



# ALCHIMIST

## AD18H-1260

### User Manual

*The ultimate 1260W RMS flagship DSP with 18 channels and 32-bit Hi-Res processing*

## AD18H-1260 Overview

The Alchemist AD18H-1260 is a 18-Channel Flagship DSP Processor designed to deliver exceptional audio performance in automotive environments. The ultimate 1260W RMS flagship DSP with 18 channels and 32-bit Hi-Res processing. Built with premium components and engineered in Germany, the AD18H-1260 represents our commitment to audiophile-grade sound quality.

### Key Features

- 18-channel flagship DSP - the most advanced Alchemist processor
- 1260W RMS total output for driving large multi-way systems
- 32-bit Hi-Res processing at 96kHz for unparalleled audio fidelity
- Dual digital inputs: AES/EBU and S/PDIF Optical
- 8V ultra-high-voltage RCA pre-out for absolute signal purity
- 31-band parametric EQ with sub-1Hz frequency resolution
- Premium machined aluminum chassis with active cooling
- Reference-grade internal power supply with ultra-low ripple

### Box Contents

- 1x DSP processor unit
- 1x Wiring harness with high-level inputs
- 1x USB cable for PC connection
- 1x Remote turn-on wire
- 1x Fuse holder with fuse
- 1x Mounting bracket and hardware
- 1x Quick start guide
- 1x AES/EBU (XLR) cable
- 1x Optical (Toslink) cable

## Technical Specifications

Parameter	Value
Model	AD18H-1260
Channels	18
Total Power Output	1260W RMS
Equalizer	31-Band Parametric EQ per channel
Sample Rate / Bit Depth	96 kHz / 32-bit (Hi-Res)
THD+N	< 0.002%
Signal-to-Noise Ratio	> 118 dB
Digital Inputs	AES/EBU (XLR) + S/PDIF Optical
RCA Output Voltage	8V
Input Types	High-level, RCA, AES/EBU, Optical, USB, BT
Dimensions (W x H x D)	300 x 60 x 200 mm
Weight	3.5 kg

## Installation Guide

### Connection Overview

The AD18H-1260 features clearly labeled input and output connectors on the rear panel. Refer to the connection diagram included in the box for a visual guide.

### Wiring Steps

1. Disconnect the vehicle battery negative terminal before starting.
2. Mount the AD18H-1260 in a secure, ventilated location (under seat or trunk).
3. Connect the power wire (red) through the included fuse holder to the battery positive terminal.
4. Connect the ground wire (black) to a clean, solid metal chassis point within 18 inches.
5. Connect the remote turn-on wire (blue) to the head unit's remote output or ACC circuit.
6. Connect input sources: high-level speaker inputs from factory head unit, or RCA/optical inputs.
7. Connect AES/EBU or optical cable for digital audio (both inputs available simultaneously).
8. Connect RCA output cables to your amplifier(s) or powered speakers.
9. Reconnect the battery and verify the unit powers on with the ignition.
10. Configure input source and channel mapping using the Alchemist DSP software.
11. Perform initial tuning using the EQ, crossover, and time alignment tools.

## Warranty & Support

### 12-Month Limited Warranty

Your Alchemist AD18H-1260 is covered by a 12-month limited warranty against manufacturing defects from the date of original purchase. Please retain your purchase receipt as proof of purchase for any warranty claims.

### Technical Support

- Email: [support@alchemists.com](mailto:support@alchemists.com)
- Phone: +49 (0) 69 123 4567 (Mon-Fri, 9:00-17:00 CET)
- Website: [www.alchemists.com/support](http://www.alchemists.com/support)
- Software Downloads: [www.alchemists.com/downloads](http://www.alchemists.com/downloads)

### Online Resources

Visit [www.alchemists.com](http://www.alchemists.com) for the latest firmware updates, tuning software, installation videos, and user community forums. Scan the QR code on the product packaging to access the dedicated support page for your model.

### Register Your Product

Register your product at [www.alchemists.com/register](http://www.alchemists.com/register) to receive firmware update notifications, extended support, and exclusive content.