



ATG Electronics® iLinear™ R60T RGB LED Ribbon Strip

USER GUIDE

Part Number HFS-R180T-300600-L1



NOTE:

This user guide is to explain the steps necessary to use the specified and assure peak performance. Its intended use is for reference only, by a fully qualified electrician or technician. This document should never be considered a substitute for any provision of a regulation or state and/or local code.

Please read this entire manual to fully understand and safely use this product.

Specifications are subject to change without notice. Please visit www.atgelectronics.com for most recent user guide versions.

GETTING STARTED

ATG Electronics® iLinear™ R60T RGB LED Ribbon Strip is flexible, slim, high brightness LED light strip, ideal for interior decoration lighting.

Small size and colorful light output make iLinear™ R60T RGB LED Ribbon Strip applicable for a wide range of projects, such as cove lighting, back lighting, channel letter lighting and other narrow area lighting.

This guide contains important information about installing and operating your new iLinear™ R60T safely and accurately.

Included in this Box

iLinear™ R60T RGB LED Ribbon Strip

User Guide, 1 set

Additional Items Needed

Power Supply: QDriver™ 1260 LED Power Supply

Control Systems: DynColor™ 300-FS RGB DMX Controller

or QColor™ 310-FS RGB Mini Controller

or QColor™ 310-PE Signal Amplifier

Unpacking

- 1) Unpack and carefully examine the product.
- 2) Report any damage and save all packing materials if any part is damaged during transport.
- 3) Do not attempt to use this apparatus if it is damaged.

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Color your life!

Warnings

- 1) Risk of electric shock. Ensure that the power supply is off when wiring or soldering the sections of the strip.
- 2) The device shall be installed and operated by a qualified electrician or technician in accordance relevant local codes.

Cautions

- 1) Suggested continuous working time is around 8 hours, never more than 12 hours.
- 2) Do not use sharp tools near or on the surface of the device.

User Responsibilities

The responsibility of complying with all state and local laws, ordinances, and regulations in regards to the installation, maintenance, and operation of the device lies with the buyer and handler of the device. These parties may include, but are not limited to the contractor, installer, purchaser, owner, and user of the product.

Note:

The instructions and precautions set forth in this user guide are not necessarily all-inclusive, all conceivable, or relevant to all applications as ATG Electronics cannot anticipate all conceivable or unique situations.

PLANNING THE INSTALLATION

This device installation requires planning to ensure timely, successful installation with minimal complications and down time.

Planning Suggestions

Consult an Electrical Inspector to review all wiring plans.

Create a Layout Plan drawing, per a Lighting Designer's or Architect's recommendation.

Consult ATG Electronics Application Engineering Services as needed.

Installation Considerations

When creating your installation plan, consider the following:

- 1) Location of the device

iLinear™ R60T is proposed to position at least 2.5cm (1") away from the illuminated surface to allow for proper light mixing.

- 2) Working Condition

iLinear™ R60T is non-waterproof which is suitable for indoor applications.

- 3) Minimum working unit

The minimum working unit is 3LEDs. So cut at every 3LEDs at cutting marks.

- 4) Maximal series-wound quantity

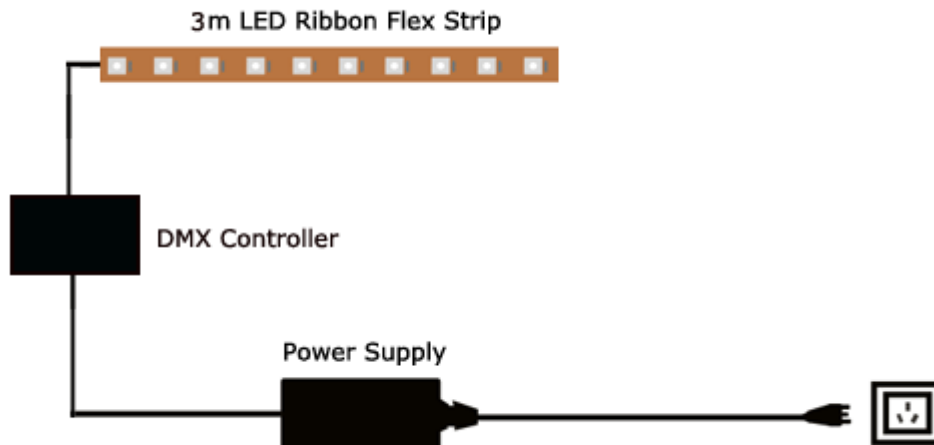
3m (9.84ft).

Installation Steps

- 1) Remove the 3M tape from the back of iLinear™ R60T.
- 2) Place and fix iLinear™ R60T to the defined area according to project layout.
- 3) Cut at cutting marks or connect strips together to adjustable length. (You may need soldering tools to accomplish your work.)
- 4) Connect the controller to iLinear™ R60T. Make sure the common wires and data wires (red, green and blue wires) are connected properly.
- 5) Connect the power supply to the controller.
- 6) Plug power supply into power outlet to light the whole system.

* If you need more than 9.8 feet or 3 meter iLinear™ R60T at synchronous color changing effect, signal amplifier(s) will be needed. Please refer to the below wiring diagram for details or consult your sales representative.

Wiring Diagram



ATG Electronics® iLinear™ R60T RGB LED Ribbon Strip Specifications

Operation Voltage: 12 VDC

Color: RGB

LED Qty: 60 LEDs/m

Lumens(one roll): 1024 lm

Power Consumption: 40 W

Beam Angle: 120°

Dimension (one roll): L3000*W11*H2 mm (L118*W0.43*0.08 inch)

Work environment: Indoor use, applicable for dry environment

* Detailed specifications please refer to the product catalog of iLinear™ R60T RGB LED Ribbon Strip.

LED SOURCE LIFE

Traditionally, the definition of life for light sources is defined at the point which 50% of the lamps fail under specified conditions. However, all necessary components in a LED lighting system will determine useful life time. According to the industry standard, ATG Electronics uses the concept of useful light output and rates product life time at standard of "less than 50% lumen maintenance of original light output".

LED exhibits very long operational life time, typically 50,000 hours or more. However, like all light source, LED light output can degrades and also undergo gradual shifts in color over time.

LED chips, performed lighting effects and working environmental conditions, such as temperature, humidity, and ventilation will affect LED lumen maintenance. The overall LED Lighting System life time could vary substantially based on usage and environmental condition.

ATG Electronics always adopts brand chips and high quality materials and components to make LED Lighting Systems.

QUALITY WARRANTY

This product is sold pursuant to ATG Electronics Standard Terms and Conditions which can be found at www.atgelectronics.com/warranty and which contain important provisions, including, among others, the Quality Warranty, exclusions and limitations on ATG Electronics liability for damages, and restrictions on available remedial actions.

For any after-sales assistance, please contact our Customer Service Team at service@atgelectronics.com. All your concerns and requests will be handled within 12 hours.

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