OSRAM

★ SPEED EDITION · LEDRIVING HL XLZ

LEDriving® HL XLZ Automotive LED Headlight Bulbs

High-Performance Upgrade Technology · Cool White 6000K · +300% Brighter

MODEL / SOCKET

H1 · H3 · H4 · H7 · H8 · H11 · HB3 · HB4 · 5202 · 9007

VOLTAGE / POWER

12V DC · 50W

COLOR TEMPERATURE

6000K Cool White

BRIGHTNESS

Up to +300% vs. Halogen

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This specification sheet provides a complete overview of the OSRAM LEDriving® HL XLZ LED headlight series — including product highlights, technical data, package contents, installation and important compliance notes.

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Quick Summary: The LEDriving® HL XLZ is an upgrade-replacement LED headlight engineered for drivers who want a modern, high-output alternative to traditional halogen bulbs — delivering a crisp 6000K daylight beam, superior optical density and a wider, more focused light pattern.

01

INTRODUCTION

Product Overview

Upgrade your vehicle's lighting system with the **OSRAM LEDriving® HL XLZ** series. Engineered with **UP Upgrade Technology**, these LED headlight bulbs deliver superior brightness and an enhanced beam pattern. Designed for drivers seeking a modern, high-performance alternative to traditional halogen bulbs, this "Speed Edition" ensures clearer vision and safer night driving.

+300%	6000K	50W	12V
BRIGHTER THAN HALOGEN	COOL WHITE BEAM	POWER RATING	DC VOLTAGE

02

HIGHLIGHTS

Key Features & Benefits

Superior Brightness

Up to **+300% brightness** versus standard halogen lamps, letting you see farther and react faster on dark roads.

6000K Cool White

A crisp, daylight-like beam (vs. 4300K halogen) that reduces eye strain and makes road details stand out clearly.

Focused Beam Pattern

High optical density with densely packed CSP chips concentrates light into a wider, more focused illumination without blinding oncoming traffic.

German Engineering

Built by OSRAM, a global leader in automotive lighting — guaranteeing reliability, premium quality and long service life.

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DATA SHEET

Technical Specifications

Parameter	Details
Brand	OSRAM
Series	LEDriving® HL XLZ (Speed Edition)
Product Type	Automotive LED Headlight Bulb
Compatible Sockets	H1 · H3 · H4 · H7 · H8 · H11 · HB3 · HB4 · 5202 · 9007
Voltage	12V DC
Power Consumption	50W
Color Temperature	6000K (Cool White)
Luminous Output	Up to +300% vs. Halogen
Technology	UP Upgrade Technology · CSP Chips
Beam Pattern	High optical density, focused

Optical Upgrade: The HL XLZ uses 6 high-density CSP chips per side for a more concentrated, focused light output — high optical density means focused light, while low density scatters. This design maximizes usable road illumination.

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IN THE BOX

Package Contents

1 LED Bulbs

2 × HL XLZ bulbs with integrated heat-sink.

2 Drivers

2 × External driver/decoder modules with harness.

3 Manual

1 × Installation & wiring guide.

4 Packaging

Original OSRAM retail box.

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STEP BY STEP

Installation Guide

1 **Safety First**

Ensure the vehicle is off and the headlight switch is in the "OFF" position. Allow halogen bulbs to cool down completely before removal.

2 **Access the Bulb**

Open the hood and remove the dust cap from the rear of the headlight assembly.

3 **Remove the Old Bulb**

Unclip the retaining spring/wire and disconnect the halogen bulb from its socket.

4 **Connect the LED**

Plug the LED bulb into the socket. Connect the bulb's wiring to the included external driver/decoder, then connect the decoder to the car's original power plug.

5 **Secure & Adjust**

Insert the LED bulb ensuring the heat sink fits properly. Adjust orientation (LED chips positioned left-to-right horizontally) for optimal beam pattern. Secure with the retaining clip and dust cap.

6 **Test & Aim**

Turn on the headlights to verify operation and beam alignment. Adjust headlight aim if necessary.

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SAFETY & LAW

Important Notes & Compliance

- **Professional Installation Recommended** — For correct fitment and beam alignment, installation by a qualified automotive technician is advised.
- **Canbus / Decoder** — The included external driver prevents error codes on most vehicles; some sensitive models may require additional canbus resistors (not included).
- **Check Local Laws** — Please verify local traffic regulations regarding aftermarket LED headlights; in some regions they are intended for off-road or show use only.

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END NOTES

Disclaimer & Trademarks

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The specifications, brightness claims and compatibility information in this document are provided for reference only. Actual performance may vary depending on vehicle make/model, headlight housing design, voltage stability and local environmental conditions. The +300% brightness claim refers to comparison against standard halogen lamps under laboratory conditions.

This product is intended as an aftermarket upgrade replacement. The manufacturer and distributor are not responsible for improper installation, misuse, or any damages resulting from failure to comply with applicable laws and regulations. Always have the product installed and the headlight beam properly aimed by a qualified professional.

Before You Buy: Please confirm the correct bulb socket type (H1 / H3 / H4 / H7 / H8 / H11 / HB3 / HB4 / 5202 / 9007) for your specific vehicle year, make and model before ordering.

12V DC | 50W | 6000K Cool White | +300% Brightness | UP Upgrade Technology | CSP Chips | Speed Edition

Drive Safer. See Clearer.

OSRAM — German Lighting Expert

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