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

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

Controls & Indicators

Front panel:	1 x Power LED (unit active – White, Fault – Red)
	1 x Network status LEDs (Signal present – White, Fault – Red)
	1 x Zone status LEDs (Signal present – White, Fault – Red)

Connectors

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

Power

Power consumption:	<0.5W Standby, WoL disabled
	<2W Standby, WoL enabled
	300W maximum average (TBC)
	1,000W peak (TBC)
AC supply:	100-240V 50/60Hz
AC inlet:	IEC C14, switched

Thermal

Thermal dissipation:	TBC BTU/hr (standby)
	TBC BTU/hr (Idle)
	TBC BTU/hr (max)

Dimensions

Height:	85mm (3.4in) 1U (100 mm (3.9in) plus feet)
Width:	218mm (8.6in)
Depth:	315mm (12.4in)
Net weight:	3.7kg (8.2lb)
Finish:	Black