

# Dispersion Series

# DX15

## Preliminary Data

### High performance multipurpose speaker

2-way passive, 1 x 15" Nd

1 x HF 1" Nd

### Features

Studio monitoring sound quality

Sonic transparency

Frequency and phase linearity

Very limited distortion

Highly sophisticated ergonomics

Compatible with DX12

### Applications

Nearfield and mid-range listening

Main FOH, delay speaker or front fill

High precision stage monitoring

Touring and mobile installations

### Specifications

600 W AES

100 dB SPL @ 1W 1m

580 x 575 x 340 mm

8 ohm

80° Conical coverage

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.



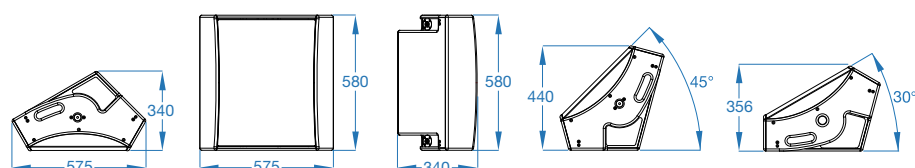
DX15 speaker

The DX15 is high power, 2-way, compact monitor speaker that benefits from coaxial technology. The coaxial driver alignment offers a perfectly coherent wide acoustic field even in nearfield listening. The result is a very homogeneous conical coverage and a limited feedback effect. The DX15 speaker 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". For low and very low frequency reinforcement, the following subs are recommended: SUB238P, TB115S, TB118S, and TB215S.

# APG

# DX15

## Technical Specifications



Features	Low section	High section
Frequency response without processor ( $\pm 3$ dB)	55 Hz to 1300 Hz	1300 Hz to 19 kHz
Frequency response with processor ( $\pm 3$ dB)	80 Hz to 1300 Hz	1300 Hz to 19 kHz
Sensitivity @1W -1m, f > 80 Hz	100 dB SPL	101 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

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
Protection grill	Acoustically transparent perforated steel, 1.5 mm thick
Front panel	Black, 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	56.2lb (21 kg)
Gross weight, packed	52.8lb (24 kg)

### Options et Accessories

QFS4	4 Quick Flying System pieces for DX12 and DX15
ETDX15	Quick rigging lyre bracket for DX15
15ATP90	Angle Tuning Plate (0° - 90°) for ETDX15
FCDX15	Flight Case for 2 x DX15

### Traitement du signal

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.

# APG