Metal Lightbox Signs

Metal Lightbox Signs

Metal Lightbox Signs are illuminated signage systems built with stainless steel, aluminum, or galvanized steel cabinets, combined with acrylic, polycarbonate, glass, or flexible-face panels.

DIKA SIGN® transforms design concepts into production-ready and installation-ready custom metal lightbox signs.From engineering and LED layout to waterproofing, fabrication, and packaging, we help sign companies reduce project risk and maintenance costs.

Applications

Commercial Buildings • Retail Streets • Shopping Centers • Hotels • Restaurants • Hospitals • Schools • Transit Hubs • Parking Facilities • Multi-Tenant Projects

Section 3: Key Advantages

Icon + **Day & Night Brand Impact** Keep your brand visible around the clock.	Icon + **Even Illumination** Uniform lighting with no dark spots or hot spots.	Icon + **Project-Ready Design** Engineered for faster fabrication, installation, and long-term maintenance.

Section 4: Project Challenges & DIKA SIGN Solutions

Product Challenge 01 **Weak Night Visibility** A lightbox sign may fail to attract attention if brightness, illumination uniformity, size, or viewing angle is not planned correctly. × LED layout creates dark spots, hot spots, or visible grain.	**DIKA SIGN® Solution** ✓ Plan LED spacing according to box depth, face material, and viewing distance. ✓ Match acrylic, PC, flexible-face, light-guide, or diffusion materials for smoother illumination. ✓ Test brightness, color temperature, and illumination uniformity before shipment.

× Mixed color temperatures make tenant logos look inconsistent at night. × Sign size, installation height, and viewing distance are not coordinated. 	**Solution Value** ✓ Clearer night visibility. ✓ Cleaner and more premium brand presentation. ✓ Lower rework risk caused by dark spots or hot spots.
Product Challenge 02 **Water Ingress, Corrosion & Electrical Risk** Outdoor metal lightbox signs face rain, UV, dust, temperature changes, and long operating hours, so poor sealing and electrical planning can shorten service life. × Welds, cut edges, screw holes, and access doors may allow water ingress or rust. × Low-grade paint or printed faces fade, peel, or discolor outdoors. × Power supplies, connectors, and wiring routes lack outdoor protection. 	**DIKA SIGN® Solution** ✓ Apply welding cleanup, metal pretreatment, and outdoor-grade coating systems. ✓ Plan sealing, waterproofing, drainage, ventilation, and maintenance access before production. ✓ Use outdoor LED modules, waterproof power supplies, connectors, and clear wiring routes. **Solution Value** ✓ More stable outdoor performance. ✓ Fewer leakage, short-circuit, corrosion, and after-sales complaints. ✓ Lower long-term maintenance and replacement cost.

Product Challenge 03 **High Update & Installation Cost** Commercial buildings, malls, and retail streets often need tenant changes, graphic updates, and large-format installation, so the lightbox must be designed for future use. × Tenant panels cannot be replaced without removing the whole lightbox. × Oversized lightboxes become heavy, hard to transport, or risky to install. × Poor labeling, wiring, packing, and pre-assembly slow down on-site work. 	**DIKA SIGN® Solution** ✓ Use lightweight or modular aluminum-frame solutions when the project requires lower weight, easier transport, and faster installation. ✓ Engineer removable faces, tenant panels, and service access for future updates. ✓ Deliver installation-ready shop drawings, labeled wiring, pre-assembled parts, and packing by installation sequence. **Solution Value** ✓ Lower installation cost ✓ Reduced structural load ✓ Faster project delivery ✓ Easier long-term maintenance

Section 6: Why Choose DIKA SIGN®

Icon + **Made Light · Built to Last** Lighter structures and durable finishes reduce installation effort and long-term maintenance costs. **Aluminum or Stainless Steel?**	**Icon +** **Project-Ready Manufacturing** From engineering to packaging, every detail is built for smoother project delivery. **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**

Section 7: FAQ

1. What projects are Metal Lightbox Signs best suited for?

Metal lightbox signs are widely used for storefronts, shopping centers, office buildings, hotels, hospitals, parking facilities, transit hubs, and multi-tenant commercial projects.

2. What is the difference between Metal Lightbox Signs and Aluminum Profile Lightboxes?

Metal Lightbox Signs offer greater design flexibility, supporting custom shapes, welded structures, and mixed materials for branding and architectural projects.

Aluminum Profile Lightboxes use standardized extruded aluminum frames, making them lighter, modular, easier to maintain, and ideal for wayfinding systems, tenant directories, and large roll-out projects.

> **Choose Metal Lightboxes for maximum design freedom.**
>
> **Choose Aluminum Profile Lightboxes for modular systems and long-term maintenance efficiency.**

3. How do you ensure even illumination?

LED spacing, cabinet depth, face materials, and viewing distance are engineered together and tested before shipment to eliminate dark spots and hot spots.

4. Can graphics or tenant panels be replaced later?

Yes. Removable faces, slide-in panels, or service doors can be designed for faster updates and easier maintenance.

5. What installation methods are available?

Wall-mounted, freestanding, suspended, embedded, and custom-engineered mounting systems are available based on project requirements.

6. Do you support OEM & ODM projects?

Yes. DIKA SIGN provides engineering, shop drawings, fabrication, packaging, and installation-ready support exclusively for sign companies and design firms.

金属灯箱（Metal Lightbox Signs）

金属灯箱（Metal Lightbox Signs）

金属灯箱是以**不锈钢、铝材或镀锌钢板**为箱体结构，搭配**亚克力、PC 板、玻璃或软膜面板**，内置 LED 光源的一体化发光标识系统。

DIKA SIGN® 鼎泰狮 将设计概念深化为可直接生产、安装的定制金属灯箱。从工程深化、LED 布光、防水密封，到生产制造、包装运输，全流程优化，帮助标识公司降低项目风险，提升交付效率，减少后期维护成本。

适用场景

商业建筑 · 商业街区 · 购物中心 · 酒店 · 餐厅 · 医院 · 学校 · 交通枢纽 · 停车场 · 多租户商业项目

Section 3: 核心优势（Key Advantages）

Icon + **全天候品牌展示** 让品牌白天醒目、夜晚持续发光，实现全天候品牌曝光。	Icon + **整面均匀发光** 科学布光设计，整面发光均匀，无暗区、无亮斑。	Icon + **安装就绪设计** 从工程深化开始，为更快生产、更快安装和更低维护成本而设计。

Section 4: 项目挑战与 DIKA SIGN 解决方案

产品挑战 01 **夜间可见度不足** 当亮度、发光均匀性、尺寸或观看角度规划不合理时，灯箱难以在夜间吸引客户注意。 × LED 布光不合理，产生暗区、亮斑或颗粒感。 × LED 色温不一致，导致品牌 LOGO 夜间显示	**DIKA SIGN® 鼎泰狮 解决方案** ✓ 根据灯箱厚度、面板材质及观看距离科学规划 LED 布局。 ✓ 合理搭配亚克力、PC 板、软膜、导光板及匀光材料，实现均匀发光。 ✓ 出厂前完成亮度、色温及发光均匀性测试。 **方案价值**

效果不统一。 × 灯箱尺寸、安装高度及观看距离缺乏整体规划。	✓ 夜间展示效果更清晰。 ✓ 品牌形象更统一、更具品质感。 ✓ 降低因亮斑或暗区造成的返工风险。
产品挑战 02 **进水、腐蚀及电气安全风险** 户外金属灯箱长期受到雨水、紫外线、灰尘及温差影响，如密封或电气设计不足，将缩短产品使用寿命。 × 焊缝、切口、螺丝孔及检修口易渗水、生锈。 × 普通喷涂及画面长期户外使用易褪色、起皮。 × 电源、接头及线缆缺乏户外防护。	**DIKA SIGN® 鼎泰狮 解决方案** ✓ 金属焊接打磨、防锈预处理及户外级表面涂层。 ✓ 生产前规划防水密封、排水、通风及检修结构。 ✓ 采用户外级 LED 模组、防水电源、防水接头及规范布线。 **方案价值** ✓ 户外运行更加稳定。 ✓ 有效减少漏水、短路、腐蚀及售后问题。 ✓ 降低长期维护及更换成本。
产品挑战 03 **更新维护及安装成本高** 商业综合体、购物中心及商业街区经常需要更换租户信息、更新画面或安装大型灯箱，因此产品必须具备长期维护能力。 × 更换租户信息需拆除整个灯箱。 × 大型灯箱重量大，运输及安装风险高。 × 包装、标识及预装不足，增加现场安装时间。	**DIKA SIGN® 鼎泰狮 解决方案** ✓ 根据项目需求采用轻量化或模块化铝框方案，降低重量，提高运输与安装效率。 ✓ 设计可拆卸面板、租户模块及检修结构，方便后期维护。 ✓ 提供安装施工图、线缆标识、预装组件及按安装顺序包装。 **方案价值** ✓ 降低安装成本。 ✓ 减轻结构荷载。 ✓ 提高项目交付效率。 ✓ 降低长期维护成本。

Section 6: Why Choose DIKA SIGN®

Icon + **更轻，更耐久** 更轻的结构、更耐久的表面处理，有效降低安装难度和长期维护成本。 **铝材与不锈钢的区别**	**Icon +** **项目交付型制造** 从工程深化到包装运输，每一个细节都围绕项目顺利交付而打造。 **我们的项目交付流程**	**Icon +** **30 年标识行业经** 三十年项目经验，有效降低返工风险及生产不确定性。 **了解 DIKA SIGN**	**Icon +** **专注 OEM / ODM 合作** 专注服务标识公司及设计公司，不参与终端市场竞争，全力保护合作伙伴客户资源。 **与 DIKA SIGN 合作**

Section 7: FAQ

1. 金属灯箱适用于哪些项目？

广泛应用于商业门店、购物中心、办公楼、酒店、医院、停车场、交通枢纽及多租户商业项目。

2. 金属灯箱与铝型材灯箱有什么区别？

金属灯箱优势：

- ✓ 造型自由度更高
- ✓ 支持异形结构及多种材料组合
- ✓ 更适合品牌形象及建筑立面项目

铝型材灯箱的优势：

- ✓ 标准化模块结构
- ✓ 更轻、更易安装及维护
- ✓ 更适合导视系统、多租户目录牌及批量项目

追求造型自由，推荐金属灯箱。

追求系统化及长期维护效率，推荐铝型材灯箱。

3. 如何保证灯箱发光均匀？

根据灯箱厚度、LED 间距、面板材质及观看距离进行整体设计，并在出厂前完成发光测试，确保无暗区、无亮斑。

4. 后期可以更换画面或租户信息吗？

可以。可根据项目需求设计可拆卸面板、滑入式画面或检修结构，方便后期更新与维护。

5. 支持哪些安装方式？

可提供壁挂式、立柱式、吊装式、嵌入式及项目定制安装结构，满足不同建筑条件需求。

6. DIKA SIGN 是否支持 OEM / ODM 合作？

支持。DIKA SIGN 专注服务标识公司及设计公司，可提供工程深化、施工图、生产制造、包装运输及安装支持等完整 OEM/ODM 服务。