

# ARTICULIGHT

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## LED SERIES

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### CHROMA TOWER 500



Imagine being able to change color, create patterns and move them along a tube. Now you can with the ground breaking innovative LED TOWER 500. Instead of neon or fluorescent, an array of LEDs fills each tube. It looks like neon or fiber optics, yet it does much more.

The CHROMA TOWER 500 instantly comes to life with flowing, ebbing streams of colored light going up and down or vice versa or from the middle to the top or from the middle to the bottom or vice versa. Custom patterns run automatically or are triggered from existing control systems. Visual effects that were previously impossible are now simple to create and control.

Each section contains individually controllable pixels comprised of red,

green, and blue (RGB mixing) LEDs. Pixels can be uniform for a solid color effect or different to create color patterns. Color patterns can move at varying speeds and continue through linked units.

CHROMA TOWER 500 model LO-DIA500-6M is a greater model for decorating locations of large space, such as squares, parks, stadium and etc. It is more than 6 meters high with a diameter of 500mm (19.685"). It will amaze you with more magnificent view. due to the large size, and for the ease of transportation, site-assembly is necessary, and therefore specialists are needed for installation.

Using LED as light source, the light first goes through the milky white PMMA tube and after times of inflection and fraction, it comes out of the PE tube as a mixed light. The tower is connected to a digital circuit inside and controlled by a controller outside. By adjusting the controller, you can get soft, uniform, colorful and three-dimensional light of 360 degrees.

Every CHROMA TOWER 500 towering to more than 23 feet can be transformed into a long light show that will delight people. When the lights change, for instance, to red and green for Christmas season or red, white and blue for American national holidays and for other special events and occasions, people will be dazzled. The CHROMA TOWER 500, can transform any surrounding into a recognizable icon and a beloved landmark. It will help market the area and can be shown beautifully in magazines and on television. Custom light shows can be designed and programmed by a digital controller.



Tourists, drivers, visitors, local residents and observers from near and far will be enchanted by the CHROMA TOWER 500. That area will become a focal point for interesting and interactive events, displays, gatherings, and promotions. The versatile CHROMA TOWER 500, "dresses" the architecture of the surrounding area in the colors of the season, holiday, or occasion-- custom tailoring it over and over again! It's a good idea to refer to the [Empire State Building web site](#) for inspiration and ideas.



### LIGHTING EFFECTS

- \* Fixed color: red, green, yellow, blue, purple, green, white and other single color display
- \* Color changing: 16.7 million color changing(true color of 24 bit)
- \* Unidirectional slow flow
- \* Two-way slow flow
- \* Scrolling chasing (scrolling back and forth)
- \* Scrolling color (scanning back and forth)
- \* Multi-color chasing
- \* Unidirectional fast flow
- \* Two-way fast flow
- \* Bi-color chasing
- \* Bi-color flow
- \* Color fading



### Product Specifications

Luminance: 2184.6LM  
Operating Temperature: -20 degrees C ~  
+50 degrees C  
Operating Humidity: 0-95%  
Protection Rating: IP65



### Communication Specifications

Communication Protocols: DMX512

Controller: SDL-109C-W

Signal Input Connector: 4-pin male connector

Signal Output Connector: 4-pin female connector



### Structure Specifications

LEDS: 5184 (red 1728, green 1728, blue 1728)

Outer Tube Material: PE plastic

Outer Tube Material: PMMA (transparent) plastic

Frame Material: 45# steel

Base and Sheathing Material: stainless steel

Dimensions: Diameter:500 mm H 6000 mm (19.685" x 19.685 ft)

Top Sheathing Size: Diameter: 860 mm H 505 mm (33.858" x 19.881")

General Height: 7200 mm (23.622 ft)

Net Weight: 260 kg (572 lbs)



### Electrical Specifications

Input Voltage: AC100-240V

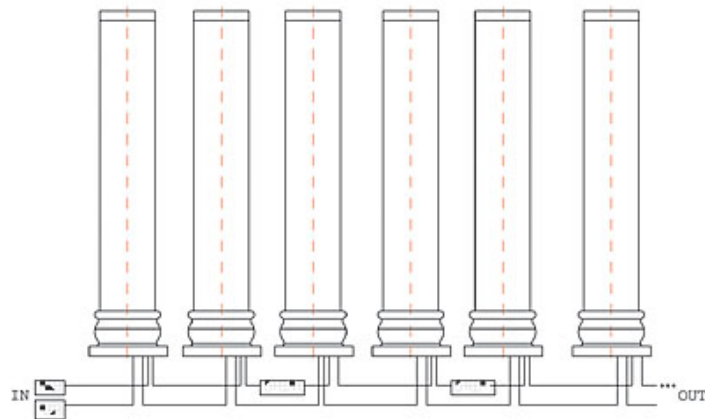
Max Power Consumption: 662W  
Rated Voltage: DC12V



#### INSTALLATION:

1. Set the base into the floor, then set up the tower unit by unit (altogether 6 units)
2. To connect the tower one by one, every single CHROMA TOWER 500 requires a signal amplifier, and every 2 pieces of Tower should be powered by a separate power source.
3. Connect the signal cables of each unit in parallel.
4. Connect the power cords in parallel and each 2 fixtures required to be connected to the power supply again.

#### INSTALLATION DIAGRAM:



#### FEATURES AND BENEFITS

- \* Operational and environmental benefits of LED technology
- \* Outdoor and indoor applications
- \* Direct-view light source, visible 360 degrees

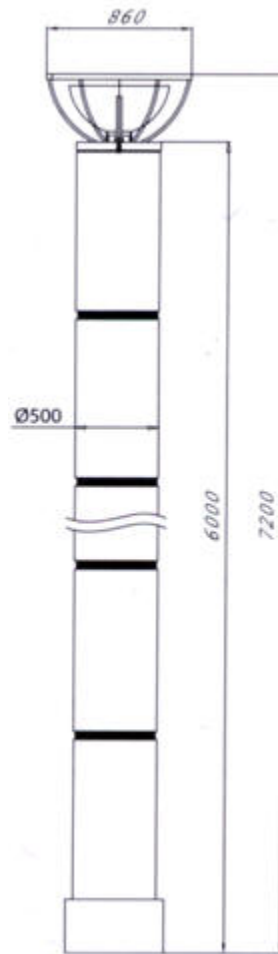
- \* Remotely controllable
- \* Optimum heat dissipation in a sealed enclosure
- \* Uses no moving parts
- \* State-of-the-art solid state lighting (SSL) technology
- \* Emits no infrared and no ultraviolet rays
- \* State of the art solid state technology
- \* Produces virtually no heat and emits no noise
- \* Built for harsh and extreme environments and has an IP65
- <http://articulight.com/acc/IPRatings.html>.
- \* Safe and reliable, easy maintenance
- \* Advanced microelectronic technologies and digital technology are adopted to produce multiple colorful lighting effects.
- \* Optimized electrical and optical design
- \* Long life and energy efficient
- \* Practical and Unique
- \* Robust construction suitable for outdoor applications
- \* Multiple lighting effects
- \* Uniform color mixing
- \* Intelligent control
- \* Subtle and dynamic color effects
- \* With full color lighting effects LO-DIA500-6M is a 6.5 meter tube that offers full color fading, chasing, and many other effects in its large library of dynamic programs.
- \* Designed and rated for permanent indoor and outdoor use.
- \* Available controller (SDL-109C) functions in stand-alone mode or as DMX interface for integrating tube systems into existing DMX networks.
- \* Convenient tube connect to system for daisy-chaining multiple tubes together.
- \* Long life, low power consumption, low heat, low maintenance and bright output.

## **APPLICATIONS**

- City Centers
- Boulevards
- Shops
- Department Stores
- Beach Fronts
- Architectural Design
- Display Lighting
- Thematic Lighting
- Theatrical Scenic
- Concerts
- Performing Arts
- Convention Centers
- Trade Shows
- Promotional Events
- Special Events
- Corporate Events
- Product Launches
- Parties
- Film/Video Production
- Stadiums & Arenas
- Museums and Art Galleries
- Airports and Seaports
- Supermarkets
- Movie Theatres
- Theme Parks

- Restaurants and Hotels
- Monuments and Historic Sites
- Beautification Projects
- Shopping malls
- Casinos
- Night clubs & Bars
- High Rise Buildings
- Houses of Worship
- Landscape Lighting
- Parks
- And much more

**TECHNICAL DRAWING (MM)**



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