

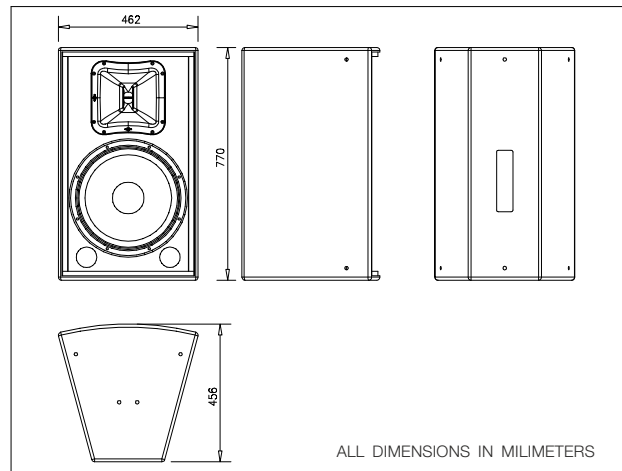
WR-6415

TWO-WAY WEATHER RESISTANT LOUDSPEAKER SYSTEM



Models and versions;

WR-6415CX, covered exposure, black
 WR-6415DX, direct exposure, black
 WR-6415CXW, covered exposure, white
 WR-6415DXG, direct exposure, grey



ALL DIMENSIONS IN MILIMETERS

The D.A.S. WR-6415 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 15" 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 prevent and 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-6415 can be also installed using its specific stainless steel U-bracket AXU-WR6415.

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^R: 400 W
 Program Power Handling^P: 800 W
 Peak Power Handling^K: 1600 W
 On-axis Frequency Range (-10dB): 55 Hz - 20 kHz
 Nominal Impedance: 8 Ohms
 Minimum Impedance: 8 Ohms at 133 Hz
 On-axis Sensitivity 1w/1m: 99 dB SPL
 Rated Peak SPL at Full Power: 131 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: 15AV/GM 15P
 HF: M-75/GM M-75
 Grille: Stainless steel
 Connector: Barried Strip
 Dimensions (H x W x D): 77 x 46,2 x 45,5 cm
 30,3 x 18,2 x 17,9 in
 Net Weight: 28 kg (61,6 lb)
 Optional Accessories: AXU-WR6415

EN54-24 Based Technical Specifications

Nominal Power^T: 300 W
 On-axis Frequency Range (-10dB): 55 Hz - 20 kHz
 Nominal Impedance: 8 Ohms
 Minimum Impedance: 8 Ohms @ 133 Hz
 On-axis Sensitivity 1w/4m²: 82dB
 Measured Maximum SPL at 4m^M: 107 dB
 Horizontal Coverage Angles (-6dB)²: 500Hz, 120°. 1kHz, 84°.
 2kHz, 60°. 4kHz, 60°
 Vertical Coverage Angles (-6dB)²: 500Hz, 127°. 1kHz, 105°.
 2kHz, 54°. 4kHz, 40°
 Enclosure Material: Birch Plywood
 Color/Finish: CX, Black or White/Polyurea
 DX, Military Grey or Black/
 Fiberglass
 Transducers/Replacement Parts: LF: 15AV/GM 15P
 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): 77 x 46,2 x 45,5 cm
 30,3 x 18,2 x 17,9 in
 Net weight: 28 kg (61,6 lb)
 Optional Accessories: AXU-WR6415

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

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

^KCorresponds to the signal crests for the test described in ^R.

^TNominal 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.

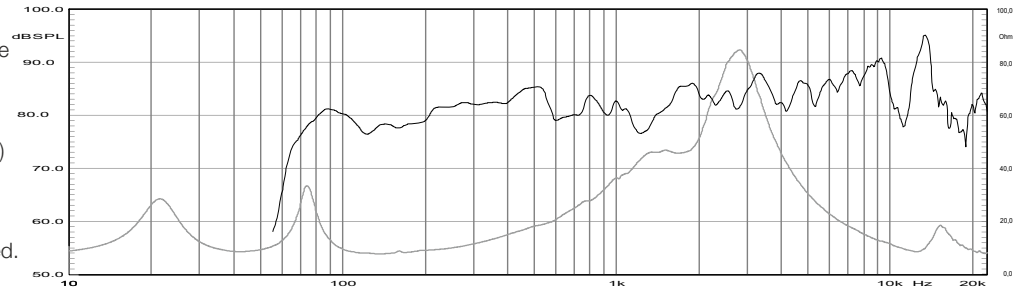
²Sensitivity and Max SPL measured using a 6dB crest factor pink noise, averaged from 100Hz to 10kHz in 1/3 Octave bands.

³Coverage measured from 500Hz to 4kHz in Octave bands.

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

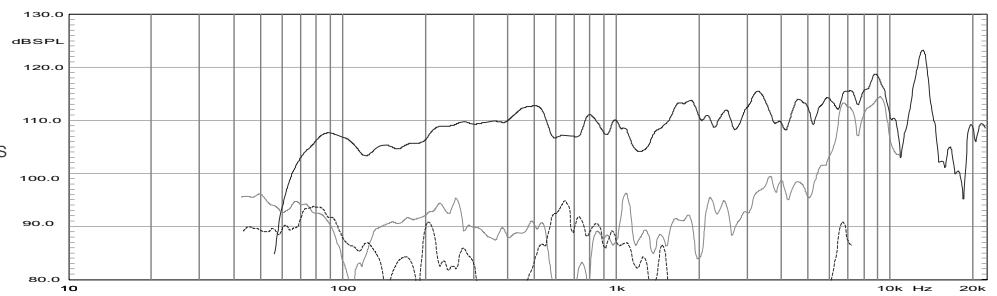
Frequency Response

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.



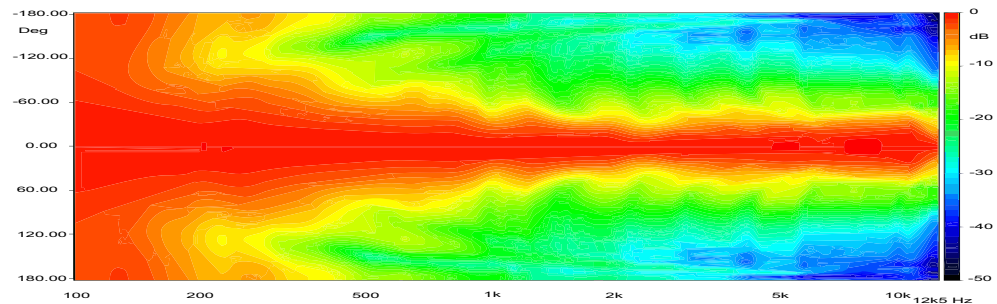
Distortion

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.



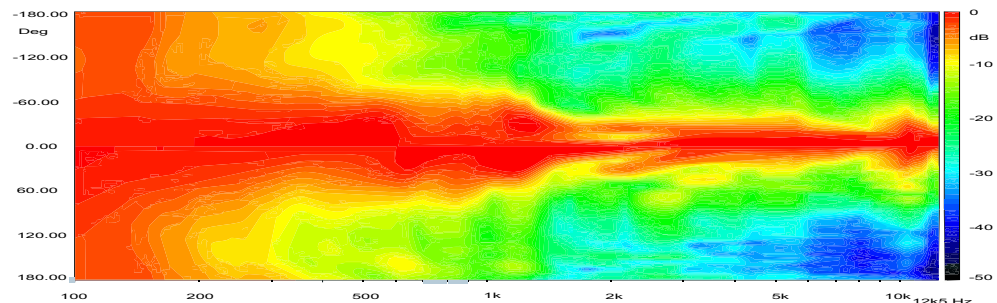
Directivity

Shows normalized horizontal isobar plot.



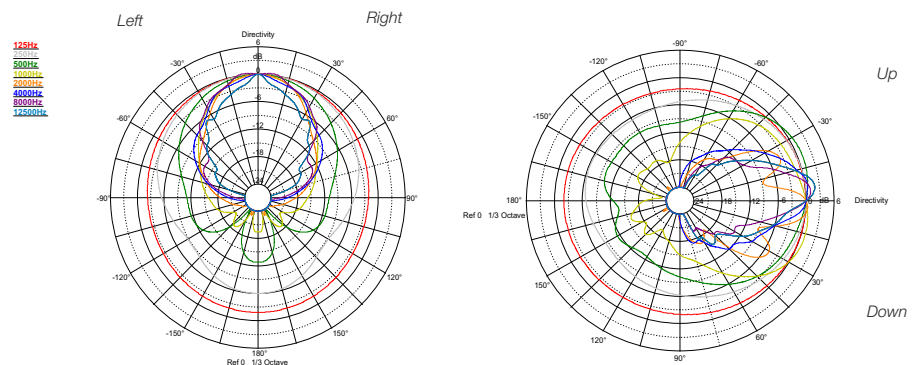
Directivity

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.



D.A.S. Audio S.A.
C/ Islas Baleares, 24
46988 Fuente del Jaro
Valencia - SPAIN
Tel. 961 340 525 - Tel. Int. +34 961 340 593
Fax 961 340 607 - Fax Int. +34 961 340 607

D.A.S. Audio of America Inc.
Sunset Palmetto Park - 6816 NW 77th Court
Miami, FL 33168 U.S.A.
Tel. 305 436 0621 - Fax. 305 436 0628
Toll Free 1 888 DAS 4 USA.

D.A.S. Audio Asia Pte. Ltd.
25 Kaki Bukit Crescent # 01-00/ 02-00
Kaki Bukit Technopark I - Singapore 416258
Co. Reg. No. 200704134E
Tel. +65 6742 0151 - Fax. +65 6742 0157

www.dasaudio.com