

Dispersion Series

DX15

High performance multipurpose speaker

2-way coaxial, passive cross over
1 x 15" Neodymium (3" coil)
1 x HF1" Neodymium (1,75" coil)

Features

"Monitoring" sonic performances
Frequency and phase linearity
Very limited distortion
Highly sophisticated ergonomics
Compatibility with DX12

Applications

Nearfield and mid-range listening
Main FOH, delay speaker or front fill
High precision stage monitoring
Touring and fixed installation

Specifications

600 W AES
100 dB SPL @ 1W 1m
580 x 575 x 340 mm
8 Ohm
80° Conical coverage

Mono amplification
Dedicated processor recommended

The DX15 is a two way, compact wide band multipurpose speaker. The mid/low transducer is a 15" neodymium bass reflex. The DX15 takes advantage of a proprietary technique of forced thermal transfer, which drastically reduces thermal compression effects, resulting in exceptional sound pressure capacity down to 60Hz. The high frequency section comprises a 1.4" neodymium compression driver offering extremely low distortion and frequency extension up to 19kHz.

The passive filtering is designed to manage the phase alignment of the speakers and to obtain amplitude and linear phase responses in with a crossover that limits the distortion ratio.

The original cabinet design naturally enables two different angles as a floor monitor (30° for near-field and 45° for far-field applications), or it may be pole-mounted or flown for use as a FOH, delay or in-fill system. It also integrates 2 handles for quick and easy handling in all positions and cable plugs are protected.

The 15APT90 option is an angle tuning plate with the ETDX15 bracket that is hidden in the sides of the cabinet. The QFS4 comprises 4 parts for a quick and secure hanging with bolts or pins. The DX15 works in mono amplification and requires the use of an APG processor in the musical high power applications. For low and very low frequency reinforcement, the following subs are recommended: TB115S, TB118S, TB215S or TB218S.



Multi purpose DX15 speaker in FOH and floor monitor

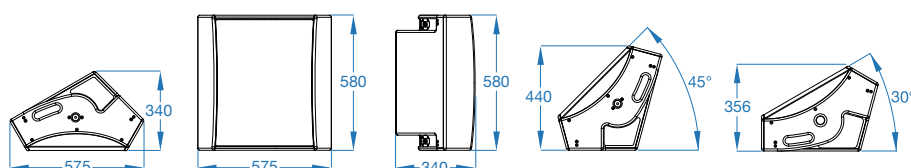
The DX15 is high power, 2-way, compact monitor speaker that benefits from coaxial technology. It combines high acoustic performance with sophisticated and functional ergonomics. Thanks to the coaxial coupling of 15" and 1" drivers, the DX15 delivers "studio monitoring" – type performance with extended bandwidth, high precision and ultra-low distortion. The linear frequency response also ensures minimum feedback. The asymmetric cabinet design enables two different angles as a floor monitor (30° for near-field and 45° for far-field applications), or it may be pole-mounted or flown for use as a FOH, delay or in-fill system. The DX15 meets professional requirements in terms of versatility, compactness, light weight, and handling. It offers a low profile as a stage monitor, simple flying system, ultra-fast setup, and fully protected cables and plugs etc. It is the ideal solution for PA companies thanks to its multipurpose feature set and adaptability, both for corporate events and live sound. In wide band use, the DX15 is perfectly suited to vocal applications and stage monitoring, distributed systems or as a FOH complement (delay or front fill).

When combined with subwoofers, the DX15 becomes a powerful, compact and easily transportable system ideal for medium-throw FOH applications. When combined with subwoofers, the DX15 becomes a powerful, compact and easily transportable system ideal for short and medium throw FOH applications or as "drum fill" .

APG

DX15

Technical Specifications



Features

	Low section	High section
Frequency response with processor (± 3 dB)	55 Hz to 1600 Hz	1600 Hz to 19 kHz
Frequency response without processor (± 3 dB)	70 Hz to 1600 Hz	1600 Hz to 19 kHz
Sensitivity @1W -1m, f>80 Hz	100 dB SPL (1)	
Max continuous level @1m, f > 80 Hz	127 dB SPL	
Peak level @1m, f > 80 Hz	133 dB SPL	
Dispersion angle	80° conical (2)	
Nominal impedance	8 Ohm	

Components

	Low section	High section
Transducers	1 x 15" ND with ventilated driver	1 x 1" HF ND driver
Coil diameter	75 mm (3")	45 mm (1.75")
Type of load	Bass reflex	Conical Horn

Power

Recommended amplifier	400 to 1200 W
Peak	2400 W
AES 500 W (3)	600 W

Construction et characteristics

Cabinet	15 mm Finnish birch plywood
Crossover	Air core inductors, plastic film capacitors, wire wound resistors
Circuit protection	Thermal circuit breaker with automatic reloads
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)
Handles	2 x built-in steel bar
Fittings	1 x 36 mm, pole mount socket
Dimensions (H, W, D)	22.8" x 22.6" x 13.3" (580 x 575 x 340 mm)
Net unit weight	48,5 lb (22 kg)
Gross weight, packed	55,1 lb (25 kg)

Options et Accessories

15ATP90 (5)	Angle Tuning Plate (0° - 90°) for ETDX15
ETDX15 (5)	Quick rigging lyre bracket for DX15
QFS4 (6)	4 integrated steel quick rigging parts
FCDX15	Flight Case for 2 x DX15

Contact us for all painting or waterproof adaptation (7)

Signal processing

The SPX15 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 LPDX15 processor includes in addition to the standard SPX15 function, simulation of operating parameters that allows control of diaphragm displacement, voice coil temperature and amplifier clip ping. This processor also features a keyboard to select the type of APG subwoofer used with the DX15.

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

We have included a High and Low Section in the features table although it is unusual to illustrate this in the specifications of a passive system such as the DX15. From this information it is possible to calculate the precise amount of energy reproduced by each transducer, and also the frequency bands within which they operate.

(1) Power shaping optimizes system linearity and increases power handling in the given frequency range. Sensitivity measures 110 dB before power shaping and 100 dB afterwards.

(2) Dispersion is controlled from 800 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 hot pin 1+, cold pin 1-.

(5) ETDX15 is a 4 mm steel bracket allowing installation of speakers on either wall or ceiling with angle adjustment.

(6) The QFS4 option offers 8 rigging points thanks to screwed rings or quick release pins.

(7) The DX15 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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