BUYER TECHNICAL REFERENCE

ELERON G30 Lighting System Technical Reference

Consumer-facing baseline document for aftermarket laser-look headlights. Built to explain how ELERON approaches fitment, vehicle behavior, and installation quality using the OEM 5AZ architecture as the reference point.

Why this document exists
The aftermarket is full of cosmetic headlight conversions sold with little technical context. ELERON publishes this buyer reference to show the engineering baseline behind our G30 laser-look program: we map vehicle-side behavior and internal control logic against the OEM 5AZ/LED-matrix architecture before product release.

What this means for the buyer

ELERON is not shipping an anonymous laser-look shell. Our G30 unit is developed using a defined OEM architecture baseline, so vehicle behavior, integration logic, and installation quality are considered from the start - not after production.

Why this matters in real-world purchases

- Helps separate engineered retrofit solutions from cosmetic-only housings.
- Reduces guesswork during fitment verification and order confirmation.
- Sets clear expectations around installation quality, vehicle-side behavior, and road-use configuration.
- Provides a technical reference a buyer can use to ask better questions before purchase.

ELERON positioning in one sentence

ELERON develops G30 laser-look headlights from an OEM-system baseline and packages that work into a plug-and-play consumer product.

Buyer-facing product description (recommended wording)

ELERON is not selling an anonymous laser-look shell. Our G30 unit is developed using the OEM 5AZ lighting architecture as a technical baseline, so vehicle behavior, integration logic, and installation quality are considered from the start - not after production.

This baseline-driven approach helps reduce retrofit guesswork and supports cleaner installation outcomes compared with generic aftermarket housings.

Installation Expectations

What buyers should expect from the ELERON G30 plug-and-play setup

Category	ELERON Buyer-Facing Guidance
Installation type	Plug-and-play product configuration for supported G30/G31 applications.
Coding requirement	No coding required for ELERON plug-and-play installations.
Fitment verification	VIN and current headlight configuration should still be verified before order to confirm correct variant.
Hardware condition	Prior front-end repair, retrofit history, or connector damage should be disclosed during pre-sale confirmation.
Installer recommendation	Professional installation is recommended for aiming, sealing checks, and final function verification.

Lighting performance and styling position

- LCI-laser-inspired styling and visual signature for the G30 platform.
- Luminous intensity optimized for ECE-compliance while maintaining LCI-Laser aesthetic signature.
- Marketing language should describe the product as a laser-look headlight unless the internal hardware is independently verified as true laser high-beam architecture.

Note on DRL Colors (ECE / StVZO): While the dual-color (Yellow/White) option is popular for show purposes, only the static White DRL mode is certified for ECE/StVZO road use.

What to send before ordering (recommended)

- VIN (or last 7 digits) for compatibility confirmation.
- Photos of current headlights (front view and close-up labels if visible).
- Connector photos.
- Details of any prior lighting retrofit or front-end repair.

FAQ + Product Page Wording Pack

Consumer-facing wording that sounds expert without overpromising

FAQ - Does this require coding?

No. ELERON G30 plug-and-play units are configured for direct installation with no coding required.

Final fitment confirmation before purchase remains important to ensure the correct variant for the vehicle's existing lighting setup.

FAQ - Is CSL-Yellow legal for road use?

The dual-color Yellow/White DRL function is commonly used for show or off-road display settings. For ECE/StVZO road use, keep the DRL in static White mode only.

FAQ - Why does ELERON reference OEM 5AZ data?

ELERON uses OEM 5AZ system architecture as a baseline reference to guide internal integration and vehicle-behavior mapping. That baseline helps us deliver a plug-and-play aftermarket product with cleaner installation outcomes than generic cosmetic housings.

Recommended product-page section

Why ELERON Is Different
ELERON is not selling an anonymous laser-look shell. Our G30 unit is developed using the OEM 5AZ lighting architecture as a technical baseline, so vehicle behavior, integration logic, and installation quality are considered from the start - not after production.

Why this matters
Most aftermarket headlights are sold as cosmetic replacements only. ELERON takes an architecture-led approach to help reduce retrofit guesswork and support cleaner installation outcomes.

Key highlights
- OEM-baseline development process
- LCI-laser-inspired visual signature
- Vehicle-side logic-aware design
- Plug-and-play installation (no coding required)
- Luminous intensity optimized for ECE-compliance while maintaining LCI-Laser aesthetic signature
- Dual-color DRL feature with static White mode for ECE/StVZO road use

Claim language guidance (for your listing)

Use	Avoid
Plug-and-play installation with no coding required.	Universal fit for all G30/G31 without confirmation.
ECE-compliance-focused output and laser-look styling.	OEM laser range claims or performance numbers not verified on aftermarket hardware.
Dual-color DRL feature; static White mode for ECE/StVZO road use.	Implying yellow DRL road legality in ECE/StVZO use.
Compatibility verification recommended before order.	Guaranteed identical vehicle behavior on every trim/market without qualification.