

# ATG Electronics® iSignage™ B24 LED Flex Strip



ATG ELECTRONICS

## USER GUIDE

**Part Number** HFS-B024R-036400-L1  
HFS-B024Y-036400-L1  
HFS-B024B-036400-L1  
HFS-B024G-036400-L1  
HFS-B024N-036400-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](http://www.atgelectronics.com) for most recent user guide versions.

### GETTING STARTED

ATG Electronics® iSignage™ B24 LED Flex Strip is a slim and ultra flexible device designed especially for signage lighting, motorcycle decoration and cove lighting.

iSignage™ B24 adopts high intensity LEDs to operate at 12VDC (safe to humans). It can be joined together via 2-pin power cable, and cut at every 3LEDs; iSignage™ B24 can also be dimmed with specified dimmer (QColor™ Remote Dimmer).

iSignage™ B24 can be easily installed onto any surface with 3M tape on the back, the slim and ultra flexible profile makes it easy to fit different space. Rainproof treatment is available when it is used for motorcycle decoration.

Power Supplies are available in normal and waterproof versions for indoor and outdoor applications. One meter (3.3 feet) 2-pin power cable can be provided for cases there is big space between power supply and channel letters.

iSignage™ B24 has been successfully installed to light up thousands of channel letters and motorcycles worldwide; besides it can also be used for cove lighting.

This guide contains important information about installing and operating your new iSignage™ B24 LED Flex Strip safely and accurately.

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Light your world  
Color your life!

**Included in this Box**

iSignage™ B24 LED Flex Strip, 20 PCs  
User Guide, 1 Set  
Power Connector(s)

**Additional Items Needed**

Power Supply: 12 VDC QDriver™/XDriver™ LED Power Supply  
Dimming System: QColor™ Remote Dimmer (HCD-00001-000000-RD)

**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.

**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 and power supply must be installed by a qualified electrician or technician in accordance with relevant local codes.

**Cautions**

- 1) Suggested continuous working time is around 8 hours, never more than 12 hours.
- 2) Do not use the device in close environment.
- 3) 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**

The 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 Application Engineering Services as needed.

### Installation Considerations

When creating your installation plan, consider the following:

1) Location of the device

iSignage™ B24 is non-waterproof which is suitable for dry environment.

2) Minimum bending diameter

NEVER less than 5 cm (1.97 inch).

3) Minimum cutting unit

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

4) Maximum series-wound quantity

25 pcs.

### Installation Steps

1) Remove the 3M tape from the back of iSignage™ B24;

2) Place and fix iSignage™ B24 to the defined area according to project layout;

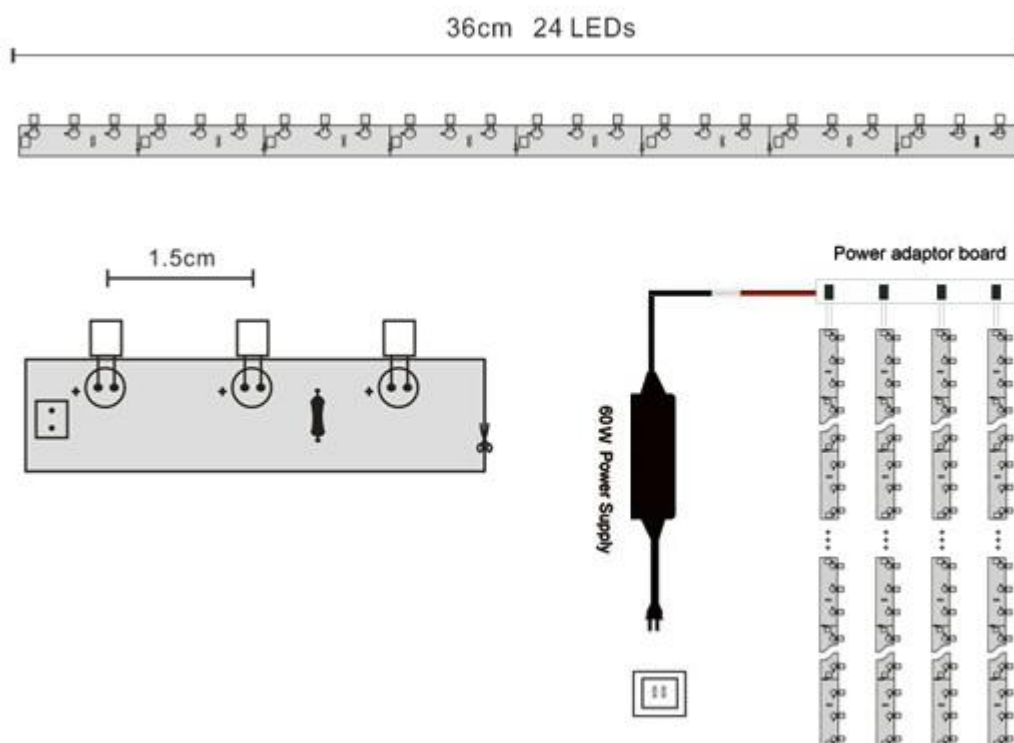
3) Connect iSignage™ B24 together with power cables;

4) Connect iSignage™ B24 to the power adaptor board with power connector;

5) Connect the power supply with power adaptor board;

6) Plug power supply into power outlet to light the whole system.

### Wiring Diagram



### ATG Electronics® iSignage™ B24 LED Flex Strip Specifications

Operation Voltage: 12 VDC

Color: red, yellow, blue, green, white

LED Qty: 24 LEDs

Lumens: 21.12 lm (red), 20.64 lm (yellow), 24.96 lm (blue), 88.8 lm (green), 84 lm (white)

Power Consumption: 1.8 W

Beam Angle: 80 degree

Dimension: L360\*W12\*H0.8 mm (L14\*W0.47\*H0.03 inch)

Work environment: applicable for dry environment

\* Detailed specifications please refer to the product catalog of iSignage™ B24 LED Flex 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](http://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](mailto:service@atgelectronics.com). All your concerns and requests will be handled within 12 hours.

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