

# ARTICULIGHT

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## LED SERIES

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### DIGI DMX TUBE

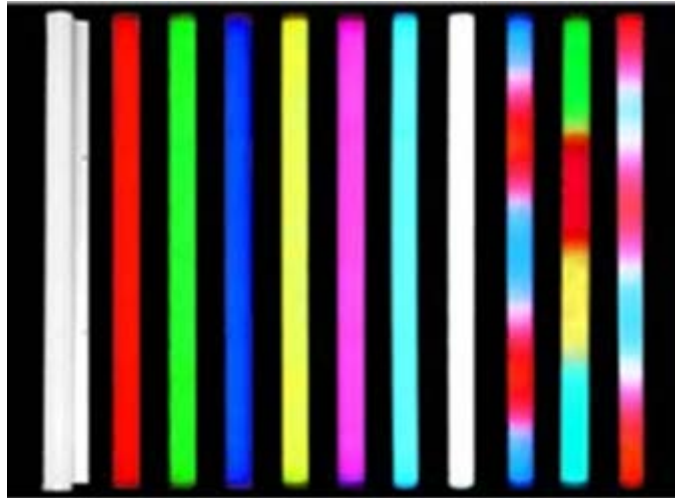
ADVERTISING \* PROMOTION \* ARCHITECTURAL \* DISPLAY \* ENTERTAINMENT \* RETAIL \*  
SIGNAGE \* INTERACTIVE



Imagine being able to change color, create patterns and move them along a tube. Now you can with the aptly named DIGI DMX TUBE. 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 DIGI DMX TUBE instantly comes to life with flowing, fading, chasing and ebbing streams of colored light. 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 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. The DIGI DMX TUBE enables direct DMX input for professional programming and control of vibrant color patterns and dynamic visual effects.

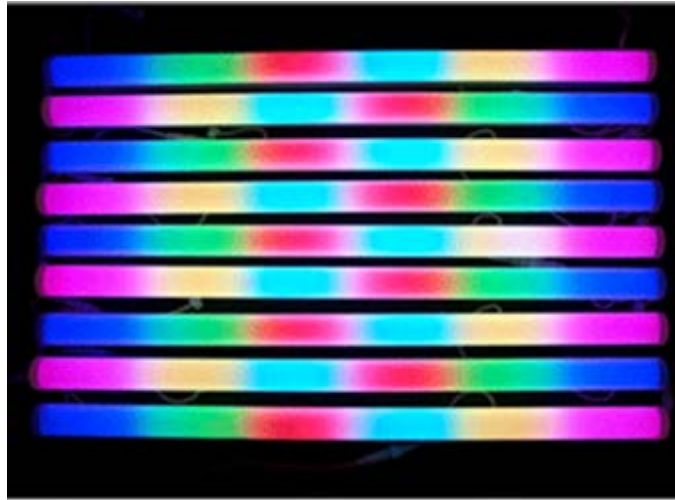
The DIGI DMX TUBE lighting effect is powered by LED technology which offers:

- Ultra-long lamp life
- Minimal maintenance
- Low heat emission, No UV and IR
- Low power consumption
- Easy installation



#### **FEATURES & BENEFITS**

- LED environment-friendly long life light source
- Advanced 3 in 1 SMD RGB color-mixing technology
- Energy efficiency (maximum 13 W per meter)
- Resistance to direct sunlight
- Intelligent control system for lighting effects
- Intelligent auto-protect function
- Durable enclosures made of selected materials
- Virtually no gap when units are butted end to end



### ADVANTAGES OVER PREVIOUS MODELS

DIGI DMX TUBE is a newly developed DMX tube that is based on the popular LED RGB tube. The improved features are as follows:

- Brighter: The brightness of DIGI DMX TUBE with 48 pieces of SMD LED is twice as that of old models with 144 pieces of dip type LED.
- Better Colors: The LED color is obviously enhanced and you can see the obvious difference.
- Longer life: With longer life span LEDs it has shown stronger performance on the destructive life test.
- More User Friendly: You can program the DMX address uniformly after the project installation which brings convenience for the installation.
- More Reliable: Increasing circuit protection function, the product quality is more stable, reliable and durable.
- More Friendly to the Eye: The dimming is more suitable for human vision and the changing effect is more exquisite and no flickers in the Dynamic and Static states.
- More True Colors: Special control design plus SMD LEDs make it easier to adjust the real colors at your will.



### TECHNICAL DATA

Tube Length: Standard: 1 meter (100cm/39.37"). Other lengths available (Large quantities special order only): 0.5m/19.69" (7w, 24 SMD 3in1), 1.5m/59" (20w, 72 SMD 3in1), 2m/78.74" (26w, 96 SMD 3in1), 2.5m/98.43" (33w, 120 SMD 3in1) , 3m/118.11" (40w, 144 SMD 3in1)

Dimensions (most popular): L1000 x W50 x 75mm/ 39.37"x1.97"x2.95"

Weight: 1.5 kgs (3.3 lbs)

Voltage: External Power supply :12v/350w (up to 25 1m tubes per power supply)

Input Power: 12v

Power Consumption: 13W maximum @ 1 meter. Please see below for other lengths.

LED: SMD 3 in 1 LED, 48 pcs/m  
 Life Span: 50,000 hours  
 Controlling mode: dynamic or static  
 Control: DMX512  
 DMX Controller: Universal DMX 512 controller  
 Pixel Configurations: 1, 2, 4, 8, 16 pixels/m, each pixel is 24 bits  
 Color change: RGB color mixing, solid state, no motors!  
 Beam Angle: >120 degrees  
 Side View: 122 degrees  
 End View: 200 degrees  
 Working environmental temperature: -40 C to 80 C (-4 to 140 degrees F)  
 Operating Humidity: 0-95%  
 Housing: Aluminum alloy (anti-UV)  
 Tube composition: clear or milky white optically diffused polycarbonate (PVC)  
 IP Rating: IP 66 <http://www.articulight.com/acc/IPRatings.html>  
 Mounting: Universal in any position: vertical, horizontal and in between.  
 Signal Amplifier: Required for large projects. Please call.  
 Power Supply: External. Please call for the various options available.  
 DMX Encoder: 8900. Works with DMX controller.  
 Models: Please see below.

## MODELS

**2816-10** DIGI DMX TUBE 1 METER LONG (MOST POPULAR) 13W

**2816-05** DIGI DMX TUBE 0.5 METER LONG 7W

**2816-15** DIGI DMX TUBE 1.5 METER LONG LARGE QUANTITY (100 PCS MINIMUM) SPECIAL ORDER ONLY! 20W

**2816-20** DIGI DMX TUBE 2 METER LONG LARGE QUANTITY (100 PCS MINIMUM) SPECIAL ORDER ONLY! 26W

**2816-25** DIGI DMX TUBE 2.5 METER LONG LARGE QUANTITY(100 PCS MINIMUM) SPECIAL ORDER ONLY! 33W

**W2816-30** DIGI DMX TUBE 3 METER LONG LARGE QUANTITY(100 PCS MINIMUM) SPECIAL ORDER ONLY! 40W

## APPLICATIONS

- Clubs • Interactive • Shops • Kiosks • Towers • High Risers • Skyscrapers • Stadiums • Arenas • Hotels • Casinos • Bridges • Monuments • Facades • Buildings • Amusement Rides • Houses of Worship • Retail Exteriors • Piers • Themed attractions • Amusement Parks • Landscape • Museums • Galleries • Exhibits • Events • Concerts • Stages • Fountains • Pools • Ponds • Lakes • Signs • Billboards • Exhibitions • Displays • Trees • Theaters • TV Shows • Sports Facilities • Elevators/Escalators • And much more

## DMX Functionality Chart

Mode	# of DMX Channels	1	2	4	8	16	Channel	Name	Value	Function
1 Pixel	3						1	Red	0~255	0~100% intensity
							2	Green	0~255	0~100% intensity
							3	Blue	0~255	0~100% intensity
							4	Red	0~255	0~100%



						20	Green	0~255	0~100% intensity
						21	Blue	0~255	0~100% intensity
						22	Red	0~255	0~100% intensity
						23	Green	0~255	0~100% intensity
8 Pixels	24					24	Blue	0~255	0~100% intensity
16 Pixels	48					25-48	Red	0~255	0~100% intensity

## 8900 DMX512 Address Encoder



### Functions:

1. Write DMX initial address; 2. Divide each meter into 1, 2, 4, 8 or 16 segments; 3. Test DMX512 tube

Buttons: MODE; SETUP; UP; DOWN

Definition for data cable:

Brown DMX512 digital wire A, Green DMX512 digital wire B, Blue Address encoding wire C, Black GND wire D

Working Voltage: DC 12V

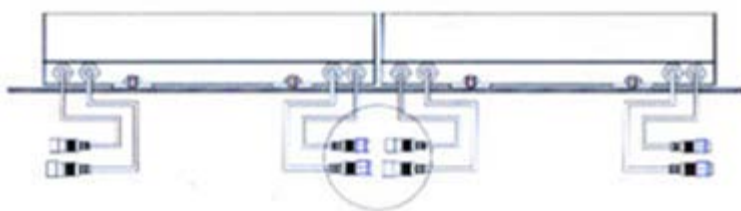
Power Consumption: <2W

Dimensions: L190xW120xH50(mm)/ 7.48"x4.72"x1.97"

Packaged: L280xW150xH70(mm)/ 11"x5.9"x2.75"

Gross Weight: 1 kg (2.2 lbs)

## Connection Diagrams



### CONTROL & ACCESSORIES

**8900** DMX ENCODER ADDRESS WRITER

**PS-12V/350W** 12V 350W POWER SUPPLY

**PS-12V-150W-IP66** 12V 150W WATER-PROOF POWER SUPPLY, IP66

**PEC** POWER EXTENSION CABLE, 2 PIN, 1 METER (CUSTOM SIZES ARE AVAILABLE)

**SEC** SIGNAL EXTENSION CABLE, 4 PIN, 1 METER (CUSTOM SIZES ARE AVAILABLE)

**SR-122** SIGNAL REPEATER, IP 67 (OTHER SIGNAL REPEATER ARE AVAILABLE)

CONTINUOUS IMPROVEMENTS, SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE.

**Articulight, Inc.**

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