Litesphere™ True RGB+W - Pixel-Level Control. True White Performance. Fewer DMX Channels.

Litesphere™ True RGB+W is Tivoli Lighting's most advanced globe strand system—combining dynamic pixel control, true RGB+W output, and a patented 3-channel DMX architecture that simplifies programming while maximizing creative flexibility. Designed for architectural, entertainment, and experiential environments, this system delivers high-impact visuals with real-world efficiency.



Fully Pixel-Addressable Performance - Every Litesphere globe is an individually addressable pixel

Designers can precisely control color, intensity, and timing at each globe—enabling advanced effects such as:

- **Chases and color waves**
- **Gradients and pixel mapping**
- **Animated patterns and dynamic sequences**

Pixel-level control combined with reduced channel usage makes Litesphere True RGBW ideal for large-scale installations without overwhelming DMX universes.

True RGB+W - Without the Extra Channel

Unlike conventional RGB+W systems that require 4 DMX channels per pixel, Litesphere True RGB+W delivers full RGB+W performance using only 3 DMX channels.

- **Auto-Addressable Design**

Streamlined setup minimizes labor, configuration errors, and commissioning time.

- **Reduced DMX Channel Count**

More fixtures per universe with no loss of performance.



Patented 3-Channel RGB+W DMX Control

Litesphere True RGBW continuously monitors RGB signal levels. When Red, Green, and Blue are all driven to 255, the system automatically:

- Activates the dedicated white LED
- Turns off the RGB emitters
- Produces clean, accurate white light

This patented logic eliminates the need for a separate white channel—saving DMX space, simplifying layouts, and reducing programming time.

Offline & MADRIX® Control

Litesphere™ True RGBW supports both standalone offline playback and MADRIX® pixel mapping—providing flexible control for permanent and dynamic installations.

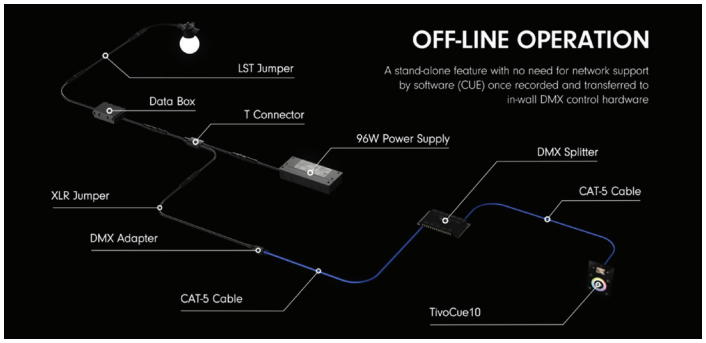
- **Scalable for Any Environment**

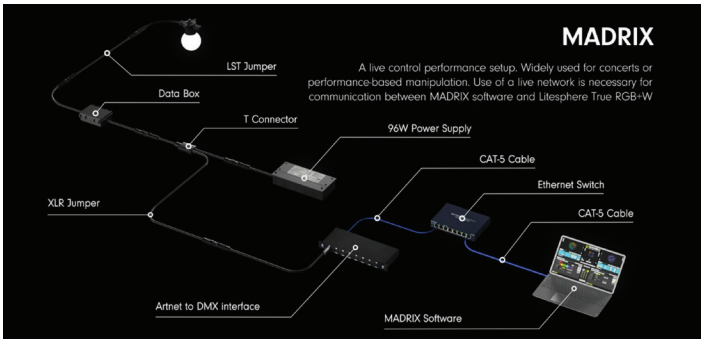
Equally effective for subtle architectural accents or high-energy, immersive applications.

Off-line (Standalone) Operation

Pre-programmed scenes and effects can run automatically without a live DMX console or computer.

- Pre-Programed pixel mapping with individual globe control
- Reliable, repeatable playback
- Ideal for permanent or nightly installations
- Reduces control hardware and infrastructure





MADRIX® Pixel Mapping

Each globe appears as an individual pixel in MADRIX, enabling real-time dynamic effects.

- Live or programed pixel mapping with individual globe control
- Chases, waves, gradients, and animated effects
- Live, scheduled, or event-based programming

Globe Options (2.5" PET)

A wide selection of durable PET globes gives designers greater flexibility in both aesthetics and performance. Each globe is engineered for durability, consistency, and compatibility with the Litesphere True RGB+W system, enabling customized lighting solutions for a wide range of architectural and decorative applications.

- **Classic & Diffused**: Clear, Frosted, Opal
- **Decorative ADAPT Mini**: Gina, Katie, Angela

Product Highlights

- **Globe Size:** 2½" Litesphere
- **Light Source:** True RGBW (RGB + Dedicated White)
- **Control:** DMX
- **Channels:** 3 per pixel (patented RGBW logic)
- **Voltage:** 24V DC
- **Pixel Control:** Individual globe addressing
- **Connectivity:** Sealed, water-tight connectors
- **Listings:** cULus Listed
- **Applications:** Interior & exterior architectural, entertainment, themed environments

Why Litesphere™ True RGBW

This is more than a color-changing strand—**it's a pixel-based architectural lighting system** engineered to deliver maximum visual impact with minimal system complexity. With patented DMX efficiency, true white performance, and individual pixel control, Litesphere True RGBW gives designers more freedom—and installers a faster, cleaner path to completion.

Scan QR Code For additional Tivoli Product Information

For samples, system layouts, or control guidance, contact your Tivoli Lighting representative or visitor visit www.tivolilighting.com.