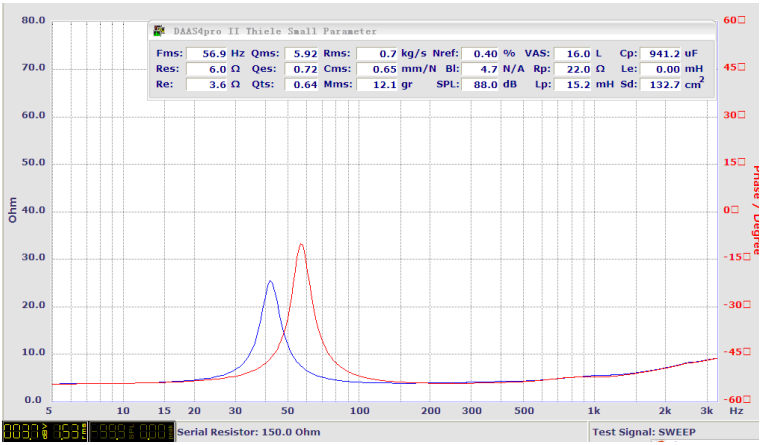

DAAS4pro II Thiele Small Parameter
Fms: 61.2 Hz Qms: 6.65 Rms: 0.7 kg/s Nref: 0.40 % VAS: 14.4 L Cp: 989.4 uF
Res: 5.7 Ω Qes: 0.79 Cms: 0.58 mm/N Bl: 4.5 N/A Rp: 17.2 Ω Le: 0.27 mH
Re: 3.6 Ω Qts: 0.70 Mms: 11.6 gr SPL: 88.1 dB Lp: 12.7 mH Sd: 132.7 cm²
Ohm
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
60
45
30
15
0
-15
-30
-45
-60
Phase / Degree
5 10 15 20 30 50 100 200 300 500 1k 2k 3k Hz
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

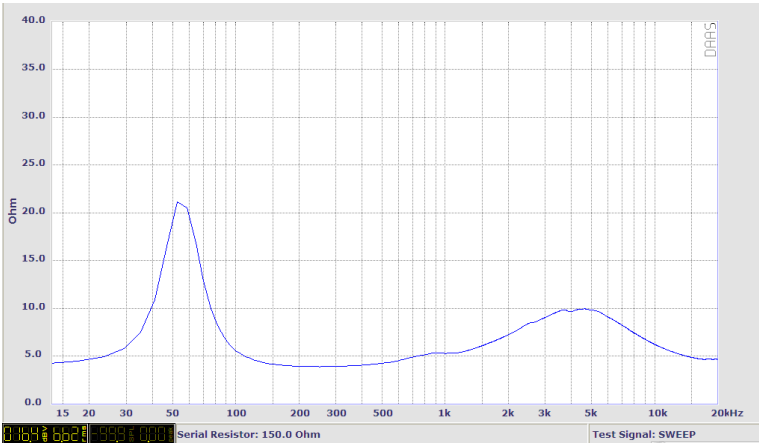

Ohm
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
DAAS
15 20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

Graph

TOY-6X

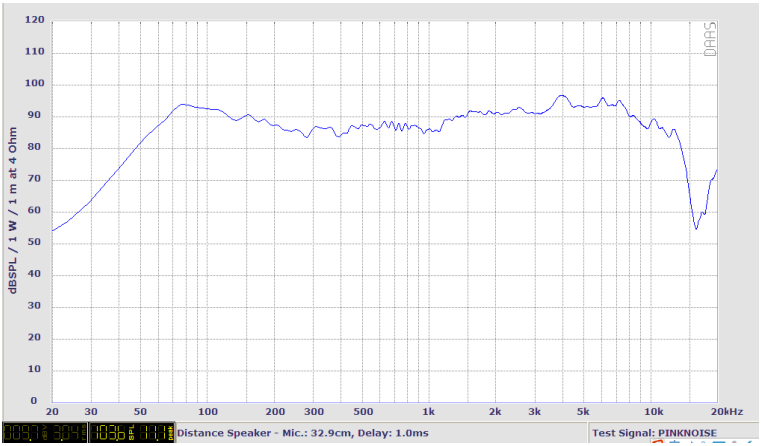

dBSPL / 1 W / 1 m at 4 Ohm
120
110
100
90
80
70
60
50
40
30
20
10
0
20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
DAAS
Distance Speaker - Mic.: 29.0cm, Delay: 0.8ms
Test Signal: PINKNOISE

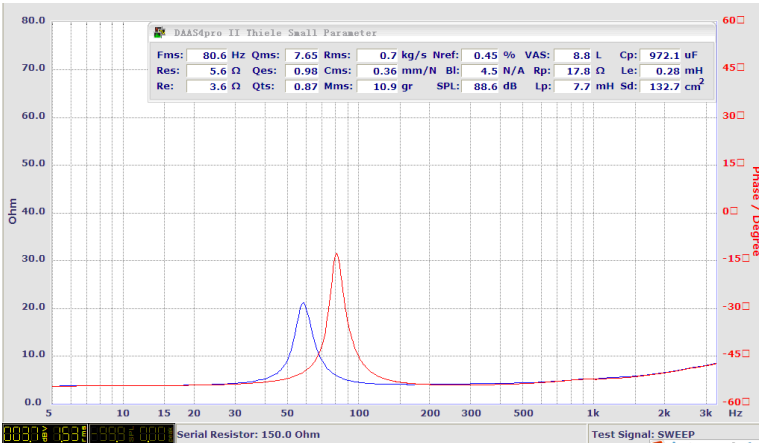

DAAS4pro II Thiele Small Parameter
Fms: 56.9 Hz Qms: 5.92 Rms: 0.7 kg/s Nref: 0.40 % VAS: 16.0 L Cp: 941.2 uF
Res: 6.0 Ω Qes: 0.72 Cms: 0.65 mm/N Bl: 4.7 N/A Rp: 22.0 Ω Le: 0.00 mH
Re: 3.6 Ω Qts: 0.64 Mms: 12.1 gr SPL: 88.0 dB Lp: 15.2 mH Sd: 132.7 cm²
Ohm
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
60
45
30
15
0
-15
-30
-45
-60
Phase / Degree
5 10 15 20 30 50 100 200 300 500 1k 2k 3k Hz
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

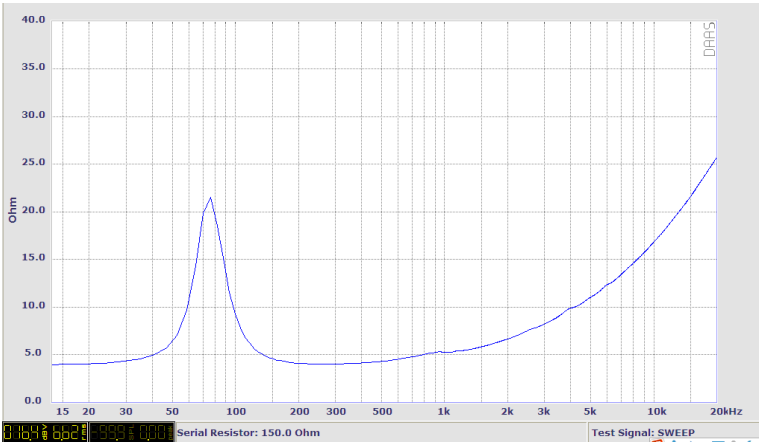

Ohm
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
15 20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
DAAS
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

Graph

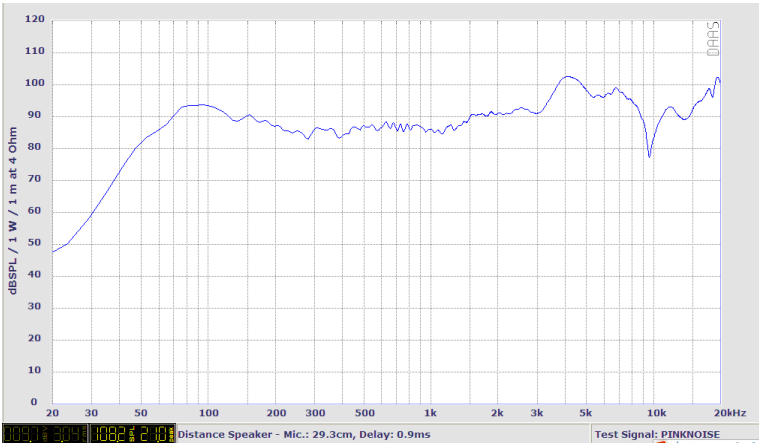
HON-6K

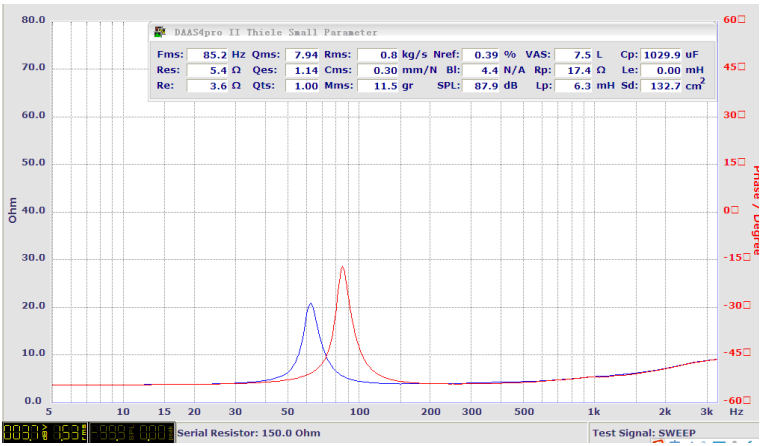

dBSPL / 1 W / 1 m at 4 Ohm
120
110
100
90
80
70
60
50
40
30
20
10
0
20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
DAAS
Distance Speaker - Mic.: 32.9cm, Delay: 1.0ms
Test Signal: PINKNOISE

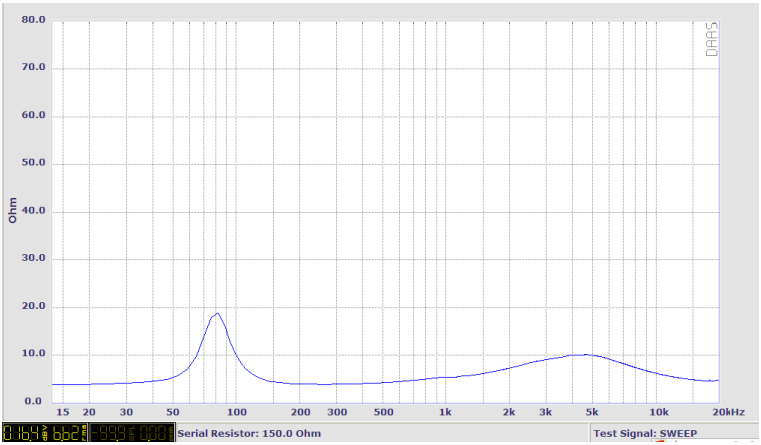

DAAS4pro II Thiele Small Parameter
Fms: 80.6 Hz Qms: 7.65 Rms: 0.7 kg/s Nref: 0.45 % VAS: 8.8 L Cp: 972.1 uF
Res: 5.6 Ω Qes: 0.98 Cms: 0.36 mm/N Bl: 4.5 N/A Rp: 17.8 Ω Le: 0.28 mH
Re: 3.6 Ω Qts: 0.87 Mms: 10.9 gr SPL: 88.6 dB Lp: 7.7 mH Sd: 132.7 cm2
Ohm
Phase / Degree
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
60□
45□
30□
15□
0□
-15□
-30□
-45□
-60□
5 10 15 20 30 50 100 200 300 500 1k 2k 3k Hz
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP


Ohm
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
DAAS
15 20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

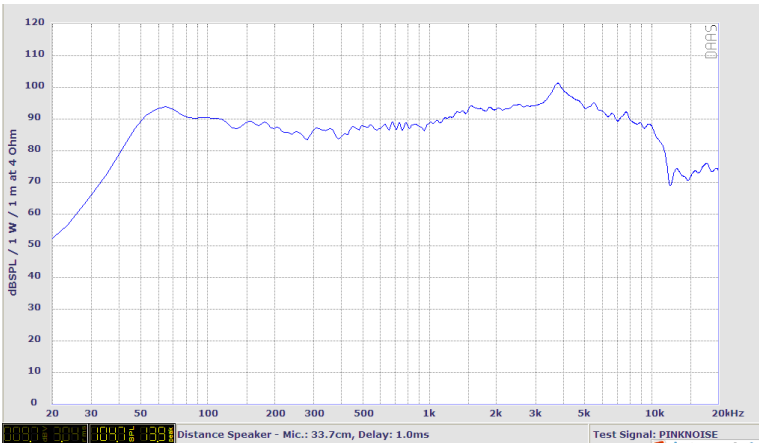
HON-6X

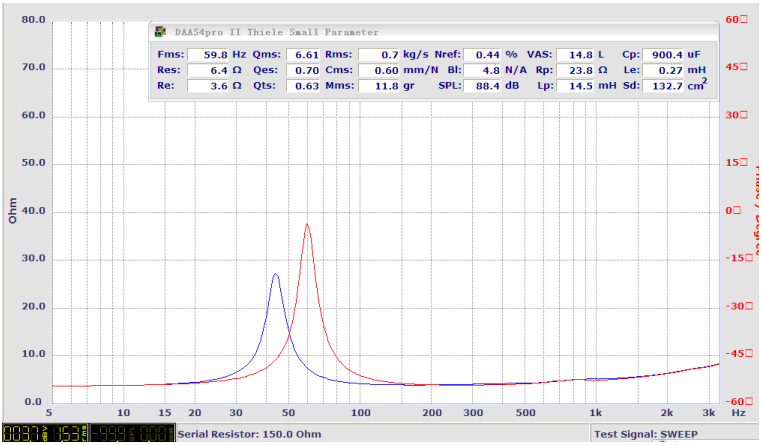

dBSPL / 1 W / 1 m at 4 Ohm
DAAS
Distance Speaker - Mic.: 29.3cm, Delay: 0.9ms
Test Signal: PINKNOISE

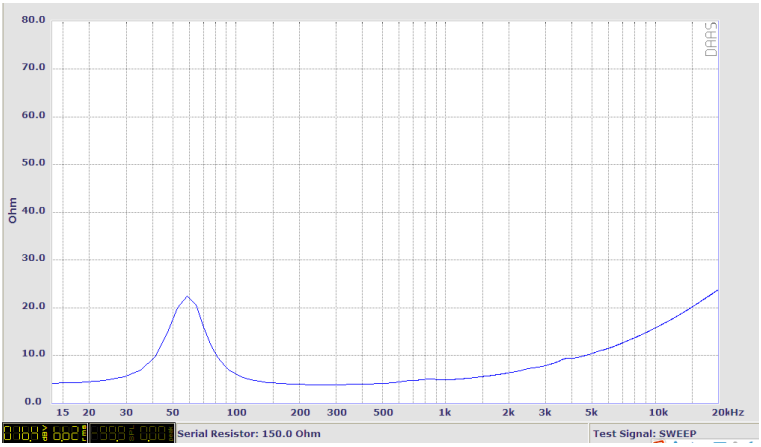

DAAS4pro II Thiele Small Parameter
Fms: 85.2 Hz Qms: 7.94 Rms: 0.8 kg/s Nref: 0.39 % VAS: 7.5 L Cp: 1029.9 uF
Res: 5.4 Ω Qes: 1.14 Cms: 0.30 mm/N Bl: 4.4 N/A Rp: 17.4 Ω Le: 0.00 mH
Re: 3.6 Ω Qts: 1.00 Mms: 11.5 gr SPL: 87.9 dB Lp: 6.3 mH Sd: 132.7 cm²
Ohm
phase / degree
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP


Ohm
DAAS
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

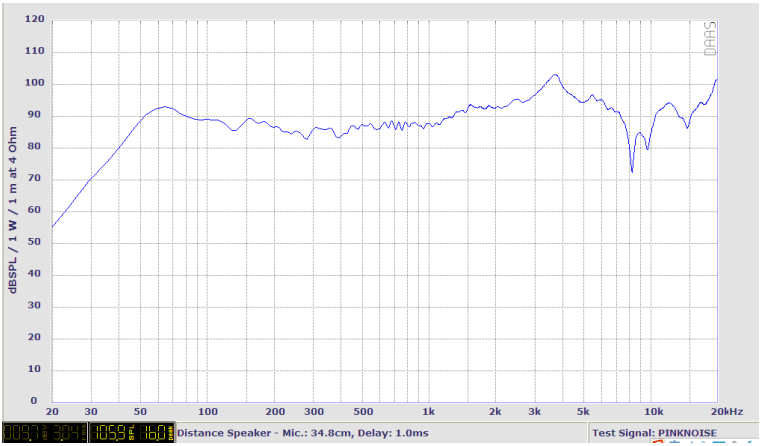
NIS-6K

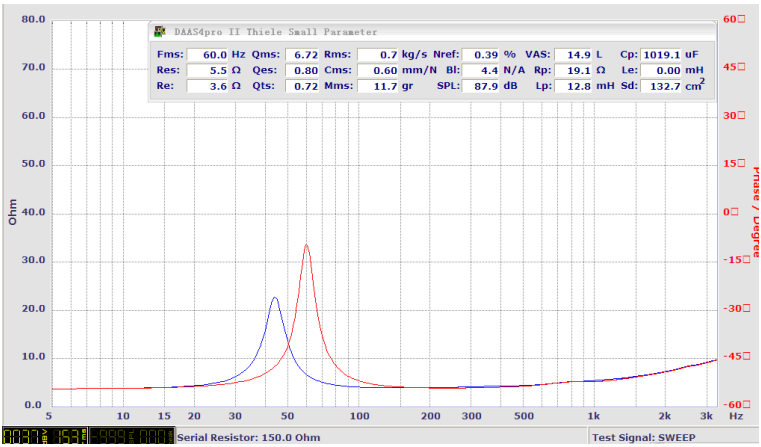

dBSPL / 1 W / 1 m at 4 Ohm
DAAS
Distance Speaker - Mic.: 33.7cm, Delay: 1.0ms
Test Signal: PINKNOISE

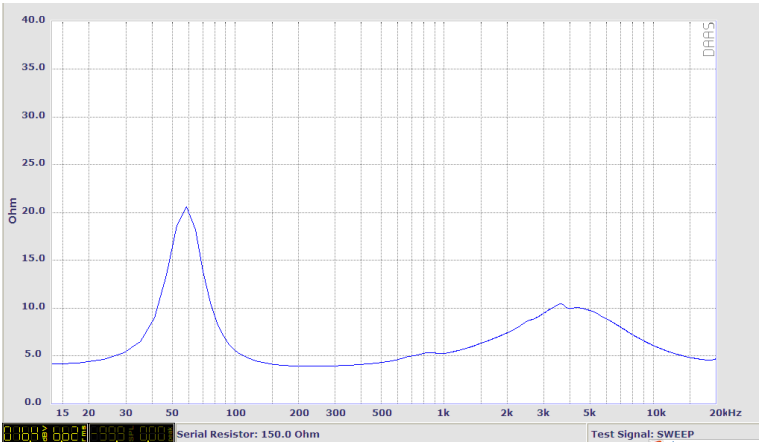

DAAS4pro II Thiele Small Parameter
Fms: 59.8 Hz Qms: 6.61 Rms: 0.7 kg/s Nref: 0.44 % VAS: 14.8 L Cp: 900.4 uF
Res: 6.4 Ω Qes: 0.70 Cms: 0.60 mm/N Bl: 4.8 N/A Rp: 23.8 Ω Le: 0.27 mH
Re: 3.6 Ω Qts: 0.63 Mms: 11.8 gr SPL: 88.4 dB Lp: 14.5 mH Sd: 132.7 cm²
Ohm
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP


Ohm
DAAS
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

NIS-6X


dBSPL / 1 W / 1 m at 4 Ohm
120
110
100
90
80
70
60
50
40
30
20
10
0
20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
DAAS
Distance Speaker - Mic.: 34.8cm, Delay: 1.0ms
Test Signal: PINKNOISE

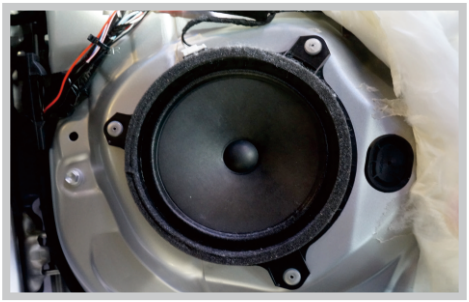

DAAS4pro II Thiele Small Parameter
Fms: 60.0 Hz Qms: 6.72 Rms: 0.7 kg/s Nref: 0.39 % VAS: 14.9 L Cp: 1019.1 uF
Res: 5.5 Ω Qes: 0.80 Cms: 0.60 mm/N Bl: 4.4 N/A Rp: 19.1 Ω Le: 0.00 mH
Re: 3.6 Ω Qts: 0.72 Mms: 11.7 gr SPL: 87.9 dB Lp: 12.8 mH Sd: 132.7 cm²
Ohm
Phase / Degree
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
60
45
30
15
0
-15
-30
-45
-60
5 10 15 20 30 50 100 200 300 500 1k 2k 3k Hz
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP


Ohm
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
DAAS
15 20 30 50 100 200 300 500 1k 2k 3k 5k 10k 20kHz
Serial Resistor: 150.0 Ohm
Test Signal: SWEEP

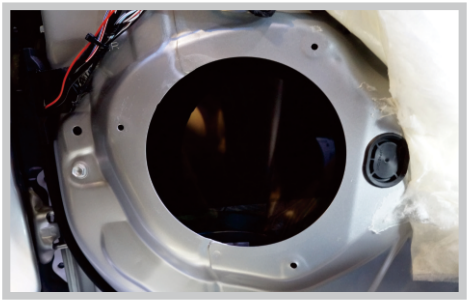
Due to the various construction designs of the vehicles, only one model can be shown here as an example.
Example TOYOTA Prius

6.5" Woofer Installation

1) Remove the Door-trim.



2) Remove Original Speakers.



3) Figure after Removing Original Speaker.

4) Install our 6.5" Woofer and Connect the Original Connector.