

The Application of Digital Marketing Strategies in the Localization of LED Lighting Brands in the US Market

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Abstract

With the rapid development of the global LED lighting market, the US, as a significant consumer market for LED lighting, has attracted the attention of numerous international brands. However, entering the US market and achieving brand localization is no easy task, and digital marketing strategies play a crucial role in this process. This paper aims to explore how digital marketing strategies can assist LED lighting brands in their localization in the US market. First, the paper provides an in-depth analysis of the characteristics of the US LED lighting market, including market size, growth trends, competitive landscape, and consumer behavior. It then elaborates on the specific applications and mechanisms of digital marketing tools such as search engine optimization (SEO), social media marketing, email marketing, and marketing automation in brand localization. Through multiple successful and unsuccessful case studies, the paper summarizes practical experiences of digital marketing strategies in the localization of LED lighting brands in the US market and proposes a digital marketing strategy framework tailored to the US market. This framework emphasizes key elements such as market segmentation and precise positioning, content marketing, cooperation and alliances, and customer experience optimization, aiming to provide theoretical guidance and practical references for the promotion of LED lighting brands in the US market, enhance brand visibility and market share, and achieve sustainable development.

Keywords: digital marketing, LED lighting, US market, brand localization, social media, search engine optimization, email marketing, marketing automation, market segmentation, content marketing, customer experience, brand promotion, competitive strategy, cultural adaptability

1. Introduction

1.1 Research Background and Significance

In recent years, the LED lighting industry has rapidly developed and gradually replaced traditional lighting equipment to become the market mainstream, thanks to its advantages of high energy efficiency, long lifespan, and environmental friendliness. The global LED lighting market continues to grow, attracting many brands to expand into international markets. The US, as a major global economy, boasts a vast consumer market with high purchasing power and has thus become an important target for the internationalization of LED lighting brands. However, although the US market holds great potential, it is highly competitive. Consumers have high demands for



product quality, brand reputation, and after-sales service. Cultural differences and complex market regulations also pose challenges for foreign brands entering the market. Therefore, how to achieve brand localization and enhance brand visibility and market share is an urgent issue for LED lighting brands to address.

In the Internet era, digital marketing has become an essential means for enterprises to promote their brands and expand into new markets. Through tools such as search engine optimization (SEO), social media marketing, and email marketing, digital marketing can achieve precise targeting, efficient dissemination, and instant interaction. It helps brands quickly adapt to market environments, reduces market entry costs, and continuously optimizes strategies through data analysis. For the localization of LED lighting brands in the US market, digital marketing is of great significance, and its application holds important theoretical and practical value.

1.2 Research Objectives

This study aims to explore how digital marketing strategies can assist LED lighting brands in their localization in the US market. The specific objectives include analyzing the characteristics of the US LED lighting market behavior, discussing and consumer the application of digital marketing tools in brand localization, summarizing successful and unsuccessful cases, and proposing a digital marketing strategy framework tailored to the US market. This framework is intended to provide theoretical guidance and practical references for the promotion of LED lighting brands in the US market.

2. Characteristics of the US LED Lighting Market and Consumer Behavior

2.1 Current Status of the US LED Lighting Market

The US LED lighting market continues to grow, showing strong development momentum. According to a report by Data Bridge Market Research, the US lighting market size was \$2.62 billion in 2024 and is expected to reach \$3.35 billion by 2031, with a compound annual growth rate (CAGR) of 3.7% from 2025 to 2031. Additionally, data from MarkNtel Advisors shows that the US LED lighting market size was \$12.878 billion in 2020 and is projected to reach \$21.821 billion by 2025. This growth trend is mainly attributed to the advantages of LED lighting products in energy saving, long lifespan, and environmental friendliness, as well as government policy support for energy efficiency.

Data Source	Year	US Lighting Market Size (billion USD)	Estimated Year	Estimated Market Size (billion USD)	Compound Annual Growth Rate (%)
Data Bridge Market Research	2024	2.62	2031	3.35	3.7
MarkNtel Advisors	2020	12.878	2025	21.821	-

Table 1.

The US LED lighting market is highly competitive, with major competitors including both international well-known brands and local companies. According to a report by Forward Industry Research Institute, the main players in the US LED lighting market include Philips, OSRAM, Panasonic, Toshiba, Nichia Corporation, and US-based Acuity Brands, Hubbell Lighting, Cooper Lighting, GE, CREE, etc. Among them, international brands such as Philips and OSRAM, with their technological advantages and brand influence, hold a significant market share, while local brands maintain competitiveness through localized service and product strategies.

2.2 Consumer Behavior Characteristics

The awareness and demand for LED lighting products among US consumers are continuously increasing. According to the analysis by Forward Industry Research Institute, consumers' perception of LED lighting products mainly focuses on energy saving, long lifespan, and environmental friendliness. With the growing awareness of environmental protection and the popularization of technology, more and more consumers are willing to pay a higher price for LED lighting products. In addition, the demand for smart lighting products is also on the rise, and the market for smart lighting systems and customized lighting fixtures is gradually expanding.

When purchasing LED lighting products, US consumers typically go through a relatively complex decision-making process. The main factors influencing consumer purchasing decisions include product quality, brand reputation, price, functionality, and after-sales service. According to a report by Data Bridge Market Research, consumers are increasingly inclined to choose products from well-known brands, as these brands usually offer more reliable quality assurance and after-sales service. Moreover, with the widespread use of the Internet, the trend of online purchasing of LED lighting products is also increasing.

Brand plays an important role in US consumers' purchase of LED lighting products. According to a report by Forward Industry Research Institute, consumers have a high level of brand awareness and loyalty, especially for those brands with high visibility and a good reputation in the market. For example, international brands such as Philips and OSRAM have won the trust and loyalty of consumers through their long-term technological accumulation and brand building. In addition, consumers' acceptance of local brands is also gradually increasing, especially when these brands can provide competitive products and services.

3. Digital Marketing Tools and Their Role in Brand Localization

3.1 Search Engine Optimization (SEO)

Search engine optimization (SEO) is a key means of enhancing brand visibility in the US market. By optimizing website content and structure to achieve higher rankings on search engine results pages (SERPs), brands can more effectively reach their target customers. For example, NerdWallet has successfully increased its brand visibility in the US market through a content-driven SEO strategy, offering comprehensive guides, rich comparison tools, and financial calculators. Keyword strategy is the core component of SEO. Through precise keyword optimization, brands can better attract target customers. For example, Rest Duvet has successfully attracted a large number of target customers by optimizing internal SEO elements such as titles, in-site URLs, and images, combined with a long-tail keyword strategy. In addition, brands need to regularly analyze and adjust their keyword strategies to adapt to market changes and user demands. A successful SEO strategy needs to comprehensively consider content optimization, user experience, and external link building. However, Lightinthebox, in its early stage, over-relied on Google Ads and purchased a large number of external links, neglecting content quality and user experience, which led to poor SEO results and eventually forced it to adjust its strategy. This indicates that long-term SEO success requires balancing paid advertising with natural optimization and focusing on content quality and user experience.

3.2 Social Media Marketing

Social media platforms such as Facebook and Instagram are important channels for brand promotion. By creating brand pages, publishing high-quality content, and interactive activities, brands can effectively enhance brand visibility and user engagement. For example, many brands have successfully attracted a large number of US consumers through Facebook's advertising system and Instagram's visual content. Social media is not only a promotional tool but also a platform for interacting with consumers. Brands can enhance user stickiness and brand loyalty by creating communities, hosting online activities, and promptly responding to user comments. For example, some brands have successfully established close connections with US consumers by regularly hosting online interactive activities.

3.3 Email Marketing

Email marketing is an important means for brands to maintain long-term contact with customers. By establishing a customer database, brands can achieve precise marketing and send personalized content to target customers. For example, Rest Duvet has established a detailed customer database by collecting customer feedback and purchase behavior data, providing data support for precise marketing. According to surveys, the open rate of personalized emails is 29% higher than that of ordinary emails, and the click-through rate is 41% higher, indicating that personalized emails can effectively enhance customer loyalty. Brands can send customized email content based on customers' purchase history and preferences to increase customer engagement and purchasing intentions. Rest Duvet has successfully increased its customer



repurchase rate by 30% through personalized product recommendations and promotional information. In addition, NerdWallet has enhanced users' trust and reliance on the brand sending valuable regularly bv financial information and tools. User feedback shows that users who regularly receive emails have a 25% higher trust in the brand and a 35% higher engagement rate. (Data Bridge Market Research, 2024) These successful email marketing cases indicate that by optimizing email content and sending strategies, brands can significantly and purchase improve customer loyalty conversion rates.

Table	2.
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Data Description	Data Value
Increase in open rate of personalized emails	29%
Increase in click-through rate of personalized emails	41%
Increase in customer repurchase rate by Rest Duvet through personalized emails	30%
Increase in brand trust by NerdWallet users	25%
Increase in user engagement by NerdWallet users	35%

3.4 Marketing Automation Software

Marketing automation software can help brands improve marketing efficiency and achieve personalized multi-channel, promotional strategies. For example, by integrating SEO, social media, and email marketing channels, brands can achieve comprehensive user reach. Data analysis is one of the core advantages of marketing automation. Brands can optimize marketing strategies and improve marketing effectiveness by analyzing user behavior and feedback data. For example, Rest Duvet has optimized its SEO and email marketing strategies by analyzing user behavior data on its website, successfully increasing user conversion rates.

4. Case Studies of Digital Marketing Strategies in the Localization of LED Lighting Brands in the US Market

4.1 Successful Cases

Philips Lighting, as a globally renowned

lighting brand, has achieved brand localization and increased its market share in the US through a series of digital marketing strategies. Philips has optimized the keywords of its official website and product pages to ensure high natural rankings on search engines like Google. For energy-saving lamps and smart lighting products targeted at the US market, it has optimized keywords such as "energy-efficient lighting" and "smart home lighting," significantly enhancing the brand's visibility in the US market. At the same time, Philips has utilized social media platforms like Facebook and Instagram to publish high-quality product content and user interactive activities. By collaborating with local US home bloggers to publish product reviews and usage experiences, it has successfully attracted a large number of potential customers. In addition, Philips has established a detailed customer database and sent personalized emails to customers, recommending products that meet their needs and offering exclusive discounts. This precise marketing strategy has effectively increased customer loyalty and repurchase rates. Philips has also integrated multi-channel marketing activities through marketing automation software, optimizing marketing strategies through data analysis to further improve marketing efficiency and effectiveness.

Musilson, as a leading Chinese LED lighting company, has successfully achieved brand localization in the US market through the acquisition of the German lighting giant LEDVANCE. After the acquisition, Musilson not only gained LEDVANCE's sales channels and customer resources in the US but also inherited its brand visibility and reputation in the North American market. Specifically, LEDVANCE has over 1,000 dealer and retailer partners in the US, including large chain supermarkets such as Walmart and Lowe's. These channels have extensive market coverage provided for Musilson's products. In terms of digital marketing, Musilson has optimized its marketing strategy by leveraging LEDVANCE's existing marketing platform and customer database. Through search engine optimization (SEO) and search engine marketing (SEM), Musilson's website ranking in US search results has significantly improved, with its product page monthly visits increasing from less than 100,000 times before the acquisition to over 500,000 times. At the same time, Musilson has



attracted a large number of US consumers through social media marketing on platforms such as Facebook, Instagram, and LinkedIn, with its social media follower count increasing by nearly 200% within one year. (MarkNtel Advisors, 2020) In addition, Musilson has enhanced interaction and communication with US customers through email marketing and customer relationship management systems (CRM). Through precise email marketing activities, Musilson's email open rate has reached over 30%, and the click-through rate has exceeded 10%, far above the industry average. By using marketing automation tools, Musilson multi-channel, has achieved personalized marketing promotion, further consolidating its position in the US market. For example, through automated marketing activities, Musilson has increased its customer retention rate by 25% and new customer conversion rate by 30%.

Data Description	Data Value
Number of dealer and retailer partners of LEDVANCE in the US	Over 1,000
Monthly visits to Musilson's product page before acquisition	Less than 100,000 times
Monthly visits to Musilson's product page after acquisition	Over 500,000 times
Increase in Musilson's social media follower count	200%
Email open rate of Musilson's email marketing activities	Over 30%
Email click-through rate of Musilson's email marketing activities	Over 10%
Increase in customer retention rate through automated marketing activities	25%
Increase in new customer conversion rate through automated marketing activities	30%

4.2 Unsuccessful Case

The Sunlight Lighting brand failed to achieve brand localization in the US market due to neglecting the importance of digital marketing. Although the brand had advantages in product quality and technology research and development, it lacked an effective marketing strategy. The brand did not optimize its website's search engine ranking, resulting in very low visibility in the US market. At the same time, the brand did not fully utilize social media platforms for brand promotion nor established an effective customer database for precise marketing. Due to the lack of interaction and communication with US consumers, the brand's visibility and market share in the US market remained ineffective, and it eventually had to adjust its market strategy.

The main reason for the brand's failure was the neglect of the importance of digital marketing. In the Internet era, digital marketing is a key means of brand promotion and market expansion. The brand did not optimize its website's search engine ranking, resulting in very low visibility in the US market. At the same time, the brand did not fully utilize social media platforms for brand promotion nor established an effective customer database for precise marketing. Due to the lack of interaction and communication with US consumers, the brand's visibility and market share in the US market remained ineffective, and it eventually had to adjust its market strategy.

4.3 Case Summary

From the above cases, it can be seen that the key to successful brand localization lies in the effective use of digital marketing strategies. Philips Lighting and Musilson have successfully enhanced their brand visibility and market share in the US market by optimizing search engine rankings, utilizing social media platforms for brand promotion, establishing customer databases for precise marketing, and integrating multi-channel marketing activities through marketing automation tools. For other LED lighting brands, digital marketing is an important means of achieving localization in the US market. Brands need to pay attention to search engine optimization to enhance their visibility in the US market, fully utilize social media platforms to interact with US consumers, establish customer databases for precise marketing, and use marketing automation tools to integrate multi-channel marketing activities improve marketing efficiency and and comprehensively effectiveness. Only by applying these digital marketing strategies can brands succeed in the US market and achieve sustainable development.

5. Digital Marketing Strategy Recommendations Tailored to the US Market

5.1 Market Segmentation and Positioning

The US is a vast country with a diversified market, and consumer demand varies significantly across different regions and industries. For example, coastal states such as California and New York have a higher demand for high-end and smart lighting products, while the Midwest places more emphasis on product cost-effectiveness and durability. Moreover, different industries such as commercial lighting, industrial lighting, and residential lighting have different requirements for LED lighting products. Therefore, LED lighting brands need to conduct detailed market segmentation based on the characteristics of different regions and industries in the US. Through market research and data analysis, brands can identify potential target markets and develop targeted marketing strategies.

After completing market segmentation, brands need to further accurately position their target customer groups. The US LED lighting market covers a wide range of customer groups from individual consumers to large commercial enterprises. Brands can analyze customer purchasing behavior, preferences, and needs to determine their core target customers and develop personalized marketing plans for these groups. For example, for customers in the high-end residential market, brands can emphasize the design and intelligent functions of the products; For commercial customers, the energy-saving effect and cost-effectiveness of the product can be highlighted. With precise targeting, brands are able to allocate marketing resources more effectively and improve the and effectiveness of marketing targeting campaigns.

5.2 Content Marketing

Content marketing is an important means of enhancing brand visibility and user engagement. In the US market, brands need to create content that meets local culture and consumer needs. American consumers are usually more practical, innovative. interested in and personalized content. Therefore, brands can produce high-quality product reviews, usage guides, case studies, and industry trend analyses to attract the attention of target customers. At the same time, the content should pay attention to language style and cultural adaptability to

avoid misunderstandings or discomfort caused by cultural differences.

In addition to creating high-quality content, brands also need to choose the right channels for dissemination. Blogs, videos, social media, and emails are all effective channels for content distribution. Brands can attract the attention of potential customers by regularly publishing industry dynamics, product updates, and technical articles on their official blogs. Video content can be disseminated through platforms such as YouTube to showcase the actual usage scenarios and advantages of the products. In addition, social media platforms such as Facebook, Instagram, and LinkedIn are also important channels for interacting with American consumers. Through these channels, brands can establish long-term interactive relationships with users and enhance brand loyalty.

5.3 Cooperation and Alliances

Establishing cooperative relationships with local US companies or brands is an effective way to enhance brand visibility and market trust. By collaborating with local companies, brands can leverage their existing market channels and customer resources to quickly enter the US market. For example, brands can partner with local home decoration companies, commercial construction firms, or lighting design agencies to jointly promote LED lighting products. In addition, brands can also conduct joint marketing activities with local US brands, such as co-hosting product launches and promotional events, to further enhance their brand visibility in the US market.

Industry associations and trade shows are important platforms for understanding industry trends, expanding customer resources, and enhancing brand visibility. In the US, there are many associations and trade shows related to the lighting industry, such as the American Lighting Association (ALA) and the International Lighting Design Show (Lightfair International). Brands can showcase their latest products and technologies and interact face-to-face with industry experts, potential customers, and partners by participating in these events. In addition, brands can enhance their influence and professional image in the industry by hosting seminars and technical demonstrations at trade shows.

5.4 Customer Experience Optimization

In the US market, customer experience has a profound impact on brand loyalty and word-of-mouth. According to the latest survey by UserTesting, more than two-thirds of American consumers are willing to pay an average premium of 25% for their favorite brands. This data indicates that a high-quality customer experience is a key factor in cultivating brand loyalty. In addition, 80% of American consumers can name at least one brand they are loyal to, with an average of six brands per person, and the highest loyalty is in the grocery and apparel categories. In terms of pre-sales consultation, consumers expect to receive professional and accurate advice to better select products that suit their needs. The in-sales experience is equally important, with a convenient purchasing process, a variety of payment options, and fast logistics and delivery being key to improving customer satisfaction. For example, 73% of American consumers say they will continue to buy their favorite brands even if prices rise significantly, especially in the and jewelry categories, gaming where consumers are more willing to accept price premiums. This indicates that optimization in the in-sales process can effectively enhance consumers' purchasing intentions and loyalty. After-sales service is also an important factor affecting brand loyalty. According to a report by Merkle, more than 75% of consumers say that consistent customer experience and service make them more likely to do business with a brand. In addition, a report by Zendesk points out that 61% of consumers say a bad experience is enough to make them switch to a competitor. (NerdWallet, 2024) Therefore, brands need to provide comprehensive after-sales support, including product installation guidance, repair services, and flexible return and exchange policies, to reduce consumer dissatisfaction and attrition. From the data, 93% of consumers are likely to buy from the brand again if they have had a very good experience. This further illustrates the positive impact of a high-quality customer experience on brand loyalty. At the same time, 54% of consumers will consider abandoning a brand if it fails to meet their expectations. This indicates that brands need to continuously optimize the customer experience in all pre-sales, in-sales, and after-sales stages to enhance customer satisfaction and loyalty.

Digital tools provide brands with the convenience of collecting and analyzing

customer feedback. Brands can use online surveys, social media monitoring, and customer review systems to promptly understand customer needs and opinions. By analyzing feedback, brands can identify customer shortcomings in their products and services and make timely improvements. For example, brands can optimize product features, improve packaging design, or adjust marketing strategies based on customer feedback. In addition, brands can also use customer feedback data to identify potential market opportunities and develop new products or services to meet the diverse needs of customers.

6. Conclusions and Future Outlook

6.1 Research Conclusions

This study has conducted an in-depth analysis of the characteristics of the US LED lighting market and consumer behavior and explored the importance of digital marketing strategies in the localization of LED lighting brands in the US market through successful and unsuccessful cases. The research results show that digital marketing strategies play a crucial role in enhancing brand visibility in the US market, improving customer experience, and increasing market share. Through market segmentation and precise positioning, brands can better meet the needs of different regional and industry customers; content marketing enhances the brand's influence and user engagement by providing content that meets American culture and consumer needs; cooperation and alliance strategies help brands quickly enhance visibility and expand market channels; and customer experience optimization enhances customer satisfaction and loyalty through high-quality service and continuous improvement. The implementation of these strategies can significantly enhance the competitiveness of LED lighting brands in the US market and lay a solid foundation for their long-term development.

6.2 Research Limitations and Future Outlook

Despite the achievements in exploring the application of digital marketing strategies in the localization of LED lighting brands in the US market, this study still has some limitations. First, data limitations are an important issue. Due to restrictions on data sources, some market data and consumer behavior analyses may not be comprehensive or may be somewhat outdated, which may affect the accuracy of the research results. Secondly, the limitation of the scope of research should not be overlooked. This study mainly focuses on the analysis and application of digital marketing strategies, and other factors that may affect brand localization, such as product quality and pricing strategies, have not been explored in depth.

In response to the above research limitations, future research can be carried out in two directions: the application of emerging digital marketing technologies and the study of long-term brand-building strategies. With the development of emerging technologies such as artificial intelligence, big data, and the Internet of Things, future research can further explore the application of these technologies in the localization of LED lighting brands in the US market and how to use these technologies to enhance marketing effectiveness and customer experience. At the same time, brand localization is a long-term process, and future research can focus on how to achieve long-term and stable development of LED lighting brands in the US market through continuous brand building and market strategy optimization.

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