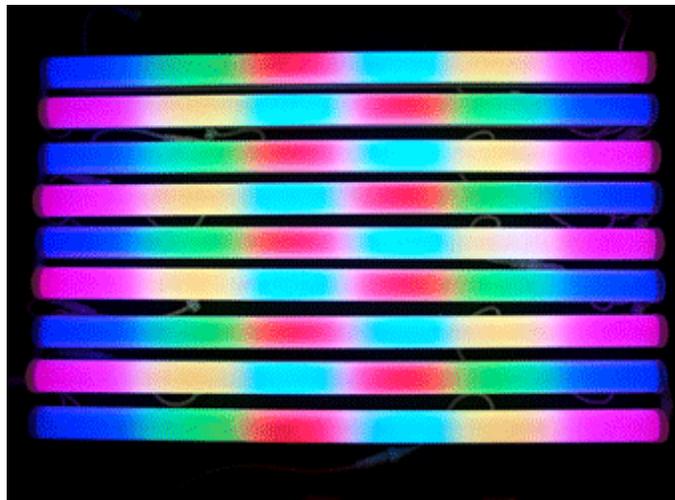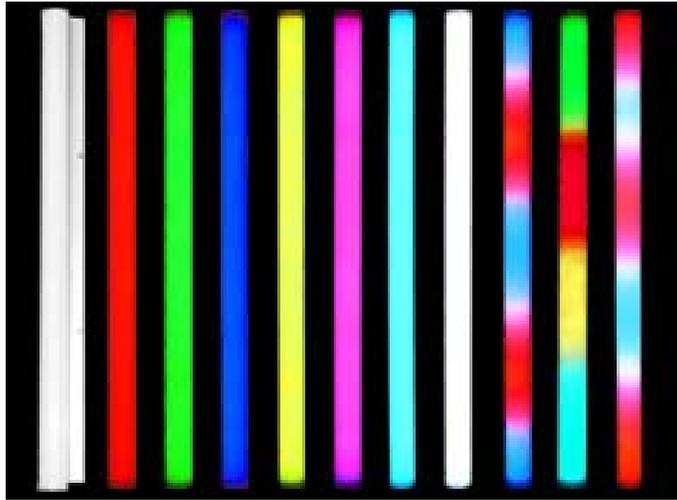# LED SERIES

DYNAMO
Ultra Advanced RGB LED Tube

COLOR * TEXT * GRAPHICS * ANIMATION * VIDEO

Imagine being able to change color, create patterns and move them along a tube. Now you can with the aptly named **DYNAMO**. 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 **DYNAMO** instantly comes to life with flowing, 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.
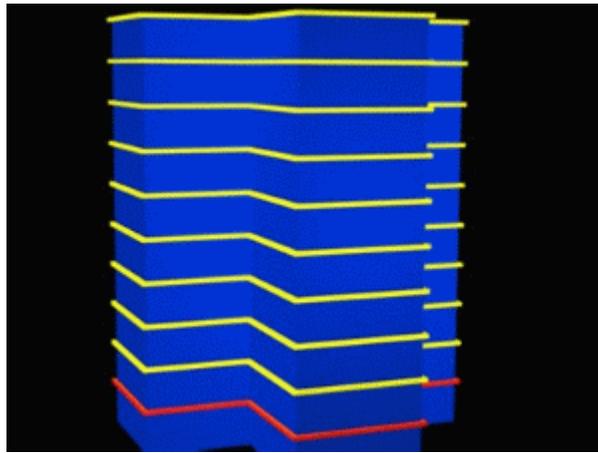
The **DYNAMO** enables direct DMX input for professional programming and control of vibrant color patterns and dynamic visual effects. Through mere change of the internal control module, The **DYNAMO** morphs into **Dynamo Pixel** which puts out video displays via dedicated PC interface. **DYNAMO** contains a row of 48 pixels throughout the length of 1 meter. The **DYNAMO** uses 6 DMX channels to exploit the maximum out of the tube creating unbelievable effects!

The **DYNAMO®** lighting effect is powered by LED technology which offers:
Ultra-long lamp life
Minimal maintenance
Low heat emission, No UV and IR
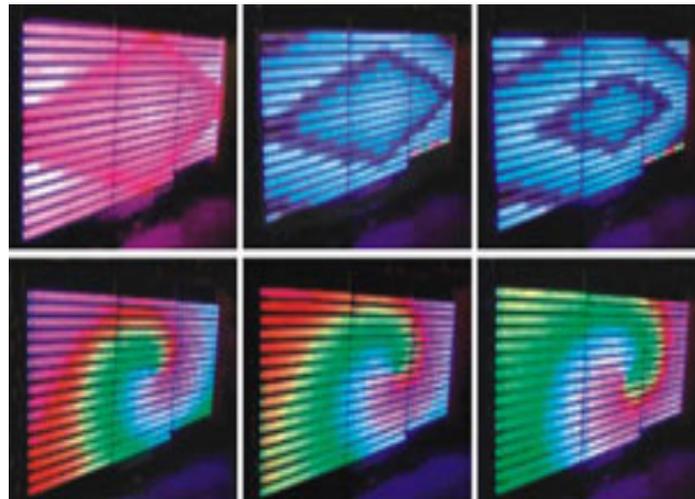**Low power consumption**
Easy installation

ADVERTISING * PROMOTION * ARCHITECTURAL * DISPLAY * ENTERTAINMENT * RETAIL * SIGNAGE
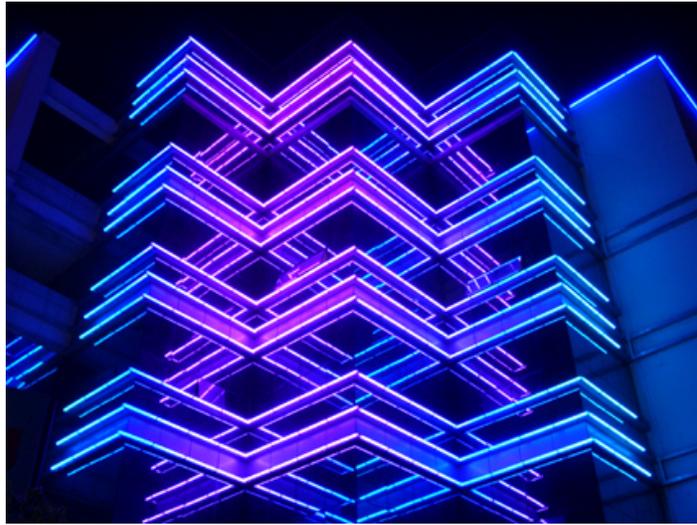
FEATURES

LED environment-friendly long life light source
Advanced RGB color-mixing technology
Energy efficiency (maximum 16.8 W per meter)
Resistance to direct sunlight
Intelligent control system for lighting effects
No additional power or control boxes required with the unique
built-in power + data unit
Intelligent auto-protect function
Durable enclosures made of selected materials
Virtually no gap when units are butted end to end

TECHNICAL DATA

Tube Diameter: 50 mm (5cm)

Tube Length: 1 meter (100cm)

Dimensions: L1000 x W50 x 75mm

Weight: 1.3 kgs

Voltage: AC 80 V - 240 V; Inside power supply :12 v

Current: 20-25 mA

Counter current: 5 uA

Frequency: 50/60 Hz

Power: 16.8 W maximum, 1.4A

Environment temperature: -40 C to 80 C degrees

Number of LEDS: 144 maximum

LED bulbs: RGB color mixing (48 Red, 48 Green, 48 Blue)

Life Span: 100,000 hours

Controlling mode: dynamic or static

Control: DMX512 in DMX mode or dedicated PC for Pixel.

DMX Channels:

DMX Channel 1: Red,

DMX Channel 2: Green,

DMX Channel 3: Blue,

DMX Channel 4: Pixel control pixel grouping and pixel colors (mono,

multicolor and rainbow effect),

DMX Channel 5: Speed and organic flow direction,

DMX Channel 6: Chase mode selection from multiple patterns

Colors: red, yellow, white, purple, orange, green, blue or changeable

Color change: RGB color mixing, solid state, no motors!

Brightness: Red: 700-1300 mcd; blue: 465-474 mcd; green: 1500-3000 mcd

Wavelength: Red: 625-640 nm; Blue: 465-474 nm; Green: 515-524

Beam Angle: >110 degrees

Working environmental temperature: -40 C to 80 C

Housing: Aluminum

Tube composition: clear or milky white optically diffused polycarbonate (PVC)

IP Rating: IP 65 **http://www.articulight.com/acc/IPRatings.html**

CE approved: Yes

Signal Amplifier: already set inside the tube

Power Supply: already set inside the tubes

DUE TO CONTINUOUS IMPROVEMENTS, SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE.