

# DATA SHEET

## AMP-D225H

### 2-CHANNEL, 25W AMPLIFIER



The AMP-D225H is a two-channel class D amplifier delivering 25 watts per channel in a sleek, compact design. Because there is no need for internal cooling fans, the AMP-D225H can be placed in a conference room with virtually no audible noise. The ability to bridge channels gives even more power and flexibility to the AMP-D225H. The AMP-D225H is also equipped with four stereo inputs, four GPIO, and two RS-232 interfaces. It integrates easily with a variety of control systems and the USB input enables direct audio connection and volume control from a computer. It's audio performance, ease-of-use, and versatile feature set makes the AMP-D225H ideal for a variety of professional audio applications.

#### FEATURES

- Two channels; 25W per channel
- Bridgeable channels
- Class D amplifier topology
- Supports 4 $\Omega$  and 8 $\Omega$  outputs
- 4 GPIO for control of relays, switches, and sensors
- 3 band equalizer for bass, mid and treble control
- Auto standby mode
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

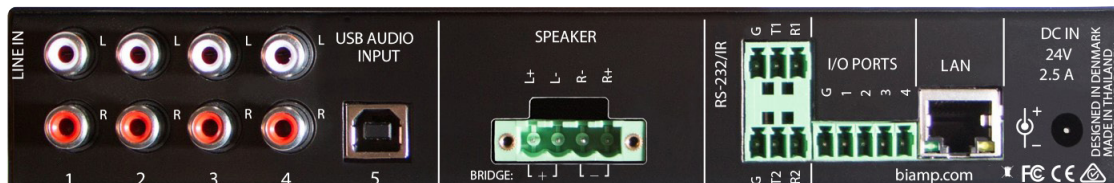
#### ARCHITECTS & ENGINEERS SPECIFICATIONS

The amplifier shall provide 4 unbalanced input connections for receiving line level analog audio signals via RCA connectors. The amplifier shall provide two output channels rated for 25W each of maximum power into an 8-ohm load via Euroblock connector. The amplifier shall include 2 RS-232 connections for control data transmission into or out of the amplifier and such operation shall be externally programmable. The amplifier shall include 4 GPIO connections for the control of relays, switches, and sensors and such operation shall be externally programmable. The amplifier shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The amplifier shall be Biamp® AMP-D225H.

## AMP-D225H SPECIFICATIONS

|                                              |                                       |                            |                                           |
|----------------------------------------------|---------------------------------------|----------------------------|-------------------------------------------|
| <b>Network Connection:</b>                   | RJ-45 with Ethernet (CAT5e or better) | <b>RS-232 / IR</b>         |                                           |
| <b>INPUTS</b>                                |                                       | <b>Number of Ports:</b>    | 2 (bidirectional)                         |
| <b>Number of Inputs:</b>                     | 4 (stereo)                            | <b>Connector:</b>          | 3-pin, 0.3-inch Euroblock                 |
| <b>Connector:</b>                            | RCA                                   | <b>Baud Rate:</b>          | 1200 - 115200 bit/sec                     |
| <b>Input Impedance:</b>                      | < 100k $\Omega$                       | <b>Data Bits:</b>          | 7, 8                                      |
| <b>Max Input Level:</b>                      | 2 Vrms                                | <b>Parity:</b>             | Even, Odd, None                           |
| <b>Input Gain (adjustable):</b>              | $\pm 12$ dB                           | <b>Stop Bits:</b>          | 1, 2                                      |
| <b>Wake on Signal:</b>                       | Adjustable level                      | <b>IR Frequency Range:</b> | 400 Hz to 500 kHz                         |
| <b>OUTPUTS</b>                               |                                       | <b>Power:</b>              | 24V DC 50W                                |
| <b>Number of Channels:</b>                   | 2                                     | <b>Cooling:</b>            | Convection                                |
| <b>Maximum Rated Output:</b>                 |                                       | <b>Overall Dimensions</b>  |                                           |
| <b>Single Channel, 4<math>\Omega</math>:</b> | 35W                                   | <b>Height:</b>             | 1.5 inches (37 mm)                        |
| <b>Single Channel, 8<math>\Omega</math>:</b> | 25W                                   | <b>Width:</b>              | 8.6 inches (218 mm)                       |
| <b>Bridged, 4<math>\Omega</math>:</b>        | 55W                                   | <b>Depth:</b>              | 2.8 inches (70 mm)                        |
| <b>Bridged, 8<math>\Omega</math>:</b>        | 35W                                   | <b>Weight:</b>             | 1.1 lbs (0.5 kg)                          |
| <b>Minimum Operational Load:</b>             | 2 $\Omega$                            | <b>Environmental</b>       |                                           |
| <b>THD+N (20 Hz - 20 kHz, @ 1W):</b>         | < 0.1 %                               | <b>Ambient Operating</b>   |                                           |
| <b>Connector:</b>                            | 4-pin, 0.3-inch Euroblock             | <b>Temperature Range:</b>  | 32 - 86° F (0 - 30° C)                    |
| <b>USB</b>                                   |                                       | <b>Humidity:</b>           | 10-90% relative humidity (non-condensing) |
| <b>Connector:</b>                            | USB 2.0 Type-B                        | <b>Altitude:</b>           | 0-6,600 ft (0-2000m) MSL                  |
| <b>Bit Depth:</b>                            | 16-bit                                | <b>Compliance:</b>         |                                           |
| <b>Sample Rate:</b>                          | 48kHz                                 |                            | FCC Part 15B (USA)                        |
| <b>GPIO</b>                                  |                                       |                            | UL listed (USA and Canada)                |
| <b>Number of Ports:</b>                      | 4                                     |                            | CE Marked (Europe)                        |
| <b>Connector:</b>                            | 5-pin, 0.3-inch Euroblock             |                            | RoHS Directive (Europe)                   |
| <b>Type:</b>                                 | Open drain                            |                            |                                           |
| <b>Input Trigger Low:</b>                    | < 1V DC                               |                            |                                           |
| <b>Input Trigger High:</b>                   | > 4V DC                               |                            |                                           |
| <b>Isolated Output:</b>                      | No                                    |                            |                                           |
| <b>Max Voltage:</b>                          | 24V DC                                |                            |                                           |
| <b>Max Current:</b>                          | 0.5 A                                 |                            |                                           |

## AMP-D225H REAR PANEL



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