# COLORS
## Linear Lighting

# 2022
## NEW ARRIVALS

**15 Fifteen-year History**
Becomes leading enterprise in the segmented domain with 15 year accumulation.

**Product System**
The full product system includes LED strip, silicone neon strip, profile system, track system, linear luminaire and downlight with CE, UL and CCC etc. Certifications Gained iF, Golden Pin, Red dot and IDEA design awards.

**Strong Production**
3 self-established factories in Yangzhou and Jiangmen, covering 25,000m2. Featured in strong production capacity and high quality with ISO9001, ISO14001 certifications.

**Global Layout**
Registered trademarks in 30+ countries, conducts 20+ promotional tours every year. Products are exported to 97+ countries and regions with 25+ brand distributors worldwide.
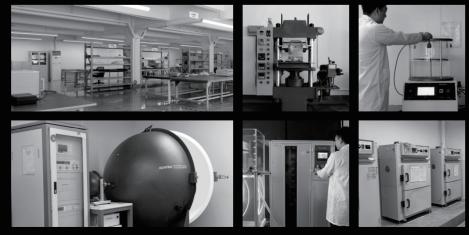
## Honor & Award

COLORS has won the title of National High-tech Enterprise in 2016, and was qualified for ISO9001 Quality System and ISO14001 Environmental System Certifications.
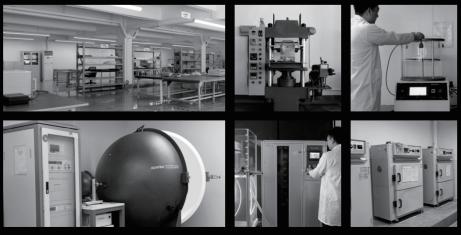
All products have passed tests of third-party authoritative laboratory institutions and have obtained multiple quality certifications inclusive of CQC, CE, REACH, ROHS, UL, ETL, SAA, TUV, LM-80 etc. required by various countries and regions.

COLORS sticks to independent R&D and constant innovation and has won multiple international design awards inclusive of iF, IDEA, RED DOT and GOLDEN PIN, etc.

LED LINEAR LIGHTING SOLUTION PROVIDER

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# Company Profile

YANGZHOU HUACAI OPTO CO., LTD. (COLORS), founded in 2008, is a high-tech enterprise specializing in LED lighting. Our brand "COLORS" is committed to LED linear lighting solutions, with the objective to be the most influential, and innovative indoor lighting brand in the world. COLORS insists on its independent research & development, as well as the independent intellectual property rights management.

Having built a mature and stable products development system, quality control system, production supply chain, worldwide sales teams and brand agents, COLORS is also focusing on the future intelligent business mode to build network information system for providing flexibly customized products and service for our customers.

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# Production Facility

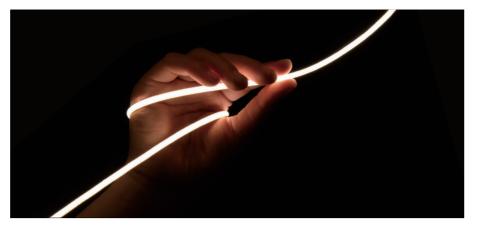## Production equipment & process

COLORS has two directly-operated production bases in Yangzhou covering an area of 25,000 square meters and 300 staffs. The production bases contain over 30 hi-speed automatic encapsulation lines, 15 automatic SMD and applied welding lines, 5 automatic extrusion lines and 6 automatic luminaire production lines, characterizing a complete production process for LED strip inclusive of LED encapsulation, hi-speed SMT, automatic welding and full series of water resistance with average monthly production capacity of LED strips reaching up to 1.5 million meters.

Besides, COLORS modernized manufacturing factory to achieve a complete production process for linear luminaire inclusive of precision machining, automatic assembly, color spraying and free customization with average monthly production capacity reaching up to 120, 000 strips in order to assure customers of high-quality, super cost-effective products and rapid delivery.

## Laboratory & Inspection

Laboratory of COLORS, covering an area of 460 square meters, was outfitted with 48 sets of equipment which was distributed as per safety zone, EMC zone, photoelectric zone, IP water resistance zone, aging zone and product reliability zone. Inspection covers products inclusive of LED strip, neon strip, linear luminaire, power supply and related accessories, with inspection standard ranging from safety, EMC, performance to product reliability. Testing reports can be tracked all the way from product design evaluation period to type approval period to guarantee quality of products.

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# LED Strip



COLORS LED Strip adopts self-encapsulated lamp beads that passed LM80 and TM30 tests, and are mounted automatically through high-speed SMT. It provides multiple options for power, color, CCT and CRI. It achieves IP65, IP65, IP67, IP68 protection and has gained product certifications inclusive of CE, CB, ROHS, UL, etc., can be widely used in indoor & outdoor lighting and furniture, vehicle and advertisement or other supporting usage.

### Pro

**High efficiency**
Luminance efficiency max up to 220LM/W

**Ultra-long**
Max length is 50 meters driven by one end

**Subsize strip**
Small cutting unit, width only 4mm

**Linear light source**
Dot-free COF series

**High voltage**
AC 120V-240V led strip

### Toning

**RGB**
RGB colorful strips with high-density light beads

**RGB+W**
RGBW colorful strip and more options for white light

**CCT**
Variable CCT (2700-6500K) in one place for different time and users

### STD

**R2R SMD strip**
SMD process, 2D and 3W series R2R, no soldering joint in whole roll

**R2R chip strip**
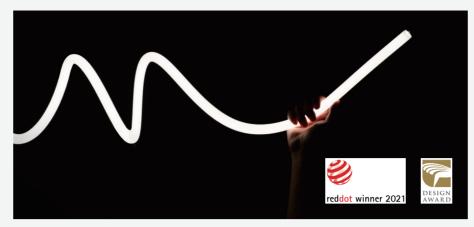"Chip on FPC", FD & DRP series More reliable and cost effective

### Vario

**SPI**
SPI digital strip, IC built-in, continuous transmission even if 1 LED gets broken

**DMX**
DMX RGB strip, with good anti-interference capacity

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# Silicone Neon Strip



Silicone Neon Strip adopts bi-color & tri-color silicone extrusion process, characterizing IP67/IP68 protection. It shows resistance to saline solutions, acid & alkali, corrosive gases, fire and UV, and can be widely used in indoor & outdoor decorative lighting, buildings outlining and night scene lighting.

### Top Bend
Bending direction: vertical. It adopts eco-friendly silicone, featured in IP67 protection and high light transmission. It is widely used in sign lighting, indoor & outdoor decorative lighting and architecture contour lighting.

### Side Bend
Bending direction: horizontal. It adopts unique optical structure design, featured in uniform lighting without shadow and IP68 protection. It is widely used in building outline and indoor & outdoor decorative lighting.

### 3D
Top bend and side bend two-in-one. It adopts flexible silicone, displaying strong resilience. In virtue of systematic installation solution, it can satisfy needs for indoor decorative lighting, landscape lighting, architectural curtain wall washing and building outline lighting.

### 360° Lighting
It adopts innovative technology to achieve 360-degree light emission with no dark area. It can be curved as line, cycle, curve or any odd shapes, an absolute ideal partner in your space design and artistic styling.
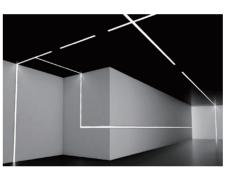
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# Profile System



Premised on flexible and splicing-supported linear light source, it highlights luminaire structure and optical parameters. It distinguishes itself to be an important indoor design element. The ultra-long continuous linear light can shuttle freely to form myriad creative styling, satisfying demands of both flood lighting and image decoration. The lighting effect is prone to be creative and full of futuristic sense, defining the space in a brand new way.

### ALS
It makes light and space co-exist perfectly, as well as can combine luminaire, architecture and furniture masterly to create effects of "Architecture integrated lighting" and "Furniture integrated lighting".
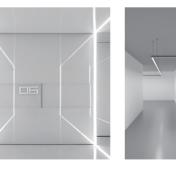
### LLS 2.0
It redefines features and application mode of linear lighting in virtue of innovative modular design and installation method, breaking traditional restraint and further achieve freedom for design, installation and application.

### ALS-L
16mm/25mm mainstream width. It can fit perfectly with architecture to achieve profile-less integrated lighting. Based on ALS series, it improved process to be more cost effective.

### LLS-L
It can be cut, spliced, cornered in arbitrary lengths to form myriad creative styling. It has been heralded to 3rd generation with improved experience in installation and application flexibility.

### LLS-C
It ushers in a sublimation from line to curve and an innovative conversion from 2D to 3D, bringing up a revolutionary experience and a new horizon of linear lighting.

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# Track System



Track System includes 48VDC TLS-R neon track, TLSE-M20 magnetic track and TLS-S60 super module. They bring together spotlights, flexible and rigid linear lights in one series to achieve unique lighting designs and creative applications.
The system can achieve easy splicing, cornering, as well as quick electrical connection of lighting modules with magnets and a wealth of accessories, a decorative element far beyond lighting purpose indeed.

### TLS-R
TLS-R series is available in pendant, surface mounting version and allows horizontal rotation to track. The system supports flexible combination of different modules such as spotlight, downlight and neon strips modules to achieve various applications and myriad styling.

### TLSE-M20
TLSE-M20 features minimal 20mm width. Its magnetic design gives you great DIY convenience to flexibly combine linear modules, spotlights, pendant lights and decorative neon flex in one system, achieving flood lighting, accent lighting or decorative lighting, suitable for villas, hotel clubs, entertainment venues or commercial exhibitions, etc.

### TLS-S60
TLS-S60 is a modular linear lighting system. The whole system consists of an aluminum frame, multiple optical modules (diffuser 110lm/W, high efficiency 140lm/W, UCR=19, grille lights, asymmetric optics, spotlight etc.) and smart control module. It integrates wiring and optical modules installation into one, easy for installation and maintenance.

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# Luminaires



It adopts a more professional solution for light distribution, like wall washing and grazing, and a higher standard of heat dissipation and photoelectric indicators. Thus it can satisfy professional demands of indoor main lighting, accent lighting and special lighting, can provide a full set of linear lighting solution for office, residential, commercial, and industrial space.
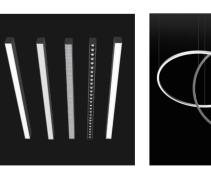
### BASIC
Include linear luminaire of 30/50/70mm width. It supports whole luminaire splicing. Nano? 10h(DALI) dimming, dial switch CCT control and emergency power supply. Can satisfy needs for flood lighting and indirect lighting.

### SLIM25
SLIM 25, a standard mini sized linear luminaire, 25mm wide, can achieve eight diverse light distribution through professional optical design and structural design and satisfy professional indoor functional lighting, accent lighting and special lighting.

### GLS40
GLS40 adopts modernist design, integrating simplicity and elegance in one. It is meticulously crafted and ideal element. Featured in more individualized design and lines in the hope of satisfying your ultimate lighting experience.

### LINE60
Its light-emitting surface is 60mm in width. It adopts professional optical and structure design to realize 6 different light distribution methods, can provide professional indoor functional lighting and special lighting for space.

### CIRCLE
The basic modules can constitute standard circles with diameter of 0.8m/1.5m/3.0m. Multiple light-emitting directions are optional. Various performances are optional, downward, outward or inward. The light emitting modes are optional to create different atmospheres.

### SKYLINE
It links two points together as an outright line. The line shuttle flexibly and freely in space like horse off the reins to form myriad creative styling, bringing up a brand-new lighting experience with the charm of purest linear.
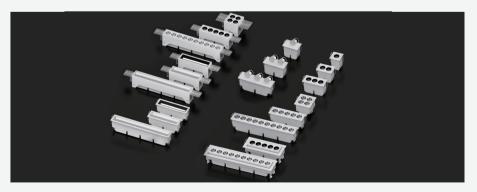
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# Downlight



Downlight system include Genie professional downlight and Magicube mini grille light. The series is designed miniature, slender and delicate, catering to aesthetic trend of interior design.
They emphasizes on light spot, deep anti-glare and natural gradient of light, can achieve accent lighting, flood lighting and wall washing, satisfying differentiated needs for villa mansions, theme hotels, commercial clubs, etc.

### GENIE
Genie is a professional downlight that can be make higher power in the same size as those on market. It adopts four anti-glare concepts, including hidden light source, condensed light, diffuse lens and dark reflector to achieve UGR<10, assuring you of visual comfort with no glare. It's 25° tilting angle adjustable, can achieve precise accent lighting.
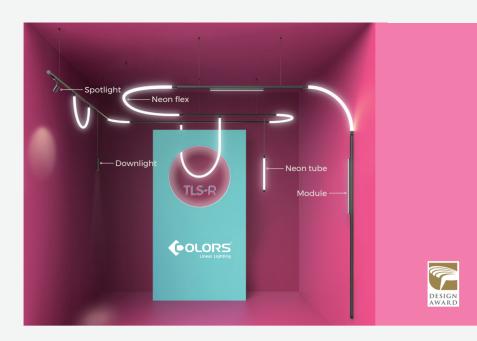
### MAGICUBE
Magicube mini grille light is delicate, compact and of linear outlook. It includes 4 optics, including ±20° adjustable round grille, retractable spotlight, flood lighting and wall washer and supports recessed, pre-recessed and surface-mounted installation. It can achieve precise accent lighting, basic lighting and wall washing.

# LED LINEAR LIGHTING SOLUTION PROVIDER

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## TLS-R Round Neon Track

Neon strips and track in one· Slender and delicate· Multiple optics

Round track lighting system is available as a suspended and surfacemounted version, the track can rotate horizontally, and the system also offers the option of different linear modules include diffuser,wallwash, in addition,downlight and neon strip. These modules can be combined freely for different applications, at the same time, the track and the neon strip module can be creatively matched to achieve various rich stylings. The track system is operated with 48VDC, 30mm diameter, small and exquisite.

### Multiple light distributions, more choices

Neon track can achieve multiple light distributions, such as diffuser(100°), Prismatic(85°), Grating(30°), Grating(55°), asymmetric(90x40x20°), double asymmetric(100x90x20°), block frosted diffuser(110x165°) etc.

| | | | | |
|---|---|---|---|---|
| Diffuser (100°) | Prismatic (85°) | Grating (30°) | Grating (55°) | Asymmetric (90x40x20°) |
| Double Asymmetric (100x90x20°) | Block frosted diffuser (110x165°) | | | |

### Free collocation, flexible application

Systematic solutions, round track system, flexible and rigid modules can be combined freely for different needs of applications. Rich accessories to meet various scenes and application needs
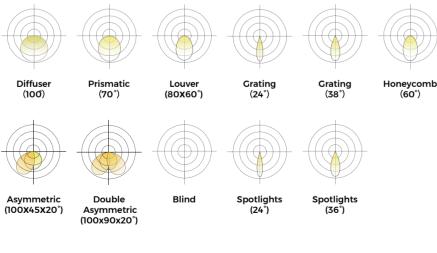
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## TLS-S60 Super Module

Multifunctional track linear lighting system
Integrated module / Free splicing

**<19 UGR** Deep anti-glare
**145 LM/W** Super light efficiency

60mm wide large track lighting system, UGR<19 deep anti-glare, high CRI, high light efficiency, a variety of optical modules are optional, creating a healthy and intelligent high-end office space.

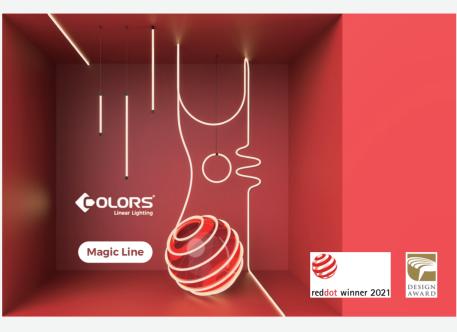### Multiple light distributions, more choices

Such as Diffuser, Prismatic, Louver, Grating 24°, Grating 38° ,Honeycomb, Asymmetric, 20°, Double Asymmetric 20°, Blind, Spotlight 24° Spotlight 36° ,852mm Single spotlight, 042mm Single spotlight, Ø35mm double recessed spotlight, 825mm three adjust spotlight etc.)
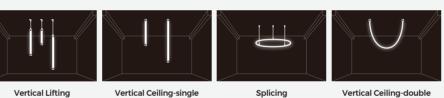
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Diffuser (100°) | Prismatic (70°) | Louver (80X60°) | Grating (24°) | Grating (38°) | Honeycomb (90°) | | |
| Asymmetric (100X45X20°) | Double Asymmetric (100X90X20°) | Blind | Spotlights (24°) | Spotlights (36°) | | | |

CE · CB · UKCA · VDE · RoHS · Reach

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## Magic Line

reddot winner 2021

360° Emitting · Bend As You Like · Cut As You Wish · 13/18/25mm

### Solution

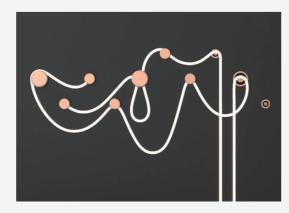| | | | |
|---|---|---|---|
| Vertical Lifting | Vertical Ceiling-single | Splicing | Vertical Ceiling-double |
| Horizontal Ceiling | Horizontal Lifting | Concealed Styling | Boom Shape |

### NNR25P (Pose-able model)

Easy posing, flexible styling
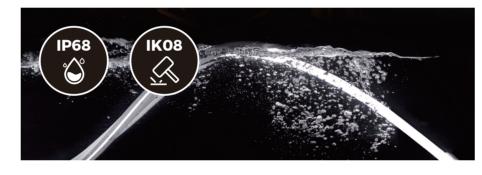No dark area at end caps

### Neon Flow

360° round neon flex, 13/18/25mm family series. All kinds of accessories, can be curved, knotted or woven. Ceiling, pendant, flexibly flowing around wall and floor

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## Facade Lighting

IP68 protection, 50m ultra-long, 270° large beam angle, three-sided lighting. 20mm large luminous surface, 3D bending, all for your choice. Stable and reliable, no afraid of harsh environment, flexible and playable, no limitation for creative styling.

**IP68** · **IK08**

### Max. 50m driven by one end

**IP68** High protection
Up to IP68, IK08 impact resistant, long-term underwater applications

**50M** 50m ultra-long
48V ultra long, max. 50m driven by one end

**270°** 270° beam angle
Domed structure, 270° large beam angle

**U** Ushaped three-sided lighting
Three sided lighting, no blind angle

**20M** Large luminous surface
Standard ultra-thin end caps of same size, no dark area lighting

**3D** Top & side bending in one
3D free bending, flexible application

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## R2R Chip Strips

R2R Dot & linear series
Soldering-free, un-breakable
Anti-vulcanization, Low thermal resistance

**Star series** 180° light emission

**Orbit series** 180° light emission

### R2R production technique MORE PRODUCTIVE

Faster production, standard outputs
Soldering-free, unbreakable products

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## 48V Ultra-long Light Source

One-stop Solution

1 set power + controller Simple, time & effort & cost saving

Driver — Controller — 60m ultra-long light source

### COLORS 48V Ultra-long

Easy wiring and installation
Max. 60m, only 1 power & controller needed

**Ultra-long** Max. 60m

**Consistent Brightness** In constant current, Consistent end-to-end brightness

**Serialized Products** Meet diversified demands

**High Light Efficiency** Max. 150lm/w

**One-stop Systematic Solution** Professional & compatible supporting solution Flexible delivery, one-stop procurement

### Serialized Products

Differentiated models for your various application needs

**High-density Model** Min. 46ed/25mm cutting unit

**High-brightness Model** Max. 3900lm/m luminous flux

**Super-slim Model** Min. 4mm FPC width

**High-protection Model** Up to ip67 protection

**Linear Light Source Model** 180° light emission, continous dot-free

**RGB Model** Various colors in one

### One-stop Systematic Solution

Professional & compatible, one-stop procurement
Flexible & customizable, worry-free delivery.

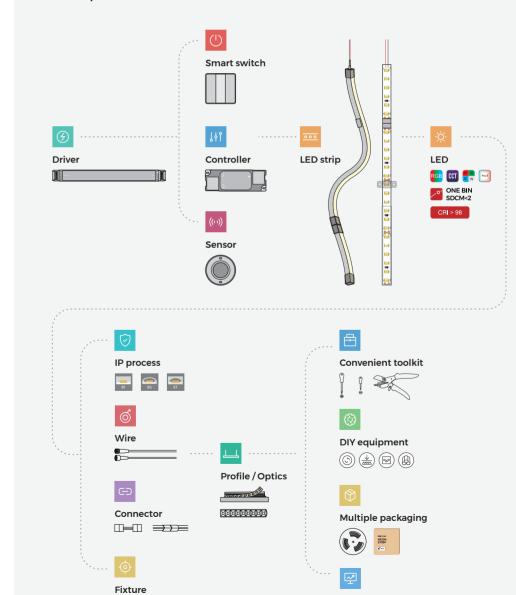**Driven Power** Ultra-thin power Regular power Water-proof power

**Controller** RF & push-dim controller Dali & 0-10v controller

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## One-stop · Linear Light Source

Comprehensive Solution

Driver · Controller · LED strip · LED

Smart switch · Sensor · Wire · Connector · Fixture

IP process · Profile / Optics

Convenient toolkit · DIY equipment · Multiple packaging · Order processing & tracking system

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## GO ONLINE!! COLORS STORE IS READY

Quick search · Online ordering
Instant promotion notice · Easy order tracking
Enjoy easier purchase here !

**sales.colorsled.com**

**Purchase in comfort** Everything at a glance, no waits, easy purchase Now | Quick search & purchase

**Order status & history on-line** Info shown at a glance, easy tracking & follow-up Now | On-line reminders, easy tracking

**Easy complaint & feedback** Process on-line, just-in-time tracking Now | Process on-line

**Discount in hand** Instant notice, no afraid of missing discounts Now | Discounts clear at a glance

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