



LED CAMPING LIGHT STRIP KIT

CONFIGURATION GUIDE

PREFACE

This brochure is designed **to help vehicle tenting/camping outfitters select and configure their lighting setups**. The reader is expected to have a fairly good understanding of their camping setup's physical layout, electrical capabilities and feature desires.

For us at GNSOURCE, each finished package of lighting gear is the result of very careful planning, intricate cost calculation and high synergy between our teams and the camping outfitters.

We at GNSOURCE hope this document will help to reduce the unnecessary hassles in choosing the right parts, the right layout and the right service.

Our lights are not just our industrial products. They are part of YOUR enterprising journey.

If you have more custom lighting ideas that you wish we could implement in new designs, please contact us for details.

LIGHT STRIPS – BASIC TYPES



Size comparison of Aluminum light strips
L: Classic M: Classic + Mount Rails R: Premium



Visual comparison of Flexible light strips
L: Classic R: Quick Fit

Light strip type	Recommended use case	Standard light strip size	Standard LED layout
Aluminum Classic	DIY/temporary/permanent installations	L: 500mm W: 16.5mm H: 9mm	SMD5050 (12V models) • 1 color x 30 LEDs • 2 colors x 15 LEDs • 2 colors x 30 LEDs Or SMD2835 (5V models)
Aluminum Classic + Mount Rails	DIY/temporary installations	L: 500mm W: 16.5mm H: 14.5mm	SMD5050 • 1 color x 30 LEDs • 2 colors x 15 LEDs • 2 colors x 30 LEDs
Aluminum Premium	DIY/temporary/permanent installations	L: 500mm W: 18mm H: 15mm	SMD2835 2 colors x 60 LEDs
Flexible Classic	Permanent installations	L: 1.2m W: 14mm H: 5.5mm	SMD5050 • 1 color x 72 LEDs • 2 colors x 36 LEDs
Flexible Quick Fit	DIY/temporary installations	L: 1.2m W: 55mm H: ~6mm	SMD5050 • 2 colors x 36 LEDs

***Custom light strip lengths can be negotiated.**

ALUMINUM CLASSIC LIGHT STRIPS



- **Economy and simplicity** taken to the extreme.
- Classic aluminum housing with **unbroken 360-degree protection** against all hazards.
- Unmatched brightness for wide area illumination.

Recommended use: Permanent installation on flat surfaces – awnings, metal canopies, etc. Temporary installation supported with select mounting options.

Recommended quantity: 2 to 6 per power supply



LED Layouts: 2 layouts for the SMD5050 LEDs are available – **30 LEDs or 60 LEDs on 0.5m length.**

The higher LED density option is brighter and consumes more power.

Mounting Options:



3M Adhesive Pad



Built-In Magnets
(Hidden)



H-Shape
Pole clips



End Cap
Screw Mounts

SHOWCASE: ALUMINUM CLASSIC



Cross Section Size	Standard Length	Material	Waterproof Rating	LED Layout	LED Colors
W: 16.5mm H: 9mm	500mm	Housing: cast aluminum Filling: silicone resin	IP67	SMD5050 (12V models) • 1 color x 30 LEDs • 2 colors x 15 LEDs • 2 colors x 30 LEDs Or SMD2835 (5V models)	• White • White + Amber • White + Red • More...

ALUMINUM CLASSIC + MOUNT RAILS

- **Evolved** from the classic aluminum design.
- **Added mount rails** for easy installation and removal.
- ZERO compromise on **brightness and trade-tested build quality.**

Recommended use: DIY/temporary installation on tent poles, flat steel surfaces – fabric canopies/gazebos, retractable awnings, rooftop tents, etc.

Recommended quantity: 2 to 6 per power supply



LED Layouts: 2 layouts for the SMD5050 LEDs are available – **30 LEDs or 60 LEDs on 0.5m length.**

The higher LED density option is brighter and consumes more power.

Mounting Options:



Velcro Strap Mounts
+ Built-in Magnets (exposed)



End Cap
Screw Mounts

SHOWCASE: ALUMINUM CLASSIC + MOUNT RAILS



Cross section size	Standard Length	Material	Waterproof Rating	LED Layout	LED colors
W: 16.5mm H: 14.5mm	500mm	Housing: cast aluminum Filling: silicone resin	IP67	SMD5050 (12V models) • 1 color x 30 LEDs • 2 colors x 15 LEDs • 2 colors x 30 LEDs	• White • White + Amber • White + Red • More...

ALUMINUM PREMIUM LIGHT STRIPS



- Modern design with a **high-class fit and finish** in mind.
- **Special mount rails** for many installation options.
- **Diffused milky lens and compact LED arrangement provide easier direct viewing** while preserving brightness.
- Great protection against splashes and dusts

Recommended use: DIY/temporary/permanent installation on tent poles, flat steel surfaces – fabric canopies/gazebos, retractable awnings, rooftop tents, etc.

Mounting Options:



Velcro strap
mount



U-shape
pole clip



Built-in magnets
(exposed)



End cap
screw mounts



3M Adhesive
Pad

SHOWCASE: ALUMINUM PREMIUM



Cross section size	Standard Length	Material	Waterproof Rating	LED Layout	LED colors
W: 18mm H: 15mm	500mm	Housing: cast aluminum Filling: silicone resin Lens: Polycarbonate	IP65	SMD2835 • 2 colors x 60 LEDs	• White • White + Amber • White + Red • More...

FLEXIBLE LIGHT STRIPS



Flexible Classic

- **Elastic structure** allow more creative setups in compact spaces without wearing out the circuits.
- Silicone sleeve provides 360-degree protection against water and sand damage.
- Unmatched brightness for wide area illumination.
- **Flexible Classic:** 3M adhesive surface ensures its conformity to walls, corners and other structures.
- **Flexible Quick Fit:** Built-in carabiners and Velcro straps allow easy setup and removal.

Recommended use:

- **Flexible Classic:** Permanent installation
- **Flexible Quick Fit:** DIY/Temporary installation

Recommended quantity: 1 to 4 units per power supply

Mounting Options:

Flexible Classic:



3M Adhesive Pad

Flexible Quick Fit:



Carabiners



Velcro Straps



Flexible Quick Fit

SHOWCASE: FLEXIBLE LIGHT STRIPS



Type	Cross section size	Material	Waterproof Rating	LED Layout	LED colors
Flexible Classic	L: 1.2m W: 14mm H: 5.5mm	Filling: silicone resin	IP68	SMD5050 • 1 color x 72 LEDs • 2 colors x 36 LEDs	• White • White + Amber • White + Red • More...
Flexible Quick Fit	L: 1.2m W: 55mm H: ~6mm	Jacket: fabric canvas + plastic membrane Filling: silicone resin			

SWITCHES



Dimmer Dial



Button Dimmer Switch



RF Remote Dimmer Switch
+ Receiver

Part type	Description	Mounting options
Toggle Switch	Simple 2-throw or 3-throw switch.	
Dimmer Dial	Rotary dial for tuning brightness. Built-in button for changing light color mode (optional) – 2 single color modes only. Includes status indicator.	• Special pole clips • 3M adhesive strip
Button Dimmer Switch	Membrane protected buttons for brightness tuning and color switching. Supports 2-color mix mode.	• U-shape pole clips • Velcro strap mounts • 3M adhesive strip • Screw-mount harness
RF Remote Dimmer Switch + Receiver	Remote features the same button layout as the Button Dimmer Switch. 2.4GHz RF receiver is in the interconnect.	U-shape pole clips • Velcro strap mounts • 3M adhesive strip
More...?	Other options, such as Bluetooth control box, touch sensor switches, etc. can be negotiated.	



Mounting options available, using the same mounting hardware the light strips use.

POWER ADAPTERS, EXTENSION & SPLITTERS



Wall adapters



Cigarette Plug



Tiger Clips + Cigarette Plug Socket



USB-A Adapter



Extension Cable DC5521



3-Way Wire Splitter

Part Type	Description	Recommended Use Case
Wall Adapters	Universal AC power → 12V DC Connection: Standard wall plug - DC5521 barrel jack	Use with mobile generators
Cigarette Plug	12V DC Length options: 1.2m, 3.5m, 5m, and more Connection: Cigarette plug – custom (DC5521 standard)	Use with cars/4WD vehicles as power source
Tiger Clips + Cigarette Plug Socket	12V DC	Use with more flexible mobile power sources, in combination with the Cigarette Plug
USB-A or Type-C Adapter	5V DC → 12V DC or 5V DC → 5V DC Connection: USB-A or Type-C – custom (DC5521 standard)	Use with power banks or modern electric vehicles
Extension Cable	Passive cable. Length options: 1.5m, 3.5m, 5m, and more Connection options: DC5521, 2-pin, 3-pin, and more...	Complex wire routing
Wire Splitter	Replicates one cable's voltage over multiple cables. Output quantity options: 2x, 3x, 4x Connection options: DC5521, 2-pin, 3-pin, and more...	Avoiding multiple end-to-end connections between light strips, centralized wiring layout, etc.
More...	Contact for details	

Connection Pin-outs

Standard options listed;
Other options welcome.

2-wire:
Power/single color output



DC5521
"Barrel jack"



2-pin

3-wire:
Dual color output



3-pin

PACKAGING & COSMETICS

- **Packaging:**
 - Standard packaging: White cardboard boxes
 - **Custom packaging:** Custom printed cardboard boxes, fabric carry bags, etc.
- **Logo printing:** Silkscreened logo on PCB, laser printed logo on metal housing, etc.
- **Wiring:** Various wire lengths and connection options available
- **Custom sizes, LED arrangements and housing designs:** Contact for more details



White boxes

Recommended for permanent setups



Carry bags

Recommended for DIY setups

WARNING

- 1. The lights must be used only for the prescribed purpose.** To use the lights properly, please closely observe the instructions found in the manual. Any uses outside those mentioned in the manual will be considered misuse. **The manufacturer shall not be liable for any damage or injuries resulting from misuse.**
- 2. Keep children away from electrical equipment.** Make sure the children are under supervision when operating the lights.
- 3. Do not use any power supply that outputs any voltage outside of the lights' nominal voltage range.** Over-voltage can cause irreversible circuitry damage and even fires.
- 4. Do not use the lights in the temperature outside of the operational range.**
- 5. Do not clean your lights with harsh detergents.** The light is water-proof but not guaranteed to be protected against other chemicals.



Your LED lighting partner.

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MADE IN CHINA