Installation Instructions

**Important:** See specification sheet for factory fixture lengths. Fixture comes with integrated lead wires with TPL connectors for secure connection. See wiring options on the following pages. Magic Linear Bar™ is rated for outdoor applications.

**Mounting Instructions:**
**Step 1:** Attach Brackets to the mounting surface with appropriate fasteners (ie: wood screws for wood).

**Step 2:** Loosen the two screws that secure theBracket Lock on each Mounting Bracket.

**Step 3:** Slide the Magic Linear Bar into the fixed channel side of the bracket.

**Step 4:** Rotate the Magic Linear Bar down so it rests on the surface of the bracket and tighten down the Bracket Lock using the Hex Wrench provided.

**CAUTION!** Risk of Damage.
To eliminate heat buildup when mounting multiple units, leave at least .2” gap between fixtures.

**Suggested Wiring Practices:**
- Use cable specifically designed for DMX. These cables have an impedance of 120 ohms and have low capacitance. Example: Belden 9841-9842 or 3105.
- A daisy chain topology should be used.
- The maximum run length of the cable between the fixture and the DMX controller is 250 ft.
- Do not run data signals next to or in the same conduit as high power resources. If it is necessary to be near these resources, cross over them at 90 degrees or keep as much parallel distance between them as possible.
- Run in grounded metal conduit when there may be concern from nearby high power devices and/or situations where the cable structure may be compromised.

**Please verify the contents of the packages!**
**Please read instructions entirely before starting installation**

Be sure power is turned off before installing or modifying the system

Call Tivoli, LLC tech support with questions

**Caution:** Magic Linear Bar is designed to work with listed Class 2 24V DC transformers only. Use of any other power source will cause damage, shorten the life of the fixture and will void the warranty.

Consult any and all applicable local and national codes for installation.

Do not conceal or extend exposed conductors through a building wall as per local electrical code.

Warning: With any luminaire for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This fixture should be installed by a certified professional.
Wiring Instructions

**Step 1:** With power off, connect all jumpers, as shown. Then, feed power cable to junction box and connect to lead wire from power supply. See Wiring Diagrams on following pages.

**Step 2:** Use crimp connectors or wire nuts to make connections in junction box for feed point to power supply.

**Step 3:** Turn on power and verify fixture is operating properly.

<table>
<thead>
<tr>
<th>LIGHT SOURCE</th>
<th>WATTS PER FOOT</th>
<th>MAX CONTINUOUS RUN LENGTH*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magic Linear Bar</td>
<td>3.0W</td>
<td>32 ft</td>
</tr>
</tbody>
</table>

*Max continuous run based on 3.0A max load
MADRIX (Live)
This is a live control performance setup. Widely used for concerts or performance-based manipulation. Use of a live network is necessary for communication between MADRIX software and fixture.
Wiring Diagram for Offline Operation

**ARNET-S (Stand Alone)**
Programmed via MADRIX software and recorded directly to an ARNET-S interface for media applications and performance. This is a stand-alone feature with no need for network support by software (MADRIX) once recorded to the interface (ARNET-S).
Please refer to ARNET-S-8-512 User Manual for additional information.
TivoCUE (Preset)
Programmed via CUE software and recorded to a MicroSD card for data transfer into TivoCUE control. This is a stand-alone feature with no need for network support by software (CUE) once recorded and transferred to in-wall DMX control hardware. Please refer to TivoCue 10 User Manual for additional information.
Note: RGBW Shown

1 Foot Magic Linear Bar = 3 Pixels  for RGBW (Total Channels: 12)

2 Foot Magic Linear Bar = 6 Pixels  for RGBW (Total Channels: 24)

3 Foot Magic Linear Bar = 9 Pixels  for RGBW (Total Channels: 36)

4 Foot Magic Linear Bar = 12 Pixels  for RGBW (Total Channels: 48)
Power Supply Wiring Diagram

There are many possible options for powering the Magic Linear Bar. See the specification Sheet for more information. The following wiring diagram is for reference only. Please refer to the Installation Instruction for the Power Supply you choose for detailed wiring instructions.

To install Power Feed Cable:
Step 1: Connect the Red Wire (+) from the Power Feed Cable (MLB-PWR-2P) to the Red Output Wire from the Power Supply using outdoor rated Wire Nuts.

Step 2: Connect Black Wire (-) from the Power Feed Cable to the Black Output Wire from the Power Supply using outdoor rated Wire Nuts.

Warnings

Do not cover any luminaire as the covering may cause it to overheat.
Do not install this lighting system where the exposed bare contacts can be shorted or contact any conductive material to reduce the risk of fire and burns.
Do not install any luminaire closer than 6" (15.25cm) from any curtain, or similar combustible material.
Do not use any luminaire if damaged; such as, broken globe, loose connections, or frayed wire insulation. Inspect periodically.
Do not submerge any luminaire in liquid. Use waterproof connectors for all outdoor applications.
Do not secure any luminaire with staples, nails or like means that might damage the wire insulation. Secure it by using screws through the base.
Do not run any luminaire at an operating temperature exceeding 65°C or 149°F.

Tivoli Technical Support

DMX projects can be difficult to setup and program when dealing with software and fixtures once you are on site. Tivoli offers technical support from initial contact up to installation and setup if needed. Please contact your local sales rep for pricing and provide details of desired technical support level for your project.