

LIGHT SPRITES™

 Multi-User  Free Play  All Ages

Light Sprites™ is a sophisticated lighting system that can transform any space, indoor or out, into a uniquely immersive environment. Light Sprites™ has the ability to emulate fireflies, fireworks, the night sky, a flurry of magic fairy dust, imaginative wayfinding, and just about anything your imagination can conjure up. It is a hands-free interactive family entertainment feature that will compliment any existing space, offering your guests in the moment interactions, be they changes in the environment or responding directly to guests' actions.

The characteristic that makes Light Sprites™ truly stand out is that it is an interactive system. It can respond to a wide range of input and is easily integrated with environmental sensors, tracking and identification systems, as well as activated props and set pieces. Another differentiator for Light Sprites™ is that each Sprite can be individually programmed and controlled, creating a system that is capable of highly dynamic behaviors and generative animations that respond to guests in real-time.

The following are just few examples of how Light Sprites™ can dynamically activate your experience and your environment:



fireflies

From curious fireflies who come to greet you to a flourish of pixie dust, Light Sprites™ are full of personality to delight your guests.

Light Sprites™ can be programmed to simulate any kind of behavior you can imagine, from organic to magical, helping to tell your story and bring an environment to life. In this example, Light Sprites are programmed to simulate fireflies' natural behaviors such as flocking, random synchronization, etc. Their movement is organic and they respond to guests' proximity and motion within an environment. If you get close and stand still, fireflies will appear around you and flash...a lot (they are curious about you!). But if you move too quickly, or make a sudden movement while observing, they scatter and hide. Light Sprites™ can be tied to any environmental or guest input, creating spaces that are uniquely responsive.



fireworks

Imagine converting any space into a brilliant fireworks display.

Light Sprites™ can be placed into any arrangement to create one-of-a-kind experiences. In this example, guests can launch fireworks into the sky using gesture, a physical prop or by simply entering space—the possibilities are endless. With the magic of the Light Sprites™ system, no two explosions are ever quite the same, generating random variations in color, intensity, time of decay, and number of LEDs used in each instance.



constellations

The magic of Light Sprites™ brings a ceiling, a wall, or any other blank canvas to life.

A simple ceiling can become a starry night sky with the help of Light Sprites™. By placing sprite sources into a star field arrangement and programming the characteristic twinkle and color of stars and planets, any indoor or outdoor space transforms into a galaxy for guests to discover. This environment becomes interactive by providing designated floor graphics or touchpoints that guests can activate to reveal new patterns, such as constellations, which become brighter, more visible, and scintillating as a direct result of guests' input.



bioluminescence

Transform an ordinary hallway into an extraordinary undersea adventure

Light Sprites™ can be customized to only react and light up when visitor input is detected, bringing an environment to life when guests are present. With flexibility in the sprites placement, every guest interaction results in a different reaction, due to variations in pattern, path, and decay time in the Sprite's activation. In comparison to the firefly example, this effect is more path-like than point source, creating a sense of diffuse movement as guests move through a space that is truly unique to the Light Sprites™ system.

LIGHT SPRITES™



Unlike current LED fixtures that have light sources in pre-defined strips, strands or sheets, Light Sprites™ can be placed anywhere within an environment, providing flexibility in design that allows you to create fully immersive and dynamic environments in any indoor or outdoor location. The Light Sprites™ system is scalable and can control a large number of individual LEDs with minimal requirements to your show or architectural lighting system. Whether in a zoo, an urban park, or even a lobby, any space becomes the perfect stage for Light Sprites™ to shine and interact with your guests.

RECOMMENDED USE:	KEY FEATURES:	CUSTOMIZATION OPTIONS:
Outdoor, Indoor	<ul style="list-style-type: none"> • Outdoor rated (UV, dust, and water). • Huge flexibility in placement of LEDs compared to typical LED strips, strings, or panels. • Using the Light Sprite™ Controller as an intermediary, the 1024 LEDs can be controlled by as few as 2 DMX channels utilizing our Light Sprite™ control software. A typical setup to control 1024 RGB LEDs would traditionally require 6 DMX universes. • Addressable fixtures can be virtually created from user specified groups of Light Sprite™ clusters and controlled independently in a lighting control system. • Can run on its own with preprogrammed behaviors or can be tied into AV & show control systems. • Can be combined with environmental sensors, activated props, and tracking systems to create unique interactive behaviors and experiences. • Visual software UI for users to create, record, and easily recall custom behaviors. • PATENT PENDING 	<ul style="list-style-type: none"> • Scalable ecosystem • Customizable behaviors and generative animations to meet your desired experience • Easily integrated with a wide variety of sensing technologies, tracking systems, environmental sensors, identification systems, and more • Physical form of sprites customizable to your desired theme and experience

BASE PRODUCT SPECIFICATIONS

PHYSICAL PARAMETERS:	POWER:	APPROVALS / RATINGS:
Light Sprites™ system consists of one Controller, one Base Station, up to 64 Links and up to 1024 LEDs. Number of Links and LEDs depend on the required flexibility in placement of LEDs.	Power via standard AC power connector: Input 90VAC to 264 VAC.	IP65 (Link cases) IP67 (LEDs) (to be verified, testing pending)
Standard Fixture is a 5mm RGB LED in custom size and casing.	Up to 500W per Base Station.	
Controller: 6.5" x 7.5" x 1.7" Base Station: 8.75" x 10" x 1.75" Link: 2.25" x 4.25" x 1.625"	Voltage output to Links: Input / Output 48V DC.	
Distance from Base Station to first Link can be up to 100', distance between links can be up to 12'.	Voltage output to LEDs: Output 5V DC	



Contact us for more information at products@binteractive.com
www.binteractive.com/products

Beaudry Interactive, LLC.
 5350 Riverton Avenue, North Hollywood, CA 91601
 bi@binteractive.com | +1 (818) 855-1206 | binteractive.com