

Dispersion Series

DX8

Multipurpose Compact Loudspeaker

Two-way coaxial bass reflex
1 x 8" ventilated driver (2" coil)
1 x 1" HF driver (1.75" coil)

Features

Versatile F.O.H./ stage monitor speaker
High clarity sound reproduction
High acoustic efficiency

Applications

Small F.O.H
Low profile stage monitor
Front fill / delay line
Distributed sound

Specifications

200 W AES
97 dB SPL @ 1W, 1m
8 Ohm
105° conical opening
16.6" x 9.9" x 10.3" (422 x 236 x 260 mm)

2 thermal protections
Mono-amplification mode
Optional subwoofer

The APG DX8 speaker is a compact two-way wideband speaker. The LF/MF section comprises an 8" speaker loaded in a 4th-order vented enclosure, with a coaxial 1" compression driver handling the HF section.

Like the other APG Dispersion series, the DX8 uses a coaxial loudspeaker set that provides a very coherent acoustic field with 105° conical coverage. The DX8 is characterized by an exceptional power/size ratio, great clarity in sound reproduction and a very sophisticated ergonomics: due to its cabinet geometry, with its 30° slanted panel, the DX8 is at home either on the stage as a monitor, or as a main front of house speaker. The wooden enclosure features a 36 mm pole mount socket, two cut-out handles and a recessed space for the "touring" quick removable fixing system QRFS30. Threaded inserts are also standard equipment, allowing the use of a 4 mm steel bracket for fixed installation (option ETDX8).

Dedicated processors SPX8 and LPDX8 are available to operate the DX8 in wideband mode or combined with subwoofers. In that case APG recommends the following subwoofers: SB115 or TB115S.



Multi purpose DX8 speaker in FOH and floor monitor

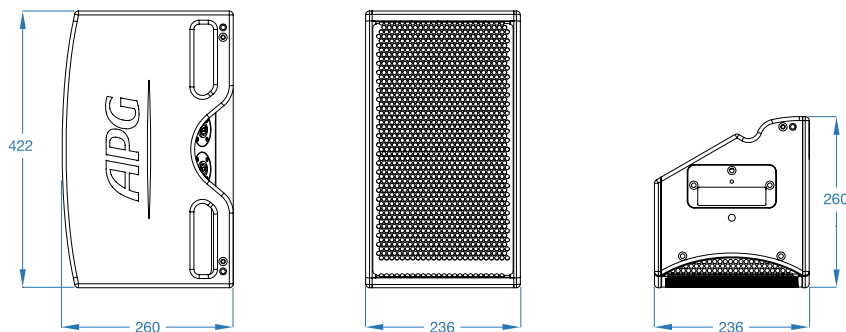
The DX8 offers total versatility between stage monitor and F.O.H applications, with or without subwoofers. The DX8 is recommended for small to medium size areas and as delayed complements in large P.A. systems. Its compactness and sonic performances make it the perfect loudspeaker for applications where unobtrusiveness and high quality sound reproduction are required.

The DX8 can be installed in many ways, directly on a pole or simply put on a shelf; quickly rigged in horizontal or vertical position thanks to the QRFS30 "touring" accessory while the ETDX8 lyre bracket is dedicated to fixed installation. The DX8 can be fitted with an optional 70V-100V transformer when a large number of loudspeakers is required. In wideband mode the DX8 is perfect for speech and vocals. With a processor, it offers great performance for acoustic music reproduction. With the addition of subwoofers, it is capable of high level performance in mid-sized venues. It is also a very discrete and efficient stage monitor for theatre or TV stage. LPDX8 and SPX8 processors allow to manage a stereo system+subwoofer, respectively with or without active protections of transducers. APG's digital processor offers complete digital signal processing for individual speaker processing as well as full system management.

APG

DX8

Technical Specifications



Features

	Low section	High section
Frequency range with processor (± 3 dB)	60 Hz to 2 kHz	2 kHz to 19 kHz
Frequency range without processor (± 3 dB)	80 Hz to 2 kHz	2 kHz to 19 kHz
Sensitivity @ 1W 1m, f > 100 Hz	97 dB SPL (1)	
Maximum continuous level at 1m, f > 100 Hz	118 dB SPL	
Peak level at 1m, f > 100 Hz	124 dB SPL	
Dispersion angle	105° conical (2)	
Nominal impedance	8 Ohm	

Components

	Low section	High section
Transducers	1 x 8" coaxial ventilated driver	1" compression driver
Coil diameter	45 mm (1.75")	45mm (1.75")
Type of load	Bass reflex	Coaxial horn

Power

Recommended amplification	200 to 400 W
Peak	600 W
AES (3)	200 W

Construction and characteristics

Cabinet	15 mm Finnish birch plywood
Crossovers	Air core inductors, plastic film capacitors, wirewound resistors
Circuit protection	Thermal circuit breaker with automatic reload
Coating	Black, impact resistant aquarethane
Front panel	Acoustically transparent perforated steel, 1.5 mm thick (5 mm acoustic foam)
Connectors	2 x SPEAKON NLM4P (4)
Handle	1 x internally recessed hand-hold
Fittings	1 x 36 mm, pole mount socket
Dimensions (H, W, D)	16.6" x 9.9" x 10.3" (422 x 236 x 260 mm)
Unit weight	26.5 lb (12 kg)
Gross weight, packed x 2	61.7 lb (28 kg)

Options and Accessories

QRFS30	Quick Release (or Removable) Flying System (Max 30 kg)
QFS2	2 integrated steel pieces for quick rigging
ETDX8 (5)	Fixed installation lyre bracket for DX8
FCDX8	Flight Case for 2 DX8 speakers

Contact us for all painting or waterproof adaptation

Signal Processing

The SPX8 processor provides active crossover, system alignment, infrasonic and ultrasonic protection, standard filtering and distribution functions for a stereo system including use of APG subwoofers.

The LPDX8 processor includes in addition to the standard SPM8 function, simulation of operating parameters that allows control of diaphragm displacement, voice coil temperature and amplifier clip. This processor also features a keyboard to select the type of APG subwoofer used with the DX8.

Digital APG processors provide complete digital signal processing for all kinds of system configuration. APG France provides presets according to applications.

We have included separate data for the High and Low Section in the Features table; although it is unusual to provide these in the specifications of a passive system such as DS8, it allows calculation of the precise amount of energy delivered by each transducer, and also the frequency range within which they operate.

(1) Sensitivity measures 95 dB before power shaping and 100dB afterwards. Power shaping optimizes system linearity and increases power handling in the given frequency range.

(2) Dispersion is controlled from 600 Hz. The angles given here are irrelevant below this frequency.

(3) In order to take full benefit of the dynamic performance, sonic quality and reliability of the speakers, the recommended amplification must at least correspond to the AES rating. Lesser amplification is acceptable for applications requiring less power (near-field, distributed systems,...), whilst not being less than half the AES rating. The AES power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 6dB) through a frequency range of one decade.

(4) The SPEAKON connectors are wired pin 1+, cold pin 1-.

(5) The ETDX8 is a simple and costeffective lyre bracket dedicated to fixed installation.

(6) The DX8 can be provided with custom color (PENTONE or RAL ref). Two levels of waterproof protection can be applied depending on the environment.

5 YEARS WARRANTY "A five years warranty covers passive filters, transducers and compression drivers. The warranty does not cover cosmetic damages and damages due to misuse, improper installation, or damages caused by alterations.

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APG has a comprehensive research and development policy for the continual improvement of its products and service. Due to this, new materials, manufacturing methods and technological changes may be introduced without prior notice. As a result, an APG product can differ from its published description in certain areas. However, unless otherwise indicated, its characteristics will always equal or better the published specifications.

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