

# Dispersion Series

# DS8

## Multipurpose Compact Loudspeaker

Two-way coaxial bass reflex  
1 x 8" ventilated driver, 2" voice coil  
1 x annular dome tweeter

## Features

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

## Applications

Small F.O.H  
Low profile stage monitor  
Distributed sound

## Specifications

150 W AES  
95 dB SPL @ 1W, 1m  
8 ohms  
110° conical opening  
15.8" x 11.1" x 11.1" (400 x 280 x 280 mm)  
2 thermal protections

Mono-amplification mode  
Optional processor  
Optional subwoofer

The APG DS8 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 annular tweeter handling the HF section.

The DS8 is characterised by an exceptional power/size ratio, great clarity, high precision in sound reproduction and high reliability in very intensive operation.

Like the other APG Dispersion series, the DS8 uses a coaxial loudspeaker set that provides a very coherent acoustic field with 110° conical coverage. Due to its cabinet geometry, with its 45° slanted panel, the DS8 is at home either on the stage as a monitor, or as a main front of house speaker.

The wooden enclosure features a 36mm pole mount socket and a cut-out handle. Two threaded inserts are also standard equipment, allowing the use of a 4mm steel bracket for fixed installation (option ETDS8).

Dedicated processors SPM8 and LPDS8 are available to operate the DS8 in wideband mode or combined with subwoofers.

APG recommends the following subwoofers : SUB138P/S, SUB238S or TB115S.



DS8 shown in FOH and stage monitor settings

The DS8 offers total versatility between stage monitor and F.O.H applications, with or without subwoofers. The DS8 is recommended for small to medium size areas and as delayed complements in large P.A. systems. Its compactness and sound clarity make it the perfect loudspeaker for applications where unobtrusiveness and high quality sound reproduction are required.

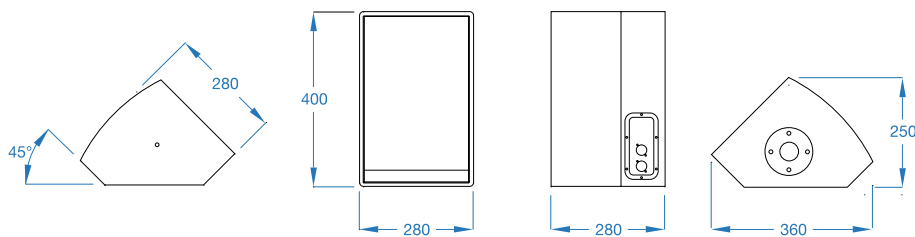
The DS8 can be installed in many ways, wall or ceiling-mounted with its steel bracket, directly on a pole or simply put on a shelf. The DS8 can be fitted with an optional 70V-100V transformer when a large number of loudspeakers is required. In wideband mode the DS8 is perfect for speech and vocals. With a processor, it offers fantastic performance for background music. 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, radio or TV stage.

LPDS8 and SPM8 processors allow to manage a stereo system+subwoofer, respectively with or without active protections of transducers.

# APG

# DS8

## Technical Specifications



### Features

	Low section	High section
Frequency range with processor ( $\pm 3$ dB)	65 Hz to 2,6 kHz	2,6 kHz to 20 kHz
Frequency range without processor ( $\pm 3$ dB)	80 Hz to 2,6 kHz	2,6 kHz to 20 kHz
Sensitivity @ 1W 1m, f > 100 Hz	95 dB SPL	95 dB SPL (1)
Maximum continuous level at 1m, f > 100 Hz		116 dB SPL
Peak level at 1m, f > 100 Hz		122 dB SPL
Dispersion angle		110° conical (2)
Nominal impedance		8 ohms

### Components

	Low section	High section
Transducers	1 x 8" coaxial ventilated driver	1 x coaxial dome tweeter
Coil diameter	45 mm (1.75")	26mm (1")
Type of load	Bass reflex	Coaxial horn

### Power

Recommended amplification	150 to 300 W
Peak	450 W
AES (3)	150 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
Protection grill	Acoustically transparent perforated steel, 1.5 mm thick
Front panel	Black, 10 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)	15.8" x 11.1" x 11.1" (400 x 280 x 280 mm)
Unit weight	26,5lb (12 kg)
Gross weight, packed x 2	61,7lb (28 kg)

### Options and Accessories

ETDS8	Lyre bracket for DS8 speaker
INOX01 (5)	Stainless style screws and waterproof treatment on driver
TROPIC02 (6)	INOX01 plus waterproofing treatment on wooden cabinet
REPEINT03 (7)	Painting option according to RAL or PENTONE reference

### Signal Processing

The SPM8 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 LPDS8 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 DS8.

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) Stainless steel screws and waterproofing of speaker cones.

(6) Tropicalisation includes fiber-glass reinforced polyester coating of the cabinet, stainless steel screws and waterproofing of speaker cones.

(7) Paint preparation for the requested color.

**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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