



AMINA

DATASHEET Revision 0.1

SAPPHIRE DUAL

HIGH PERFORMANCE STEREO INVISIBLE LOUDSPEAKER



SEAMLESS STEREO

The Sapphire Dual represents the ideal harmony between performance, versatility and installation flexibility in invisible audio technology. Refined through continuous acoustic innovation since 1999, it features our precision-engineered 'Symphony Cell' composite soundboard and optimized dual-exciter configuration per channel, delivering remarkably balanced audio across the entire frequency spectrum while maintaining complete invisibility.

REFINED FOR INTIMATE SPACES

The Sapphire Dual is carefully voiced to prioritise a warm tonal balance in a compact stereo format. Utilising the same Symphony Cell composite soundboard and precision exciter technology as the wider Sapphire range, it delivers a smooth, articulate mid-range, controlled high-frequency response and full-frequency range reproduction with astonishing dispersion. It's tuned performance ensures a warm, natural character that remains composed, even in acoustically challenging or confined spaces.

FLEXIBLE BY DESIGN

The Sapphire Dual is designed to adapt to a wide range of installation scenarios where traditional stereo solutions may not be practical. Its single-panel, dual-channel format enables stereo coverage from a single location, making it ideal for compact or architecturally constrained spaces. This flexibility allows it to be specified confidently across a variety of applications, from cloak-rooms, shower spaces, and hallways to other areas where space, layout or aesthetics limit conventional speaker placement.

SURFACE FREEDOM

Like the rest of the Sapphire range, the Dual uses the same advanced panel material and exciter technology, enabling seamless integration behind a variety of surface finishes. Whether installed beneath plaster, fabric or other decorative materials, it maintains consistent acoustic performance while remaining completely hidden, giving designers and installers maximum creative flexibility.

FEATURES AT-A-GLANCE



30W RMS/60W PEAK

Providing a maximum sound pressure of 101dB SPL from 2x 30W at four ohms



180° DISPERSION

Hemispheric dispersion throughout the speakers frequency range



SONIC CLARITY

Room-filling sound with warm, full-range Hi-Fi voicing and impeccable intelligibility



INSTALL FLEXIBILITY

Install in wall, ceiling or cabinetry and cover with almost any material



DUAL CHANNEL

Integrated stereo performance from a single installation point

SAPPHIRE DUAL SPECIFICATION

MEASURED AT 20°C WITH A 2MM PLASTER SKIM

NOMINAL IMPEDANCE	4 Ohms
SENSITIVITY	86dB (both channels @ 2.83V / 1m)
RATED MAXIMUM SPL	101dB SPL (both channels driven)
FREQUENCY RESPONSE (-6dB)	54Hz - 21.7kHz
COVERAGE (H/V)	180°/180°
POWER HANDLING (RMS/PEAK)	30w/60w (per channel)
RECOMMENDED HIGH PASS FILTER	40Hz, (24dB per Oct.)
ELECTRICAL CONNECTION	Wago Lever-Splice 16–10 AWG (1.5–6 mm²)
PRODUCT DIMENSIONS	450mm X 345mm X 31mm (17" ³ / ₄ x 13" ⁹ / ₁₆ x 1" ¹ / ₄)

PRODUCT WEIGHT 1.9kg (4lb 2 ³/₄oz)

DRIVERS (per-channel)	2 x Precision Tuned DML Drivers
VOICE COIL DIAMETER (per-channel)	1x 19mm, 1x 32mm
VOICE COIL CONDUCTOR	Dual Layer Wound Copper
SUSPENSION DESIGN	Engineered Spiderless Coupler
DIAPHRAGM DESIGN	Bending Wave Principle
DIAPHRAGM MATERIAL	Phenolic Honeycomb
RADIATOR SURFACE AREA	450mm X 345mm (17" ³ / ₄ x 13" ⁹ / ₁₆)

AVAILABLE ACCESSORIES

LOW-Z PROTECTION	Guardian 2/8/16 (2 channels)
HIGH-Z TRANSFORMER	Not yet available
MANUFACTURER WARRANTY	10 Years
MOUNTING HARDWARE	CV345 Backbox / SW345 Backbox / Tab Mounting Kit
FIRE BARRIER	Firehood 345

APPLICATION SPOTLIGHT

- The Sapphire Dual excels in spaces where a conventional stereo speaker pair is impractical:
- HALLWAYS & CORRIDORS:** Balanced stereo audio from a single installation location.
 - WC’S & SHOWER ROOMS:** High-quality sound in compact spaces with discreet integration.
 - TEAMS & HUDDLE ROOMS:** Clear, intelligible audio for conferencing and collaboration.
 - HOTEL SUITES:** True stereo reproduction without the need for multiple speakers.
 - HOME OFFICES & DRESSING ROOMS:** Ideal for smaller spaces where speaker placement is limited.

INSTALLATION SUPPORT

All Amina low-impedance loudspeakers require effective protection from being overdriven to qualify for our 10-year warranty. We recommend using Amina’s Guardian protection devices in-line between your amplifier and loudspeaker for optimal performance and longevity. Comprehensive installation instructions, training resources, CAD files, and application notes covering various finishing materials are available at aminasound.com. Our support team is always available to provide guidance for challenging installation scenarios

WARRANTY INFORMATION

Amina loudspeakers are designed to operate reliably for many years. Correctly installed in accordance with instructions, Amina warranties the loudspeakers against defective materials and workmanship for a period of ten years. Full warranty statement available at aminasound.com/warranty.



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AMINA UK
Amina Technologies Ltd.
Cirrus House, Huntingdon
Cambridgeshire
PE29 7DL, UK
Phone +44(0)1480 354390
Email info@aminasound.com

AMINA USA
LK Distributing Inc.
3850 SW 30th Avenue
Miami,
Florida 33312, USA
Phone +1(0) 954 792 3572
Email info@lka-fl.com

WWW.AMINASOUND.COM