SMART MODULAR LIGHTING

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Transforming automotive lighting with ultra-bright, energy-efficient microLED displays, delivering precision illumination and seamless integration for next-generation vehicles.

APPLICATION



Automotive Exterior



Automotive Interior



Intelligent Lighting

KEY FEATURES

Next Level Performance

- **Ultra-High Brightness:** Engineered to perform in a wide range of lighting conditions, ensuring excellent visibility in both indoor and outdoor environments.
- **Robust Durability:** Built to withstand demanding conditions for long-term reliability.
- **Ultra-Thin & Lightweight:** Designed for seamless integration into compact spaces, leveraging microLED's inherently slim profile without compromising performance.
- **Power-Efficient Design:** Consumes significantly less power compared to traditional display technologies.

OVERVIEW

General description

The Smart Modular Lighting Kit is a cutting-edge microLED display designed for the next generation of automotive exterior/interior, smart lighting, and consumer applications. Leveraging VueReal's proprietary MicroSolid Printing™ technology, this light engine delivers superior brightness, energy efficiency, and seamless integration into compact form factors, making it the ideal solution for automotive lighting, and other high-performance devices.

PRODUCT SPECIFICATIONS

Main product characteristics

Tech Specs	VueReal MicroLED 0.54" Panel
Diagonal	0.54"
Resolution	8x6 superpixel
Pixel Pitch	1.8 mm
Brightness (typ.)	20,000 nits
Color	Monochrome (R, G, B, W, A)
Dev Interface	USB-C

Product specifications are subject to refinement at any time as we continue to innovate and improve our technology.

Kit includes Qty:4 monochrome displays, Qty:1 driving board and control software.

Note: Ships with 4 panels in the selected color (Red, Green, Blue, White or Amber).

PRICING & SUPPORT OPTIONS



REAL-TIME VIDEO ASSISTANCE AVAILABLE

APPLICATION SUPPORT SERVICES

What's Available

VueReal's Application Support for the Smart Modular Lighting Reference Design Kit provides customers with real-time video assistance from our expert support staff. Whether you need help with configuration, troubleshooting, or general inquiries, our team is available to guide you step-by-step via live video support, ensuring a seamless and efficient setup experience.

Reference Design Kit	Description
VR-RDK01-SML01-RV1	SML, 0.54" microLED panel with 1.8mm pixel pitch, high brightness, Qty. 4, Green
VR-RDK01-SML02-RV1	SML, 0.54" microLED panel with 1.8mm pixel pitch, high brightness, Qty. 4, Blue
VR-RDK01-SML03-RV1	SML, 0.54" microLED panel with 1.8mm pixel pitch, high brightness, Qty. 4, Red
VR-RDK01-SML04-RV1	SML, 0.54" microLED panel with 1.8mm pixel pitch, high brightness, Qty. 4, Amber
VR-RDK01-SML05-RV1	SML, 0.54" microLED panel with 1.8mm pixel pitch, high brightness, Qty. 4, White
VR-RDK00-SUP05-RV1	Application Support, RDK, 5 hours
VR-RDK00-SUP10-RV1	Application Support, RDK, 10 hours

Additional customized engineering support is available; contact your sales representative for pricing.

About VueReal

VueReal, the pioneer in MicroSolid Printing™, utilizes an eco-friendly micro-pixel manufacturing process to enable innovative and cost-effective microLED displays, lighting solutions, and other microdevice-based products at scale. VueReal is transforming visual experiences in automotive, AR/VR, lighting, wearables, and smartphones while spearheading broader innovation in the $1T per year microdevice industry. Visit **www.vuereal.com**