



CDA-2HD  
DSP Amplifier

The CDA-2HD is a high-power distribution amplifier, designed to drive current and future Bowers & Wilkins Custom Installation loudspeakers. Embedded DSP allows optimisation of a wide range of products and dynamic EQ for Bowers & Wilkins subwoofers. It boasts two channels of 500 watts each, and its half-rack width 2U design delivers high-performance from minimum rack space.

Impressively smart

To ensure the CDA-2HD delivers in the modern custom installation system, it is equipped with Digital Signal Processing (DSP). This allows it to be used in wide variety of situations, provides control over IP and configuration, and dynamic EQ for Bowers & Wilkins subwoofers.



Compact powerhouse

CDA-2HD's half-rack width 2U size means that it takes up the minimum of rack real estate. But with two channels of 500 watts of Class D amplification on board it can bring the power when required. Plus, as it's bridgeable this can be configured to deliver 1,000 watts where needed.

Flexible

Whether you are looking to upgrade an in-situ installation or planning a new one, the CDA-2HD DSP amplifier is a great solution. It combines power with finesse, and works with a wide variety of Bowers & Wilkins products, both current and future.



# CDA-2HD

## Audio Specifications

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<b>Load impedance range:</b>	>3Ω per channel (>6Ω in bridge mode)
<b>Output Power per channel, non-clipped:</b>	250W into 8Ω 500 into 4Ω
<b>Output Power bridge mode, non-clipped:</b>	1000W into 8Ω
<b>Output Power total, all channels:</b>	1000W short term >250W continuous
<b>DC offset voltage:</b>	<50mV
<b>Frequency Response (-3dB):</b>	<10Hz to >30kHz, any load impedance
<b>Frequency response accuracy</b>	
20Hz-20kHz:	+/-1dB
<b>Dynamic range:</b>	>85dB A-Weighted
<b>THD+N (1kHz, 500W, 4Ω):</b>	less than 1%
<b>Voltage Gain:</b>	21dB to 45dB, adjustable
<b>Input impedance:</b>	10kΩ
<b>Maximum input voltage:</b>	4 Vrms
<b>Signal sense threshold:</b>	2.5mV (independent of Gain setting)
<b>Wake-up time:</b>	<0.2s (If other zones active) <2s (From all zones inactive)
<b>Turn-off time:</b>	15 minutes from last signal detected
<b>12V trigger input threshold:</b>	Typically 3V (recommended input is 5-15V)

## Controls & Indicators

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<b>Front panel:</b>	1 x Power LED (unit active – White, Fault – Red) 1 x Network status LEDs (Network present – White, Fault – Red) 1 x Zone status LEDs (Signal present – White, Fault – Red)
<b>Rear panel:</b>	1 x Reset Panel

## Connectors

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<b>Input:</b>	1 x RCA (pair) Phono socket, Analogue line in 1 x RCA Phono socket, Digital line in 1 x Ethernet
<b>Output:</b>	1 x SpeakOn
<b>12V trigger control:</b>	1 x 3.5mm jack - 12V trigger IN 1 x 3.5mm jack - 12V trigger OUT (Maximum 100mA pass-through)

## Power

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<b>Power consumption:</b>	<0.5W Standby, WoL disabled <0.5W Standby, WoL enabled 200W maximum average 2,800W peak
<b>AC supply:</b>	100-240V 50/60Hz
<b>AC inlet:</b>	IEC C14, switched

## Thermal

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<b>Thermal dissipation:</b>	1.7 BTU/hr (standby) 150 BTU/hr (Idle) 850 BTU/hr (max)
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## Dimensions

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<b>Height:</b>	85mm (3.4in) 1U (100 mm (3.9in) plus feet)
<b>Width:</b>	218mm (8.6in)
<b>Depth:</b>	323mm (12.9in)
<b>Net weight:</b>	3.4kg (7.5lb)
<b>Finish:</b>	Black

