

ACTIVE SPEAKERS

CARBON12A

Part no. H11709 EAN 3662009027845



...and well thought out.

- › Active 12" + 1.35" speaker
- › 1500 W RMS
- › DSP with color display
- › Bluetooth TWS and CARBONcontrol app



PRODUCT PAGE ONLINE

audiophony.com/en/product/carbon12a

Manuals, compatible accessories and updates — scan the code or click the address.

[User manual \(PDF\)](#)

Technical specifications

Amplification	1000W RMS Class D (lows) / 500W RMS Class D (highs)
Total amplification power	1500W RMS / 3000W Max
Frequency response	50 Hz - 20 kHz
Maximum SPL	130 dB
Woofer	12 inches, 2.5-inch voice coil, 49.8 oz magnet, 2 ohms, 500W AES / 1000W program
Tweeter	1.35-inch High Polymer compression driver, 4 ohms, 50W AES
Dispersion H x V	90° x 70° (10 kHz)
Inputs	2 COMBO XLR/Jack with auto Mic/Line switching + Bluetooth
Outputs	1 XLR line output + Bluetooth TWS
Bluetooth	2402-2480 MHz band, +8 dBm / 6.31 mW
Controls	input 1 and 2 volume, MASTER volume, DSP with multiple settings, CARBONcontrol app
Power supply	220-240V AC 50Hz switching
Construction	nitrogen-injected composite cabinet, asymmetric shape with angled cut sides (monitor position), full-face metal grille, front-panel Power/Clip LED
Handles	1 on the side, 1 on top, 1 on the bottom
Rigging	3 M10 inserts, 36mm pole socket
Rubber feet	8 (4 on the bottom, 4 on the sides)
Protection	short-circuit, thermal, limiter
Dimensions (w x d x h)	360 × 353 × 628 mm
Net weight	17 kg

Overview

An active speaker built for the stage and professional gigs.

The CARBON12A is a 2-way active speaker designed for sound reinforcement at concerts, conferences, parties, or any event calling for professional-grade sound. With amplification and DSP built right in, it works equally well for touring engineers and permanently installed venues, ready to go without any extra signal-processing gear.

A woofer and compression driver built for power.

The CARBON12A pairs a 12-inch woofer with a 1.35-inch compression driver, for a total amplification power of 1500W RMS (3000W peak), a maximum SPL of 130 dB, and a frequency response spanning 50 Hz to 20 kHz.

A compression driver built for clarity.

The horn, featuring an extended dispersion control zone, pairs with a polymer-diaphragm compression driver rather than a titanium one, for a cleaner, more transparent top end. Dispersion sits at 90° x 70° at 10 kHz, for even coverage across the listening area.

1,500 W RMS

Total Amplification Power

130 dB max

Sound Pressure Level (SPL)

50Hz – 20kHz

Frequency response

90° x 70°

H x V Dispersion

A unique design...

A nitrogen-injected composite cabinet, lighter and stronger.

The CARBON12A's enclosure is nitrogen-assisted injection molded, a process that trims weight while boosting rigidity by 20% over standard plastic molding. The resulting composite behaves a bit like wood grain in use: its internal structure delivers real stiffness without adding mass, a plus for both cabinet strength and sound quality, with fewer parasitic resonances than standard injection-molded plastic.

...and well thought out.

Connectivity and setup.

Two Line/Mic inputs on COMBO XLR/Jack connectors, auto-switching to match whatever's plugged in, plus the Bluetooth input. One XLR line output feeds the signal onward to another speaker, a mixing console, or an amplification system, also available as a Bluetooth TWS stream. Switching power supply, 220-240V AC 50Hz, with a 1.80m Seetronic power cord included.

A shape built with stage monitoring in mind too.

Its asymmetric shape, with angled cut sides, lets the CARBON12A double as a stage monitor (wedge), alongside standard pole-mounted use. Full-face metal grille, 3 handles (side, top, bottom), a 36mm pole socket, 3 M10 rigging inserts, and 8 rubber feet (4 on the bottom, 4 on the sides) for a stable footing on the ground or on its side.

A built-in DSP.

A full DSP, controlled from the speaker or remotely.

Fanless Class D amplification (1000W RMS for lows, 500W RMS for highs) is controlled via a DSP accessible from the 2.4-inch color front display or the CARBONcontrol app (iOS and Android). Available settings include mode (Normal, Live, Club, Speech), position (pole, monitor, stand), delay up to 100 m, an adjustable high-pass filter from 20 to 150 Hz, and a ducking function with selectable source channel, threshold, attenuation, and release time. Per-channel EQ, treble, and bass, with Live, Vocal, or Custom presets.

Master's Degree

Modes (Normal, Live, Club, Speech)

Position (Stand, Monitor, Bracket)

Delay, HPF, Ducking with adjustable source, threshold, attenuation, and release time

Input per channel

Equalizer, Treble, Bass

Presets (Live, Vocal, Custom)

Output Mode

Mix or Link

: Enabling TWS Streaming and the App

Other

Screen Backlight

Front Panel LED Control (Limit, ON, OFF)

Firmware Version

Restore Factory Settings

Locking and usage tracking.

Independent 4-digit lock codes for the LCD screen and the app, handy for keeping settings from drifting mid-show. A usage-hour counter, viewable and resettable from the menu.

Firmware Information.

Firmware version 1.0.4 comes preinstalled on CARBON12A and CARBON15A units currently in stock. It cannot be installed on earlier versions.

However, differences in firmware between two speakers have no impact on TWS Bluetooth compatibility, app functionality, or audio settings.

New features in firmware version 1.0.4:

LCD Key — locks the display and DSP (4-digit code)

APP Key — locks the application (4-digit code)

Time Clear — usage counter and reset

A dedicated app.

Unlock the full potential of your CARBON speaker.

Bluetooth, and one app for the whole CARBON lineup.

Bluetooth connectivity (2402-2480 MHz band, +8 dBm / 6.31 mW) supports simple streaming or full app control. TWS pairs two CARBON12A units in stereo (one speaker set to link, the other to secondary), with one-tap left/right swap or mono switching. The CARBONcontrol app runs every model in the CARBON range from a single interface: each speaker or sub in your rig shows up individually, with remote access to its full set of DSP settings.

Scene

Default · SUB 1 · SUB + 12A

Master Settings

Mode, Location, Delay, HPF.

Channel Settings

Equaliser, treble and bass for channels 1 and 2.

Mode

Normal, Rear Cardioid, Front Cardioid.

Setup

Output mode, Display Dim, Front Light.

Firmware Version

Current Version · Newest Version

The perfect companion.

Dive into the heart of the bass with the CARBON18ASub.

Thanks to its 1,000 W RMS (2,000 W max.) Class D amplifier, it delivers an impressive sound pressure level of up to 135 dB, with a wide frequency response ranging from 30 to 110 Hz.

Discover the CARBON18ASub

Key features:

Active 12" + 1.35" speaker, 1500W RMS / 3000W Max

DSP with 2.4" color display, CARBONcontrol app (iOS/Android)

Bluetooth with TWS function (stereo, mono, L/R swap)

Nitrogen-injected composite cabinet, lighter and stronger

Asymmetric shape usable as a stage monitor

Polymer-diaphragm compression horn, 90° x 70° dispersion

Code-locked screen/app, usage-hour counter

Technical specifications:

Compatible accessories



SPEAKER POLE (M20 thread)
B00659



CAB-200
H8245



Stick-RB
H11419



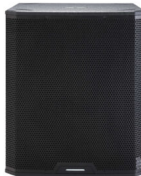
Stick-RW
H11420



Stick-SB
H11416



Stick-SW
H11417



CARBON18ASub
H11711



COV-CARBON12A
H11719



Stick-Lock
H11923

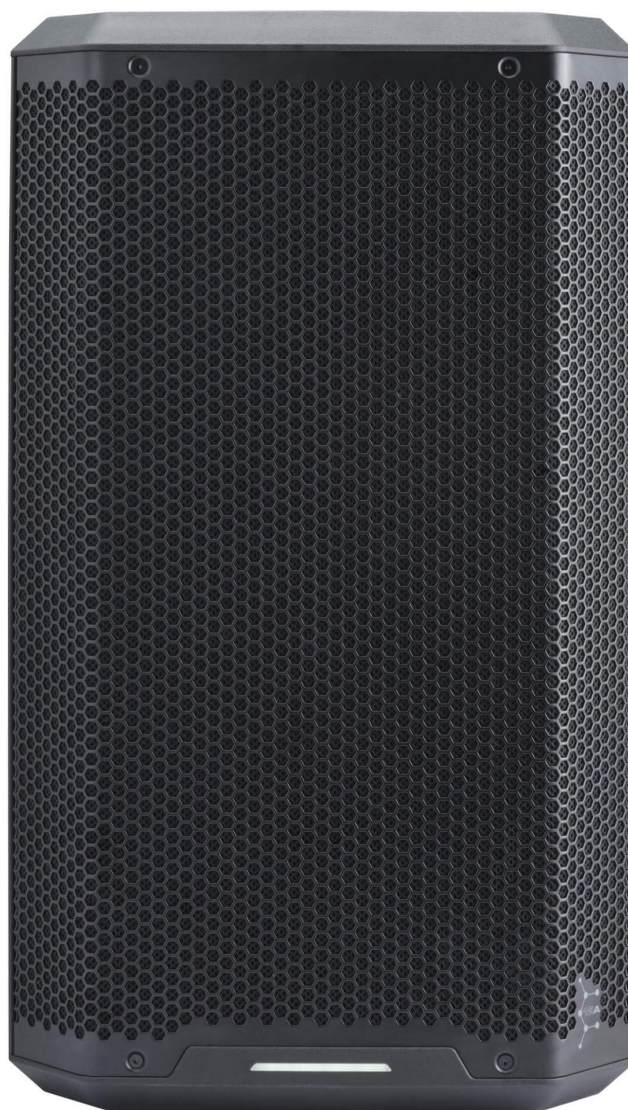


CARBON15ASub
H11912

Photo



Photo



Photo



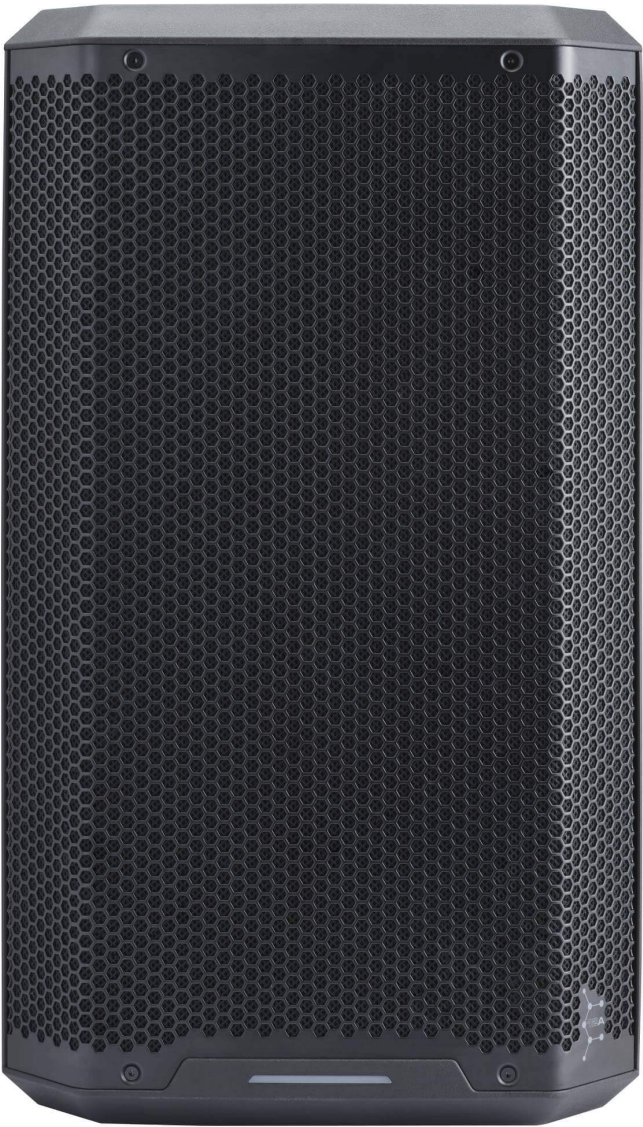
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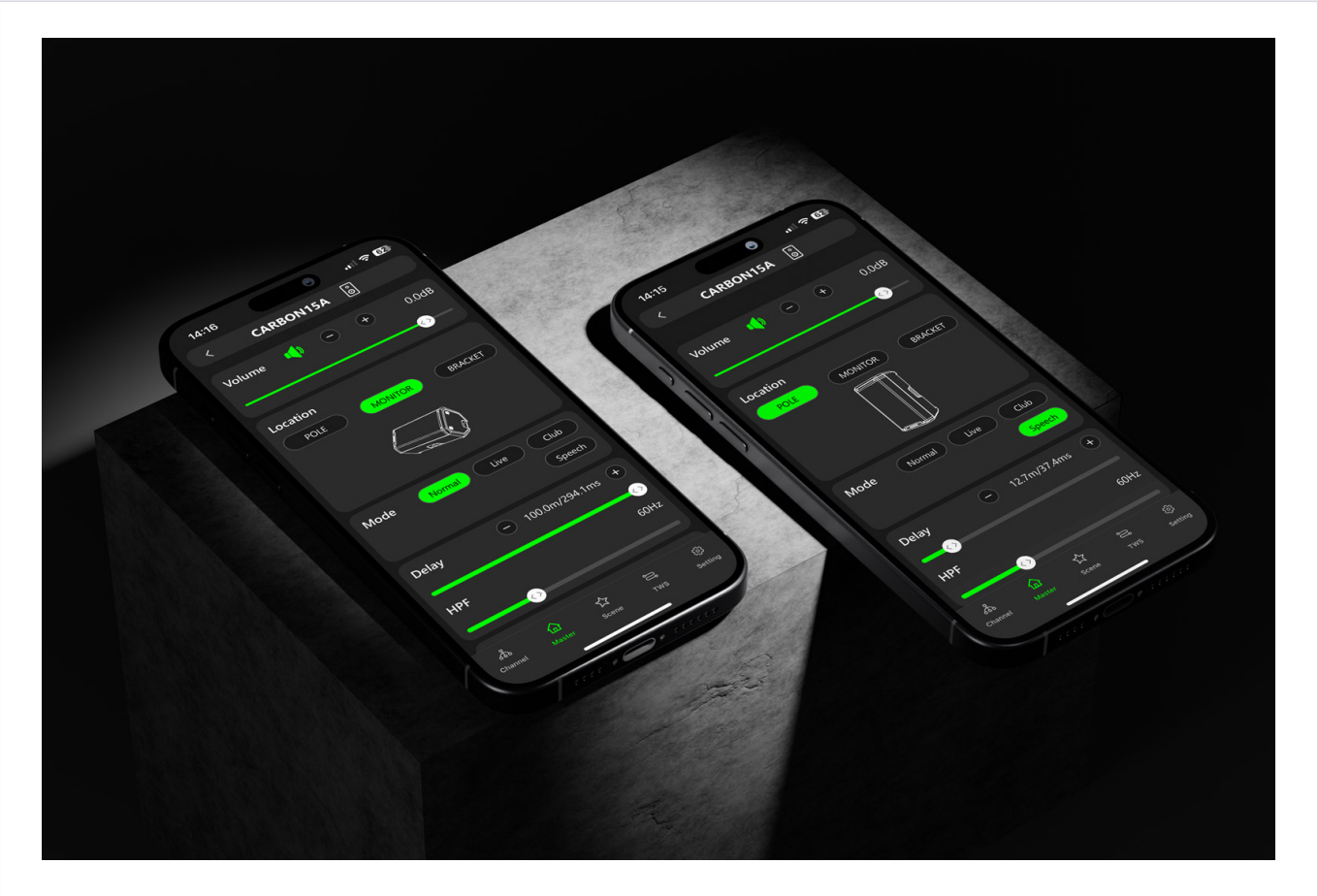
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