Key Features

- Wide Viewing Angle
- Thin Housing
- Rigid Bar Housing
- Encased Electronics
- Full-color RGB pixels
- Dust- and Waterproof
- 24 Month Warranty
- RoHS Certified and Built to CE, UL, ETL Standards

Many Applications

- Light Shows
- Signage
- Trade Shows
- Retail Interiors
- Concerts and Events
- Decorative Elements
- Architectural Accents
- High Brightness Video Installations

Introducing BATON

The Baton from Vivid RGB Lighting is a solid performer. The 16 RGB LED Pixels stand proud on this rigid bar offering exceptional wide angle viewing. Utilizing a thin lightweight aluminum extrusion combined with a unique mounting clip, large arrays have more open area, reducing wind loads and have an excellent visual look.

Each baton is internally sealed and perfect for permanent outdoor projects. Custom lengths, LED spacing and fixture color options create a truly powerful fixture ready to meet the needs of your next project.

Further Reading

Visit us online for the most up-to-date product information:

www.VividRGBlighting.com
**Standard Configuration** Part Order No. BAT–1–16–2.5”-BBB

Each aluminum encased Baton contains 16 individually controlled LEDs pixels, with waterproofed integrated circuits for power and control. The housings are black with black wire and black connectors.

4-PIN connectors on the input and output cables.

**Build-to-Order Configurations**

Minimum Order Quantity: 10 batons per configuration

Production Lead Time: 8 weeks after receipt of order

Custom options available for:
- Pixel count per bar, specific to your design.
- Cable length and spacing.
- Black or white housings and/or wire colors - other upon request.
- Other options upon request, call for more information.

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**Technical Specifications***

<table>
<thead>
<tr>
<th><strong>OUTPUT</strong></th>
<th><strong>LUMEN MAINTENANCE</strong></th>
<th>50,000+ hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LED CHANNELS</strong></td>
<td>Red, Green, &amp; Blue</td>
<td></td>
</tr>
<tr>
<td><strong>GRAYSCALE</strong></td>
<td>256, 8-bit</td>
<td></td>
</tr>
<tr>
<td><strong>INPUT VOLTAGE</strong></td>
<td>12V DC</td>
<td></td>
</tr>
<tr>
<td><strong>POWER</strong></td>
<td>.25W / pixel, 4W per bar</td>
<td></td>
</tr>
<tr>
<td><strong>INTERFACE</strong></td>
<td>1-Wire IIC</td>
<td></td>
</tr>
<tr>
<td><strong>CONTROL SYSTEM</strong></td>
<td>VPD, Color Mimic, or compatible third-party DMX controller</td>
<td></td>
</tr>
<tr>
<td><strong>TEMPERATURE RANGES</strong></td>
<td>-20ºC – 50ºC / -4ºF – 122ºF</td>
<td></td>
</tr>
<tr>
<td><strong>HUMIDITY</strong></td>
<td>Any</td>
<td></td>
</tr>
<tr>
<td><strong>ENVIRONMENT</strong></td>
<td>Dry &amp; damp, water resistant; IP66</td>
<td></td>
</tr>
</tbody>
</table>

*Due to continuous improvements and design innovations, specifications subject to change without notice.
Typical Wiring Instructions
Input cables connect to controller & power supply and provide a common ground between them. Extension cables extend distances between components. End caps provide a waterproof termination at the end of each string.

BATON Bar Power
Use total watts to determine necessary power supply capacity.

Maximum power draw is 4.00 W per bar at 12 V DC.

<table>
<thead>
<tr>
<th>BARS</th>
<th>AMPS @ 12V</th>
<th>TOTAL WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>.35 A</td>
<td>4.00 W</td>
</tr>
<tr>
<td>2</td>
<td>.70 A</td>
<td>8.00 W</td>
</tr>
<tr>
<td>3</td>
<td>1.00 A</td>
<td>12.00 W</td>
</tr>
<tr>
<td>4</td>
<td>1.35 A</td>
<td>16.00 W</td>
</tr>
<tr>
<td>5</td>
<td>1.70 A</td>
<td>20.00 W</td>
</tr>
<tr>
<td>6</td>
<td>2.00 A</td>
<td>24.00 W</td>
</tr>
<tr>
<td>7</td>
<td>2.35 A</td>
<td>28.00 W</td>
</tr>
<tr>
<td>8</td>
<td>2.70 A</td>
<td>32.00 W</td>
</tr>
<tr>
<td>9</td>
<td>3.00 A</td>
<td>36.00 W</td>
</tr>
<tr>
<td>10</td>
<td>3.35 A</td>
<td>40.00 W</td>
</tr>
<tr>
<td>20</td>
<td>6.70 A</td>
<td>80.00 W</td>
</tr>
</tbody>
</table>

NOTES
Figures in this chart allow for 5% headroom. Typical per-pixel wattage is 0.25 W.

IMPORTANT
Keep the power supply as close as possible to the strings to minimize voltage drop. Excessive voltage drop will cause color shift and/or intermittent operation.

Due to continuous improvements and design innovations, specifications subject to change without notice.
System Accessories & Part Numbers

System Input Cable
Bare ends connect to controller and power, female end connects to strings.
Stock:
4PIN-FC-36”
Custom lengths available.

System Output Cable
Male end connects to end of strings, bare ends provide data and power output from system.
Stock:
4PIN-MC-36”
Custom lengths available.

Extension Cables
Through extension of all pins.
Stock:
4PIN-EXT-60”
4PIN-EXT-120”
4PIN-EXT-300”
That’s 5, 10 & 25 Feet.
Custom lengths available.

NOTE
Numbers refer to labeled pins in connectors.

BATON Rigid RGB Pixel Strip

BATON is a 12-Volt system, compatible with 4-pin accessory cables and products. Please contact customer support with product compatibility concerns.
End Caps
Seals cable end with a watertight termination and returns data stream to beginning of string. Available in simple cap or cable loop for easy hanging.

Stock:
4PIN-EC
4PIN-EL-5"  
Custom loop lengths available.

V-Cables
Allows strings to be used in parallel on the same power and data stream.

Stock:
4PIN-VC-9"
4PIN-VC-18"
4PIN-VC-60"  
Custom lengths available.

A: Output to first string sequence (SEE NOTE)  
B: Output to second string sequence  
C: Power and data input

NOTE
The last string of the A output of the V-Cable must have an end cap (4PIN-EC or 4PIN-EL) installed for data to return to the B output. If the strings attached to A are disconnected, data will not return and be sent to B.

Custom / Build-to-Order
All cables and accessories may be custom designed for your project.

Important Note
Our systems use 3-, 4-, and 6-PIN connectors for different control data and power voltages. Please do not interconnect.
Mid-Feed Power Input
Allows for power to be input between strings on same data stream.

Stock:
- 4PIN-MF-9”
- 4PIN-MF-12”

Custom lengths available.

X: Data input from previous string
Y: Additional power input
Z: Power and data output to next string(s)