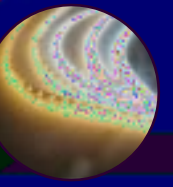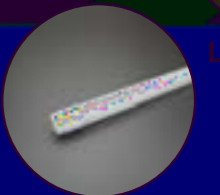# LED

CATALOGUE FOR U.S.A.

LED STRIPS

LED TUBE

LED PANEL

FOSHAN NATIONSTAR OPTOELECTRONICS CO.,LTD

Headquarter:
Add: No.18 South Huabao Road, Chancheng District, Foshan City, Guangdong Province, China
Tel: +86 757 82100238 ext 8401
Fax: +86 757 82100235
Website: www.nationstarled.com
E-mail: ledsales@nationstar.com, Kaitlyn@nationstar.com

USA office:
16755 Von Karman Avenue, Suite 200 PMB#212, Irvine, CA 92606

NATIONSTAR, LIGHTING UP THE WORLD

01 BRIEF INTRODUCTION

Foshan NationStar Optoelectronics Co.,Ltd has been specializing in LED industry for over 40 years, and started LED lighting manufacturing since 2004. With a strong R&D ability, reliable product quality and excellent after-sales service, NationStar becomes a leading manufacturer for chips, LEDs and LED lighting products.

Headquarters, Northern Area
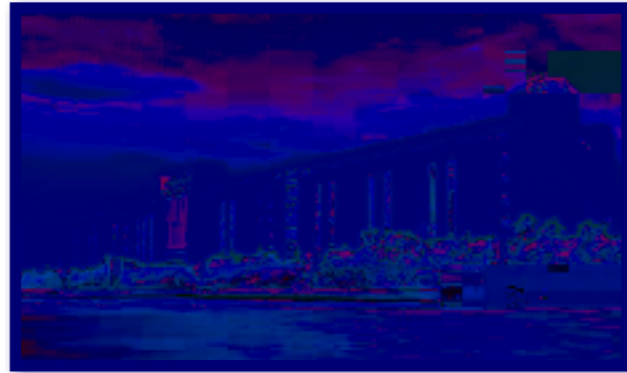
LED Module Division

Land Area: 280,000 sq ft

Floor Area: 500,000 sq ft

Headquarters, Southern Area

LED Lighting Division
White LED Division
RGB LED Division

Land Area: 380,000 sq ft

Floor Area: 1,000,000 sq ft

NationStar Semiconductor

LED wafer & LED chip production facilities
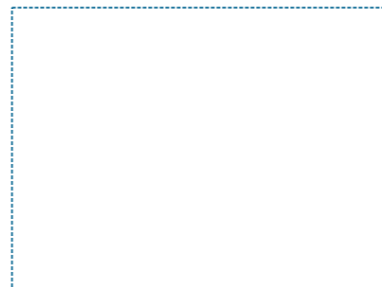
Land Area: 350,000 sq ft

Floor Area: 600,000 sq ft
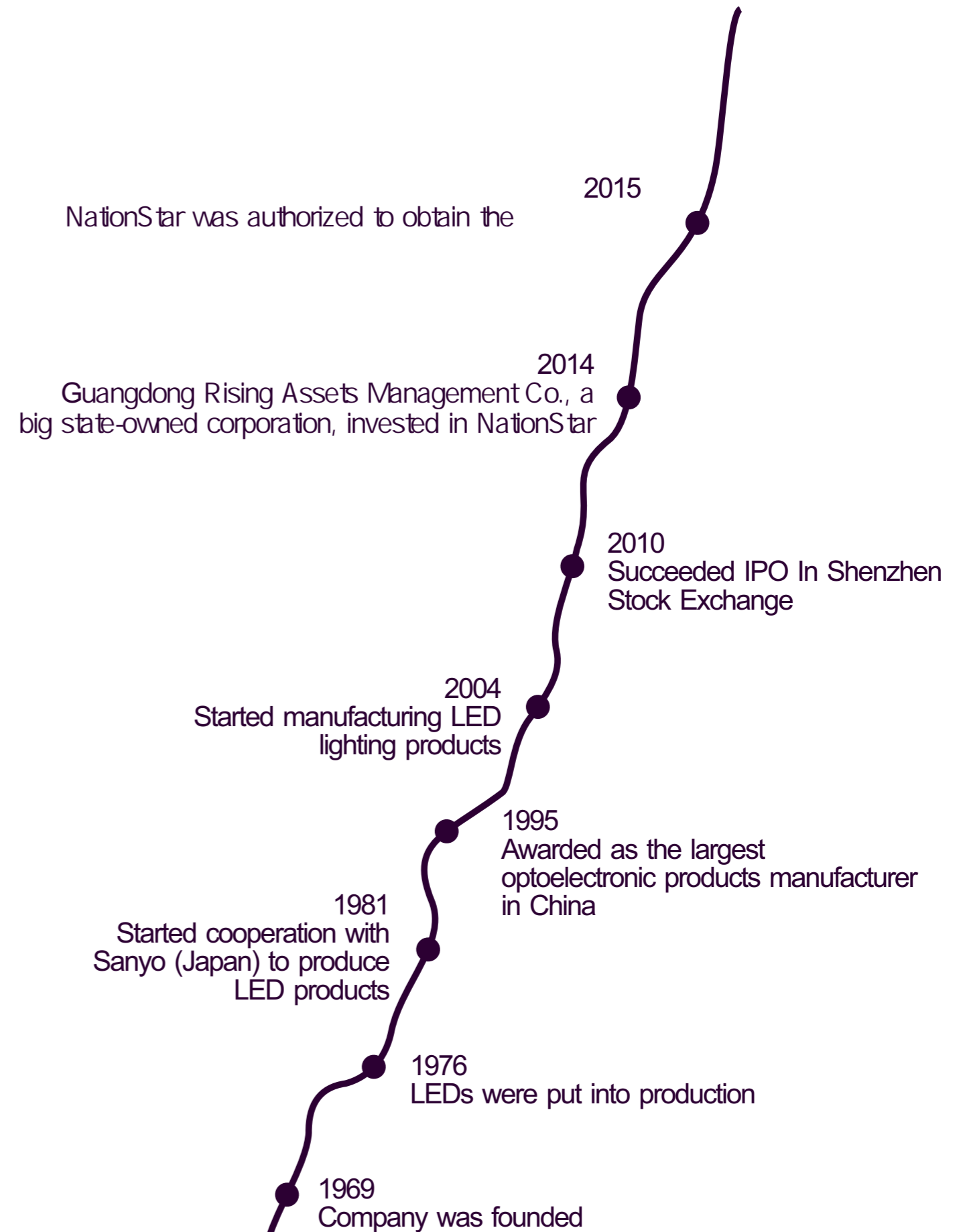
02 INDUSTRIAL CHAIN

Chip

LED

Lighting product

03 HISTORY

2015
NationStar was authorized to obtain the

2014
Guangdong Rising Assets Management Co., a big state-owned corporation, invested in NationStar

2010
Succeeded IPO In Shenzhen Stock Exchange

2004
Started manufacturing LED lighting products

1995
Awarded as the largest optoelectronic products manufacturer in China

1981
Started cooperation with Sanyo (Japan) to produce LED products

1976
LEDs were put into production

1969
Company was founded

04 PRODUCTION FACILITIES

NationStar Semiconductor

LED Encapsulation

SMT Production Line

Production Line for LED Panel

Production Line for LED Tape Light

Testing Lab

05 MANAGEMENT SYSTEMS

OHSAS18001
occupation
health and safety
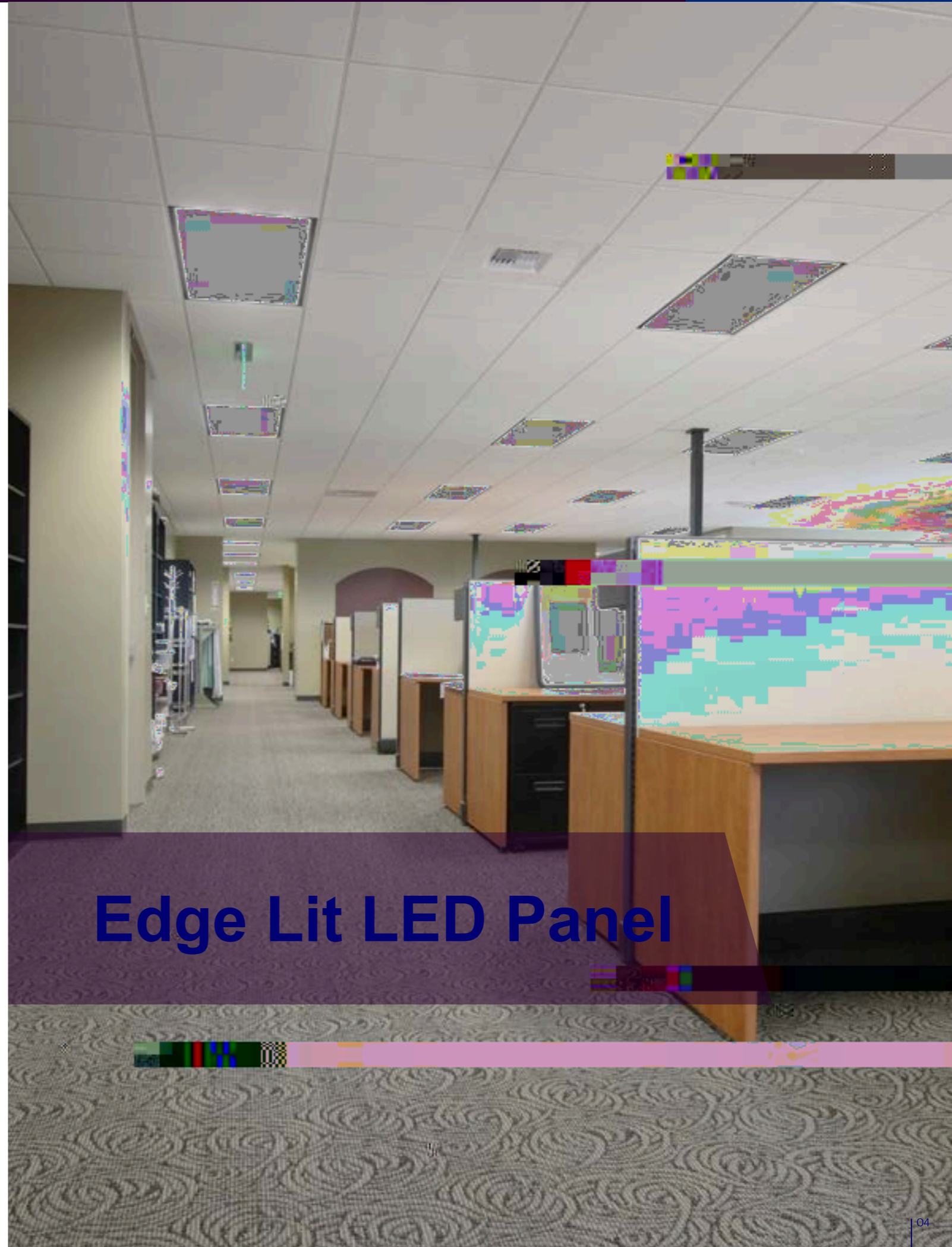management system

ISO9001
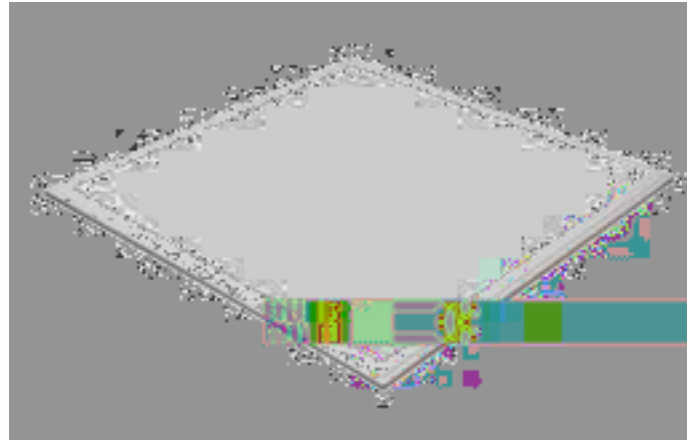quality management
system

ISO14001
environmental
management system

ISO-TS16949
quality management
system

ISO/IEC 17025:2005
General
Requirements

Edge Lit LED Panel

Multi-wattage
Edge Lit LED Panel

AC100-277V | 120° | 0-10V | IP20 | No flicker

c UL us LISTED | DLC | FC | 5 YEAR WARRANTY | RoHS COMPLIANT

FEATURES

- Different lumen output integrated in the same panel to reduce stock quantity.

- The driver is inserted into the back of the panel and can be dismountable to save the shipping volume and cost.

FEATURES

- Option for efficacy: 100lm/W and 125lm/W.

- Ideal energy-efficiency replacements for fluorescent fixtures in offices, schools, hospitality, health care and other commercial and industrial applications.
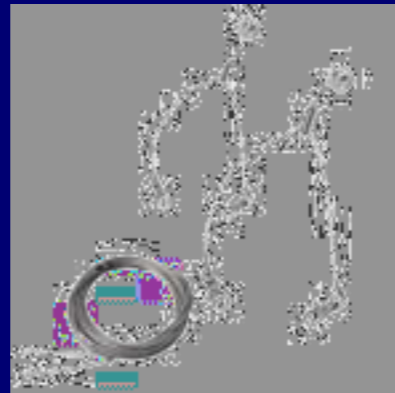
PERFORMANCE

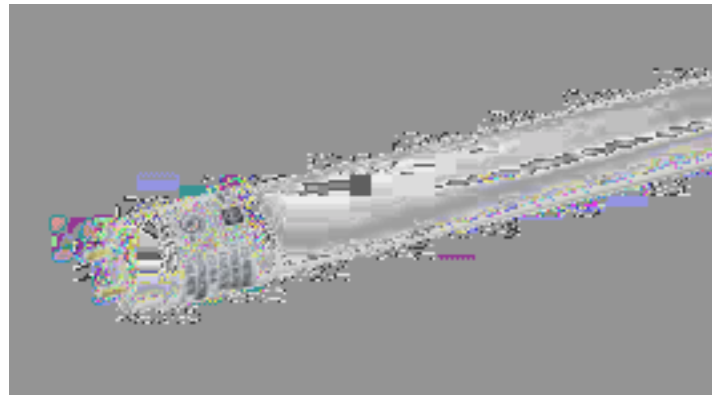| Model No.	Size(inch)	Input Voltage Range(V)	Input Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor

	Size(mm)	Voltage Range(V)	Wattage (W)		E...ency	Color Rendering	Temperature	Power
NS-PLS-6060					>80		3000/3500/4000/5000	
-PLS			4800	120			3000/3500/4000/6000	
			5640	120				

(1x4)

4600 115 >80
5405 115
110 >80

SUSPENDING KIT:

Surface mounted frame

Pendant mounted wire rope

Emergency backup

LED T8

UL/DLC By Pass LED T8 (Type B)

G13 Caps | AC100-277V | 270° | IP20

FEATURES

- Built-in universal voltage driver, by pass installation.

- Exceptional lighting efficiency up to 130lm/W, perfect replacement of the traditional fluorescent tube.

- Wide beam design 270 degree wide viewing.

- End-to-end lighting with no dark spots.

INSTALLATION INSTRUCTION
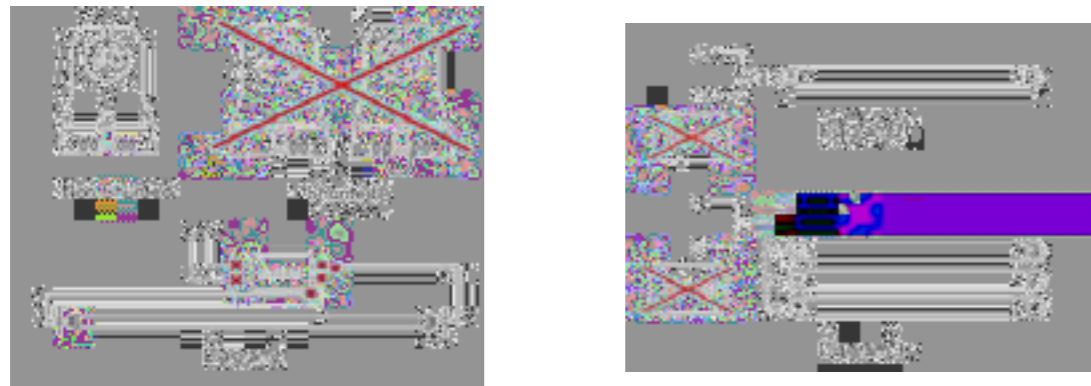
PERFORMANCE

Model No.	Length(ft)	Input Voltage Range(V)	Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor	DLC
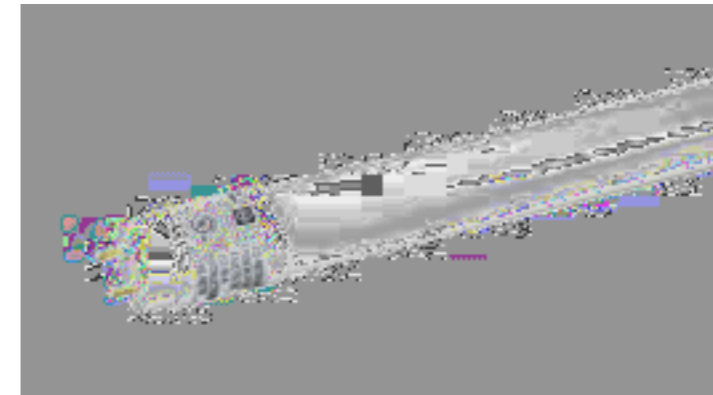
UL/DLC Direct Fit LED T8 (Type A)
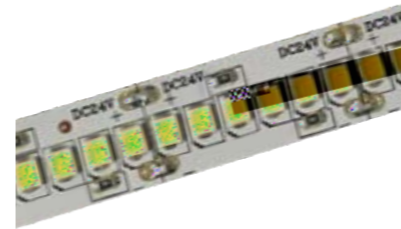
G13 Caps | AC100-277V | 270° | IP20

FEATURES

- Compatible with more than 200 kinds of normal electronic instant start ballasts, no rewiring.

- Exceptional lighting efficiency up to 150lm/W, perfect replacement of the traditional fluorescent tube.

- Wide beam design 270 degree wide viewing.
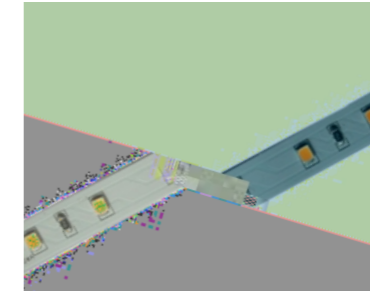
- End-to-end lighting with no dark spots . Model No

LED Strip

LED STRIP

NEW DESIGN STRIP

High efficacy 160lm/W LED Flex Strips

Efficacy is as high as 160lm/W
PCB width 0.39inch, DC24V
64LED/meter, 1.8W/ft, 290lm/ft,
16.4ft/roll, 32ft max. running length
128LED/meter, 3.5W/ft, 560lm/ft,
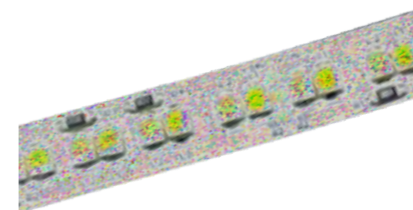16.4ft/roll, 32ft max. running length

CRI 95 LED Flex Strips

CRI is as high as 95
PCB width 0.31/0.39inch, DC24V
18LED/ft, 1.5W/ft, 125lm/ft,
16.4ft/roll, 16.4ft max. running length
36LED/ft, 3.7W/ft, 305lm/ft,
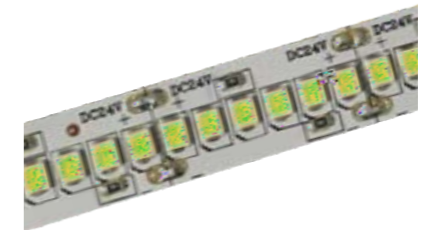16.4ft/roll, 16.4ft max. running length
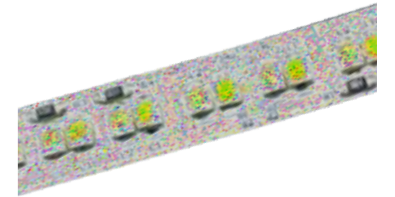
RGBW LED Flex Strips

With 4 in 1 RGBW LED, multi colors
(red, green, blue, white)
PCB width 0.47inch, DC24V
18LED/ft, 5.7W/ft, R 30lm/ft,
G 52lm/ft, B 14lm/ft, W 110lm/ft
16.4ft/roll, 16.4ft max. running length

CCT Tunable LED Flex Strips

Strips can be used with controller to
change the color temperature
CCT from 2700 to 6000K
PCB width 0.39inch, DC24V
72LED/ft, 1.8W/ft, CW 183lm/ft,
WW 152lm/ft, 16.4ft/roll, 16.4ft max.
running length
72LED/ft, 3.7W/ft, CW 335lm/ft,
WW 293lm/ft, 10ft/roll, 10ft max.
running length

Bendable LED Flex Strips

Strips can be bended more than 90°
PCB width 0.24inch, DC24V
18LED/ft, 1.2W/ft, 128lm/ft
16.4ft/roll, 16.4ft max. running length
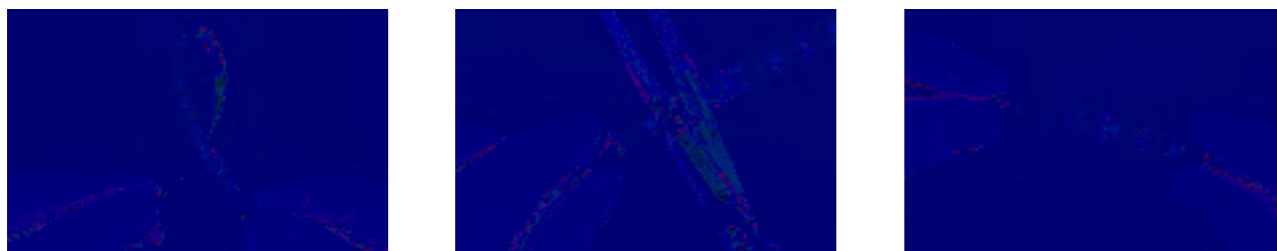
LED STRIP

NON-WATERPROOF LED STRIP

FEATURES

- High brightness SMD
- Strips can be cut every 5cm/10cm and reconnect
- Variety of optional colors and accessories
- Standard PCB color: White

- CRI 80/90
- 3M adhesive backing
- Suitable for dry locations

CE c(UL)us LISTED RoHS COMPLIANT

| 18pcs 2835 LED 1.2W per ft	18pcs 2835 LED 1.5W per ft	18pcs 2835 LED 3.7W per ft		36pcs 2835 LED 3.7W per ft	36pcs 2835 LED 7.3W per ft	72pcs 2835 LED 6.3W per ft	18pcs 5050RGB LED 3.7W per ft
· 10ft max. running length · 159LM/ft · PCB width 0.19inch · DC 24V input	· 16.4ft max. running length · 159LM/ft · PCB width 0.39inch · DC 24V input	· 16.4ft max. running length · 305LM/ft · PCB width 0.39inch · DC 24V input		· 16.4ft max. running length · 335LM/ft · PCB width 0.39inch · DC 24V input	· 10ft max. running length · 640LM/ft · PCB width 0.39inch · DC 24V input	· 10ft max. running length · 610LM/ft · PCB width 0.47inch · DC 24V input	· 16.4ft max. running length · R: 38LM/ft G:92LM/ft B: 19LM/ft W:127LM/ft · PCB Width: 0.39inch · DC 24V input
COOL WHITE NS-FA3528CW18-24-4.8	COOL WHITE NS-FA3528CW18-24	COOL WHITE NS-FA3528CW18-24-B		COOL WHITE NS-FA3528CW36-24	COOL WHITE NS-FA3528CW36-24-UB	COOL WHITE NS-FA3528CW72-24	NS-FA5050RGB18-24
NEUTRAL WHITE NS-FA3528NW18-24-4.8	NEUTRAL WHITE NS-FA3528NW18-24	NEUTRAL WHITE NS-FA3528NW18-24-B		NEUTRAL WHITE NS-FA3528NW36-24	NEUTRAL WHITE NS-FA3528NW36-24-UB	NEUTRAL WHITE NS-FA3528NW72-24	**18pcs 3528 LED 1.2W per ft** · 16.4ft max. running length · R: 34LM/ft Y: 30LM/ft G:67LM/ft B: 18LM/ft · PCB Width: 0.39inch · DC 24V input
WARM WHITE NS-FA3528WW18-24-4.8	WARM WHITE NS-FA3528WW18-24	WARM WHITE NS-FA3528WW18-24-B		WARM WHITE NS-FA3528WW36-24	WARM WHITE NS-FA3528WW36-24-UB	WARM WHITE NS-FA3528WW72-24	NS-FA3528R18-24 NS-FA3528Y18-24 NS-FA3528G18-24 NS-FA3528B18-24

Easy Installation in Anywhere

Easy Installation in Anywhere

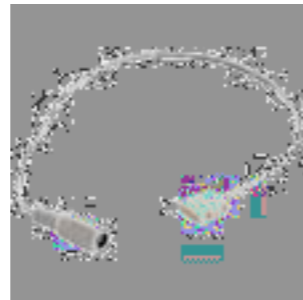# Accessories for Non-waterproof Single Color LED Strip

LED Strip In Line Dimmer

· 0-100% Dimming
· Can only be used in DC12/24V
· For indoor use only
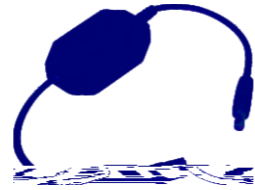
Power Feed

· Connects strips to power supply

Single Color Connectors

Inline Splice

· Connects 2 sections of the strips together

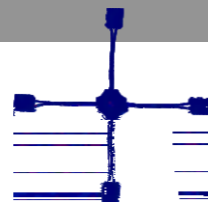### Interconnect Cable

· Connects 2 sections of the strips together

3-Way Connector

· Connects 3 sections of the strips together
· One input, two outputs
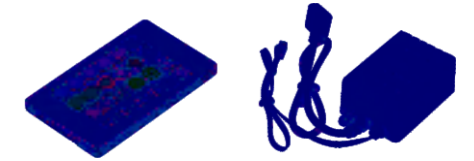· Ideal for making "T" & "Y" connections

4-Way Connector

· Connects 4 sections of the strips together
· One input, three outputs
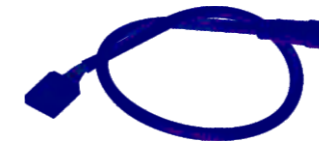
Accessories for Non-waterproof RGB LED Strip

RGB Controller

· Must be used with RGB LED strips
· With remote controller
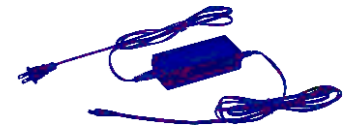· Adjusts speed and brightness
· Connects between power supply and strips

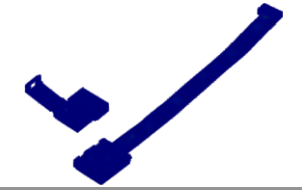## RGB Power Supply Leads

· Connects strips to
  power supply

**Indoor Power Supply
From 30W to 320W
available**

RGB Connectors

Inline Splice
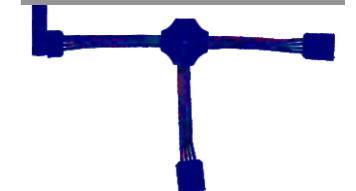
· Connects 2 sections of the strips together

Interconnect Cable

· Connects 2 sections of the strips together

RGB 3-Way Connector

· Connects 3 sections of the strips together
· One input, two outputs
· Ideal for making "T" & "Y" connections

RGB 4-Way Connector

· Connects 4 sections of the strips together
· One input, three outputs

LED STRIP

IP54 WATERPROOF LED STRIP
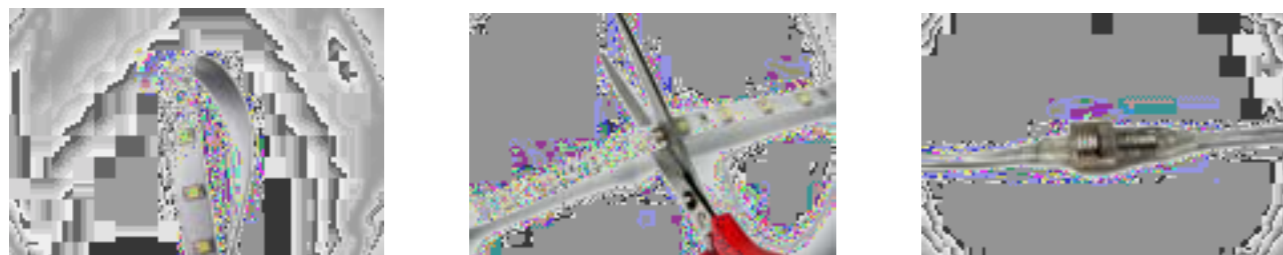
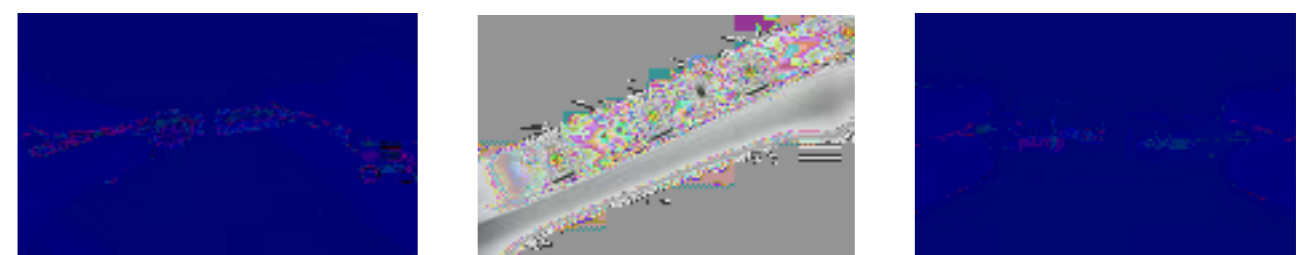CE c(UL)us LISTED RoHS COMPLIANT

FEATURES
- High brightness SMD
- Can be cut every 5cm/10cm and reconnect
- optional colors and accessories
- Suitable for damp locations

- CRI 80/90
- 3M adhesive backing
- Standard PCB color: White

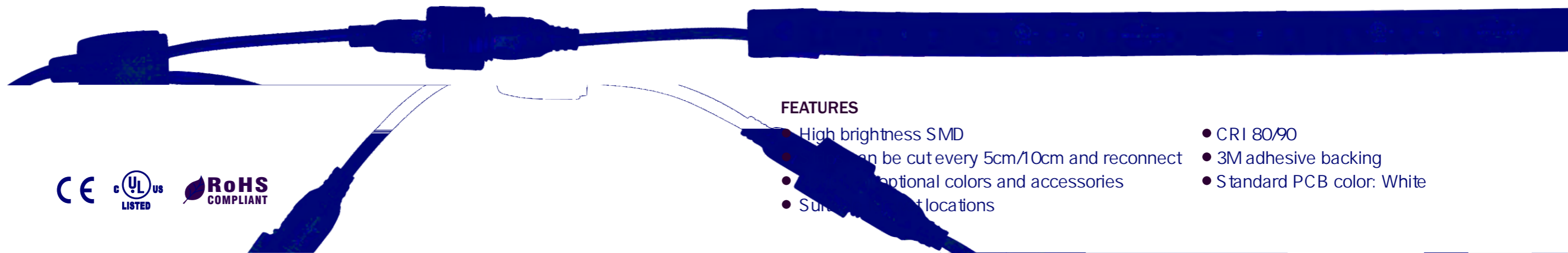| 18pcs 2835 LED 1.2W per ft	18pcs 2835 LED 1.5W per ft	18pcs 2835 LED 3.7W per ft	36pcs 2835 LED 3.7W per ft	36pcs 2835 LED 7.3W per ft	72pcs 2835 LED 6.1W per ft
· 10ft max. running length · 151LM/ft · PCB width 0.19inch · DC 24V input	· 16.4ft max. running length · 151LM/ft · PCB width 0.39inch · DC 24V input	· 16.4ft max. running length · 290LM/ft · PCB width 0.39inch · DC 24V input	· 16.4ft max. running length · 318LM/ft · PCB width 0.39inch · DC 24V input	· 10ft max. running length · 608LM/ft · PCB width 0.39inch · DC 24V input	· max. running length · ft · width 0.47inch · input
COOL WHITE NS-FD3528CW18-24-4.8	COOL WHITE NS-FD3528CW18-24	COOL WHITE NS-FD3528CW18-24-B	COOL WHITE NS-FD3528CW36-24	COOL WHITE NS-FD3528CW36-24-UB	COOL WHITE
NEUTRAL WHITE NS-FD3528NW18-24-4.8	NEUTRAL WHITE NS-FD3528NW18-24	NEUTRAL WHITE NS-FD3528NW18-24-B	NEUTRAL WHITE NS-FD3528NW36-24	NEUTRAL WHITE NS-FD3528NW36-24-UB	
WARM WHITE NS-FD3528WW18-24-4.8	WARM WHITE NS-FD3528WW18-24	WARM WHITE NS-FD3528WW18-24-B	WARM WHITE NS-FD3528WW36-24	WARM WHITE NS-FD3528WW36-24-UB	

Easy Installation in Anywhere

Easy Installation in Anywhere

LED STRIP

IP67 WATERPROOF LED STRIP

CE c(UL)us LISTED RoHS COMPLIANT

**FEATURES**

- High brightness SMD
- Can be cut every 5cm/10cm and reconnect
- optional colors and accessories
- Sur... locations
- CRI 80/90
- 3M adhesive backing
- Standard PCB color: White

18pcs 2835 LED 1.2W per ft	18pcs 2835 LED 1.5W per ft	18pcs 2835 LED 3.7W per ft	36pcs 2835 LED 3.7W per ft	36pcs 2835 LED 7.3W per ft	72pcs 2835 LED 6.1W per ft
· 10ft max. running length · 151L... · PCB ...9inch · DC 2...	· 16.4ft max. running length · 151LM/ft · PCB width 0.31inch · DC 24V input	· 16.4ft max. running length · 290LM/ft · PCB width 0.39inch · DC 24V input	· 16.4ft max. running length · 318LM/ft · PCB width 0.31inch · DC 24V input	· 10ft max. running length · 608LM/ft · PCB width 0.39inch · DC 24V input	· 10ft max. running length · 580LM/ft · PCB width 0.47inch · DC 24V input
COOL WHITE ...FC3528CW18-24-4.8	COOL WHITE NS-FC3528CW18-24	COOL WHITE NS-FC3528CW18-24-B	COOL WHITE NS-FC3528CW36-24	COOL WHITE NS-FC3528CW36-24-UB	COOL WHITE NS-FC3528CW72-24
NEUTRAL WHITE ...C3528NW18-24-4.8	NEUTRAL WHITE NS-FC3528NW18-24	NEUTRAL WHITE NS-FC3528NW18-24-B	NEUTRAL WHITE NS-FC3528NW36-24	NEUTRAL WHITE NS-FC3528NW36-24-UB	NEUTRAL WHITE NS-FC3528NW72-24
WARM WHITE ...C3528WW18-24-4.8	WARM WHITE NS-FC3528WW18-24	WARM WHITE NS-FC3528WW18-24-B	WARM WHITE NS-FC3528WW36-24	WARM WHITE NS-FC3528WW36-24-UB	WARM WHITE NS-FC3528WW72-24

Easy Installation in Anywhere
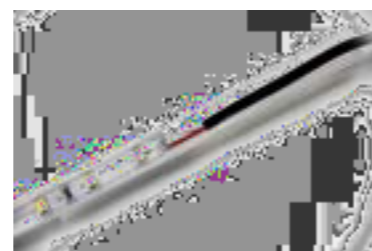
Easy Installation in Anywhere
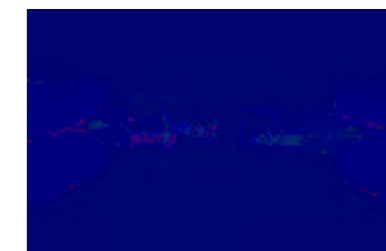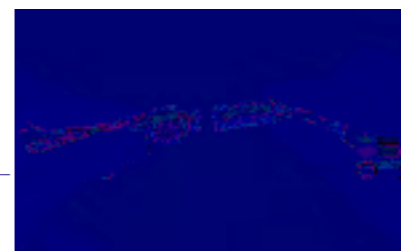
Accessories for Waterproof Single Color LED Strip

Power Feed

· Connects strips to power supply

Single Color Connectors

Interconnect Cable

· Connects 2 sections of the strips together

3-Way Connector

· Connects 3 sections of the strips together
· One input, two outputs
· Ideal for making "T" & "Y" connections

4-Way Connector

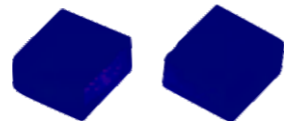· Connects 4 sections of the strips together
· One input, three outputs

End Cap

· Terminal for the strips

Silicone

· Silicone glue for the end cap

Clips

· Fix the strips on the surface

Accessories for Waterproof RGB LED Strip

RGB Power Supply Leads

· Connects strips to power supply

RGB Connectors

Interconnect Cable

· Connects 2 sections of the strips together

RGB 3-Way Connector

· Connects 3 sections of the strips together
· One input, two outputs
· Ideal for making "T" & "Y" connections

RGB 4-Way Connector

· Connects 4 sections of the strips together
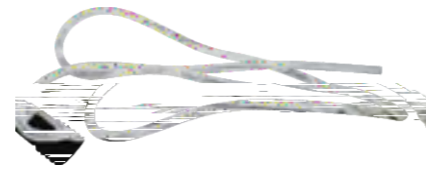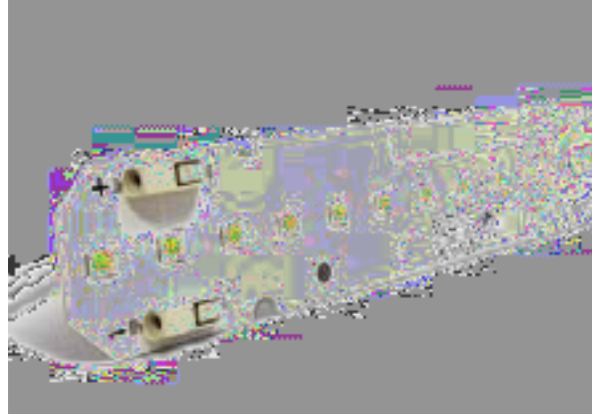· One input, three ouputs

Power Supply

· Outdoor Power Supply

LED MODULE

FEATURES

- PCB kinds: FR4,CEM,AL
- LED type:2835,4014,5050,3030,RGB,3535 high power
- Input:12v/24v/350mA 700mA,1000mA and etc
- Lumen output: 90LM/W to 200LM/W
- Connector: as customer request
- Typical Applications: O ce lighting, Retail, corridor and shelf lighting
- We o er OEM & ODM service

Sample Preparation

Product Information

Package Design

Configuration Design

Electronic& Thermal Testing