



# LEAVES

Introduction Of Flexible Track Lighting Products

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The developer of flexible track lighting system



Innovator of Flexible Track Light

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01

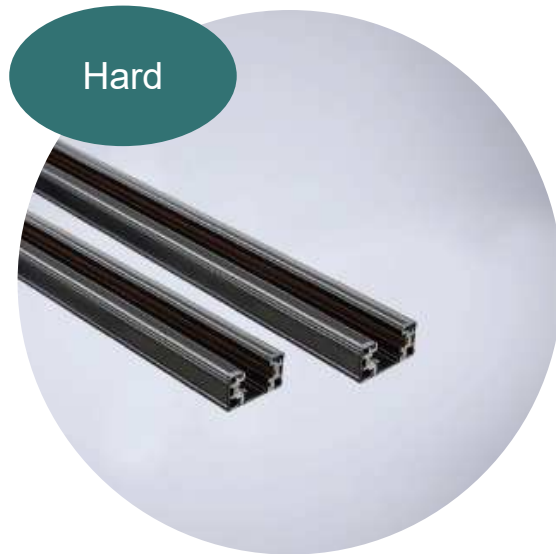
**Features of Flexible Track Products**

**What is the flexible track?**

# Evolution of track lighting

Track lighting products are mainly used for commercial and home lighting.

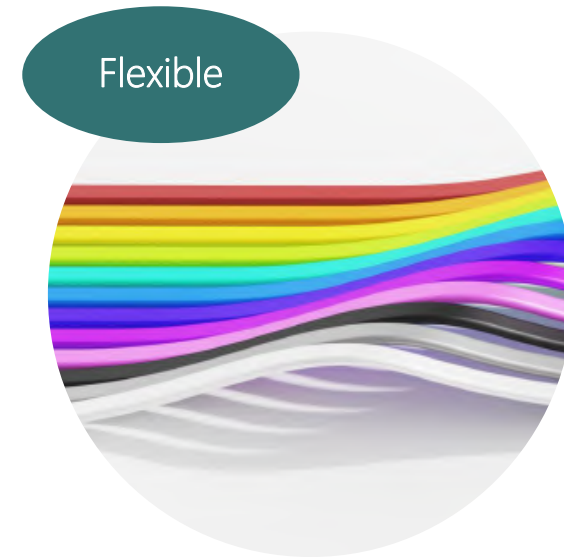
Thanks to the flexibility of the movable lights, it has undergone several evolutionary changes over the years and has now entered the era of flexible tracks!



**1<sup>st</sup> Generation:**  
High Voltage Hard Track



**2<sup>nd</sup> Generation:**  
Low Voltage Hard Track



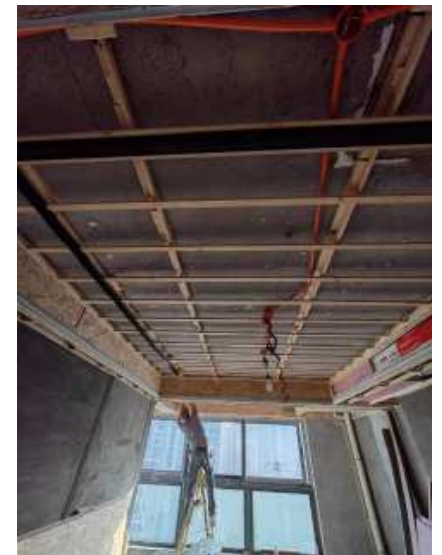
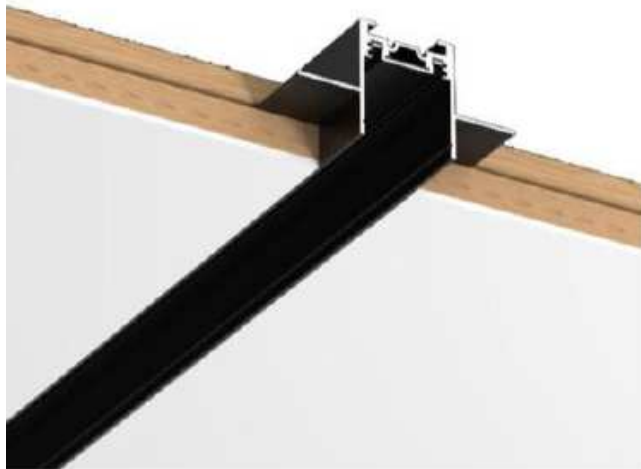
**3<sup>rd</sup> Generation:**  
Low Voltage Flexible Track

# Comparison of applications of these three types of tracks

	<b>01-Line</b>	<b>02-Installation type</b>	<b>03-Installation convenience</b>	<b>04-Transportation</b>	<b>05-Shape</b>	<b>06-Power supply</b>
<b>1<sup>st</sup> Generation:</b> High Voltage Hard Track	2-line, 3-line, 4-line	Surface-mounted, embedded	Easy installation	Heavy, high transportation cost	Difficult to shape	External driver is not needed.
<b>2<sup>nd</sup> Generation:</b> Low Voltage Hard Track	2-line, 4-line, 6-line	Surface-mounted, pre-embedded	Complicated pre- embedding, Request professional machine cutting	Large volume, high transportation cost	Difficult to shape	Request power supply.
<b>3<sup>rd</sup> Generation:</b> Low Voltage Flexible Track	2-line, 4-line	Surface-mounted	<b>Easy installation, can be cut to any length</b>	<b>Roll-shaped, low transportation cost</b>	<b>Suitable for various DIY shapes</b>	Request power supply.

## Background of flexible track development:

1. Flexible tracks allow for free personalized DIY customization.
2. Flexible tracks are a perfect solution for applications without main light where embedded installation is complex and requires a suspended ceiling, resulting in high labor, cost, and ceiling costs.
3. For renovation projects or spaces where it is not possible to install lights in the ceiling, flexible power supply and lighting installation is required, which can only be achieved with flexible track systems.

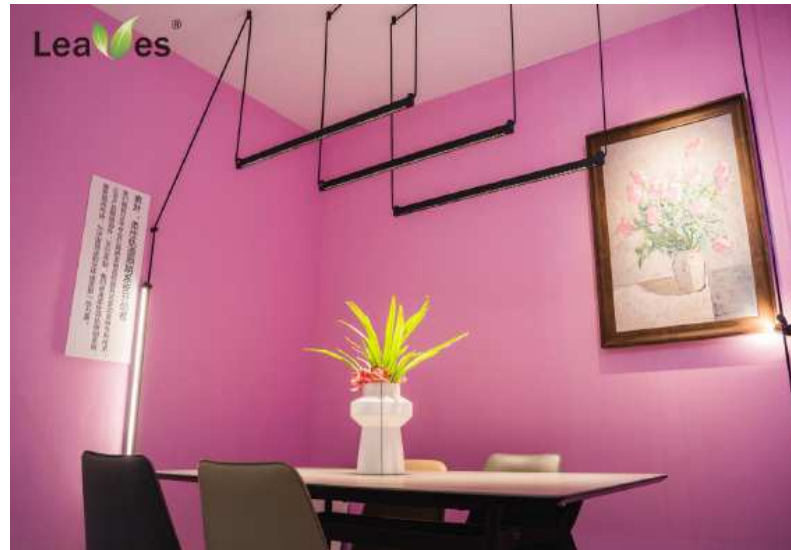




## Applications of Conventional Hard Track Systems:



# Applications of Flexible Track:



# The market prospect of flexible track systems:

Artemide



- From the design and application trends of several major international brands, flexible track systems are expected to become a major trend in the lighting industry.
- The market prospects for flexible track systems are therefore very promising, and they are likely to become increasingly popular in the coming years.



# PRODUCT FEATURES

## Why is Leaves a good choice?

### 1. Leaves invention patent:

Unique piercing power technology;

Up to 86 patents;

Earliest patents since from Year 2009 & Year 2015;

Protect and assist our partner win the market better.



US009147946B1

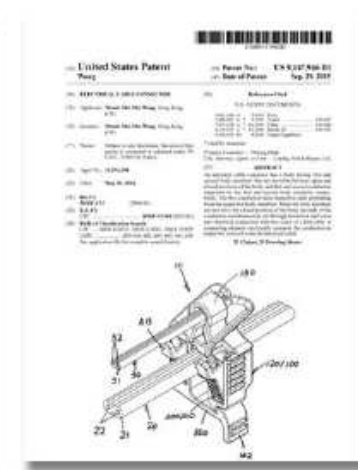
(10) <b>United States Patent</b> <b>Wong</b>	(10) Patent No.: <b>US 9,147,946 B1</b>
	(45) Date of Patent: <b>Sep. 29, 2015</b>
(54) <b>ELECTRICAL CABLE CONNECTOR</b>	(56) <b>References Cited</b>
(71) Applicant: <b>Memie Mei Mei Wong, Hong Kong (CN)</b>	<b>U.S. PATENT DOCUMENTS</b>
(72) Inventor: <b>Memie Mei Mei Wong, Hong Kong (CN)</b>	5,601,448 A 2/1997 Boon
	5,888,540 A * 3/1999 Aho
	5,975,238 A * 11/1999 L'Esca
	6,159,835 A * 12/2000 Smith, III
	6,364,650 B1 4/2002 Nohle-Engelbert
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.	* cited by examiner
(21) Appl. No.: <b>14291388</b>	Primary Examiner — Phuong Dinh
(22) Filed: <b>May 30, 2014</b>	(74) Attorney, Agent, or Firm — Loydig, Voit & Mayer, Ltd.
(51) Int. Cl.	(57) <b>ABSTRACT</b>

An electrical cable connector has a body having first and second body members that are movable between open and closed positions of the body, and first and second conductors supported by the first and second body members, respectively. The two conductors have respective axis protruding



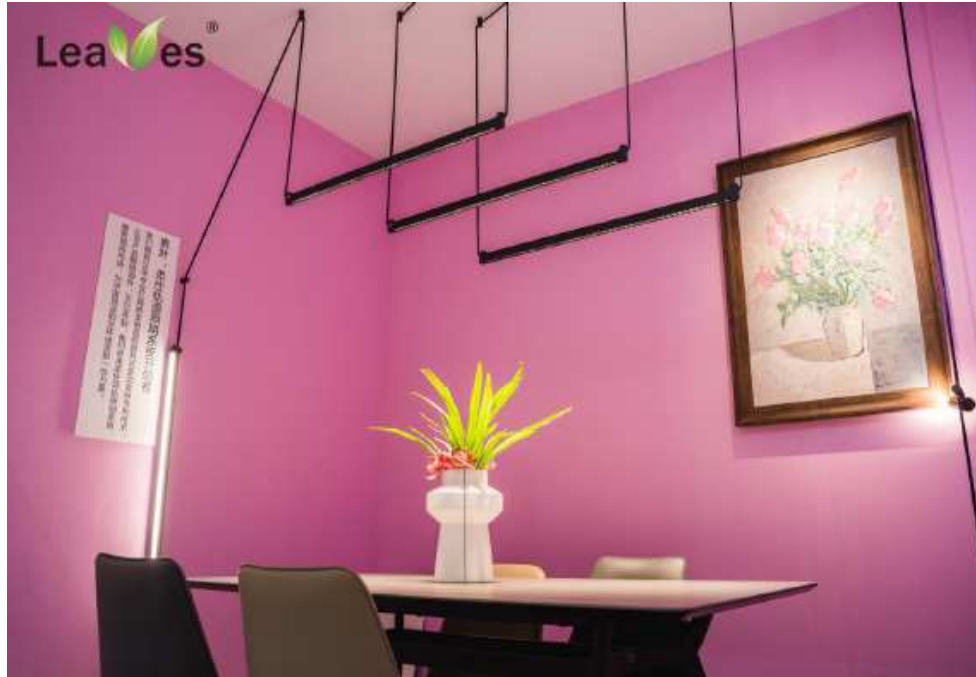
US007635279B1

(10) <b>United States Patent</b> <b>Wong et al.</b>	(10) Patent No.: <b>US 7,635,279 B1</b>
	(45) Date of Patent: <b>Dec. 22, 2009</b>
(54) <b>ELECTRICAL CABLE CONNECTOR</b>	6,364,650 B1 4/2002 Nohle-Engelbert
(70) Inventors: <b>Memie Mei Mei Wong, 7<sup>th</sup> Floor, Block 2, Leader Industrial Centre, 188-202 Texaco Rd., Tsuen Wan, New Territories (HK); Sam Yau Sam Wong, 7<sup>th</sup> Floor, Block 2, Leader Industrial Centre, 188-202 Texaco Rd., Tsuen Wan, New Territories (HK)</b>	7,065,556 B1 6/2006 Wong et al.
	7,136,686 B1 * 12/2001 Sekido et al.
	7,420,184 B2 * 9/2008 Minkovitch et al.
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35	* cited by examiner
	Primary Examiner — Khien Nguyen
	(74) Attorney, Agent, or Firm — Loydig, Voit & Mayer, Ltd.
	(57) <b>ABSTRACT</b>



## 2. Diverse styles:

Flexible tracks can create various styles to meet the needs of different customers, can also be sold as art, providing greater profit margins for creators.



Value Increase

### 3. Multiple color choices:

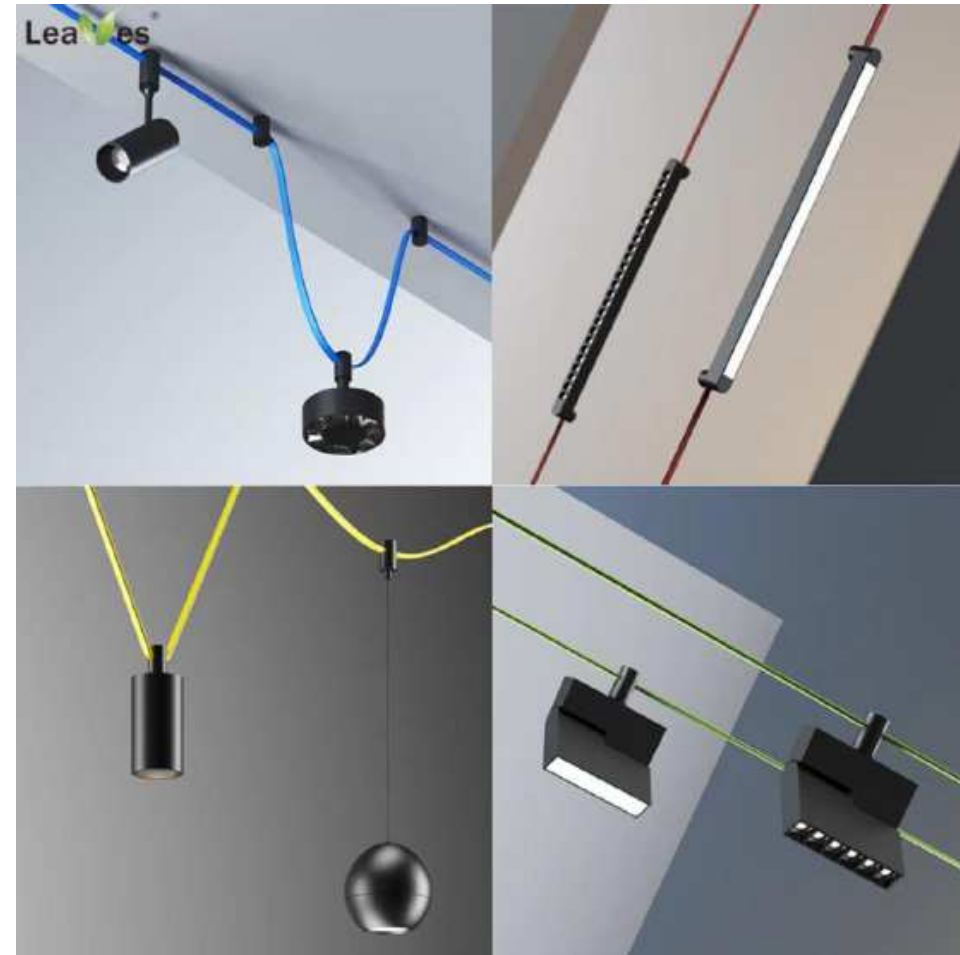
Compared to traditional black and white tracks, LEAVES flexible track lighting offers multiple color choices to meet customers' different aesthetic needs.

Traditional Track Light



VS

LEAVES Flexible Track Light



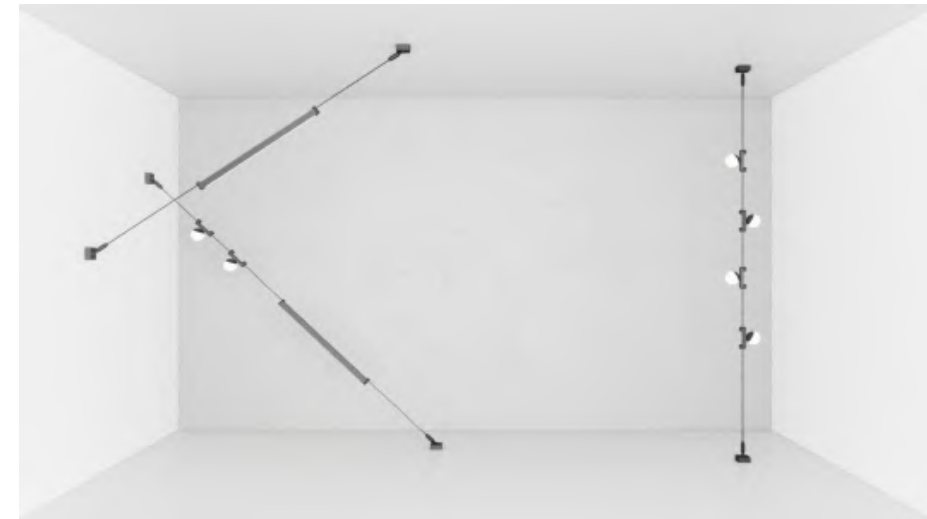
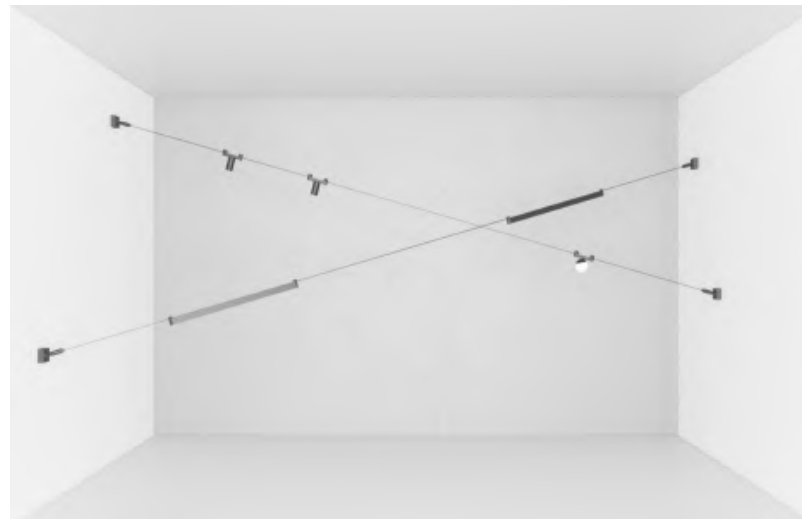
#### 4. Flexibility:

The position and number of flexible track lighting can be adjusted as desired, allowing for free combinations according to customers' actual needs, providing flexibility that other products do not have.

Plug-and-play  
installation is portable



JUST TWO PLANES  
TO FORM A MULTI-FUNCTIONAL FLEXIBLE LIGHTING SYSTEM



5. Cost-effective:

Compared with the traditional hard track, Flexible track light are, in low transportation and construction costs, low losses, reduce procurement and maintenance costs.



easy to cut  
minimum loss



VS



10PCS of 1 meter track per carton.  
There are 600 meters.



One roll is 100-meter track.  
There are 2,300 meters.



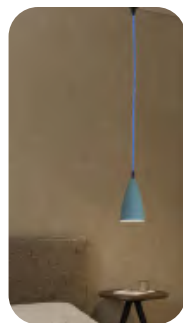
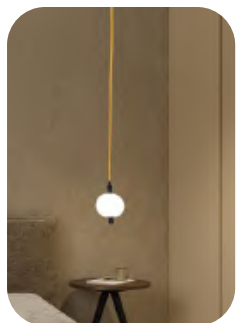
## 6. Design extensibility:

Flexible track lighting is also compatible with Leaves' hard track and DIY decorative lights as well as Lego systems, allowing for more design extensibility.



When adjusting the layout of the space or when additional lighting is needed, it's easy to add lights with flexible power options.

There are also various decorative lighting modules available that can be interchanged and combined in any way.



## 7. Intelligent application:

Flexible track support intelligent module, Provide more possibilities for intelligent living.



EVOLUTION FROM  
POINT TO **LINE**

DALI

0-10V

Triac



Bluetooth®

In conclusion, LEAVES' flexible track lighting products are a highly competitive choice in the market.



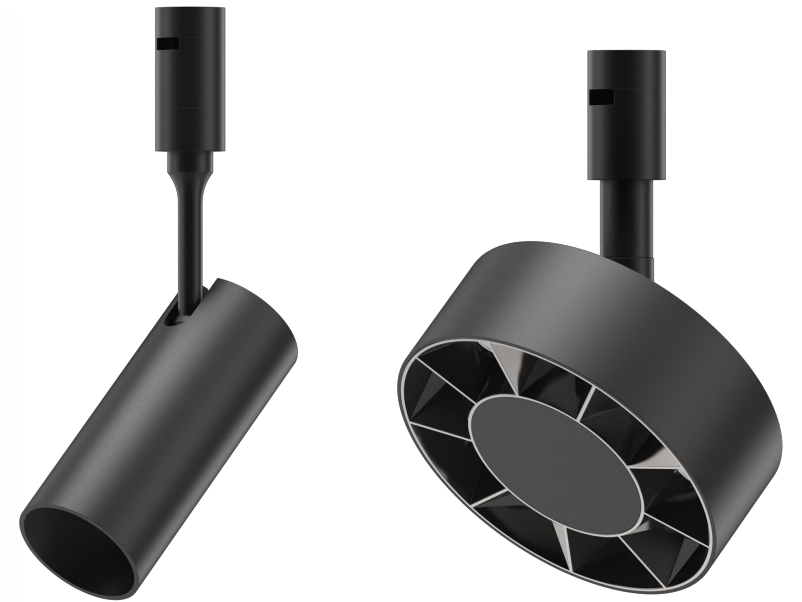
02

**Parameter Display-Color Bridge Series & Sky Rail Series**

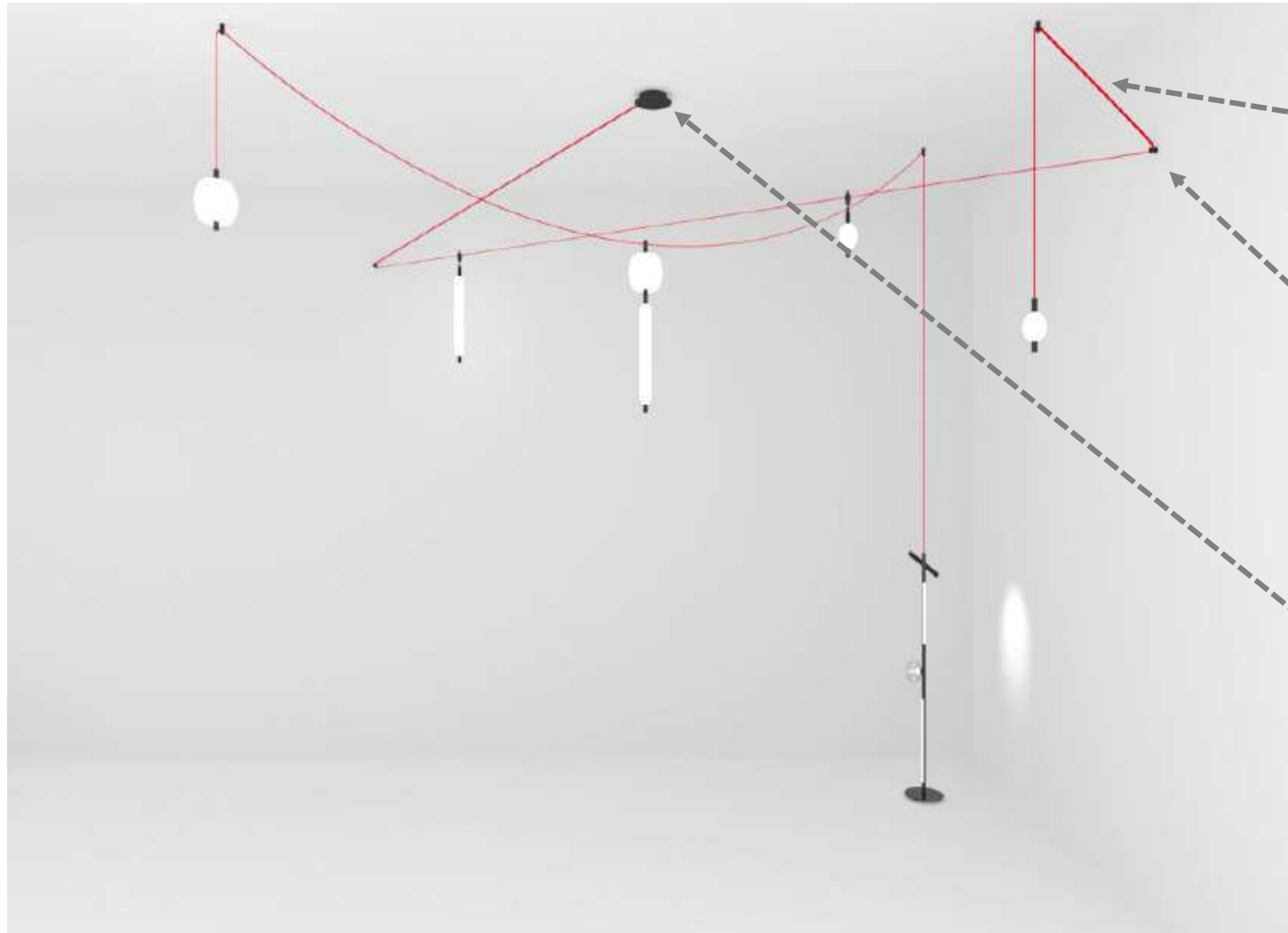
# Color Bridge

## Color Bridge Series

- The "Color Bridge" series of track lights is lightweight and available in 5 different colors, with voltage options of 24V and 48V.
- It has a wide variety of light module options, which can be used interchangeably with our "Lego" and "Dexterous" series, making it particularly suitable for home and boutique commercial spaces.



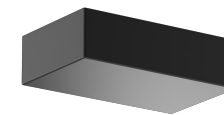
## Color Bridge Series Components



Description: Flexible Track  
Item No.: DGX

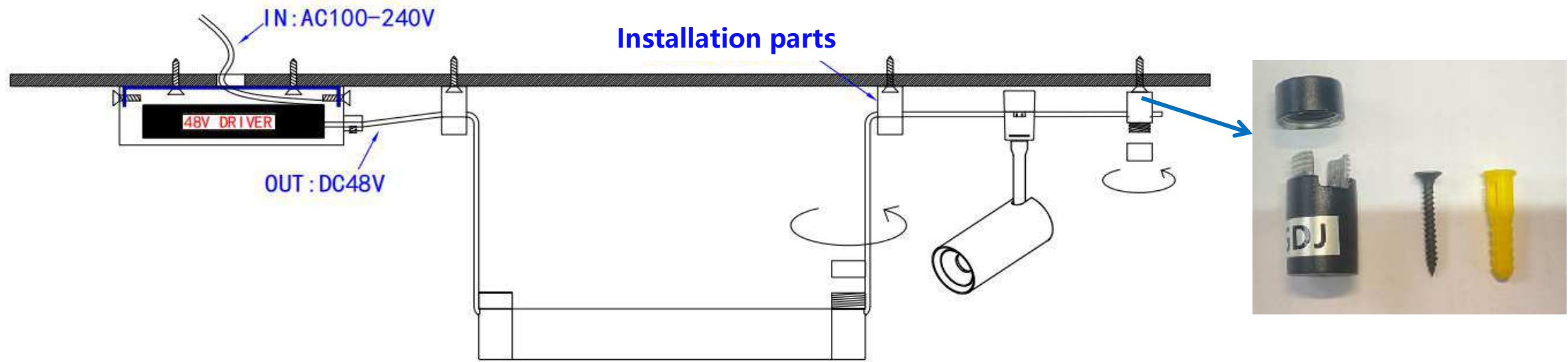


Description: Fixed accessories  
Item No.: GDJ  
Size: D20mm H36mm  
Material: Aluminum



Description: Driver plate  
Usage: For surface-mounted, for build-in driver (No need for drivers fixed in ceiling)  
Size1: L180\*W110\*H50mm <150W  
Size2: L230\*W125\*H50mm <350W

## Installation diagram for the "Color Bridge" series

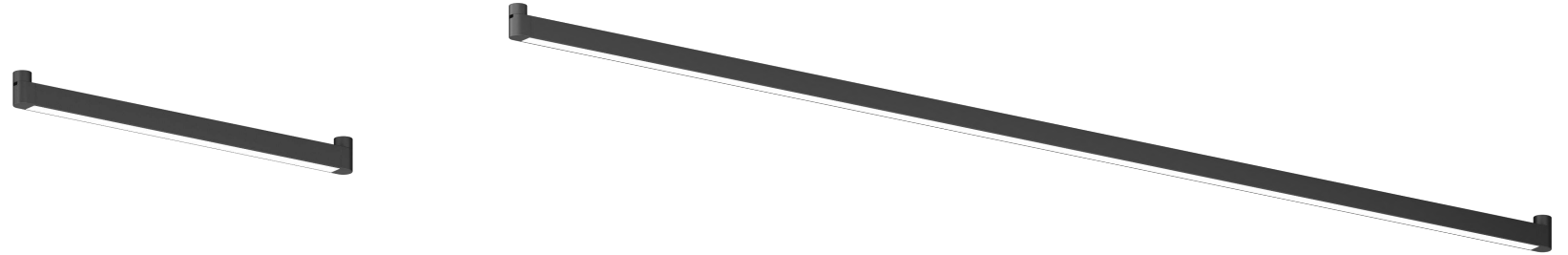


## Different available colors for the "Color Bridge" series





# DC48V Color Bridge Series Light module - floodlight



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQA-XTM-2J-20W	20W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L494*W23*H42.8mm
CQA-XTM-4J-40W	40W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L925*W23*H42.8mm
CQA-XTM-7J-70W	70W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L1572*W23*H42.8mm
CQA-XTM-9J-90W	90W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L2000*W23*H42.8mm

Advantages: Various length options, even glow, provide basic lighting

Application: Can be used for main lighting of ceiling, suspension line as office lighting, vertical as atmosphere, partition light, etc.

# DC48V Color Bridge Series Light module - Grille lamp

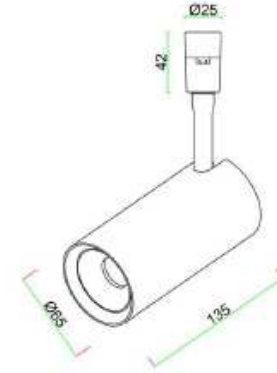
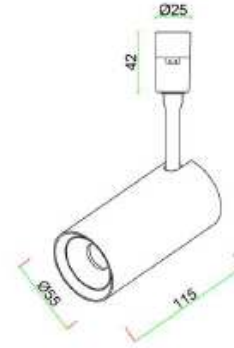


Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQA-XTD-R24T-20W	20W	24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L494*W23*H42.8mm
CQA-XTD-R48T-40W	40W	24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L925*W23*H42.8mm
CQA-XTD-R84T-70W	70W	24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L1572*W23*H42.8mm
CQA-XTD-R108T-90W	90W	24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L2000*W23*H42.8mm

Advantages: Optional length, deep anti-glare design, commonly used for accent lighting

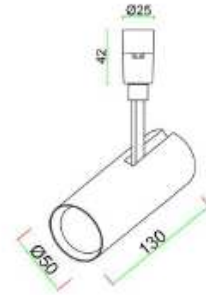
Application: Can be used for the accent lighting of ceiling, can use suspension line as office lighting, dining table, tea table lamp, suspension light line integration, more beautiful, can also be multiple scattered design.

# DC48V Color Bridge Series Light module - Spot Light

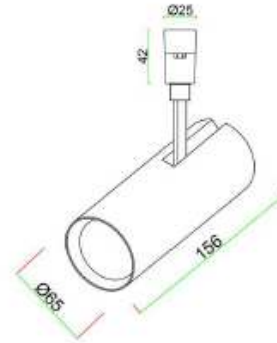


Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQP-SP-021-7W	7W	15°/24°/36°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D45*H100mm
CQP-SP-022-12W	12W	15°/24°/36°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D55*H115mm
CQP-SP-023-18W	18W	15°/24°/36°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D65*H135mm

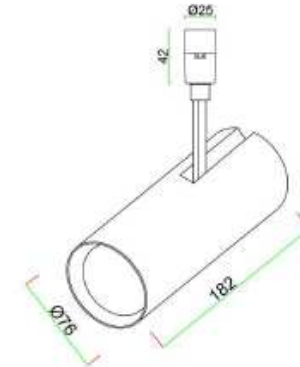
# DC48V Color Bridge Series Light module - Spot Light



CQP-SP-011-12W



CQP-SP-012-18W



CQP-SP-013-24W



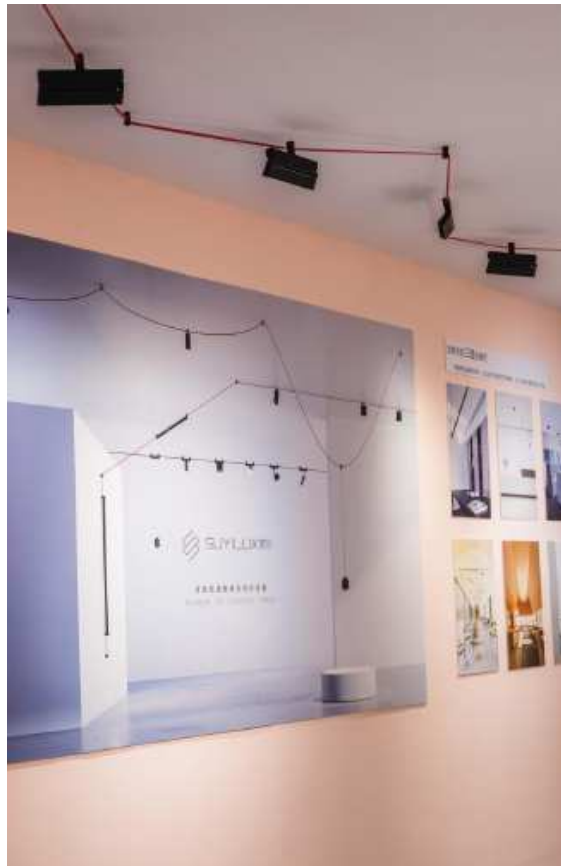
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQP-SP-011-12W	12W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D50*H130mm
CQP-SP-012-18W	18W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D65*H156mm
CQP-SP-013-24W	24W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D76*H182mm

# DC48V Color Bridge Series Light module - Multifunctional Spot Light



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQP-SP-032-10W	10W	Adjustable 10°-55°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D55*H115mm
CQP-SP-033-18W	18W	Adjustable 10°-55°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D65*H135mm
CQP-SP-042-6W	6W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D40*H95mm
CQP-SP-062-6W	6W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D40*H100mm
CQP-SP-063-12W	12W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D52*H120mm
CQP-SP-064-18W	18W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D63*H140mm

# DC48V Color Bridge Series Light module - Wall washer Light



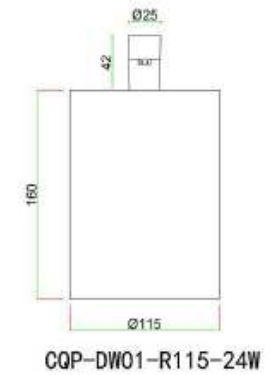
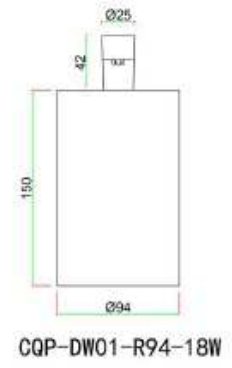
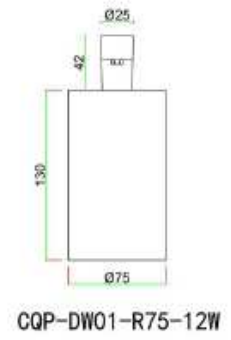
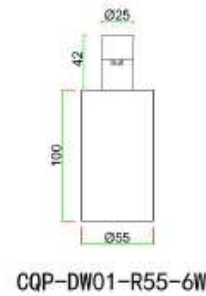
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQP-BXQD-21-6W	6W	24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L112*W23*H87mm
CQP-BXQD-22-12W	12W	24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L220*W23*H87mm
CQP-BXQM-11-6W	6W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L118*W23*H87mm
CQP-BXQM-12-12W	12W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	L231*W23*H87mm

# DC48V Color Bridge Series Light module - Spot Light



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQP-SP-69C-6W	6W	15°/24°/36°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	White	IP20	D71*H50mm
CQP-SP-92C-9W	9W	15°/24°/36°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	White	IP20	D94*H34mm
CQP-DW02-R72-12W	12W	15°/24°/36°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D72*H108mm
CQP-DW02-R92-18W	18W	15°/24°/36°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D92*H130mm

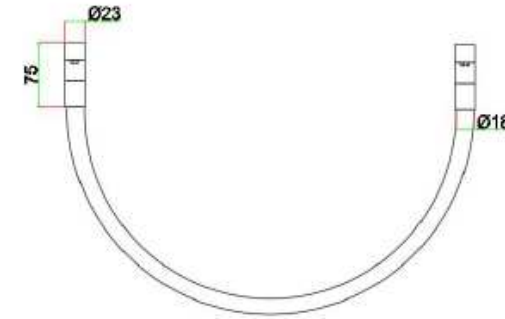
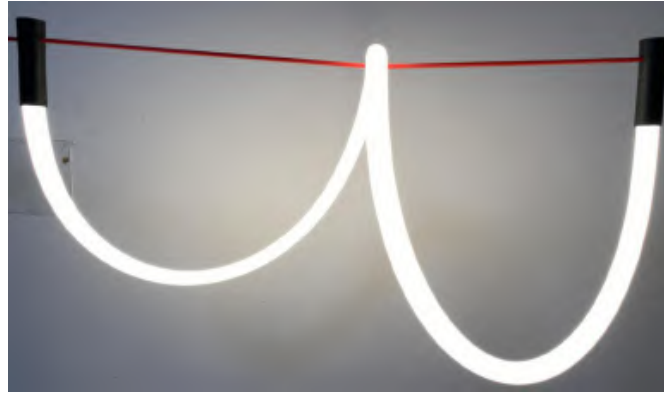
# DC48V Color Bridge Series Light module - Spot Light



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQP-DW01-R55-6W	6W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D55*H142mm
CQP-DW01-R75-12W	12W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D75*H172mm
CQP-DW01-R94-18W	18W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D95*H192mm
CQP-DW01-R115-24W	24W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D115*H202mm

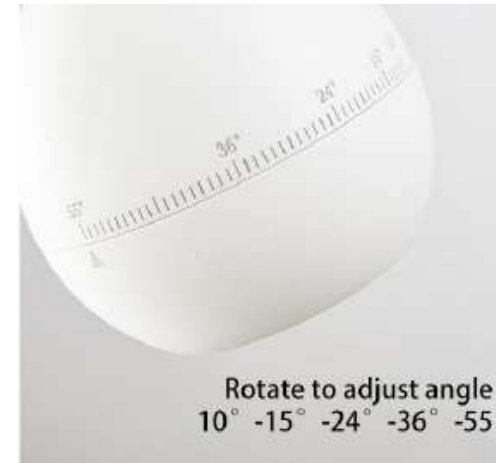
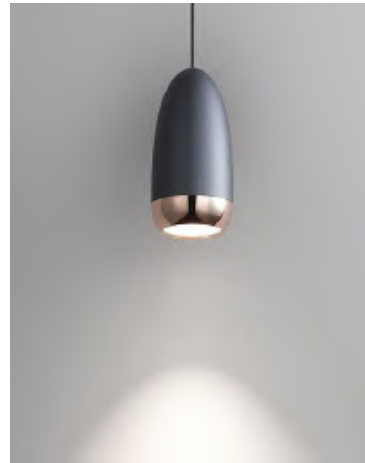


# DC48V Color Bridge Series Light module - Strip Light



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
G18-100A-10W	10W	360°	Ra≥90	3000K/6000K	48V	White	IP20	D18L1000mm
G18-150A-14W	14W	360°	Ra≥90	3000K/6000K	48V	White	IP20	D18L1500mm
G18-200A-19W	19W	360°	Ra≥90	3000K/6000K	48V	White	IP20	D18L2000mm
G18-300A-27W	27W	360°	Ra≥90	3000K/6000K	48V	White	IP20	D18 L3000mm

# DC48V Color Bridge Series Light module - Pendant Light



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture size
CQP-CD-04-6W	6W	45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Blue	IP20	D80*H120mm
CQP-CD-05-6W	6W	24°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Gray +Gold	IP20	D60*H120mm
CQP-CD-07-12W	12W	Adjustable 10°-55°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black or White	IP20	D100*H100mm
CQP-CD-06-6W	6W	50°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Gold	IP20	D100*H100mm

**SKY RAIL**

# Sky rail series

The Sky Rail series has a wider and thicker dimension, with six conductors inside and strong load-bearing capacity. It can be equipped with a dimming and color adjustment system, making it more suitable for commercial use.

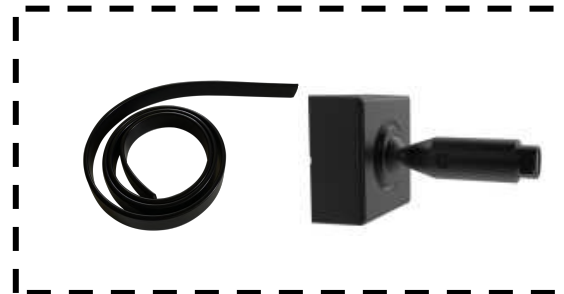




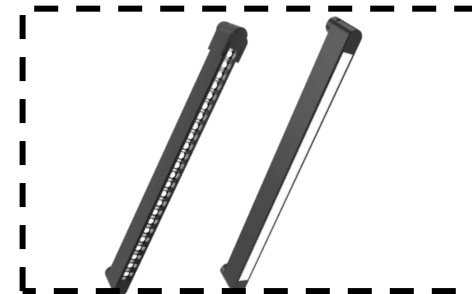
- The Sky Rail system consists of three suites, none of which is necessary.
- Low Voltage 48V driver+Sky rail Flexible Track+Lamp Module



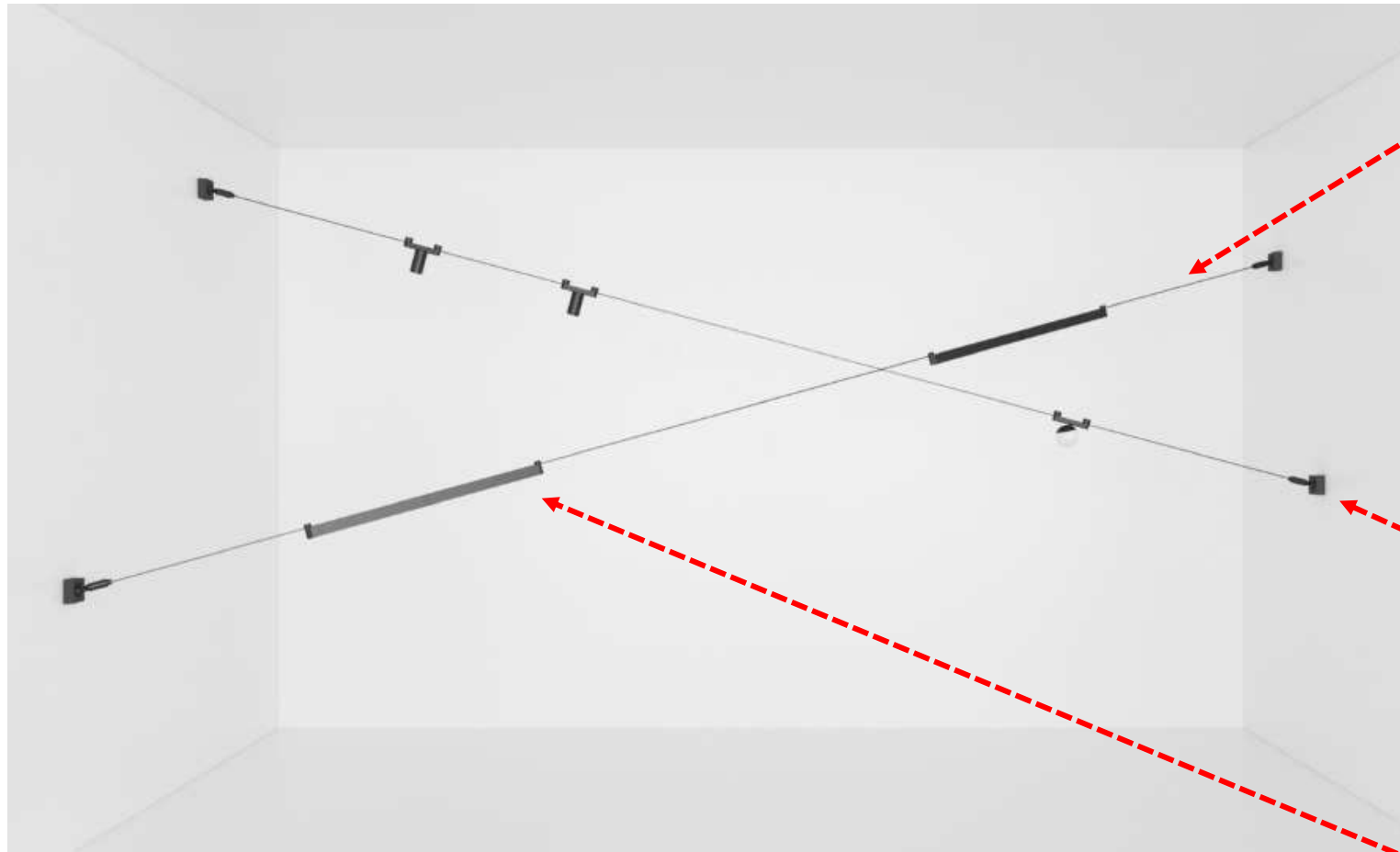
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# Sky rail components



Description: Sky Rail Flexible track  
Item No.: DGX

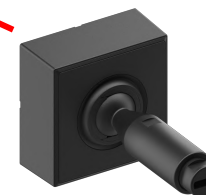


Description: Sky Rail fixed accessories  
Item No.: TG-GDJ

Size: D26mm\*H46mm

Material: Aluminum

Function: When the hoisting length is long, it should be used with wire rope to reinforce and prevent droop.

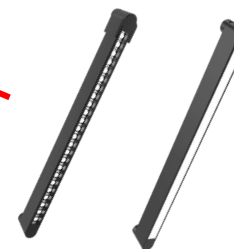


Description: Tighten

Item No.: TG-SJQ

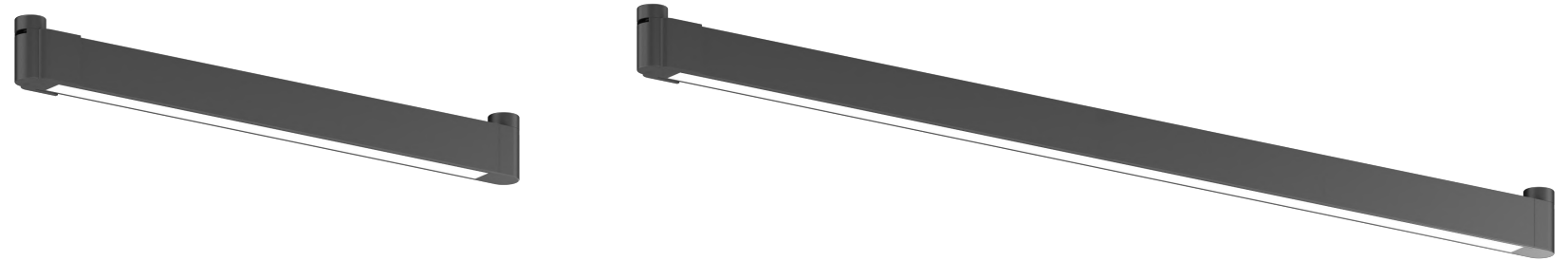
Size: 86\*86\* (155-185) mm

Material: 304 steel+Aluminum



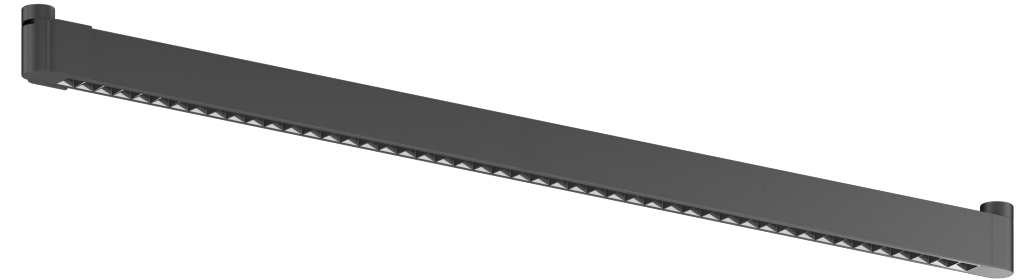
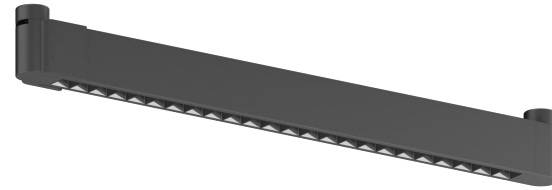
Various Lighting modules

# DC48V Sky Rail Series Light module (Flood Light)



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-XTM-2J-D-20W	20W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	502*26*57mm
TG-XTM-4J-D-40W	40W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	933*26*57mm
TG-XTM-7J-D-70W	70W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	1580*26*57mm
TG-XTM-9J-D-90W	90W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	2011.5*26*57mm

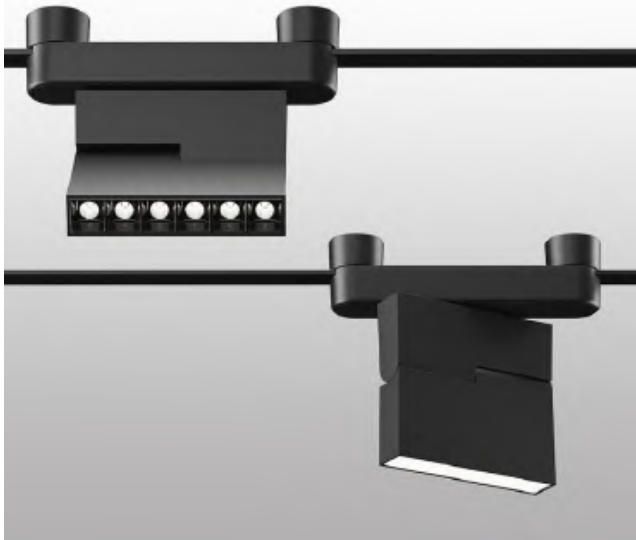
# DC48V Sky Rail Series Light module (Grille Light)



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-XTD-R24T -D-20W	20W	24°/36°	Ra≥90	3000K/3500K /4000K/5000K	48V	Black	IP20	502*26*57mm
TG-XTD-R48T -D-40W	40W	24°/36°	Ra≥90	3000K/3500K/40 00K/5000K	48V	Black	IP20	933*26*57mm
TG-XTD-R84T -D-70W	70W	24°/36°	Ra≥90	3000K/3500K/40 00K/5000K	48V	Black	IP20	1580*26*57mm
TG-XTD-R108T -D-90W	90W	24°/36°	Ra≥90	3000K/3500K/40 00K/5000K	48V	Black	IP20	2011.5*26*57mm



# DC48V Sky Rail Series Light module (Wall Washer Light)



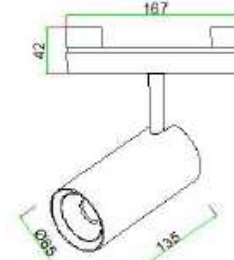
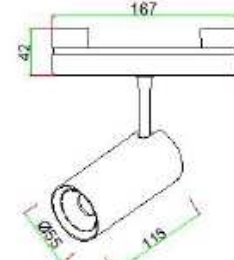
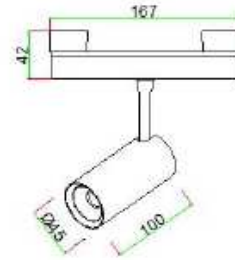
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-BXQD-21-6W	6W	24°/36°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	L112*W23*H87mm
TG-BXQD-22-12W	12W	24°/36°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	L220*W23*H87mm
TG-BXQM-11-6W	6W	100°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	L118*W23*H87mm
TG-BXQM-12-12W	12W	100°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	L231*W23*H87mm

# DC48V Sky Rail Series Light module (Spot Light)



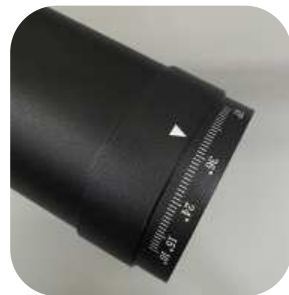
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-SP-011-12W	12W	15/24/ 36°	Ra≥90	3000K/3500K /4000K/5000K	48V	Black	IP20	D50*130mm
TG-SP-012-18W	18W	15/24/ 36°	Ra≥90	3000K/3500K/400 0K/5000K	48V	Black	IP20	D65*156mm
TG-SP-013-24W	24W	15/24/ 36°	Ra≥90	3000K/3500K/400 0K/5000K	48V	Black	IP20	D76*182mm

# DC48V Sky Rail Series Light module (Spot Light)



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-SP-021-6W	6W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D45*100mm
TG-SP-022-12W	12W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D55*115mm
TG-SP-023-18W	18W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D65*135mm

# DC48V Sky Rail Series Light module (Multifunction Spot Light)



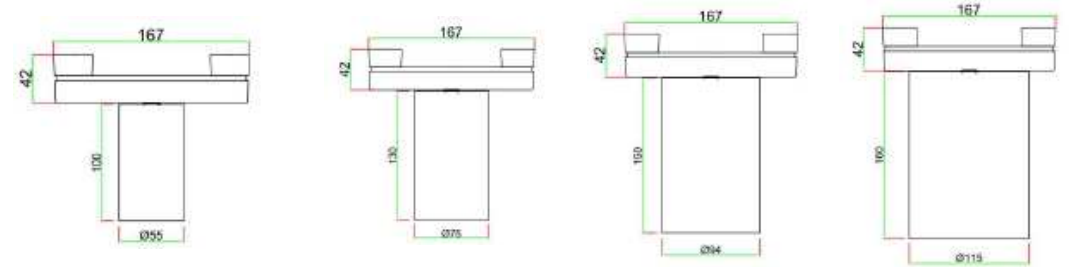
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-SP-032-10W	10W	Adjustable 10°-55°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	D55*115mm
TG-SP-033-18W	18W	Adjustable 10°-55°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	D65*135mm
TG-SP-042-6W	6W	15°/24°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	D40*95mm
TG-SP-062-SDA-6W	6W	15°/24°/36°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	D40*H100mm
TG-SP-063-SDA-12W	12W	15°/24°/36°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	D52*H120mm
TG-SP-064-SDA-18W	18W	15°/24°/36°	Ra≥90	3000K/3500K/ /4000K/5000K	48V	Black	IP20	D63*H140mm

# DC48V Sky Rail Series Light module (Multifunction Spot Light)



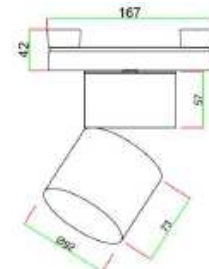
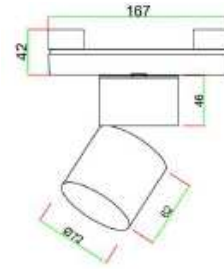
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
ZC-SP-69C-6W	6W	15°/24°	Ra≥90	3000K/3500K /4000K/5000K	48V	Outer White& Inner Black	IP20	D71*50mm
ZC-SP-92C-9W	9W	15°/24°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Outer White& Inner Black	IP20	D94*34mm
TG-HM-Y075-10W	10W	24°/50°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D75*35mm
TG-HM-Y105-18W	18W	24°/50°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D105*35mm

# DC48V Sky Rail Series Light module (Downlight)



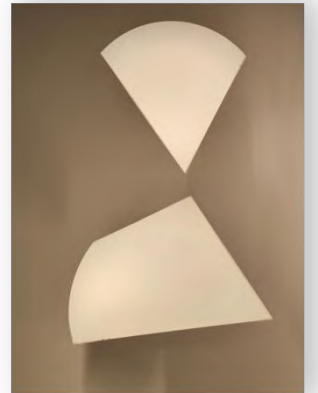
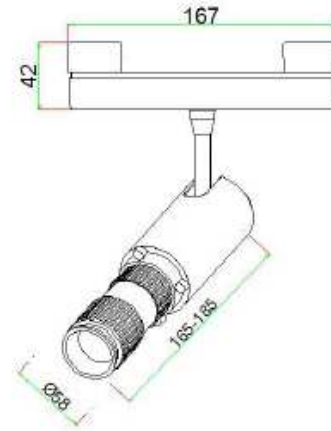
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-DW01-R55-6W	6W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D55*100mm
TG-DW01-R75-12W	12W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D75*130mm
TG-DW01-R94-18W	18W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D94*150mm
TG-DW01-R115-24W	24W	15°/30°/45°	Ra≥90	3000K/3500K/ 4000K/5000K	48V	Black	IP20	D115*160mm

# DC48V Sky Rail Series Light module (Downlight)



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-DW02-R72-12W	12W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D72*H108mm
TG-DW02-R92-18W	18W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D92*H130mm
TG-YQ100Q-6W	6W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D100*100mm
TG-YQ110S-12W	12W	24°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D110*110mm

# DC48V Sky Rail Series Light module (Intercept Light)



Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-CG-048-12W	12W	20-34° adjustable of lighting shape	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D48*185mm



# Color Bridge Series VS Sky Rail Series Products Difference

## 1. Differences between the two track systems:

- The Color Bridge is available in **5 colors**(black,yellow,blue,green,red), while the Sky Rail is **only available in black**.



- The Color Bridge has **2 conductors**, while the Sky Rail has **6 conductors** (two steel support wires on each side and four internal wires, two for power and two for signal).



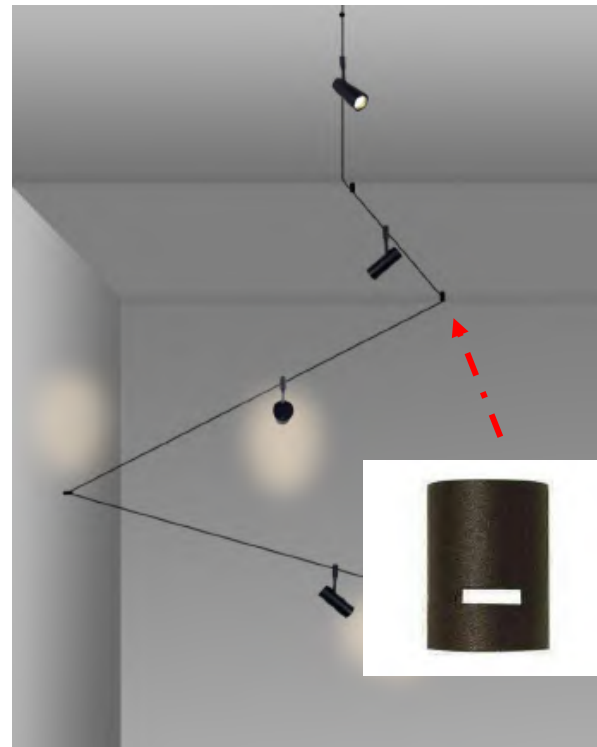
- The dimensions of the Color Bridge are **W9×H4.4mm**, while the Sky Rail is larger at **W17×H4mm** (the larger Sky Rail is still smaller than the Color Bridge).

# Color Bridge Series VS Sky Rail Series

## Products difference

### 2. Differences in Installation Fixtures and Styles

- The installation of the Sky Rail requires a tensioner at both ends, and it needs to be installed on a load-bearing wall. The installation fixture for the Color Bridge is a lightweight version that can be installed on both walls and ceilings.
- The Sky Rail can only run in a straight line and needs to be installed straight. The Color Bridge can be made into different shapes and styles, including curves, drops, and bends.



The Sky Rail can only be straight



The Color Bridge can be bent

# Color Bridge Series VS Sky Rail Series Products difference

## 3. Differences in installation and dimming

- The installation fixture of the Sky Rail has two ends, while the installation fixture of the Color Bridge is single-ended.
- Sky Rail can use smart controlled lighting system with adjustable brightness and CCT., while Color Bridge currently only supports wireless, 0-10V, and TRIAC dimming for some lamps.



Sky Rail Series



Digital Addressable Lighting Interface



涂鸦智能

**0-10V dimming**



**TRIAC**



Color Bridge Series



涂鸦智能

**0-10V dimming**



Bluetooth

**TRIAC**

# FAQ for product applications:



## **1. Do flexible track light need a transformer?**

Both the Color Bridge and Sky Rail are low-voltage systems, so a power source must be provided in advance. If there is no suitable location for concealment, a ceiling-mounted option can be used. Remember not to connect it directly to the mains.

## **2. What material is the track made of?**

The flexible track contains multi-core braided conductive copper wire, and the wrapping material is a hybrid silicone material. It has been tested thousands of times for flexibility.

## **3. How long can it be?**

The tightening device of the Sky Rail series has a reinforced load-bearing design, so it can be up to 10 meters without sagging. (If longer is needed, it can be connected every 7-10 meters.) But maximum can not over 15 meters

## **4. Is installation complicated?**






The tightening device of the Sky Rail series requires professional guidance for installation, and our company provides video guidance. After installation, the installation of the light fixtures is straightforward.

As for the Color Bridge series, installation is simple. Just pay attention to the beauty of the wire stripping and connecting transformer, and the fixing and installation are easy.






# Product Voltage Drop Test:

To ensure clear and precise usage for our customers, we have conducted the following voltage drop test:

1<sup>st</sup> measured data: 15M Color Bridge wire

No#	Line length (m)	Power-Driver+Total lamps (W)	Supply voltage (V)	Measured voltage at end of line(V)	Actual Voltage drop (V)	condition	Picture data
1	15	57.2	47.8	47.4	0.4	Voltage drop < 2V	
2	15	92.5	47.8	47.2	0.6	Voltage drop < 2V	
3	15	165.3	47.8	46.7	1.1	Voltage drop < 2V	
4	15	204.7	47.8	46.4	1.4	Voltage drop < 2V	
5	15	<a href="#">250.6</a>	47.8	46.0	1.8	Voltage drop < 2V	

2<sup>nd</sup> measured data: 25M Color Bridge wire

No#	Line length (m)	Power-Driver+Total lamps (W)	Supply voltage (V)	Measured voltage at end of line(V)	Actual Voltage drop (V)	condition	Picture data
1	25	44.6	47.8	47.3	0.5	Voltage drop < 2V	
2	25	68.4	47.8	47	0.8	Voltage drop < 2V	
3	25	101.3	47.8	46.5	1.3	Voltage drop < 2V	
4	25	<a href="#">139.2</a>	47.8	46.1	1.7	Voltage drop < 2V	
5	25	171.6	47.8	45.7	2.1	Voltage drop < 2V	

# Product Voltage Drop Test:

Summary: Theoretical Data							
<b>Remark:</b> 1、 Single line current not exceeding 10A, i.e. total power not exceeding 480W, $P=48V \times 10A=480W$ 2、 Due to the lamp input voltage, it is recommended to control the voltage drop no more than 2V							
<b>Interpretation:</b> When total length of rail is 15 meters, the maximum total line power (recommended total lamp wattage) is less than 250W (Note: > 250W, wattage of the last lamp will be reduced by more than 30%)							
NO#	Line length (m)	Total line power - recommended total lamp wattage MAX (W)	Theoretical voltage drop (V)	Actual voltage drop (V)	Replenish	condition	Remark
1	5.00	462	1.2			Voltage drop < 2V	Theoretical inference
2	10.00	381	1.98			Voltage drop < 2V	Theoretical inference
3	15.00	<u>250</u>	1.95	1.8	First round of field measurements, data close	Voltage drop < 2V	
4	20.00	190	1.98			Voltage drop < 2V	Theoretical inference
5	25.00	<u>139</u>	1.81	1.7	Second round of field measurements, data close	Voltage drop < 2V	
6	30.00	127	1.98			Voltage drop < 2V	Theoretical inference
7	35.00	109	1.98			Voltage drop < 2V	Theoretical inference
8	40.00	95	1.98			Voltage drop < 2V	Theoretical inference
9	45.00	85	1.98			Voltage drop < 2V	Theoretical inference
10	50.00	76	1.98			Voltage drop < 2V	Theoretical inference

Please refer to the red boxes for the corresponding length and total power for the product voltage drop range when single-end powered.

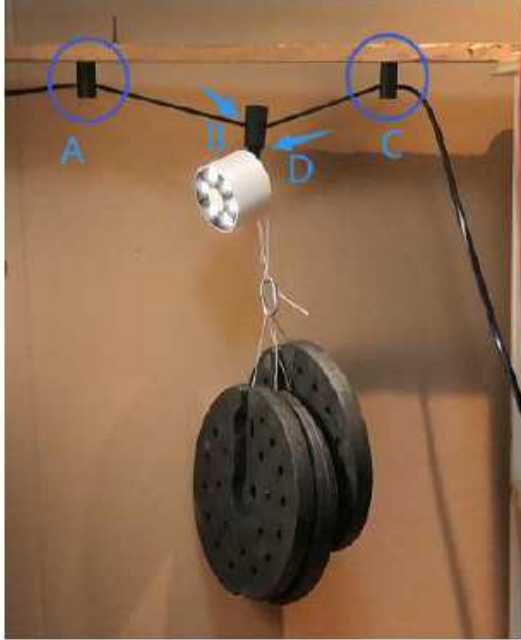
**Recommendation for single-group power supply is best for application between 15-20 meters.**

# Regarding the load-bearing part: Color Bridge Series



Test requirements: According to the actual installation requirements, install one lamp between two fixed points (with the lamp in a powered state), and apply an additional 9kg weight block to the lamp, hanging for 2 months, as shown in Figure 1.

Figure 1

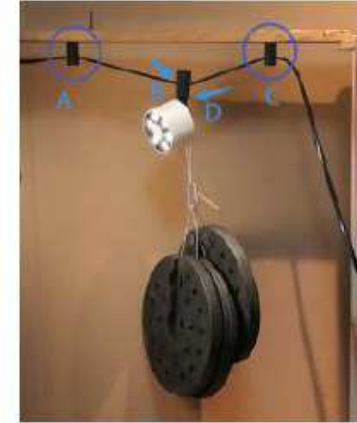


**Test result:**  
The weight between two fixed points cannot exceed 3kg, which for 1 lamp or multiple lamps.



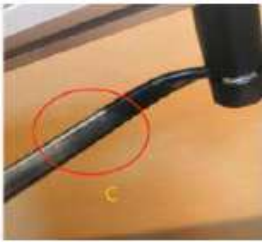

Single counterweight block : 3.034 KGS



TOTAL : 3.034 KGS\*3pcs= **9.102 KGS**



Experimental effect :

A-point line :	Result	B-point line :	Result
	There are slight white indentations and no skin breaks.		There are slight white indentations and no skin breaks.
C-point line :	Result	D-point : TD01	Result
	There are slight white indentations and no skin breaks.		There are no cracks or deformations found at point D of the TD01 power head.

Summary of the small test: **Qualified.**

The surface of the 2-line flexible track at points A, B, and C is intact and undamaged.

The surface of the TD01 power supply head D is intact, without any movement/slipping/looseness/cracks/deformation, and it is firm and stable.

The lamp has been moved to another position and is still in normal use.

# Regarding the load-bearing part: Sky Rail Series



Single counterweight block : 0.64 KGS



MAX 24W spot lamp , 0.549 KGS



**Test method:** According to the actual lighting requirements, install 5 counterweight blocks (single counterweight block: 0.64 KGS) between two fixed points, simulate lighting installation, with each counterweight block approximately 0.8 meters apart and hanging for 2 months, as shown in Figure 1.

图1



## Summary of the mini test: Qualified

Its 4-line flexible track still maintains a straight effect after 2 months.

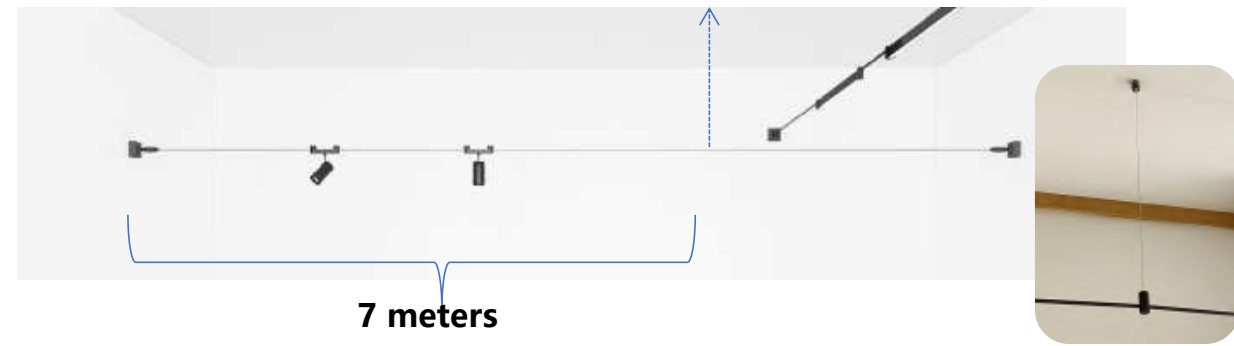
The wall tensioner is intact on the surface, without any movement/slipping/looseness/cracks/deformation, and is firm and stable.

## Conclusion:

Between two fixed points, a 5-meter flexible track can accommodate an average of 7 lamps (single lamp MAX 0.6 KGS), while still maintaining a straight state.

## Note:

Currently, the maximum lamp weight is 0.549kgs < 0.6 kgs. If the track exceeds 7-10 meters, it is recommended to add one fixed point (optional suspension type).





03

**Application**



# Application display: Office



# Application display: Restaurants



# Application display: Commercial Shops



## Application display: Home space

It can be used independently as a dining pendant light, a single-head small pendant, or it can be combined into partitions, climbing lights, staircase-shaped lights, etc.



# Application display:



# Application display:





# Application display :



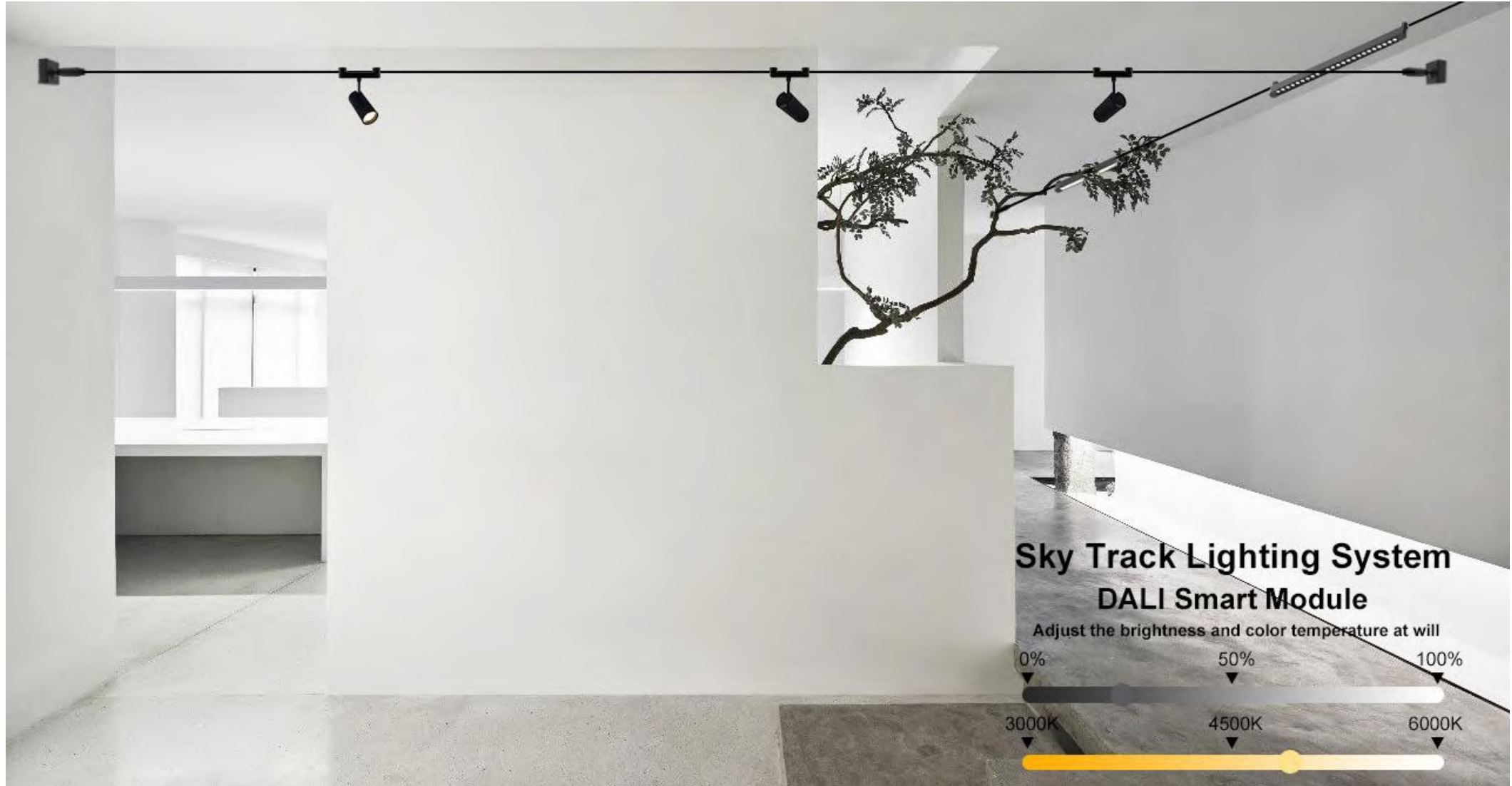
## Application display

Various office spaces (reception, lobby, office desk, tea table)



## Application display

Various office spaces (reception, lobby, office desk, tea table)



## Application display

Various office spaces (reception, lobby, office desk, tea table)



# Application display

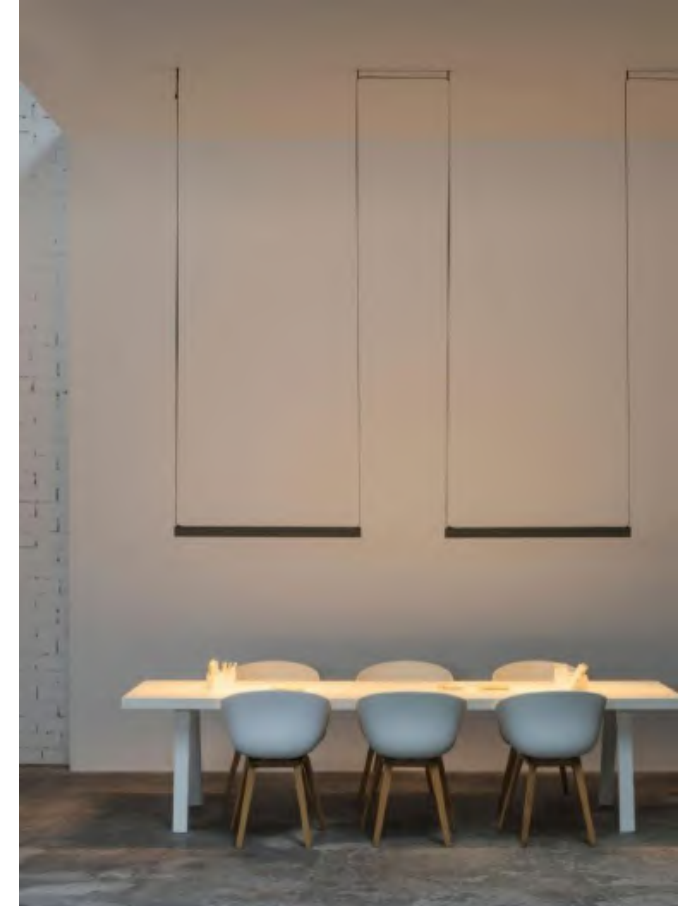
Various office spaces (reception, lobby, office desk, tea table)



Here are design inspiration from other brands:



or online platforms...



*PS:Some pictures are from other brands and network,only for reference.*

## Various commercial display, display space



*PS:Some pictures are from other brands and network,only for reference.*

**Various irregular ceiling spaces, or wabi-sabi style, industrial style, etc., which are difficult to install, or used in homestays.**



*PS:Some pictures are from other brands and network,only for reference.*



## Various personalized dining spaces



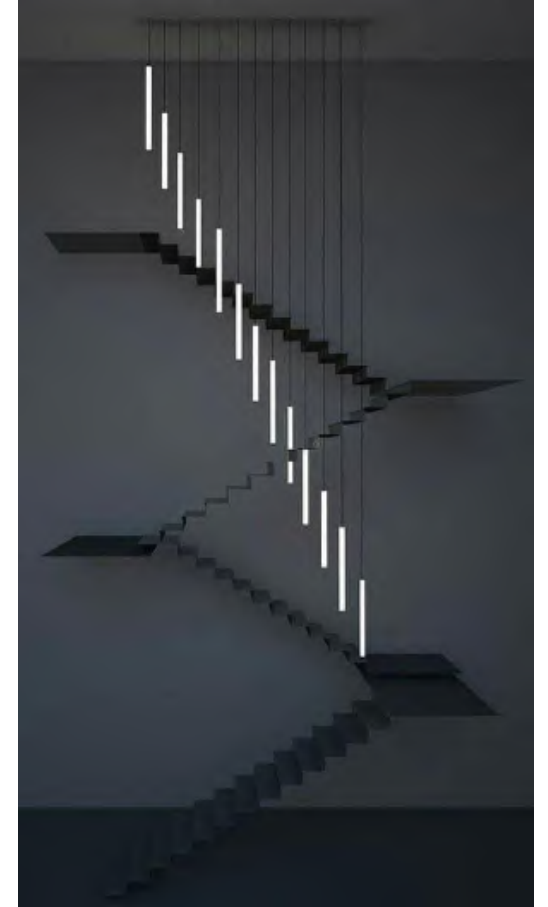
*PS:Some pictures are from other brands and network,only for reference.*

## Various personalized spaces



*PS:Some pictures are from other brands and network,only for reference.*

## Various personalized spaces



*PS:Some pictures are from other brands and network,only for reference.*

***More creative applications are  
waiting for you to unlock.***

04

**LEAVES company introduction**

# WHY AM I



LEAVES Lighting Technology Co., Ltd. is a brand under World Of Lights Group.

our factory established on 2002 and continuesly focuses on creating, researching and manufacturing lighting products, under ISO9001 strict quality control.

Leaves is dedicated on high quality, high performance and high reliable lighting products to global market.

Leaves is the pioneer of Led Flexible Track Light with multiple patents, easliest patents for flexible track light dated from Year 2009 and 2015, referring to a variety of fields such as invention patents, utility model patents, appearance patents, etc.



LEAVES Team



Multiple patents escort (including invention patents, utility model patents, etc.),





Product showroom display schemes



Hot new products are highly sought after by designers.

Interview by HKTDC

Hongkong Official Report



News Report





Magazine reports



Design Week Official Report



Interview by RTA Guangdong

**THANK YOU !**

**Factory located: Zhongshan City**