RGB Laser Rear-Projection Video Walls

Model:RGB-70

⬊ INTRODUCTION

RGB-70 RGB laser rear-projection video walls create stunningly vibrant and high-resolution images on a large projection screen. Unlike traditional front-projection systems, which project light onto a screen from the front, RGB-70 projects light onto the screen from behind, resulting in a unique viewing experience with excellent image quality and color accuracy. This cutting-edge technology has found applications in various fields, including entertainment, education, advertising, and more, due to its ability to deliver immersive visuals with wide color gamut, high contrast ratio, and enhanced brightness. With its innovative use of RGB lasers, RGB-70 has revolutionized the way large-scale displays are created, offering an impressive and captivating visual experience for audiences in a wide range of settings.

⬊ FEATURES

- Using original R, G, B laser modules, present more pure color and stable image
- The redundant design of light source, power supply and input source ensures that the system can cope with any unexpected situation
- Support highest dustproof level IP6x in DLP industry to provide protection for the long-term operation of Internal key components
- 125,000 hrs lifetime of the laser light source in standard mode for uninterrupted operation
- Using TI's latest 1920 x 1080P pixel LVDS DMD display chip and screen from the world's top screen manufacturer DNP to display top level images and videos
- Through high-precision manufacturing, the service life of the lens is more than ten years
- 2500ANSI ultra high brightness and 3000:1 contrast to offer excellent image quality and visual experience
- Front maintenance design to save more space Intelligent brightness and chroma adjustment
- Built-in magnetic levitation ultra-quiet fan, unit noise <20dB

RGB-70

EXTREME COLOR PERFORMANCE

Ultra High Brightness

In order to achieve a perfect image display effect and meet the strict front-screen brightness requirements, relying on the new laser light source technology, it can present a brightness of up to 2500 ANSI lumens

Cinematic Wide Color Gamut

More than 160% NTSC color gamut range, 1.3 times the color gamut of the traditional three-color LED light source, 1.6 times the color gamut of the traditional monochromatic laser light source.

High Contrast

Based on TI's latest DMD platform and using DarkChip4 technology, it can present clear and bright images with a dynamic contrast ratio of up to 1,200,000:1

iSEMC   **VS**   other

High Dark Area Expression

The display unit adopts gamma correction circuit and unique dark area balance technology, which can greatly improve the performance of the dark area of the picture.

High Color Gamut & Contrast

More than 160% NTSC color gamut range, 3000:1 high contrast ratio, can better and more realistically express the original color attributes of the image, the imaging is closer to the natural color, and truly restore the authenticity of the image.

10bit   12bit

12-bit γ Correction Circuit

Using the industry-leading 12-bit three-dimensional high-frequency pulse circuit, it can obtain 4096 gray levels, which is 4 times that of ordinary projectors. A smoother and more delicate image effect can be obtained, and the unique step transition phenomenon of digital images can be completely eliminated.

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╲ HIGH RELIABILITY

DLP Technology

The whole series of products adopt the DLP technology of TI Texas Instruments industrial platform, no dead pixels, no ghosting or burning phenomenon
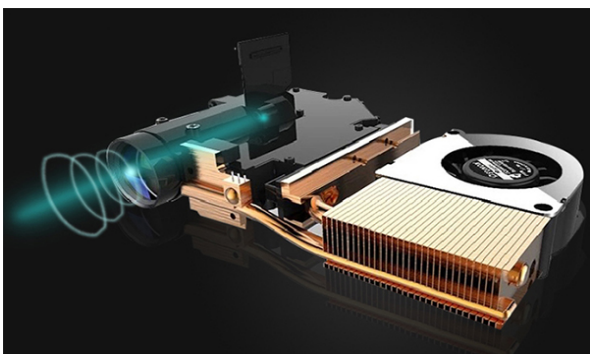
Highest Level Dustproof Design

The projection core adopts an all-aluminum alloy casting cavity, the component room and the optical path room are isolated, which greatly reduces the dust adhesion on the screen and pollution caused by the static electricity, reach the highest dustproof level IP6X in the DLP industry and improve the long-term stability of the system effectively

Efficient Cooling Technology

Support strong exhaust, heat sink, and pipe heat dissipation technology at the same time to ensure that the temperature difference of the entire display wall is within 2°C.

Dual CPU Control

Support dual-CPU data parallel distributed processing architecture, different CPUs are in charge of different system functions, communication and cooperation between dual CPUs, maximizing system response speed.

Redundant Design

With multiple redundant design, it supports light source redundancy, signal access redundancy and modular redundant power supply, providing high reliability performance and calmly handling all emergencies.

## 10 Years of Uninterrupted Operation

A loyal assistant who works all year round, it adopts the latest DLP technology and precision manufacturing process, and supports 7×24 hours of uninterrupted operation over 10 years.

RGB-70

➘ INTELLIGENT CONTROL

Smart Brightness Control

With a unique intelligent brightness balance technology, the built-in brightness sensor continuously monitors the brightness output of each cabinet to ensure an extremely accurate brightness balance of the entire display wall.
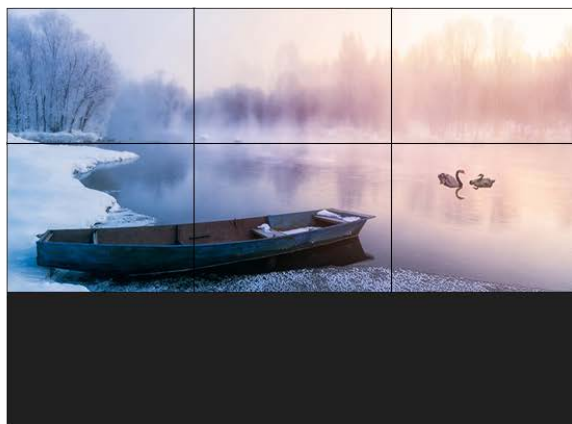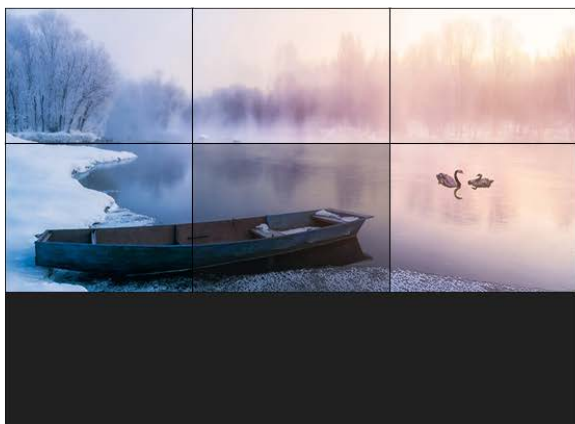
Auto Color Balance

With a unique color balance technology, it supports compensate the color and brightness differences between the display units of the display wall, and effectively suppress the dispersion of the three primary colors between the screens.

Intelligent Color Temperature Adjustment

Intelligent Color Temperature Adjustment

Intelligent Temperature Adjustment

Only when the temperature is higher than the set value, the cooling fan will start, so as to reduce the consumption of energy.

Intelligent Video Wall Control System

With the intelligent large-screen control system, users can display up to 8 signal windows on each display unit, realizing flexible display methods such as free window opening, overlay, and roaming

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SPECIFICATIONS

Model	RGB-70
Screen Size	70 Inch
Mainrtenance Method	Front maintenance
Screen Ratio	16:9
Resolution	1920x1080
Brightness	2500ANSI
Contrast	3000:1
Brightness Uniformity	>97%
Base Color Uniformity	>99.99
Screen Viewing Angle	Horizontal 178°. Vertical 160°
Screen Bezel	0.1mm~1.0mm
Light Source System	RGB LPD Solid light source
Control Signal input	RS232 / infrared remote control
Signal Input	HDMI / DVI / VGA / CVBS
Signal Output	DVI
Power Consumption	250W
Lifespan	>100000
Voltage	AC 220V±10%,50/60HZ ±1HZ
Operating Temperature	0°C-40°C
Working Humidity	Working humidity: 10%-90% (no condensation) Storage humidity: 5%-90%% (non-condensing)
Seismic Rating	Level 8

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