

SANNAN DYNAMIC LIGHT BOX SOLUTION

Shenzhen San Nan Technology Co., Ltd.



Focus on the research and production of LED advertising light boxes' light sources

Provide an installation plan for LED light box lighting sources

<https://www.snkcn.com/>



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01 COMPANY PROFILE

Company profile



Shenzhen San Nan Technology Co., Ltd.

Shenzhen Sannan Technology Co., Ltd. is specialized in advertising light box and decoration lighting vision solution is a research and development, production, sales and service as one of the high-tech enterprises.

According to the production management concept of international standards, SanNan strictly controls product quality and various production management work. Products mainly use nichia, cree, osram, Taiwan Genesis and other international first-class led lamp beads and domestic first-class Sanan, Epistar LED lamp beads. All products have CE, RoHS, FCC UL BIS certification.

The main products of the company are dynamic light box, dynamic light panelled backlight bar, led edge light bar, led light strip and control system, widely used in airports, subways, high-speed rail, bus stations, jewelry, automobiles, mobile phones, catering, cosmetics, clothing, finance, oil, education and other industries advertising decorative lighting.

SanNan has a strong R&D team, adhere to innovative development, committed to providing you with quality lighting and visual solutions.

As of this year

2026

Industry Experience

12

Excellent Examples

5000⁺

Engineering Support

200⁺

CERTIFICATION

企业资质

Federal Communications Commission



Conformite Europeenne



UK Conformity Assessed



Restriction of Hazardous Substances



What is a dynamic light box



One-sentence definition:

A dynamic light box is a new type of advertising display that uses programmable LED light sources instead of traditional light box lighting. By controlling the on/off, colour, intensity, and rhythm of the light, it creates flowing, flashing, and other dynamic effects on static advertising images.

What is its core principle?

Programmable LED light source

The light box uses LED beads with built-in chips, which can be programmed via a controller to precisely control the on/off state, colour, brightness, and flashing rhythm of each individual bead.

Combination of image and light

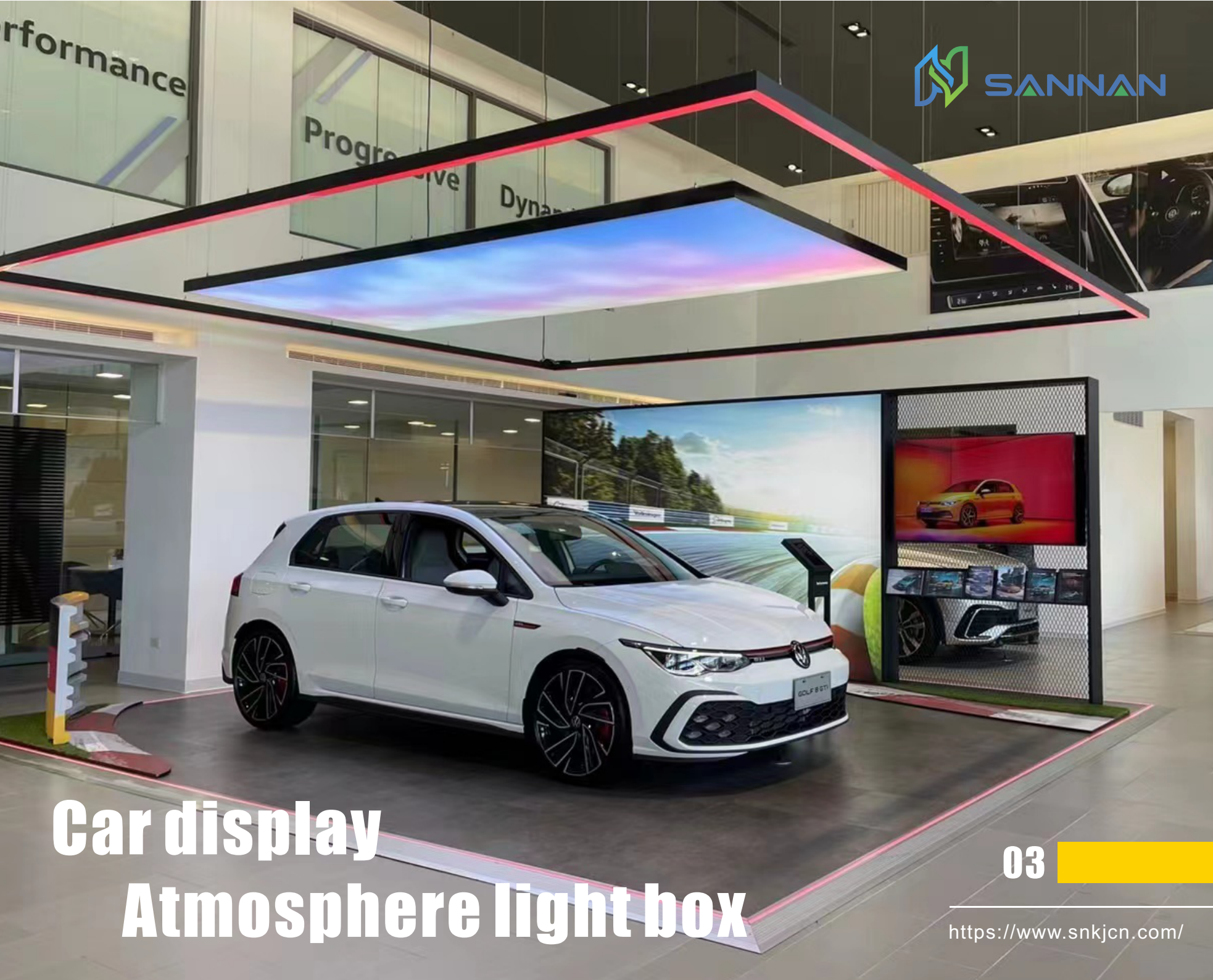
The image in the light box is designed with "light-transmitting areas" and "light-blocking areas". When the programmed LED light changes from behind, the light passing through different areas of the image produces vivid visual effects such as rippling water, drifting clouds, and blinking characters.



RGB Dynamic ceiling light screen

RGB dynamic light curtain light box is a premium interior design technique that elevates traditional lighting into atmospheric media. It is ideal for users who value personalization and prioritize entertainment experiences — such as e-sports, home theater, or party settings.

02



Car display Atmosphere light box

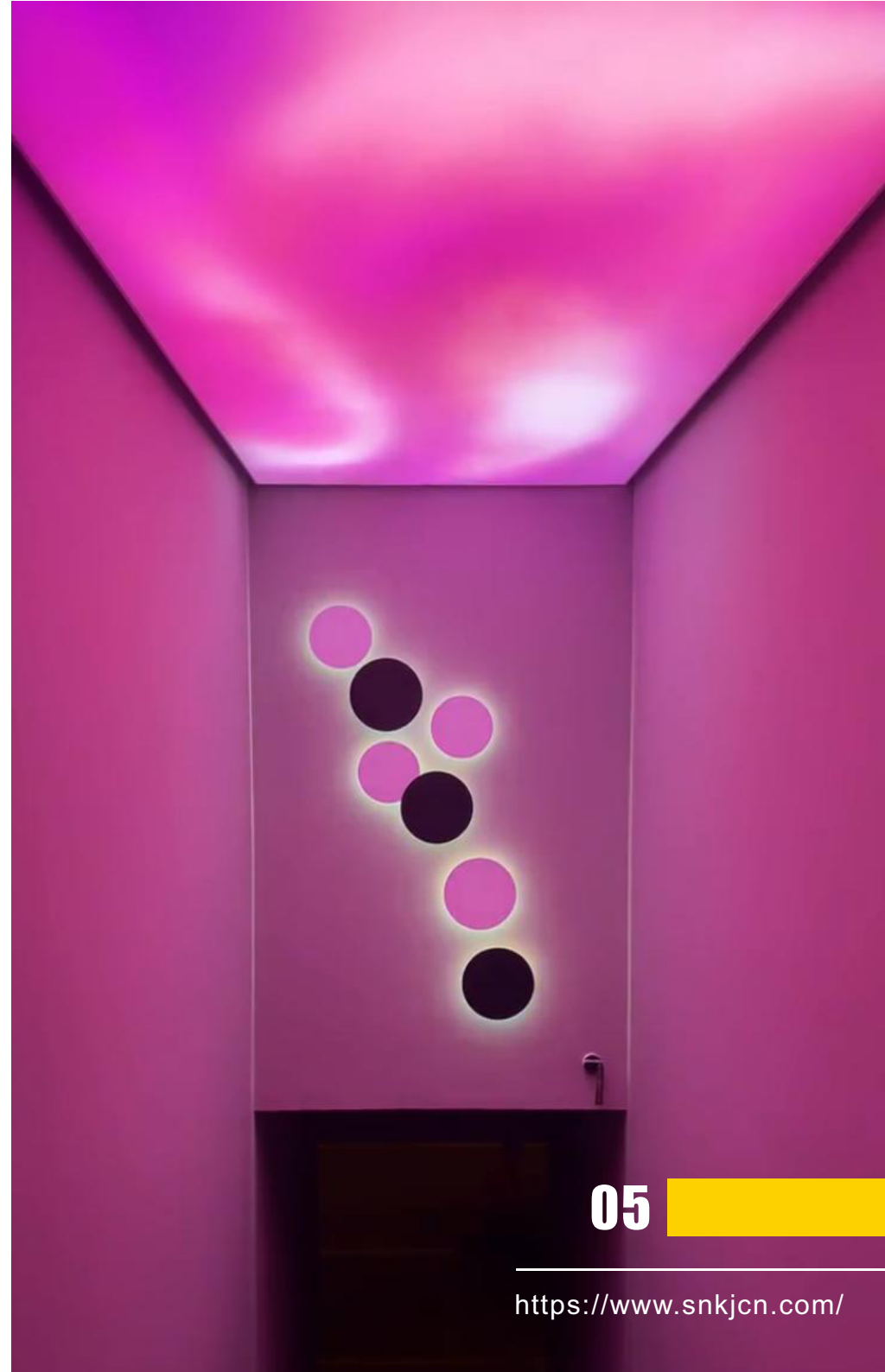
03

04

RGB Dynamic Light Curtain light box

THE ULTIMATE EXPRESSION OF MAIN-LIGHT-FREE DESIGN

It breaks away from the stale, lifeless feel of traditional “dead white” ceilings, instantly infusing the space with a sense of technology and atmosphere. It delivers uniform illumination across the entire ceiling — no dark corners, no glare.



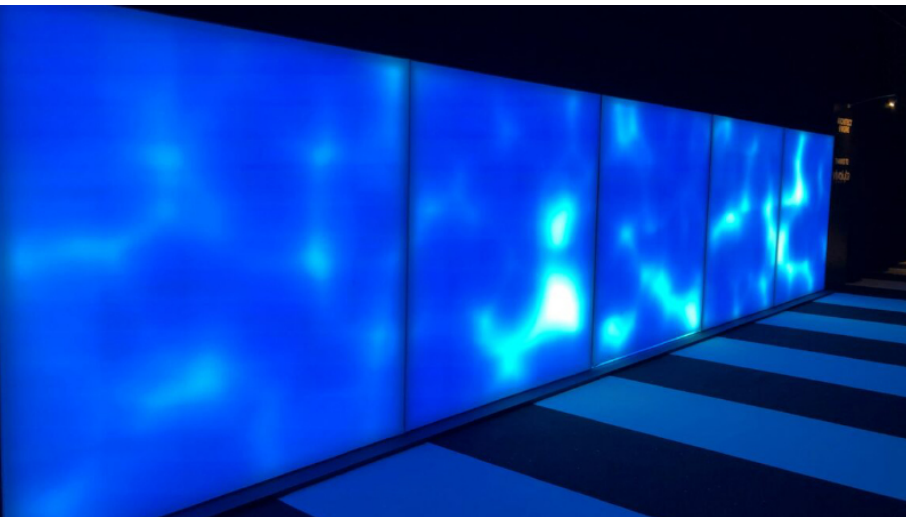
Bar counter RGB dynamic light box

The highly atmospheric and commercially valuable creative design can instantly transform an ordinary bar area into the core visual focal point, significantly enhancing the style, vitality and guest experience of the space.



Full-color dynamic Display light box

The full-color dynamic light box is an intelligent lighting device that is precisely controlled by a program, capable of presenting millions of colors and achieving rich dynamic visual effects. It is an excellent tool for creating an ultimate atmosphere and attracting attention visually.



Shop window Dynamic lightbox

By combining traditional static imagery with LED dynamic lighting, mechanical motion, or holographic technology, the once-still window display is brought to life, capturing the attention of passersby in an instant and drawing them into the store.

Unlike the “identity-focused” nature of storefront signage, dynamic window displays place greater emphasis on scene creation, product presentation, and visual impact. They are commonly used in retail, dining, and entertainment sectors, whether in street-facing window displays or key in-store feature areas.





Shop window Dynamic lightbox

White light Dynamic light box

A modern light box with a single color temperature of white light combined with programmable dynamic effects. It eliminates the complexity of colors and focuses on shaping the spatial sense through the movement, form and changes in light and shade, creating an extremely minimalist, sophisticated and technologically advanced visual experience.



Find your perfect match!





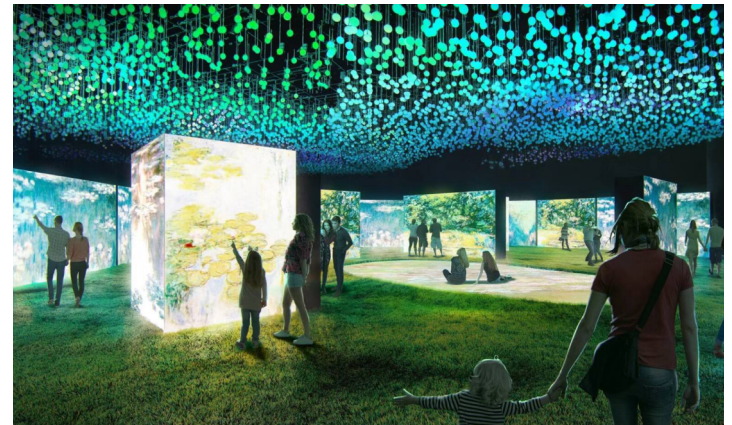
White light Dynamic light box

12

Interior space design

Dynamic light box

By leveraging the purity of white light and the narrative nature of dynamic light, the originally cold architectural components are transformed into artistic installations with a sense of life. In future interior design, it is not only a lighting tool but also a "visual anchor point", which can effectively enhance the memory points, commercial value and artistic tone of the space. If you are designing a space that needs to emphasize a sense of technology, futurism or high quality, introducing an appropriately placed white light dynamic display box can often be the finishing touch that makes all the difference.



Bar counter dynamic light box

The highly atmospheric and commercially valuable creative design can instantly transform an ordinary bar area into the core visual focal point, significantly enhancing the style, vitality and guest experience of the space.



Dynamic Entrance Header light box

It breaks through the limitation of traditional light boxes that only have static images. By taking advantage of the programmability of LED light sources, it achieves dynamic effects such as text jumping, color gradients, image scrolling, and even video playback.



LED Dynamic Sky Screen Control System

System Overview The LED Dynamic Sky Screen Control System is a professional control solution developed for dynamic product applications. It integrates an LED intelligent controller, sub-controllers, intelligent unit modules, and dedicated power supplies to achieve stable, reliable, and efficient control of dynamic LED Sky Screen displays. The system features an exclusive private transmission protocol, enabling high-volume data transmission and precise control of 10,000 pixel points per channel signal.

Development Languages: C, C++, VC, DELPHI, FLASH, DIRECTOR

Compatibility: Supports connection to various external market commonly used induction on-off controls and PC software systems

Core Controllers

LED Intelligent Controller

Main Control Chip: High-performance 32-bit ARM CPU

Features:

Supports complex operation processing

Equipped with large-capacity memory for long-term scene mode storage

Reserves multiple external control interfaces for flexible mode switching, playback speed adjustment, and screen brightness regulation

LED Sub-controller

Core Chip: 32-bit ARM intelligent CPU

Features:

Deeply integrated with LED intelligent unit modules

Shares total bus data volume processing capabilities

Implements efficient data decoding and energy-saving adjustment

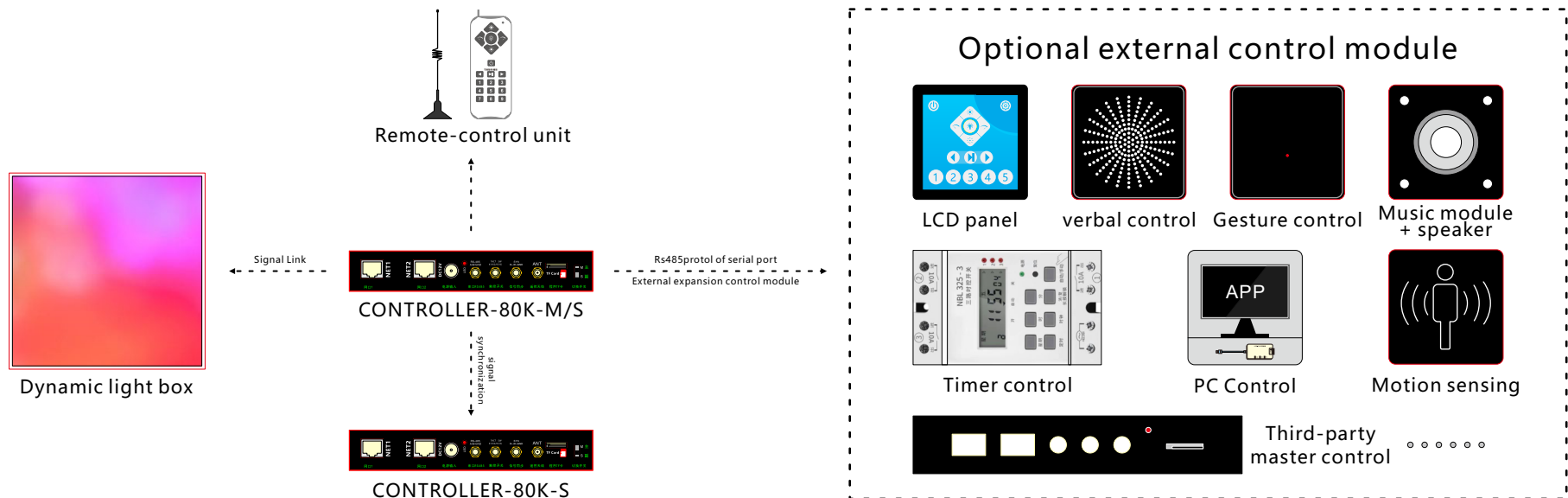
Ensures stable and reliable system operation even under high-load conditions



LED Dynamic Sky Screen Control System

Control Modes & Interfaces: The system supports multiple external control modes and can be connected to mainstream market induction on-off controls via the RS485 serial port protocol. It supports connection to PC dedicated software for centralized control, including:

**Scene mode switching / Playback speed adjustment /
Screen brightness regulation / On/off control of each channel signal**



Development Languages:
C, C++, VC, DELPHI, FLASH, DIRECTOR

LED Dynamic Light box Controller

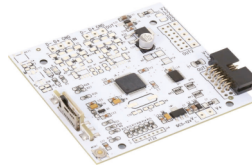
Compatibility: Supports connection to various external market commonly used induction on-off controls and PC software systems

Controller type

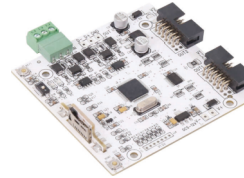
Network port Controller



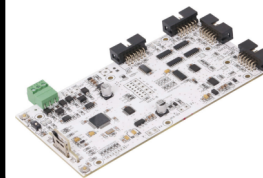
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SN-K502-2



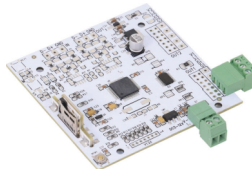
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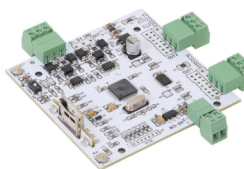
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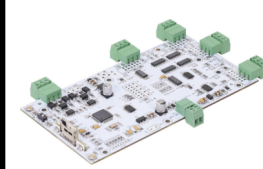
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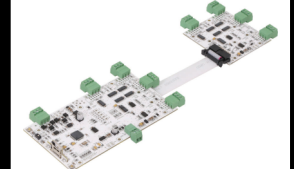
SN-K503-2



SN-K503-4



SN-K503-8



Linking method: Multiple main controllers can be synchronized simultaneously.

Data storage: TF Storage Card

Colorful and Dynamic Sky Screen



Video description

The dark blue dynamic blue sky and white clouds video is projected through the membrane material, presenting a dynamic effect of a large area of blue sky and white clouds. Dynamic and realistic. It allows you to adjust the speed of the clouds and can remotely switch between multiple blue sky and white cloud programs.

Blue Sky and White Clouds - Deep Blue Series. Select the video animation featuring a contrasty blue sky and white clouds. Choose large clouds to simulate a close-up effect of the sky. Maximize the reproduction of dynamic sky effects indoors.

Animation combination / Duration

The "Blue Sky and White Clouds Deep Blue" series plays in a 1-minute 60-second loop.

MORNING (3H) / NOON (3H) / EVENING (3H)

Playback Management

Remote switching / Timing control / Infrared sensor

Operation Manual

- The system automatically plays in a loop.
- Supports remote switching of animations.
- Supports loop playback of multiple scene animations.

Experience method

Dynamic sky effect (blue sky & white clouds)
Immersive indoor experience of realistic outdoor street scenes

Why choose SanNan?



1. We offer free technical support
2. We have 5year developing&manufacturing high quality LED lights.
3. You will get a reply within 24 hours.
4. The strict quality control system.
5. Make sure the consistency of each batch of orders, including the same bin color temperature.
6. OEM&ODM services.



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Youtube

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