

iX Series

Compact speaker for fixed installation

Two way coaxial, bass reflex
1x12" ventilated cone driver, 3" voice coil
1,4" HF driver, 3" voice coil

Features

Exceptional size/power ratio
Sound reproduction accuracy
High level of reliability
Studied ergonomics for fixed installation

Applications

F.O.H application
Fixed Installation

Specifications

50Hz – 22kHz @ -10dB
450 W AES
134 dB SPL Max @ 1m
90° conical
8 Ohms

Mono amplification

The iX12 is a two way full range compact loudspeaker designed for fixed installation purpose. The lo/ mid section comprises a 12" cone driver installed in bass reflex. The mid/hi section comprises a 1" HF driver. The iX12 is equipped with a set of high coaxial speakers which confers a perfectly coherent sound field with a conical dispersion of 100°.

The iX12 integrates the same electro-acoustic set according to an ergonomics and many accessories designed specifically to answer all types of fixed installation constraints : trapezoidal shape (cut sides with 22,5°) allowing vertical or horizontal positioning by one or two speakers with coupling bracket, special "L" shape for mural application, internal metal structure inserts and for safety, rigging system with clamp or indexing rail.

This rail allows multitude positions of adjustment in the vertical angle.

Dedicated processor DMS48F, make it possible to protect and optimize the operation of the iX12N in full range mode or combined with subwoofer. APG recommend the following subwoofers : SB115-M2, SB118, TB118S or TB215S.

i X 1 2



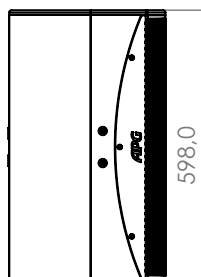
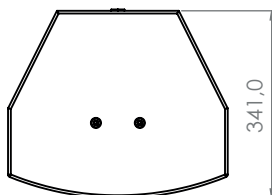
iX12 speaker

The iX12 offers a great flexibility in use: all types of Front of House, with or without subwoofer. This loudspeaker is characterized by a very advantageous size/power ratio and its high reliability during extreme operation. The ergonomics and the multiple additional options of the iX12 offer a perfect adaptability with all the architectural constraints: it can simply be put on the floor, suspended alone or in coupling configuration or fixed at the wall or the ceiling; it can receive special treatment for tropical environment or special colours coatings. As a speaker of main system, it is dedicated to medium size high precision applications. The iX12 can be used alone to offer high precision and clearness in vocal application. For music applications in full range mode, the use of a dedicated processor is mandatory in order to enhance the musical reproduction. Combined with subwoofers, the iX12 can make compact front of house systems providing with important dynamics, well adapted to sound clubs, cabarets or concert halls.

APG

iX12

Technical Specifications



Features

	Low section	High section
Frequency range with processor (± 10 dB)	50 Hz - 22 kHz	
Continuous dB SPL level @ 1m	128 dB SPL	
dB SPL max level @1m (1)	134 dB SPL	
Directivity @ -6dB	90° conical (2)	
Nominal impedance	8 Ohms	

Components

Transducers	1 x 12" ventilated driver	1 x 1,4" HF driver
Coil Diameter	3"	3"
Type of load	Bass reflex	Conical horn

Power

Recommended amplification (3)	500 to 1000 W
AES (3)	450 W

Construction and characteristics

Cabinet	15 mm Birch plywood / Black impact resistant aquarethane coating
Dimensions (H, W, D)	15.7"x 23.5"x 13.4" (400 x 598 x 341 mm)
Net unit weight	44 lb (20 kg)
Connectors	SPEAKON NL4MP (4)
Mechanical aspect: Front face	Black acoustic tissue / Acoustically transparent perforated steel
IP	43

Options and Accessories

iX12BH (5)	Horizontal lyre bracket for iX12 speaker
iX12BHW	Horizontal lyre bracket for iX12W speaker (white version)
iX12BHCOL	Horizontal lyre bracket for iX12 speaker (RAL version))
iX12BV (5)	Vertical lyre bracket for iX12 speaker
iX12BVW	Vertical lyre bracket for iX12W speaker (white version)
iX12BVCOL	Vertical lyre bracket for iX12 speaker (RAL version)
CM-P	Phoenix connector kit
T100	Line transformer 70V / 100V, 100W
T200	Line transformer 70V / 100V, 200W

Electronics

Processors	DMS48F, DMS48F_D*
Amplifiers	SA20:2, SA30:2, SA100:2, DA15:4_D*, DA50:4_D*

D* : Dante Option

(1) AES2 Norm 2012 power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 12dB) through a frequency range in 24dB/oct of one decade.

(2) Dispersion is controlled from 500 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 4 pins Speakon connectors are wired 1+, 1- in Lo/LoMid and 2+, 2- in Mid/Hi.

(5) iX12BV / iX12BH is a steel bracket allowing installation of speakers on either wall or ceiling with angle adjustment.

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.

Diffusion : September 2020

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.