

RGB+W LED Mood Lighting System

Try something digital.

The B/E Aerospace RGB+W LED Mood Lighting System is the most technologically advanced, completely digital, solid-state lighting system available for both commercial and business jet aircraft.

What makes B/E's system unique is its dual capabilities. The system boasts the ability to produce both high quality, white light that is as bright as traditional fluorescent systems, while also demonstrating the ability to create mood lighting that enhances the customer's travel experience and reinforces the brand identity of airlines. This capability is accomplished by utilizing a sophisticated drive circuitry, patented, award-winning Chromacore technology and current controlled LEDs. Moreover, by combining these best in breed technologies, B/E's system ensures the finest possible performance and color consistency from each LED.

Features and Benefits

While exhibiting the same efficiency and cost saving benefits of general LED lighting technology, the user also has a palette of 16.7 million colors to choose from. This extensive color changing capability gives the user the highest level of color customization for programs ranging from subtle changes in hue to smooth and seamless color that washes throughout the cabin. Additionally, the system can control up to four zones in the cabin so that several areas of the aircraft can experience different programs simultaneously.

Each show can be triggered by pressing a single labeled button, making it easy for busy crew members to display dynamic lighting effects such as:

- Sunrise / sunset displays.
- Enhanced boarding / beverage service displays.
- Long-haul / red-eye nighttime displays.
- Airline brand color scheme for boarding or disembarking.
- Visual effects for equator crossing or IDL (International Date Line).

Or, if general illumination is required, the crew member can easily adjust the settings to display high quality, high CRI, general white LED illumination.



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How it works.

The wizardry behind this new generation lighting system is owed to the great advancements in LED technology. Using microprocessor controls and patented technology, the unit can control the intensity of the light output by rapidly switching the RGBW channels of LEDs on and off thousands of times per second for a completely digitally controlled system.

Varying the output of each of the LED channels allows the user to choose from millions of colors in order to create countless lighting effects.

System Components

The RGB+W LED Mood Lighting System is comprised of a master controller, a cabin controller, a power supply, the lighting units and the Programming Installation Reporting Tool (PIRT).

Master Controller and Cabin Controller

- Easy to use for busy flight attendants.
- Each controller is available to match the existing controls of the lighting systems.
- Easy to maintain.
- Quick installation of new shows.
- Meets all RTCA environmental, electrical and EMI requirements.
- Top level control by Cabin Management System (CMS).
- Only accessible to authorized personnel.
- Mounts in existing control panels
- Visual indication that system is active.

Power Supply

- RTCA / Boeing compliant for EMI.
- Optimizes aircraft power generation and distribution.
- Isolates power supply from aircraft system.

RGB+W Lighting Units

- Superior and consistent white light.
- Small, lightweight profile.
- Meets RTCA requirements.
- Interchangeable lighting units.
- Monitors temperature, run time and diode operation.
- Extreme high temperature protection.

Programming Installation Reporting Tool (PIRT)

- Extensive programming options.
- External programming and data analysis.
- Locates the lighting unit sequentially and specifically within the aircraft.
- Provides summary of system status.
- Provides record of system performance.



B/E's RGB+W LED Mood Lighting System combines all of the money-saving benefits associated with LED technology while exhibiting product innovation that make it the world's most technologically advanced lighting system for all aircraft models.