

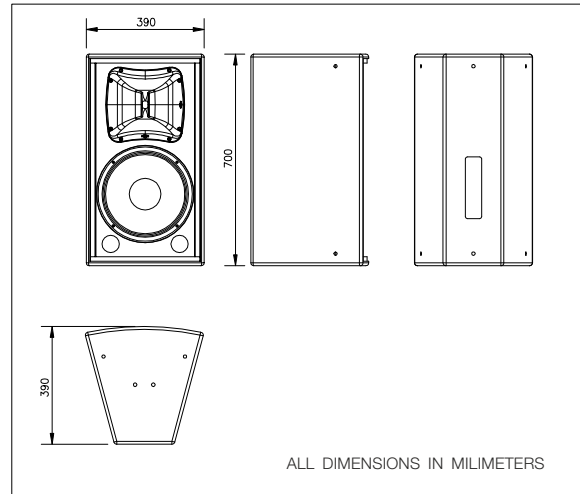
WR-6412

TWO-WAY WEATHER RESISTANT LOUDSPEAKER SYSTEM



Models and versions;

WR-6412CX, covered exposure, black
WR-6412DX, direct exposure, black
WR-6412CXW, covered exposure, white
WR-6412DXG, direct exposure, grey



ALL DIMENSIONS IN MILIMETERS

The D.A.S. WR-6412 is a two-way vented loudspeaker system for applications covering speech reinforcement, program reproduction and live music productions specially designed to be used outdoors due to its specific treatments against dust, water and humidity.

The Low Mid range utilizes a high efficiency 12" low frequency speaker with 3" voice coil.

The High end makes use of a 1.5" exit compression driver with 3" titanium diaphragm coupled to a rotatable 60° x 40° constant directivity horn.

The enclosure is manufactured from Birch Plywood and it can be ordered in two different special finishings; CX consists of Polyurea paint which is intended for covered areas and DX which consists of a fiberglass finish intended for non covered areas (system directly exposed to weather conditions). The trapezoidal enclosure has 15° side angles for easier rigging.

The unit has a robust stainless steel grille design specially covered with foam and a hydrophobic cloth to protect the loudspeaker components. The covering is resistant to wear and tear and provides protection from dust and dirt as well.

14 integrated rigging points that accept 10M forged steel eyebolts make suspension in either the horizontal or vertical positions safe and simple. The D.A.S. WR-6412 can be also installed using its specific stainless steel U-bracket AXU-WR6412.

The cabinet is provided with an undetermined cable for connection.

Intended for Auditoriums, Theaters, Worship Centres, Sports Facilities, Live Clubs, Themed Entertainment Venues or Public Buildings and Schools.

Technical Specifications

RMS (Average) Power Handling ^a :	400 W
Program Power Handling ^a :	800 W
Peak Power Handling ^a :	1600 W
On-axis Frequency Range (-10dB):	60 Hz - 20 kHz
Nominal Impedance:	8 Ohms
Minimum Impedance:	8,2 Ohms @ 135 Hz
On-axis Sensitivity 1w/1m:	98 dB SPL
Rated Peak SPL at Full Power:	130 dB SPL
Nominal -6dB Beamwidths:	60° x 40° Rotatable
Enclosure Material:	Birch Plywood
Color/Finish:	CX, Black or White/Polyurea DX, Military Grey or Black/ Fiberglass
Transducers/Replacement Parts:	LF: 12AV/GM 12P HF: M-75/GM M-75
Grille:	Stainless steel
Connector:	Barried Strip
Dimensions (H x W x D):	70 x 39 x 39 cm 27,6 x 10,4 x 10,4 in
Net Weight:	24 kg (52,8 lb)
Optional Accessories:	AXU-WR6412

EN54-24 Based Technical Specifications

Nominal Power ^d :	300 W
On-axis Frequency Range (-10dB):	60 Hz - 20 kHz
Nominal Impedance:	8 Ohms
Minimum Impedance:	8,2 Ohms @ 135Hz
On-axis Sensitivity 1w/4m ^b :	82,5 dB
Measured Maximum SPL at 4m ^b :	106,7 dB
Horizontal Coverage Angles (-6dB) ^c :	500Hz, 135°. 1kHz, 92°. 2kHz, 70°. 4kHz, 65°.
Vertical Coverage Angles (-6dB) ^c :	500Hz, 144°. 1kHz, 122°. 2kHz, 57°. 4kHz, 42°.
Enclosure Material:	Birch Plywood
Color/Finish:	CX, Black or White/Polyurea DX, Military Grey or Black/ Fiberglass
Transducers/Replacement Parts:	LF: 12AV/GM 12P HF: M-75/GM M-75
Environmental Type:	Type B
Environmental Performance:	EN 60529 IP 56
Grille:	Stainless steel
Connector:	Barried Strip
Dimensions (H x W x D):	70 x 39 x 39 cm 27,6 x 10,4 x 10,4 in
Net weight:	24 kg (52,8 lb)
Optional Accessories:	AXU-WR6412

^aBased on a 2 hour test using a 6dB crest factor pink noise signal.

^bConventionally, 3dB higher than RMS measure, although this already, utilizes a program signal.

^cCorresponds to the signal crests for the test described in ^a.

^dNominal Power based on a 100h test using a 6dB crest factor pink noise signal filtered according to the IEC 60268-1:1985 norm and band-pass filtered with Butterworth 24dB/Oct filters from 89Hz to 11,2kHz.

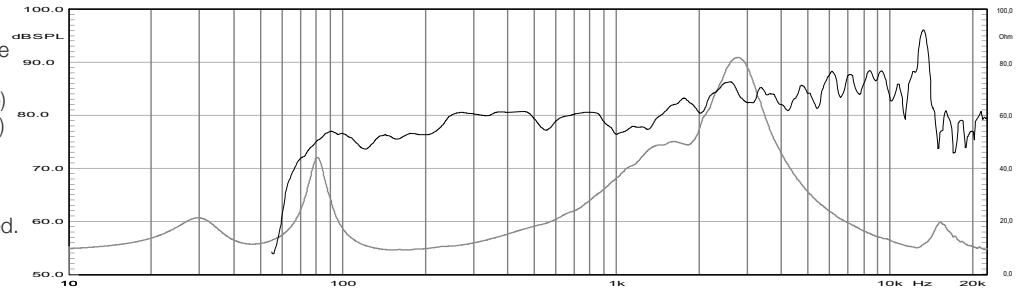
^eSensitivity and Max SPL measured using a 6dB crest factor pink noise, averaged from 100Hz to 10kHz in 1/3 Octave bands.

^fCoverage measured from 500Hz to 4kHz in Octave bands.

^gObtained by integration over a period of at least 30s.

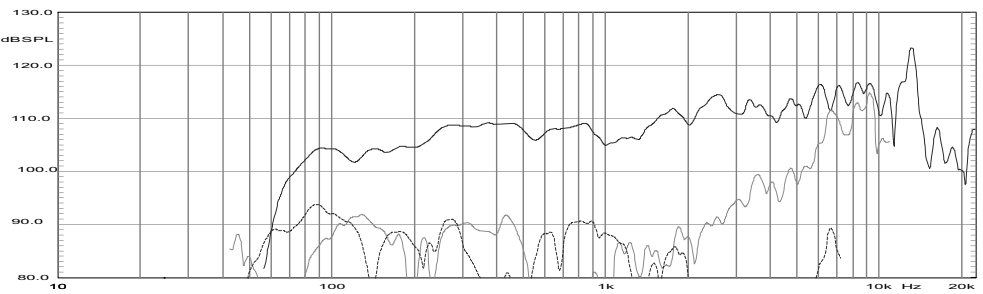
Frequency Response

Shows the frequency response at 4 m of a unit radiating to an anechoic environment (4p) and driven by a 1 W (2,83 V) swept sine signal, and impedance curve. For better detail, only light smoothing (1/12th Octave) has been used.



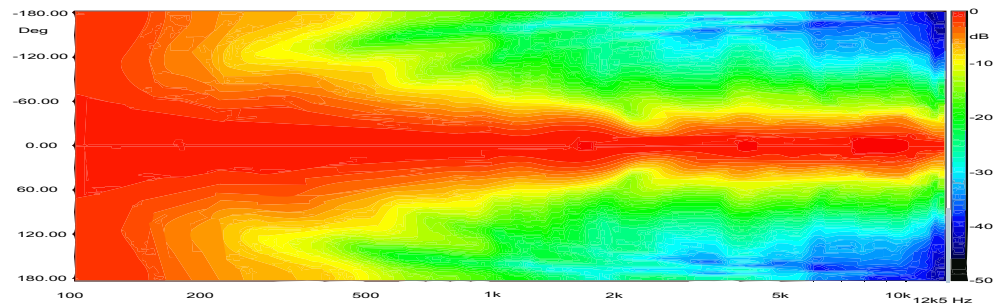
Distortion

Shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves (rised 20dB for clarity) for a unit driven at 10% of its RMS Power Handle.



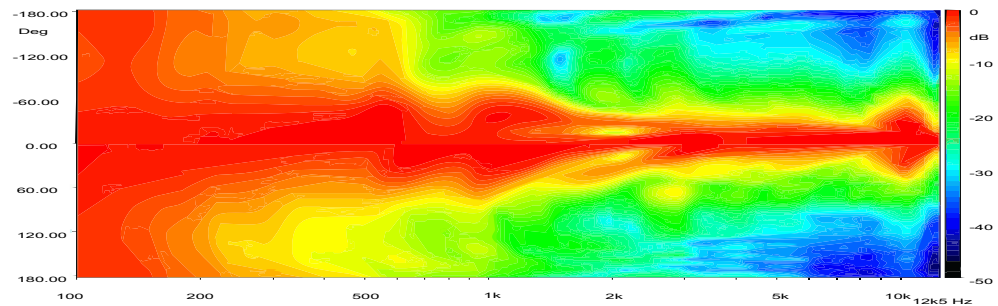
Directivity

Shows normalized horizontal isobar plot.



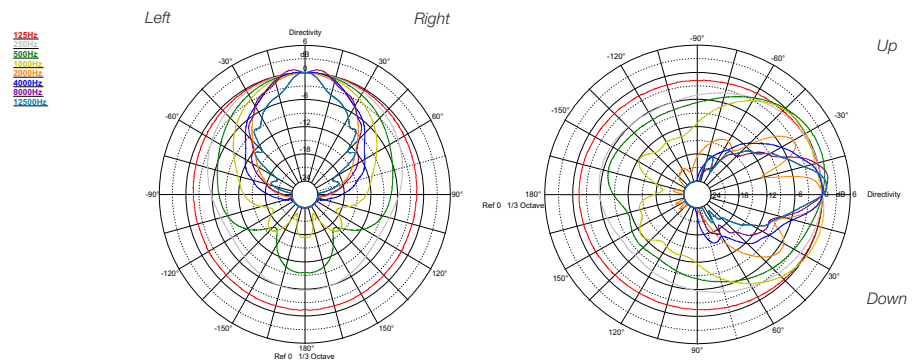
Directivity

Shows normalized vertical isobar plot.



Polar Response

1/3 octave band horizontal (left) and vertical (right) polars for the indicated frequencies. Full scale is 30dB, 6dB per division.



NOTES: Frequency response measured at 4m (13,12ft). For better detail, only light smoothing (1/12th octave) has been used. Polars were acquired by placing the unit on a computer controlled turntable inside a 300 m³ (10594 ft³) anechoic chamber. Measurement distance is 4m (13,12ft).

Reference Axis: Axis is on the center of the grille surface and perpendicular to the grille surface.
 Reference plane: Plane is on the grille surface and perpendicular to the reference axis.
 Horizontal plane: Plane is containing the reference axis and perpendicular to the reference plane

Product improvement through research and development is a continuous process at D.A.S. Audio. All specifications subject to change without notice.



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