



Leaves

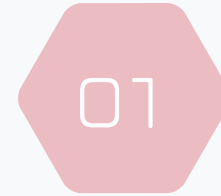


SKY RAIL SYSTEM

Leaves LED Lighting

2023.04.10

CONTENTS



Product overview



Product advantage&function



Applications



About Leaves



01

Product overview



Why need flexible track?



Customized design

More and more free personalized DIY customization projects request



Difficult Construction

Embedded installation is complex and requires a suspended ceiling, resulting in high labor, cost, and ceiling costs.



Inflexible modification

For renovation projects or spaces where it is not possible to install lights in the ceiling



Friendly environment- Recycle

The fact that the material can be used is the trend of the future. Our soft track series are also designed according to the concept of being used

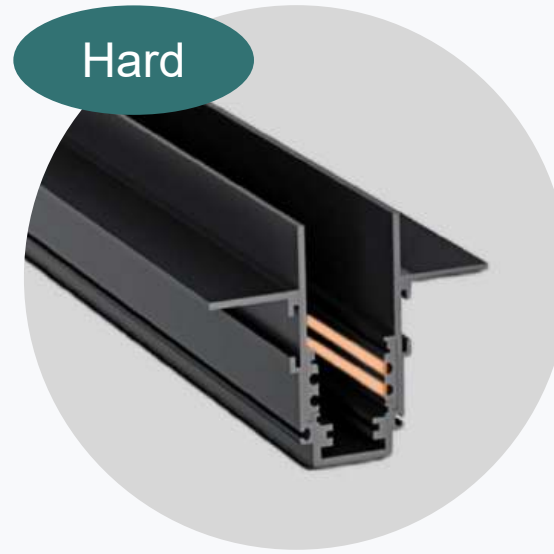


Evolution of track lighting

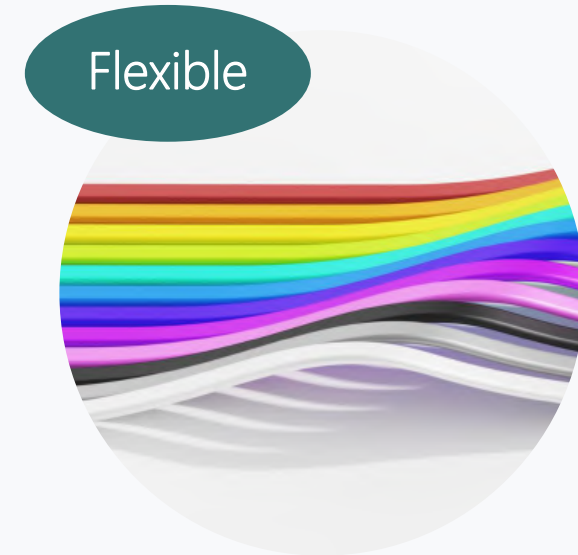
Track lighting products are mainly used for commercial and home lighting. Thanks to the flexibility of the movable lights, it has undergone several evolutionary changes over the years and has now entered the era of flexible tracks!



1st Generation:
High Voltage Hard Track



2nd Generation:
Low Voltage Hard Track

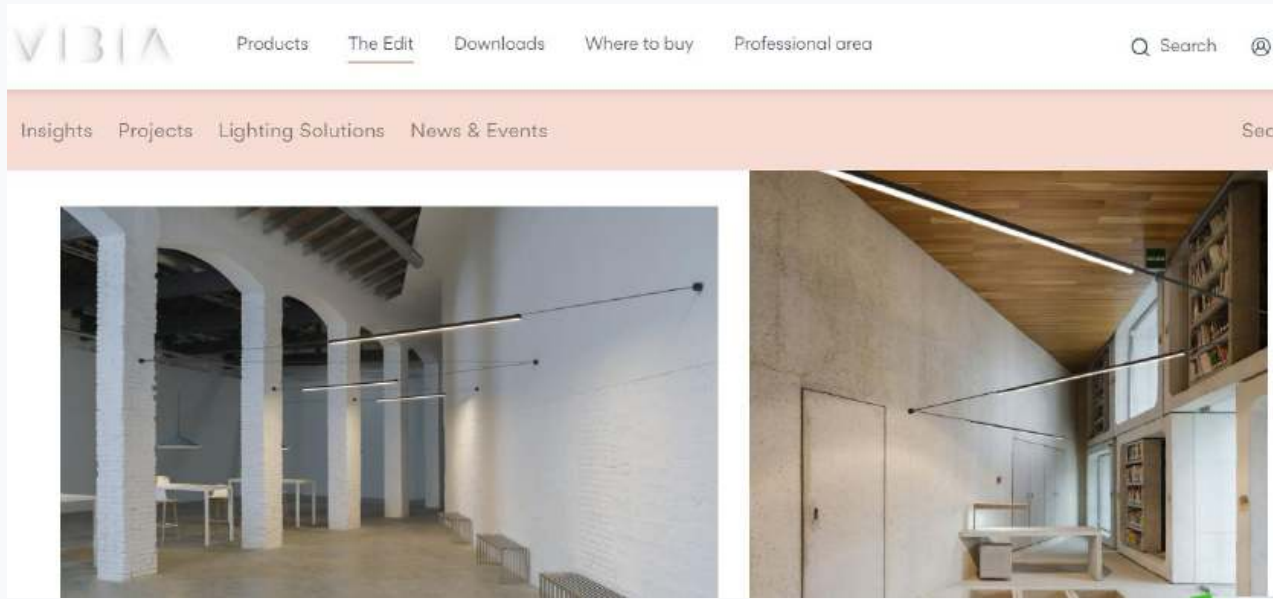


3rd Generation:
Low Voltage Flexible Track

Comparison of applications of these three types of tracks

	Line	Installation type	Installation convenience	Transportation	Shape	Power supply
High Voltage Hard Track	2-line, 3-line, 4-line	Surface-mounted, embedded	Easy installation	Relatively heavy with high transportation cost	Difficult to shape	External driver is not needed.
Low Voltage Hard Track	2-line, 4-line, 6-line	Surface-mounted, pre-embedded	Complicated pre-embedding process requiring professional machine cutting	Large volume with high transportation cost	Difficult to shape	Driver power reserve is required
Low Voltage Flexible Track	2-line, 4-line	Surface-mounted	Easy installation, can be cut to any length	Roll-shaped, low transportation cost	Suitable for various DIY shapes	Driver power reserve is required

The market prospect of flexible track systems



- 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.

Artemide



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Sphere

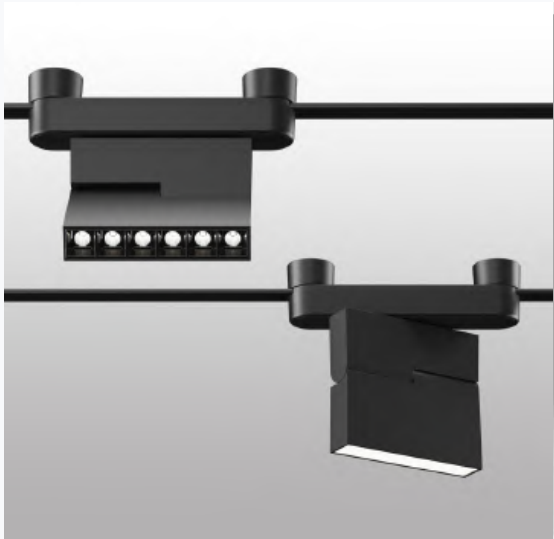
360° Diffusion lighting

distributes light equally in all directions (360°). It attracts a relaxed gaze towards the point of light, and creates a calm, very comfortable atmosphere. The light sphere bathes all surfaces of the space, producing a peaceful, richer and extremely homogenous ambience.

Spotlight

Directed diffusion lighting emits a soft light that generates low contrasts between the illuminated areas and the shadows cast. It is ideal for reading situations or when the light output is visible, as it does not produce glare.

Accent lighting emphasizes objects or architectural elements with intensive cones of light. Luminance contrasts attract the eye and bring the illuminated objects into the foreground. The light output is directed towards the object or architectural element and not towards the person, in order to avoid glare.



Semisphere

Directed diffusion lighting

emits a soft light that generates low contrasts between the illuminated areas and the shadows cast. The opaque part of the shade helps to direct the light through the diffuser, providing illumination that is both peaceful and concentrated at the same time.

Linear Low UGR

High-efficiency, low-glare general linear lighting offers medium brightness and clarity of forms. Direct illumination, extended beam and luminaire performance enable installations with high-energy efficiencies and low-glare levels below UGR<19.

High-comfort, low-glare general linear lighting provides high levels of illumination and comfort with UGR levels below 19. It is also ideal for work or meeting areas.



Leaves Flexible track have multi fixtures match various lighting distribution

Leaves flexible track light is not only a light, it's 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.

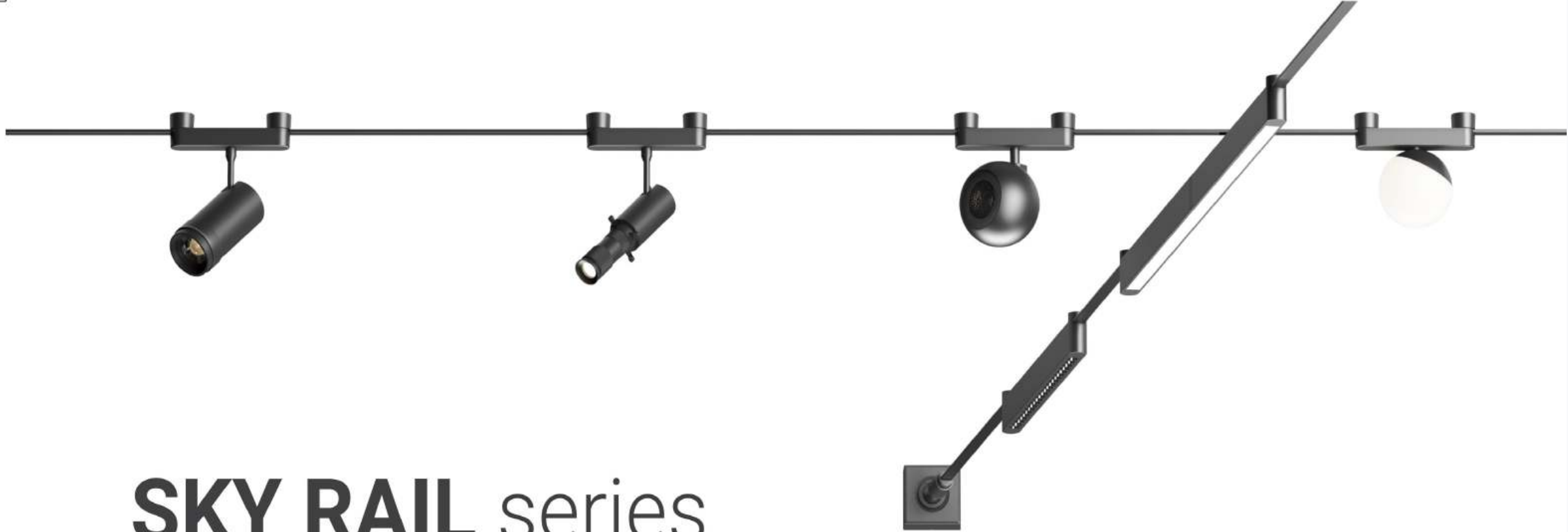


When adjusting the layout of the space or when additional lighting is needed, it's easy to add lights with flexible power options.



02

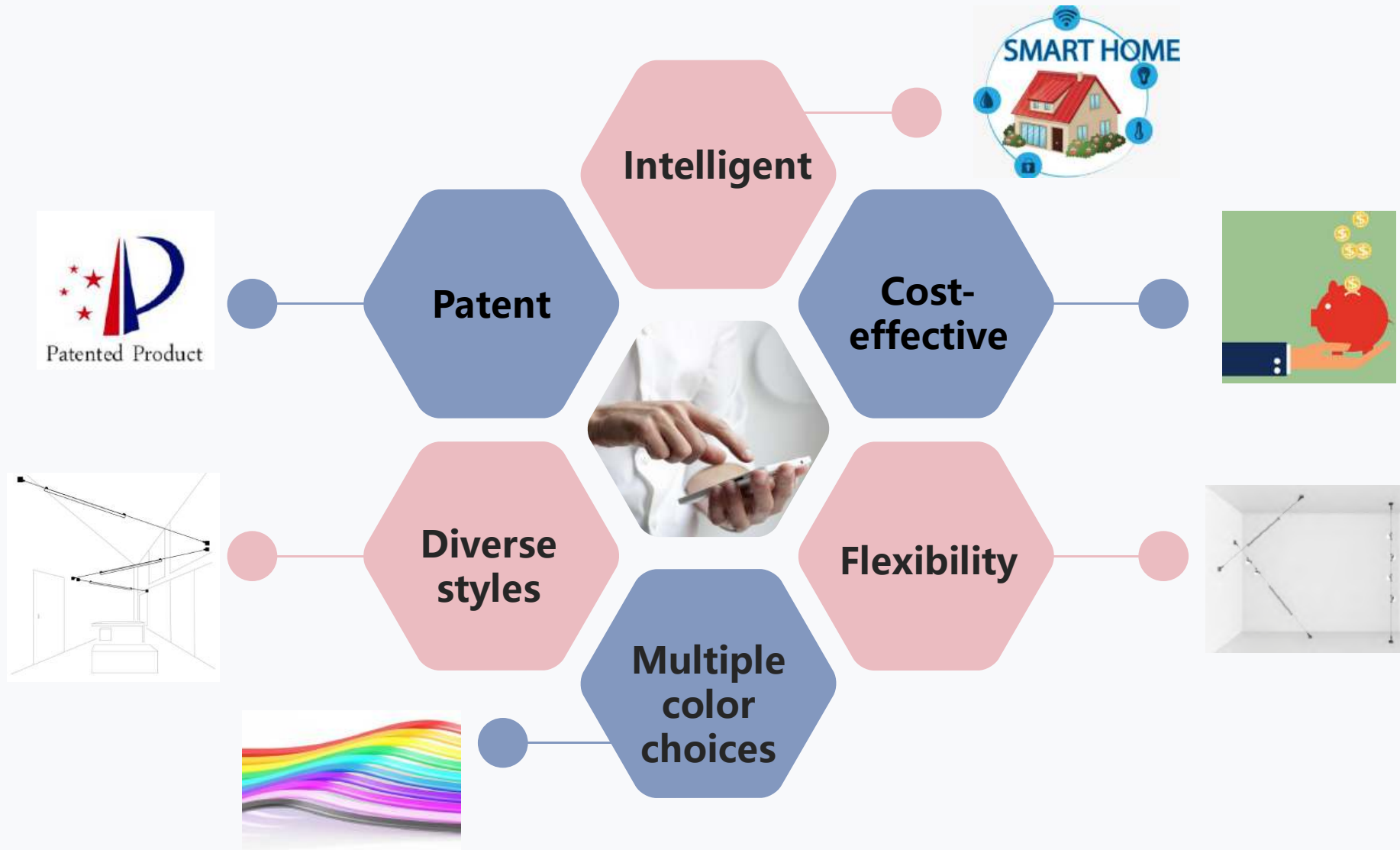
Advantage&Function of SKY RAIL



SKY RAIL series

Advantage

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

(32) **United States Patent**
Wong

(10) Patent No.: **US 9,147,946 B1**
(45) Date of Patent: **Sep. 29, 2015**

(54) **ELECTRICAL CABLE CONNECTOR**

(71) Applicant: **Memie Mei Mei Wong, Hong Kong (CN)**

(72) Inventor: **Memie Mei Mei Wong, Hong Kong (CN)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14291308**

(22) Filed: **May 30, 2014**

(51) Int. Cl.

(56) **References Cited**
U.S. PATENT DOCUMENTS

5,601,648 A	2/1997	Boon	
5,800,040 A *	3/1999	Ashoo	430/417
5,975,538 A *	11/1999	Leiby	430/410
6,159,835 A *	12/2000	Smith, III	430/391
6,164,650 B1	6/2002	Nehou-Engelberts	

* cited by examiner

Primary Examiner — Phuong Dinh
(74) Attorney, Agent, or Firm — Leydig, Voit & Mayer, Ltd.

(57) **ABSTRACT**
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 ends protruding



US007635279B1

(12) **United States Patent**
Wong et al.

(10) Patent No.: **US 7,635,279 B1**
(45) Date of Patent: **Dec. 22, 2009**

(54) **ELECTRICAL CABLE CONNECTOR**

(76) Inventors: **Memie Mei Mei Wong, 7th Floor, Block 2, Leader Industrial Centre, 188-202 Texaco Rd., Tsuen Wan, New Territories (HK); Sam Yan Sum Wong, 7th Floor, Block 2, Leader Industrial Centre, 188-202 Texaco Rd., Tsuen Wan, New Territories (HK)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

(56) **References Cited**

6,764,690 B1	6/2002	Nehou-Engelberts	
7,065,536 B1	6/2006	Wong et al.	
7,156,886 B1 *	12/2007	Schallo et al.	430/403
7,420,188 B2 *	9/2008	Mirkovitch et al.	430/404

* cited by examiner

Primary Examiner — Khien Nguyen
(74) Attorney, Agent, or Firm — Leydig, Voit & Mayer, Ltd.

(57) **ABSTRACT**



质量管理体系认证证书
注册号: 0302120012010001

中山市横栏镇爱威灯饰电器厂

依据标准: GB/T 19001-2008/ISO 9001:2008

认证范围: 生产、销售、安装、维修、售后服务

获证日期: 2009年12月22日

有效期至: 2012年12月22日

认证机构: 广东质检认证有限公司



发明专利证书

发明名称: 照明灯具

发明人: 申仁南

专利权人: 申仁南

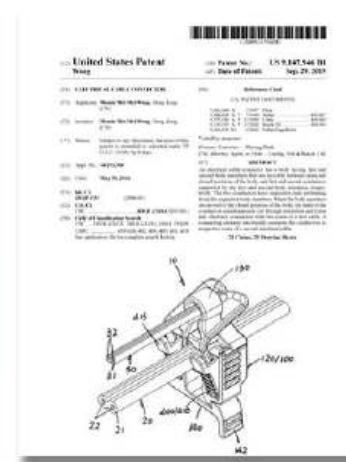
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专利号: ZL 2009 1 0000000.0

IPC分类号: H01L 23/00

专利代理机构: 广东质检认证有限公司



United States Patent

Patent No. US 9,147,946 B1

Date of Patent: Sep. 29, 2015

FIG. 1 is a perspective view of an electrical cable connector in an open position.

FIG. 2 is a perspective view of the electrical cable connector in a closed position.

FIG. 3 is a cross-sectional view of the electrical cable connector in a closed position.

FIG. 4 is a cross-sectional view of the electrical cable connector in an open position.

FIG. 5 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 6 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 7 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 8 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 9 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 10 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 11 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 12 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 13 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 14 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 15 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

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FIG. 20 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

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FIG. 22 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 23 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

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FIG. 61 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

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FIG. 69 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 70 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 71 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 72 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 73 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 74 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 75 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 76 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

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FIG. 81 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 82 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 83 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 84 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 85 is a perspective view of the electrical cable connector in a closed position, showing the conductors.

FIG. 86 is a perspective view of the electrical cable connector in a closed position, showing the conductors.



实用新型专利证书

发明名称: 照明灯具

发明人: 申仁南

专利权人: 申仁南

申请日期: 2009年12月22日

公告日期: 2010年12月22日

专利号: ZL 2009 2 0000000.0

IPC分类号: H01L 23/00

专利代理机构: 广东质检认证有限公司



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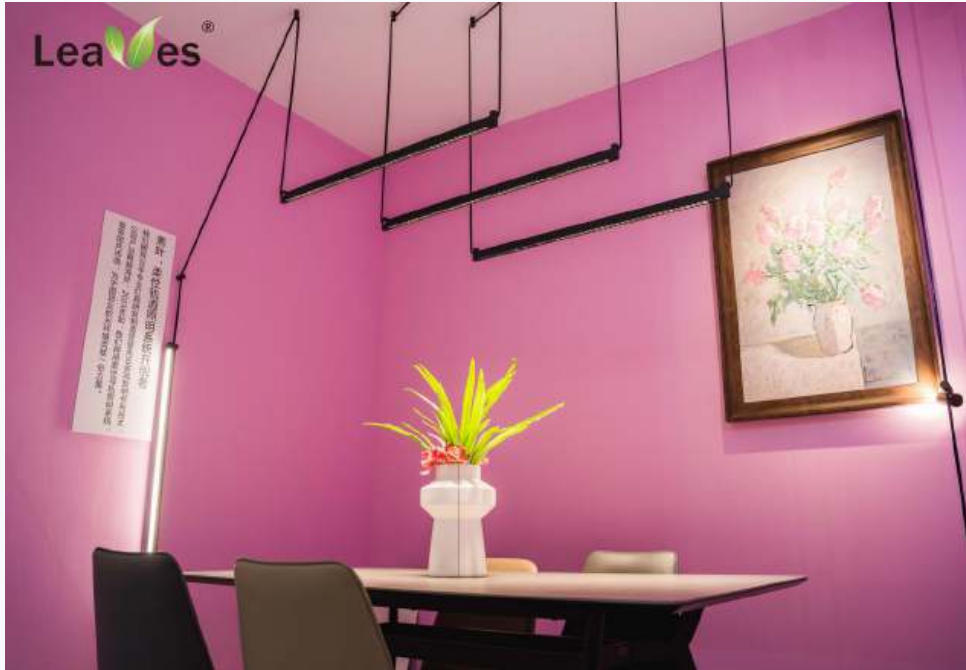
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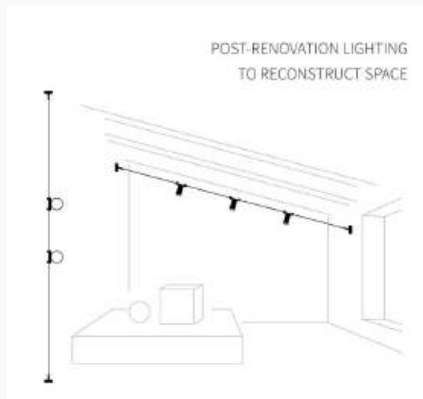
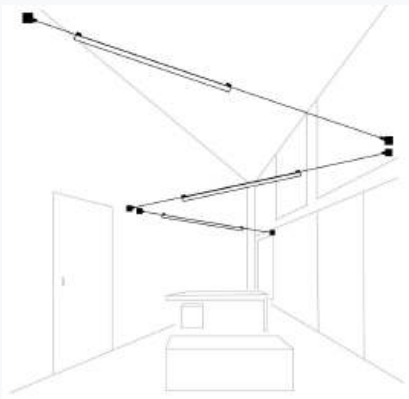
专利代理机构: 广东质检认证有限公司

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:

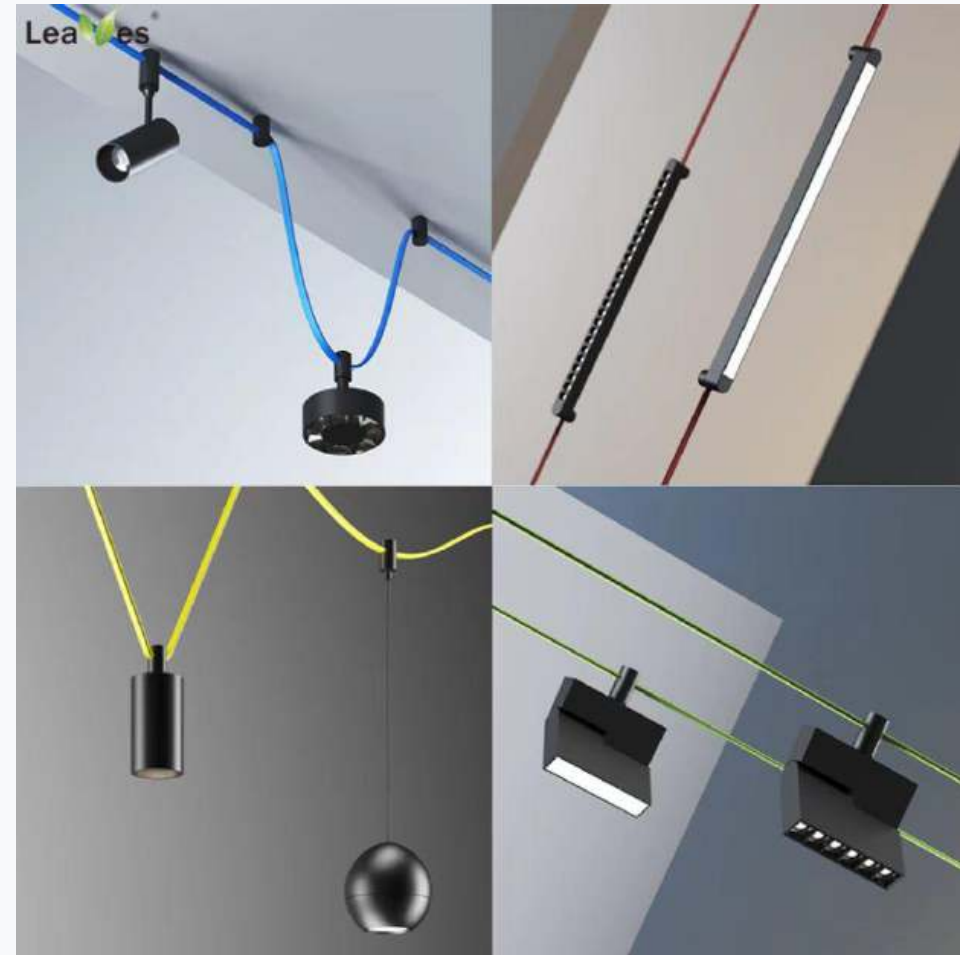
Compared to traditional black and white tracks, LEAVES flexible track lighting offers multiple color choices to meet customers' different aesthetic needs.

Traditional Track Light



VS

LEAVES Flexible Track Light

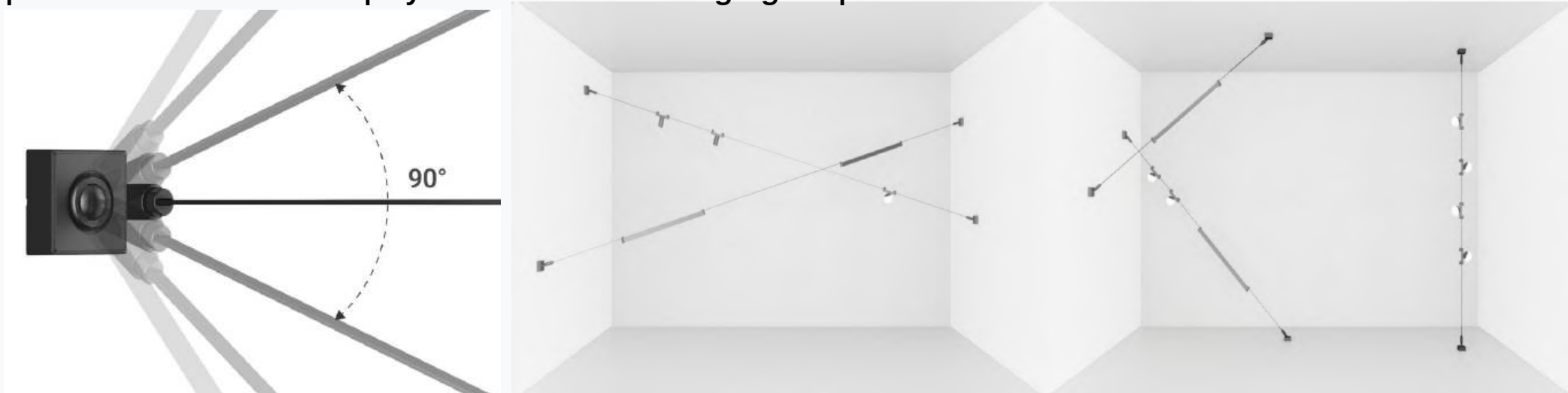


4. Flexibility:

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.



The spherical rotation axis helps you create ever-changing shapes



5. Cost-effective:

5.1 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



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

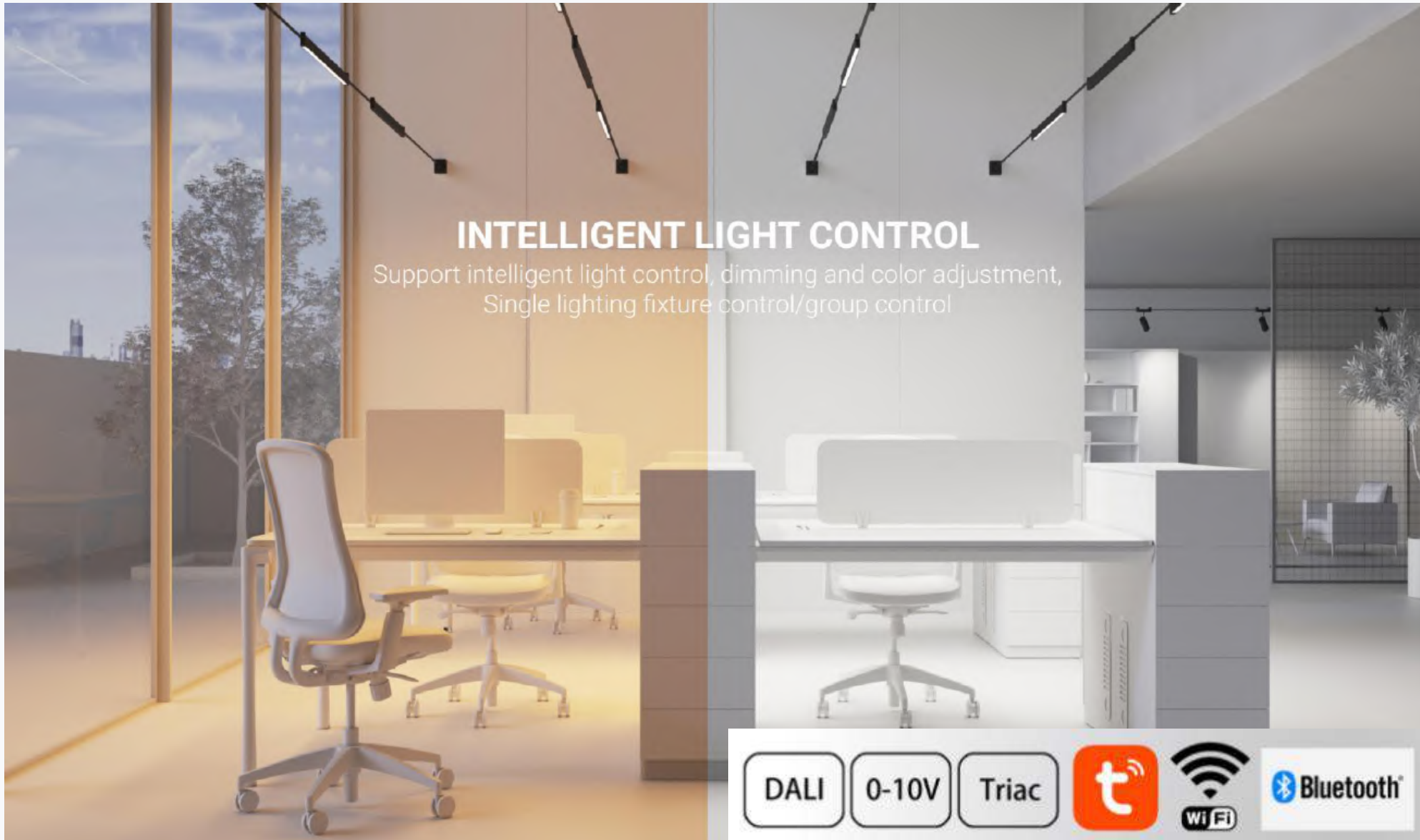
VS

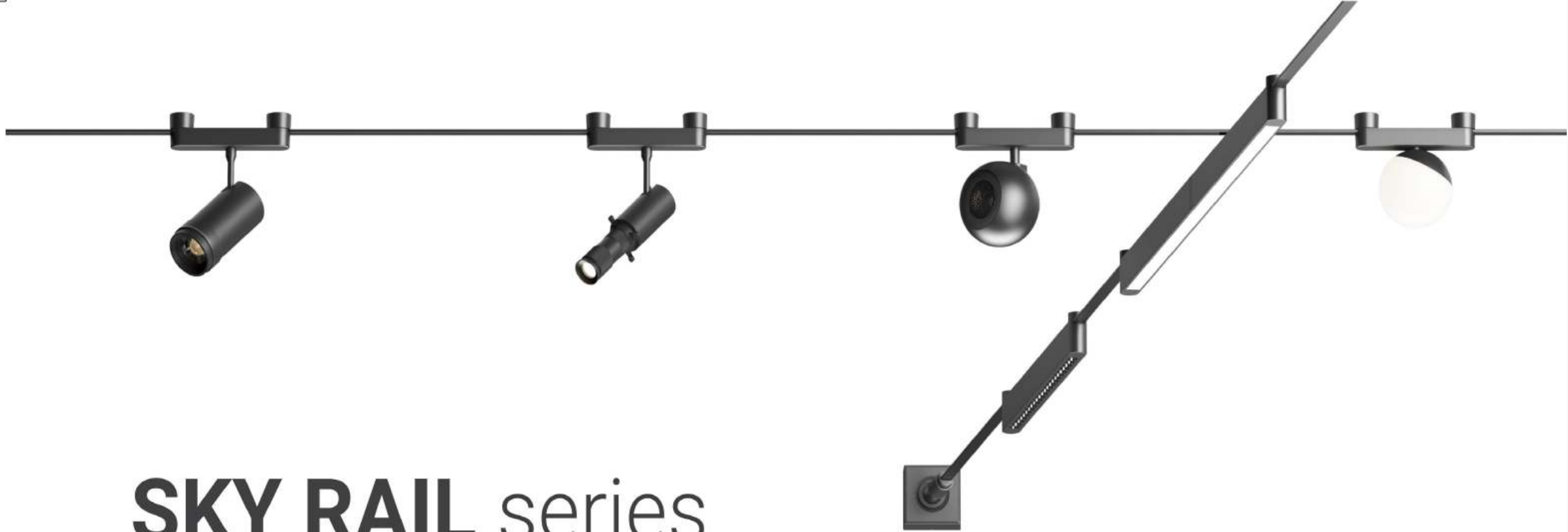


One roll is 100-meter track.
There are 2,300 meters.

6. Intelligent application:

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

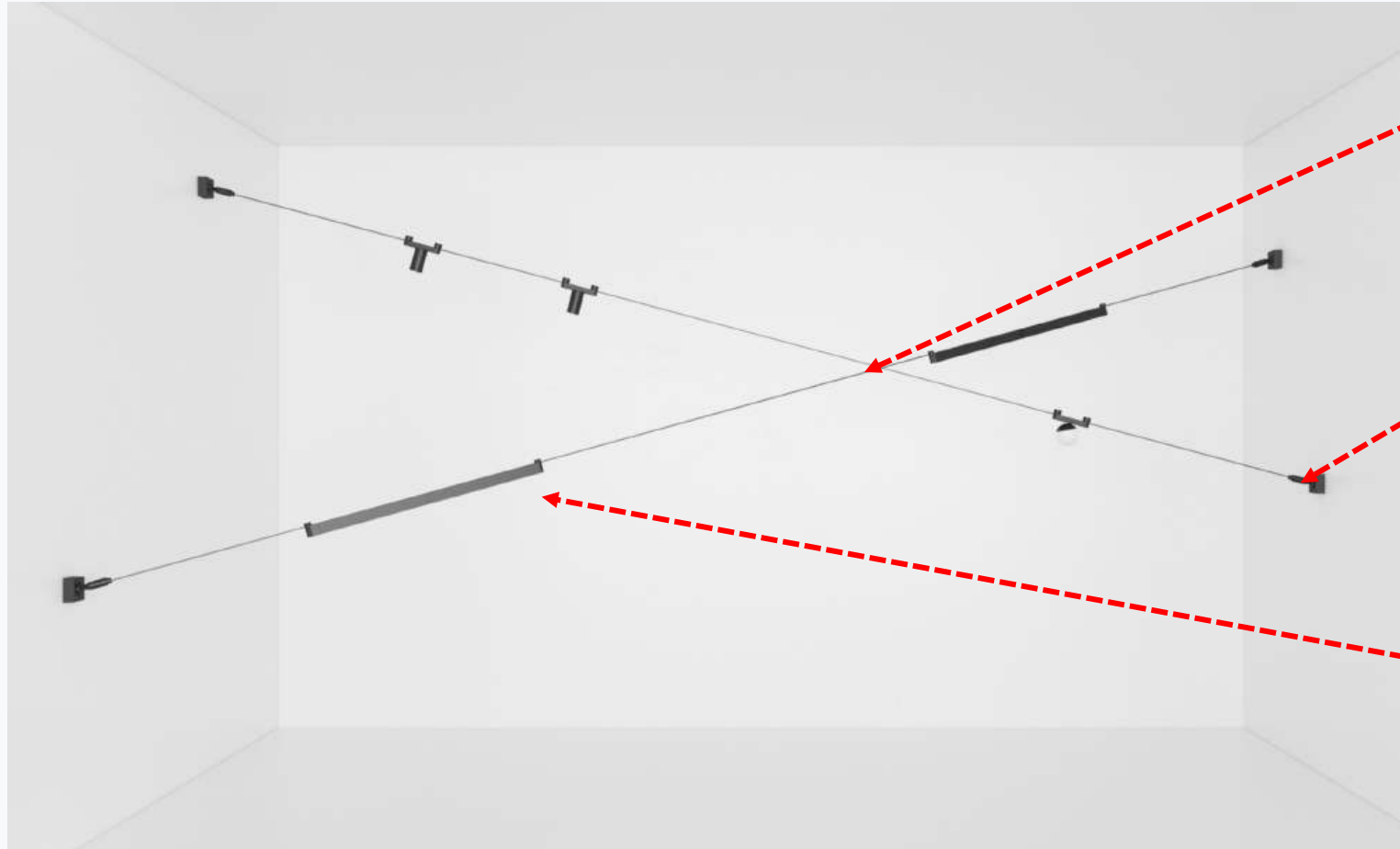




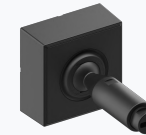
SKY RAIL series

Function

Sky rail components



Description: Sky Rail Flexible track
Item No.: DGX



Description: Tighten
Item No.: TG-SJQ
Size: 86*86* (155-185) mm
Material: 304 steel+Aluminum



Various Lighting modules

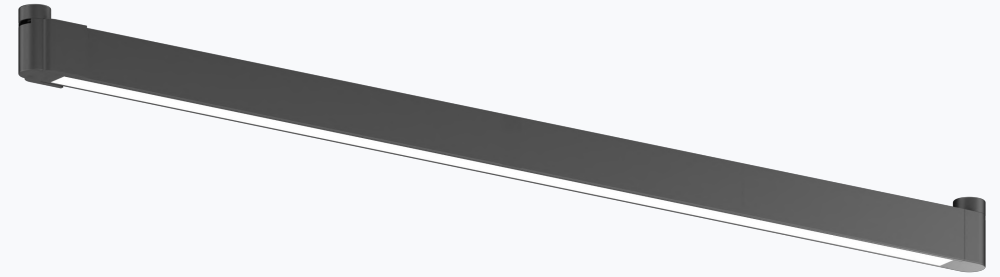
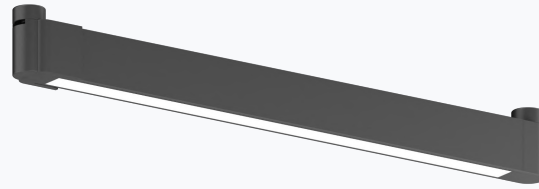


Description: Sky Rail fixed accessories
Item No.: TG-GDJ
Size: D26mm*H46mm
Material: Aluminum
Function: When the hoisting length is long, it should be used with wire rope to reinforce and prevent droop.

Multiple Products to meet various applications

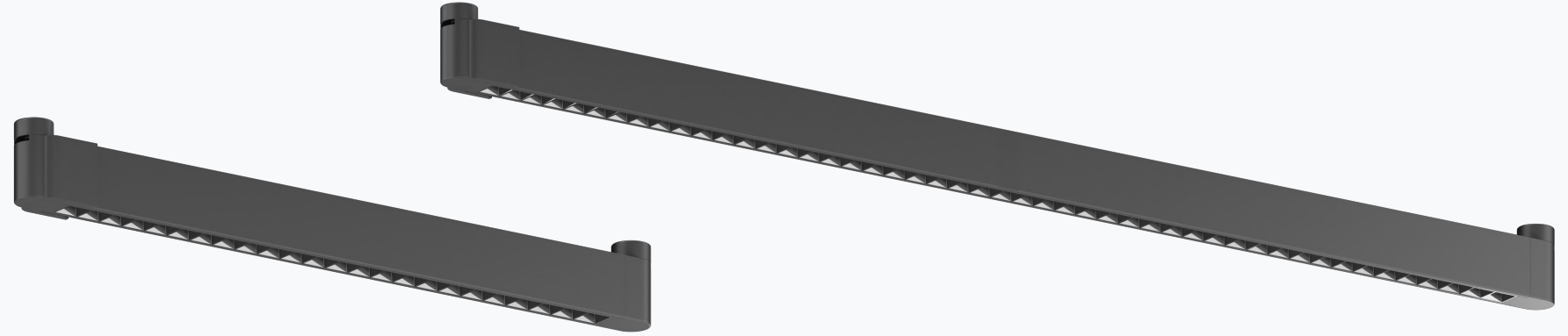


48V Sky Rail Series Light module - Flood Light



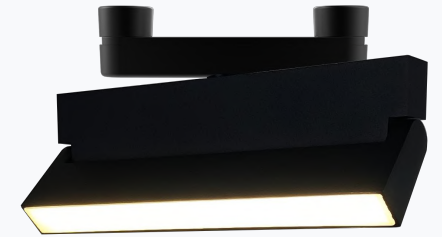
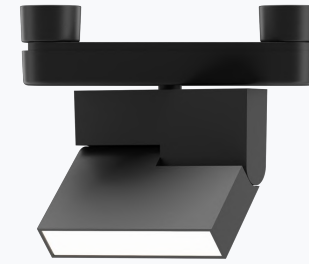
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-XTM-2J-D-20W	20W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	502*26*57mm
TG-XTM-4J-D-40W	40W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	933*26*57mm
TG-XTM-7J-D-70W	70W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20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

48V 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

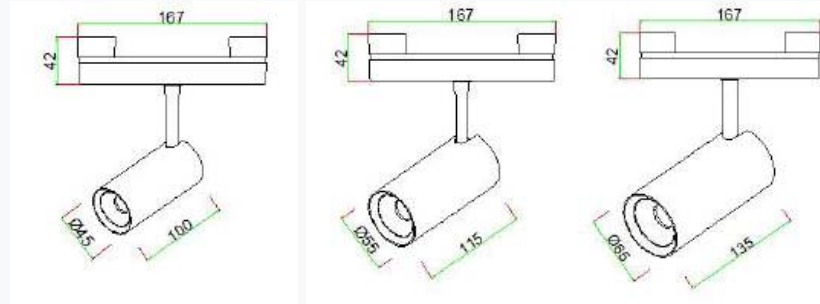
48V Sky Rail Series Light module - Wall Washer Light



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



48V Sky Rail Series Light module - Spot Light



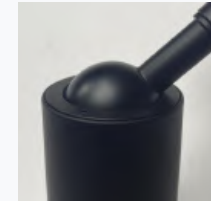
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-SP-021-6W	6W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D45*100mm
TG-SP-022-12W	12W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D55*115mm
TG-SP-023-18W	18W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black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

48V Sky Rail Series Light module - Spot Light



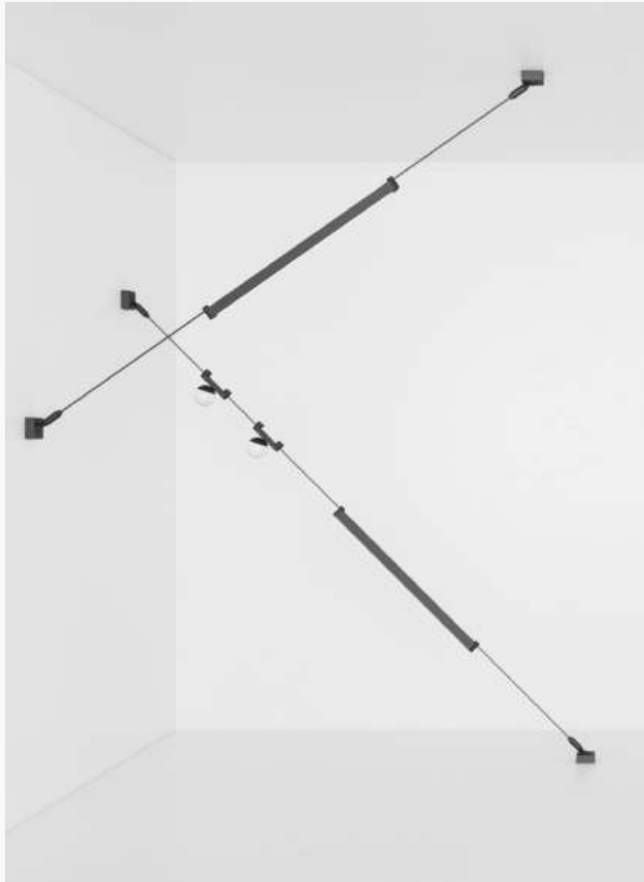
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-SP-011-12W	12W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D50*130mm
TG-SP-012-18W	18W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D65*156mm
TG-SP-013-24W	24W	15/24/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black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

48V Sky Rail Series Light module -Multifunction Spot Light



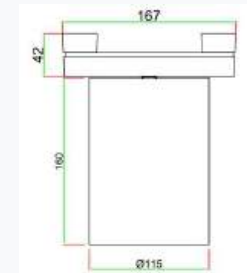
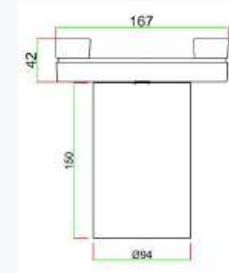
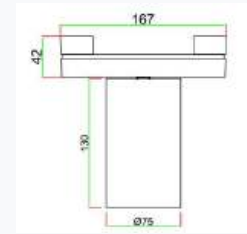
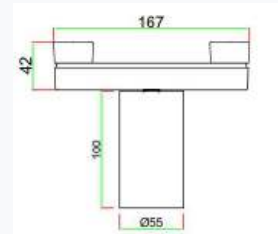
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-SP-032-10W	10W	adjustable 10°-55°	Ra≥ 90	3000K/3500K /4000K/5000K	48V	Black	IP20	D55*115mm
TG-SP-033-18W	18W	adjustable 10°-55°	Ra≥ 90	3000K/3500K/4000 K/5000K	48V	Black	IP20	D65*135mm
TG-SP-042-6W	6W	15°/24°	Ra≥ 90	3000K/3500K/4000 K/5000K	48V	Black	IP20	D40*95mm
TG-SP-052-12W	12W	15°/24°/36°	Ra≥ 90	3000K/3500K/4000 K/5000K	48V	Black	IP20	D50*126mm

48V Sky Rail Series Light module -Multifunction Spot Light



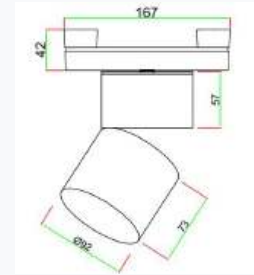
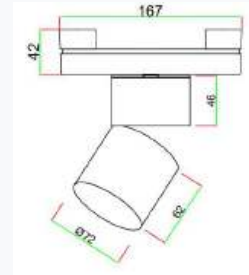
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
ZC-SP-69C-6W	6W	15°/24°	Ra≥90	3000K/3500K/4000K/5000K	48V	Outer White& Inner Black	IP20	D71*50mm
ZC-SP-92C-9W	9W	15°/24°	Ra≥90	3000K/3500K/4000K/5000K	48V	Outer White& Inner Black	IP20	D94*34mm
TG-HM-Y075-10W	10W	24°/50°	Ra≥90	3000K/3500K/4000K/5000K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

48V Sky Rail Series Light module -Downlight



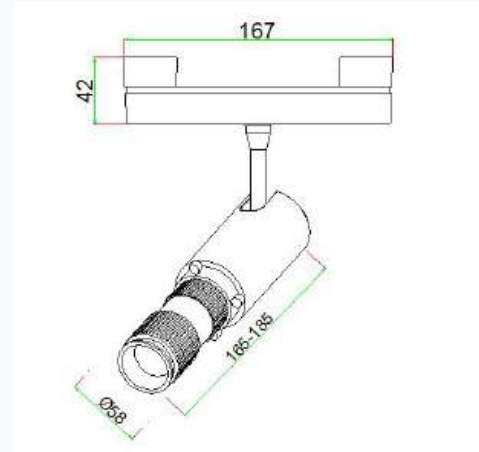
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-DW01-R55-6W	6W	15°/30°/45°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D55*100mm
TG-DW01-R75-12W	12W	15°/30°/45°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D75*130mm
TG-DW01-R94-18W	18W	15°/30°/45°	Ra≥90	3000K/3500K/4000K/5000K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

48V Sky Rail Series Light module -Downlight



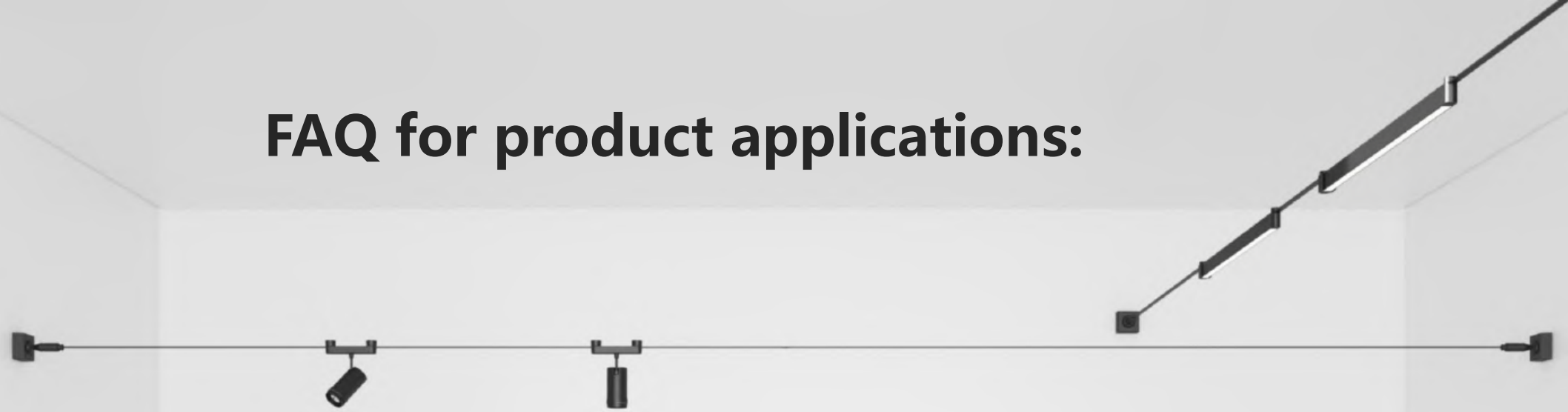
Item No.	Power	Beam angle	CRI	CCT	Output Voltage	Color	IP	Fixture Size
TG-DW02-R72-12W	12W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D72*H108mm
TG-DW02-R92-18W	18W	15°/24°/36°	Ra≥90	3000K/3500K/4000K/5000K	48V	Black	IP20	D92*H130mm
TG-YQ100Q-6W	6W	100°	Ra≥90	3000K/3500K/4000K/5000K	48V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

48V 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

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:

1st 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	250.6	47.8	46.0	1.8	Voltage drop < 2V	

2nd 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	139.2	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							
Remark: 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							
Interpretation: 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.

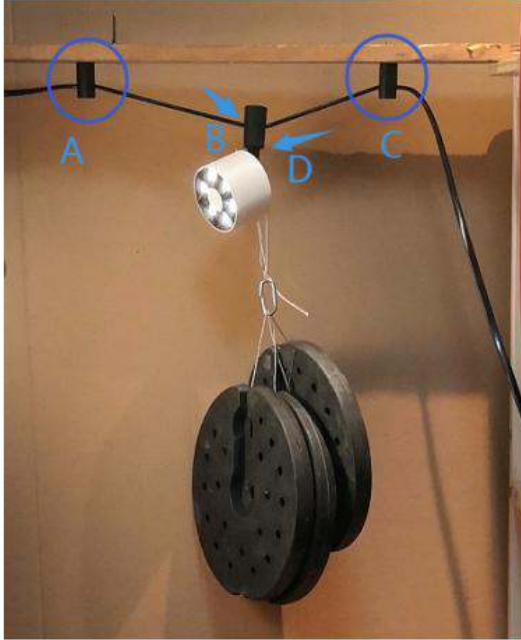
Recommendation for single-group power supply is best for application between 15-20 meters.

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.

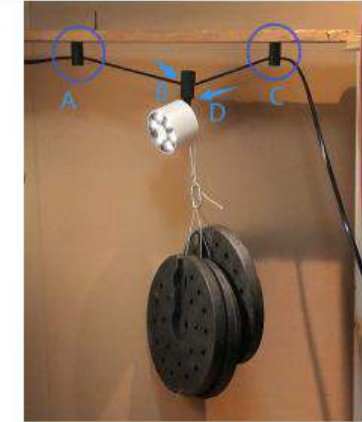
Figure 1







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.

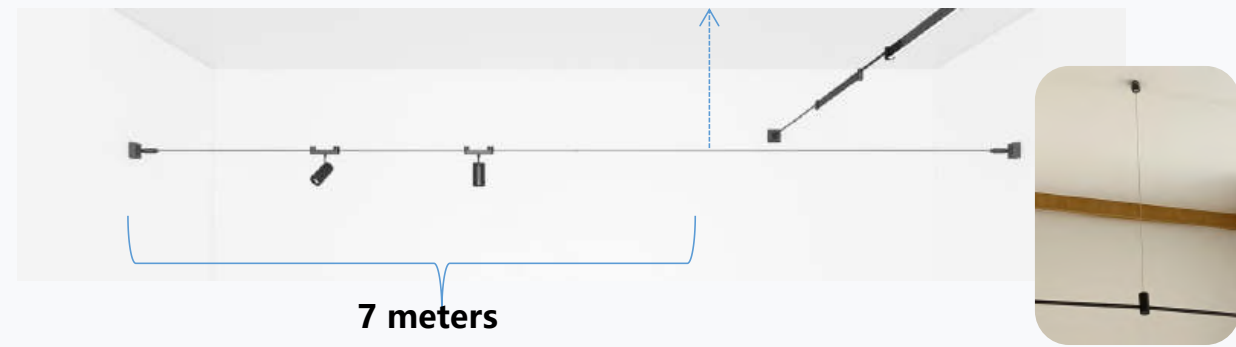
The wall tensioner is intact on the surface, without any movement/slipping/looseness/cracks/deformation, and is firm and stable.

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

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



Application display :



Application display :



Application display :



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.

Leaves[®]



Application display :



Application display :



Application display :



WHOAMI



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

It was founded in 2002 and has been focusing on product development and sales in the overseas lighting market for 20 years.

The company has a high sensitivity and professional development ability for cutting-edge lighting products.

In 2023, LEAVES was established to promote the "Flexible Track Lighting System", allowing Chinese people to use their own patented products to create a more artistic lighting space.

The LEAVES brand is dedicated to the deep application and research and development of the "Flexible Track Lighting System" category, with high-educated talents, providing guarantees for customer operations.

发挥你的三维创意吧

用柔性轨道照明系统，可以结合你喜欢的灯具模块，私人定制专属你的设计作品。



LEAVES Staff



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



Product showroom display schemes



Hot new products are highly sought after by designers.



Magazine reports



Interview by RTA Guangdong



Design Week
Official Report

Interview by HKTDC

Hongkong Official Report



News Report



Thank You!

Cherry Mai