LED Neon Signs

Section 1:	**LED Neon Signs** **LED Neon Signs** are flexible illuminated signs made with silicone or PVC neon flex and low-voltage LED systems. They can be shaped into letters, logos, icons, wall graphics, and creative brand displays, offering a safer, lighter, and more energy-efficient alternative to traditional glass neon. **DIKA SIGN ®** supports sign companies with LED neon flex selection, bending control, soldering protection, power matching, backing plates, installation templates, and project-ready packaging. **Applications:** Storefront signs, bars, restaurants, retail displays, exhibitions, events, hotels, entertainment spaces, photo spots, and branded interior features.

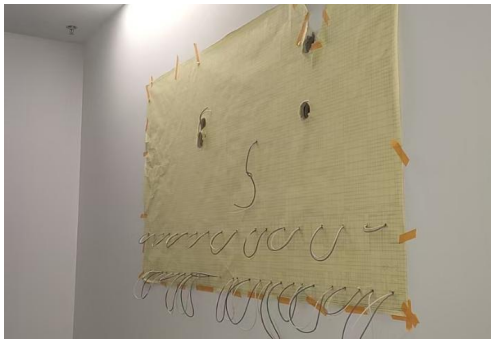
Section 3: Key Advantages

Icon + **Flexible Custom Shaping** Letters, logos, scripts, icons, and irregular graphics can be formed with high design freedom.	Icon + **Smooth Neon-Like Light** Dense LEDs, diffused tubing, and proper bending control reduce hot spots, dark areas, and visible dots.	Icon + **Safer Low-Voltage System** 12V / 24V LED systems reduce heat, improve safety, and support indoor and outdoor applications

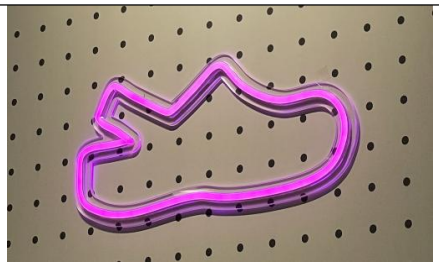
Section 4: Project Challenges & DIKA SIGN Solutions

Product Challenge 01 **Uneven Light at Curves and Corners** LED neon signs may show hot spots, dark areas, or visible LED dots at tight bends and corners. × Bending radius is too tight. × Cutting or soldering points are not well positioned. × Manual bending causes inconsistent curves in batch production. 	**DIKA SIGN ® Solution** ✓ Calculate lighting path and bending radius before production. ✓ Select the right silicone or PVC LED neon flex for each graphic. ✓ Use precision soldering, insulation, and bending fixtures. **Solution Value** ✓ Smoother light transition. ✓ Fewer hot spots and dark areas. ✓ Better consistency from sample to mass production.

Product Challenge 02 **Flicker, Color Shift, or Power Failure** Incorrect power matching or unstable control systems can cause flicker, color difference, or premature LED failure. × Power supply capacity is too low. × Poor RGB controller quality affects color output. × Wiring is not planned for voltage drop or maintenance. 	**DIKA SIGN ® Solution** ✓ Calculate total wattage with safety margin. ✓ Match power supplies, controllers, wire gauge, and zoning. ✓ Test brightness, color consistency, and control stability before shipment. **Solution Value** ✓ Stable brightness for long operating hours. ✓ Lower risk of flicker, overload, and LED failure. ✓ Fewer installation and after-sales issues.

Product Challenge 03 **Complex Shapes Are Hard to Keep Accurate** Large custom LED neon signs, logos, and irregular graphics may lose shape during production, transport, or installation. × Flexible neon tubing alone cannot hold complex shapes. × No 1:1 template may cause misalignment on site. × Adhesive-only fixing can loosen outdoors over time. 	**DIKA SIGN ® Solution** ✓ Pre-form complex graphics on acrylic, aluminum, or stainless steel backing plates. ✓ Provide 1:1 mounting templates with fixing and wiring positions. ✓ Use stainless clips, embedded screws, or mechanical fixing with adhesive support. **Solution Value** ✓ Accurate shape from sample to installation. ✓ Faster and cleaner on-site installation. ✓ Lower risk of distortion, loosening, and repair.

Section 5: Product Types

		
Single-Color LED Neon Signs	**RGB & Programmable LED Neon Signs**	**Custom LED Neon Logo & Graphics**
For storefronts, wall slogans, and retail displays - stable color, high visibility, and lower cost.	For bars, events, exhibitions, and stage displays - color changing, chasing, fading, and multi-zone effects.	For logos, icons, letters, and wall art - made to artwork, size, color, backing, and installation needs.

Why Choose DIKA SIGN?

Icon + **LED Neon Engineering** From bending radius, light path, power matching to controller setup, we engineer each sign for stable brightness and cleaner curves. **See Our Production Details**	**Icon +** **Project-Ready Manufacturing** Backing plates, 1:1 templates, wiring marks, and tested power systems help make installation faster and cleaner. **See How We Deliver Projects**	**Icon +** **30 Years of Signage Expertise** Three decades of experience help reduce rework, risk, and production uncertainty. **About DIKA SIGN ®**	**Icon +** **OEM / ODM Partner Only** We support sign companies and design firms without competing for your end clients. **Partner With DIKA SIGN ®**

FAQ

Q1: What is the difference between LED neon signs and traditional glass neon signs?
A: LED neon signs use flexible neon flex with low-voltage LEDs. They are lighter, safer, less fragile, more energy-efficient, and easier to install than glass neon.

Q2: Are LED neon signs suitable for outdoor use?
A: Yes. Outdoor LED neon signs can use UV-resistant tubing, sealed wiring, waterproof power supplies, and suitable IP-rated components.

Q3: Will LED neon signs show visible dots or dark areas?
A: Proper neon flex selection, bending radius control, dense LEDs, and diffused tubing help reduce visible dots, hot spots, and dark corners.

Q4: Can LED neon signs support RGB or programmable effects?
A: Yes. RGB and DMX / SPI systems can create color changing, chasing, fading, gradient, and multi-zone lighting effects.

Q5: How large can a custom LED neon sign be, and do you provide installation support?
A: Large signs can be divided into sections and pre-mounted on backing plates. **DIKA SIGN ®** can provide 1:1 templates, wiring diagrams, power supply recommendations, and project-ready packaging.

LED 霓虹灯标识

Section 1:	**LED 霓虹灯标识** **LED 霓虹灯标识**采用硅胶或 PVC 霓虹灯带与低压 LED 系统制作，可弯曲成字母、LOGO、图形、墙面艺术和品牌展示效果。相比传统玻璃霓虹灯，它更安全、更轻便、更节能，也更便于安装。 **DIKA SIGN ® 鼎泰狮** 为标识公司提供灯带选型、弯曲控制、焊接保护、电源匹配、背板制作、安装模板和项目化包装支持。 **应用场景：** 店面招牌、酒吧、餐厅、零售展示、展会活动、酒店、娱乐空间、打卡点和品牌室内装饰。

Section 3: 核心优势

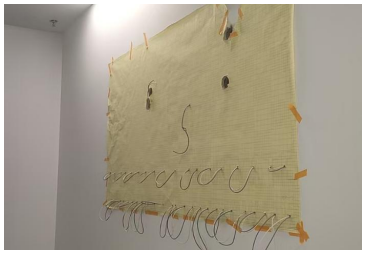
Icon + **柔性定制造型** 字母、LOGO、手写体、图标和不规则图形都可灵活成型，设计自由度更高。	Icon + **均匀霓虹光效** 高密度 LED、扩散灯管和合理弯曲控制，可减少热点、暗区和可见灯点。	Icon + **更安全的低压系统** 12V / 24V LED 系统可降低发热，提高使用安全性，并适用于室内外场景。

Section 4: 项目痛点与 DIKA SIGN ® 鼎泰狮 解决方案

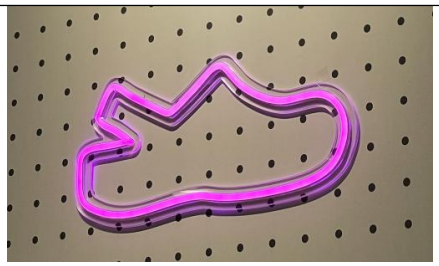
产品痛点 01 **弯角处发光不均**	**DIKA SIGN ® 鼎泰狮 解决方案**
LED 霓虹灯标识在小弯角、转角或复杂曲线处，容易出现热点、暗区或可见灯点。 × 弯曲半径过小。 × 裁切点或焊接点位置不合理。 × 手工弯曲缺少工装，批量生产曲线一致性差。  	✓ 生产前计算发光路径与弯曲半径。 ✓ 根据图形选择合适的硅胶或 PVC LED 霓虹灯带。 ✓ 采用精密焊接、绝缘保护和弯曲工装。 **方案价值** ✓ 弯角和转角处光效过渡更顺。 ✓ 减少热点、暗区和可见灯点。 ✓ 样品与批量生产效果更一致。

产品痛点 02 **闪烁、色差或电气故障**	**DIKA SIGN ® 鼎泰狮 解决方案** ✓ 按总功率计算并预留安全余量。

电源匹配不当或控制系统不稳定，可能导致闪烁、色彩不一致或 LED 过早失效。 × 电源容量偏低。 × RGB 控制器质量不稳定，影响颜色输出。 × 布线未考虑压降和后期维护。 	✓ 匹配电源、控制器、线径和分区方案。 ✓ 出货前测试亮度、颜色一致性和控制稳定性。 **方案价值** ✓ 长时间运行亮度更稳定。 ✓ 降低闪烁、过载和 LED 故障风险。 ✓ 减少安装问题和售后风险。

产品痛点 03 **复杂图形难以保持精准** 大型定制 LED 霓虹灯标识、LOGO 和不规则图形，在生产、运输或安装过程中可能出现变形或偏位。 × 单靠柔性灯管难以稳定复杂造型。 × 缺少 1:1 安装模板，现场容易错位。 × 仅靠胶粘固定，户外长期使用容易松动。 	**DIKA SIGN ® 鼎泰狮 解决方案** ✓ 将复杂图形预固定在亚克力、铝板或不锈钢背板上。 ✓ 提供标注固定点和接线位置的 1:1 安装模板。 ✓ 采用不锈钢卡扣、预埋螺丝或机械固定，并辅以结构胶。 **方案价值** ✓ 从样品到安装，图形更精准稳定。 ✓ 现场安装更快、更干净。 ✓ 降低变形、松动和返修风险。

Section 5: 产品类型

		
单色 LED 霓虹灯标识	**RGB 变色及可编程 LED 霓虹灯标识**	**定制 LED 霓虹灯 LOGO 与图形**
适用于店面招牌、墙面标语和零售展示，色彩稳定、可视性强、成本更可控。	适用于酒吧、活动、展览和舞台展示，可实现变色、追光、渐变和多区域动态效果。	适用于 LOGO、图标、字母和墙面艺术，可按图稿、尺寸、颜色、背板和安装要求定制。

为什么选择 DIKA SIGN？

Icon + **LED 霓虹灯工程深化** 从弯曲半径、发光路径、电源匹配到控制系统设置，每个标识都按稳定亮度和清晰曲线进行工程处理。 **查看生产细节**	**Icon +** **项目化制造交付** 背板、1:1 模板、接线标记和测试后的电源系统，让现场安装更快、更整洁。 **查看项目交付方式**	**Icon +** **30 年标识制造经验** **30** 年标识制造经验，有助于减少返工、降低风险和生产不确定性。 **了解 DIKA SIGN ® 鼎泰狮**	**Icon +** **只服务 OEM / ODM 合作伙伴** 我们支持标识公司和设计公司，不与您的终端客户竞争。 **与 DIKA SIGN ® 鼎泰狮 合作**

FAQ 常见问题

Q1：LED 霓虹灯标识和传统玻璃霓虹灯有什么区别？

A：LED 霓虹灯标识采用柔性霓虹灯带和低压 LED，重量更轻、更安全、不易破损，也更节能、更便于安装。

Q2：LED 霓虹灯标识适合户外使用吗？

A：可以。户外 LED 霓虹灯标识可采用抗 UV 灯管、密封接线、防水电源和适合环境的 IP 等级部件。

Q3：LED 霓虹灯标识会出现灯点或暗区吗？

A：通过合适的灯带选型、弯曲半径控制、高密度 LED 和扩散灯管，可减少可见灯点、热点和暗角。

Q4：LED 霓虹灯标识可以支持 RGB 或可编程动态效果吗？

A：可以。RGB 与 DMX / SPI 系统可实现变色、追光、渐变、淡入淡出和多区域动态灯光效果。

Q5：定制 LED 霓虹灯标识可以做多大？是否提供安装支持？

A：大型标识可分段制作，并预装在背板上。**DIKA SIGN ® 鼎泰狮** 可提供 1:1 安装模板、接线图、电源配置建议和项目化包装。