

Stock Code : TW.5244



Brightek

BRIGHTEK OPTOELECTRONIC CO., LTD.

www.brightek.com

CONTENTS



Company Overview



Automobile Application



Smart Sensing



Lighting & Display



Founded in
2001

Manufacturing,
R&D, Sales

An
Experienced
Team

More than
130 Patents

What is Brighttek

Innovative design and solution provider of optoelectronic semiconductor components



Company Profile

2001 founded, 250+staff
• R&D 22%

Located

Taoyuan, TW
Shenzhen, CN
Kunshan, CN; Jiangsu, CN
Sales offices : Chongqing, Tianjin

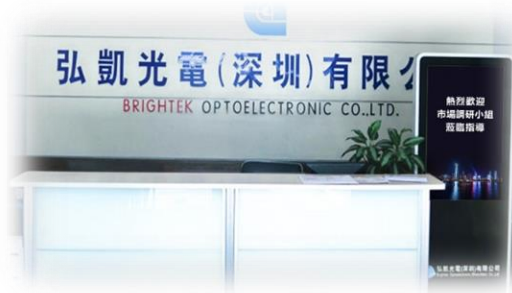


Corporate Vision

Smart lighting
make life wonderful

2001

Brightek (Shenzhen) founded



2005

Brightek (Taiwan) was established
Certified by ISO 14001



2006

Obtained SONY Green Partner certificate



2011

Brightek (Kunshan) was founded

2015

Grand Opening of New Factory in Shenzhen



2019

Joined ISELED Alliance
Integration of informatization and industrialization



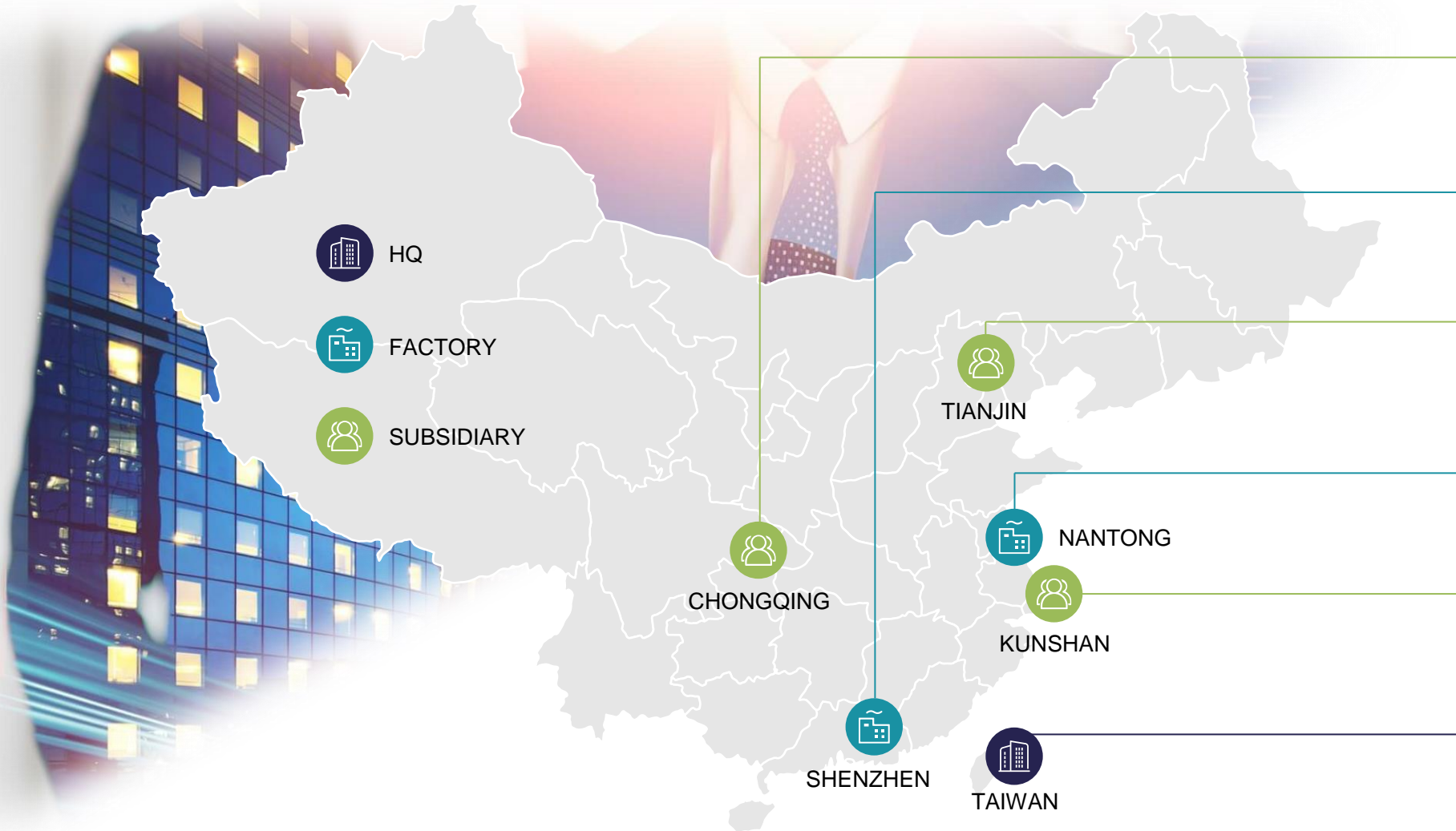
2021 **Valeo**

Construction of new factory in Nantong
Shenzhen factory has been certified and approved by Valeo



2022

Brightek is listed on Taiwan Stock Exchange.



CHONGQING

- Southwest China Sales office

SHENZHEN

- Factory
- South China Sales office

TIANJIN

- North China Sales office

NANTONG

- Factory
- Nantong Sales office

KUNSHAN

- East China Sales office

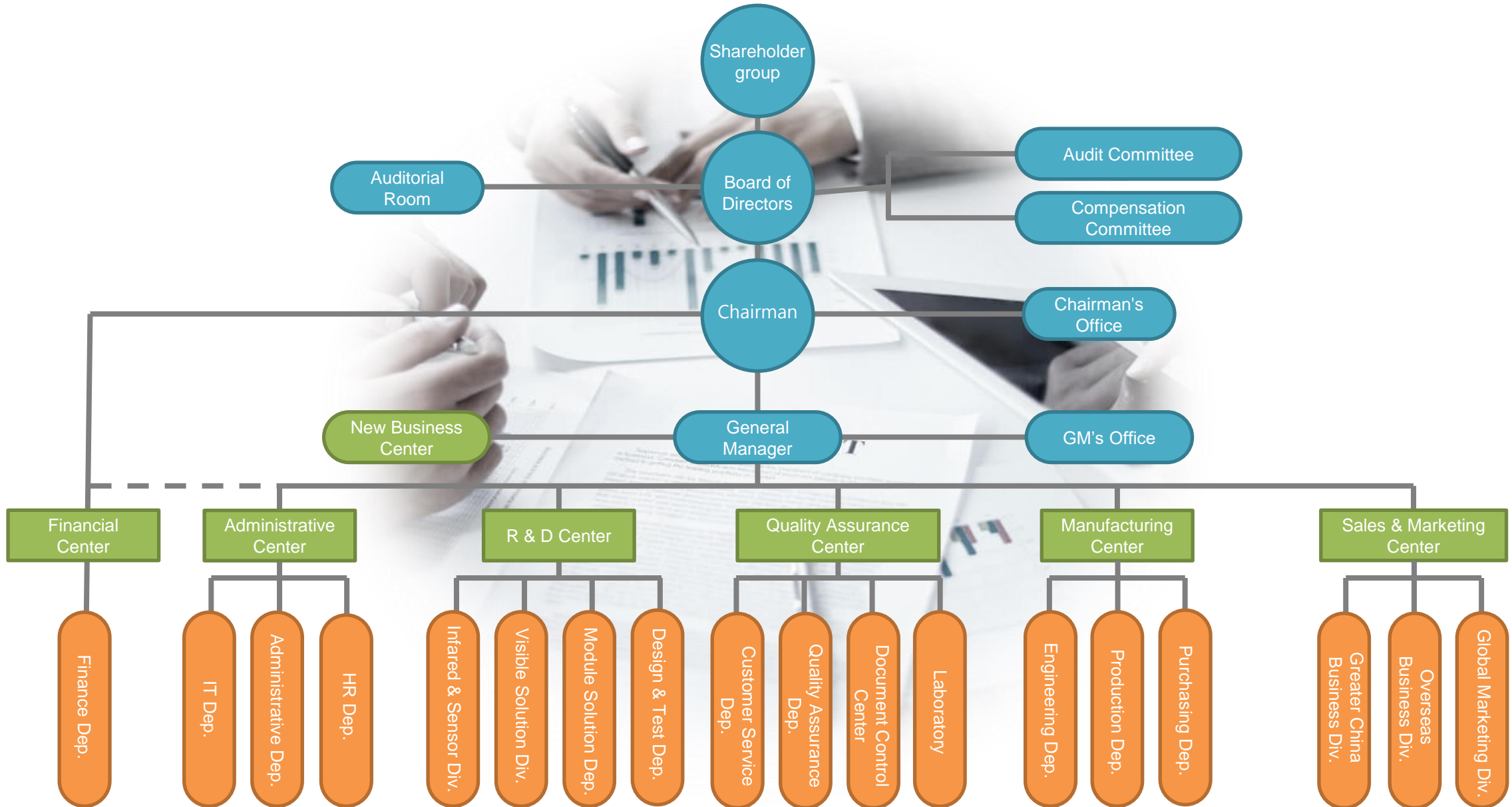
TAIWAN

- HQ
- Overseas Sales Office

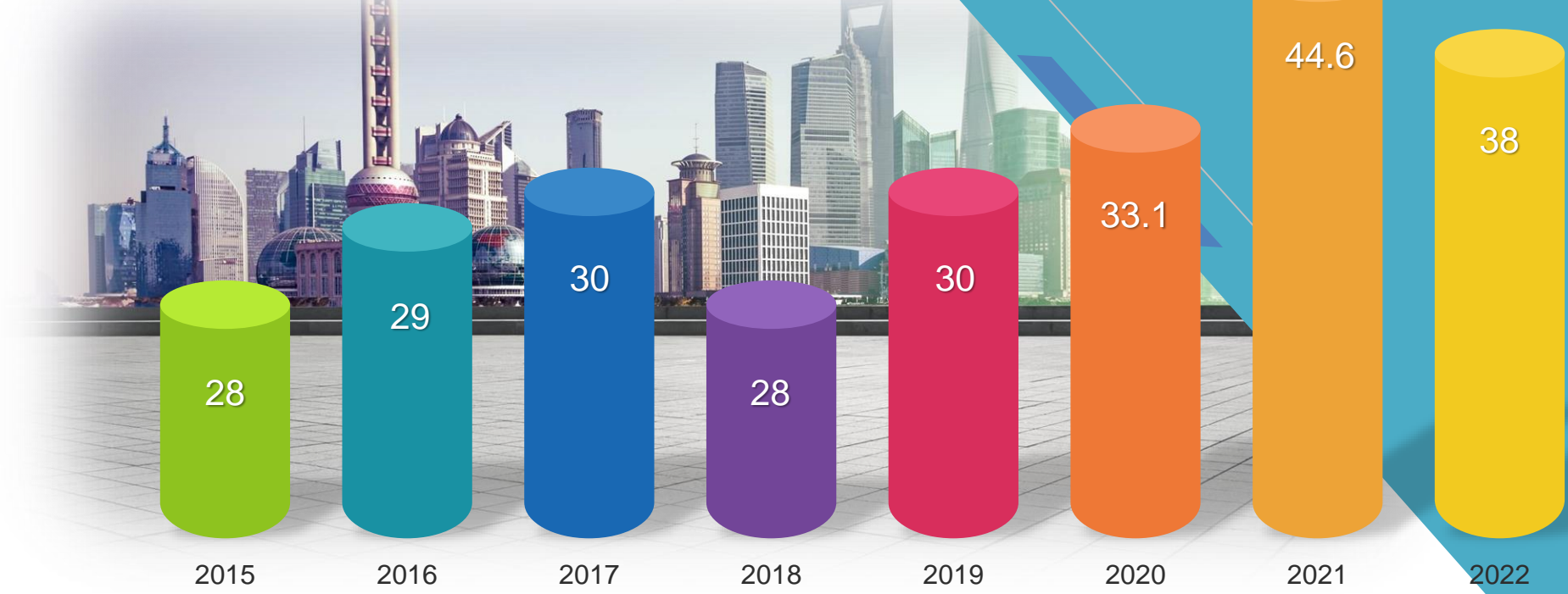


Brightek's professional team covers Europe, America, Latin America, Asia Pacific, Middle East and other regions, providing the most complete products and service.





2015 ~ 2022 Sales Revenue (Million USD)



Smart Sensing

- Smart Home
- Smart Cockpit
- Wearable Device
- Security Monitoring
- Face Recognition



Automobile Application

- Interior Series
- Exterior Series
- Ambient Lighting
- Customized Modules
- Smart Cockpit



Lighting & Display

- Smart Lighting
- Transparent Display
- Scenarios Display

Automated Production lines

Individual production
line for automotive
products only



Production Capacity
320,000K

Level

10,000

Clean Room



Excellent
Quality



Advanced
Equipment

Professional laboratory for doing AEC-Q102 test, reliability tests such as high temperature test to 85 degree Celsius, high moisture test, thermal shock, etc.



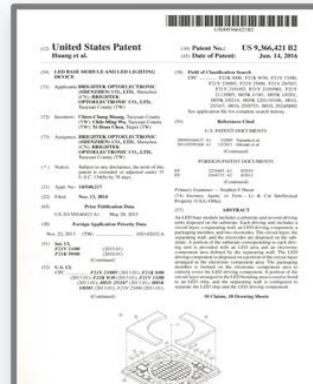
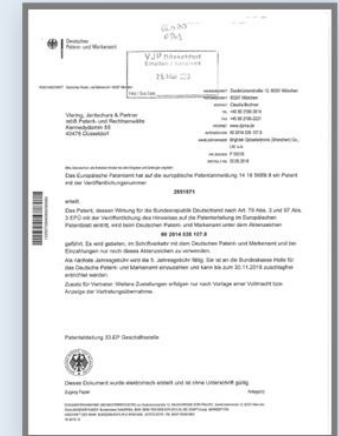
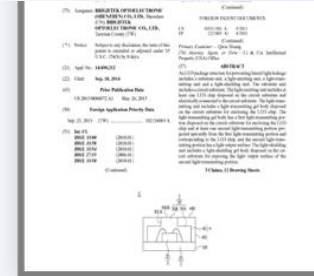
110 Item

Domestic and foreign invention patents, utility model patents, design patents



20 Item

More than 20 patents are ongoing



Forge ahead for **20** years

Based on product quality

Brightek are determined to forge ahead, pioneer and innovate, we have obtained many system certifications in its continuous progress.



ISO9001
International quality management system

QC080000
Hazardous material process management system

ISO14001
Environmental management system standards

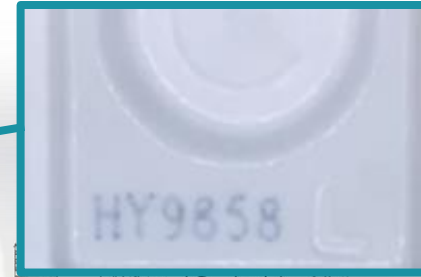
Certificate of Integration of Informatization and Industrialization

IATF 16949
Automobile quality management system

D-U-N-S No.



Product Material Traceability Management



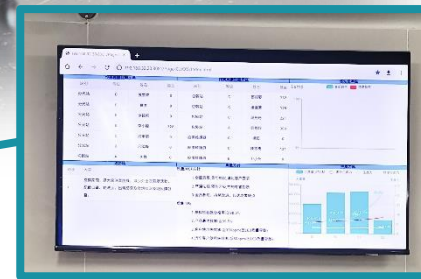
Laser marking is applied on automotive LEDs



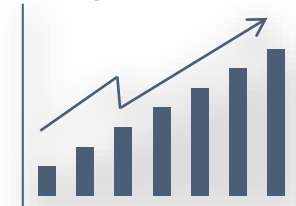
流程卡過站記錄查詢	
批號	操作
BM10-2212070011-001	CREATE_S
BM10-2212070011-001	START_OP
BM10-2212070011-001	STD_LOT_



System records can be checked anytime to manage the expiration date and quantity of raw materials with real-time feedback.



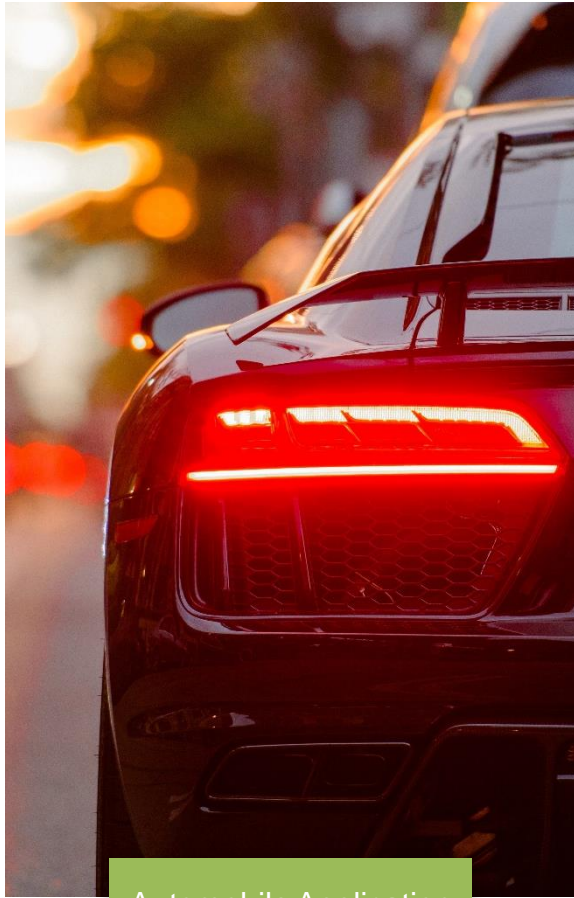
Provide real-time feedback and warnings, and efficiently manufacture high-quality products.



CONTENTS



Company Overview



Automobile Application



Smart Sensing



Lighting & Display

State-of-the-art

- Exterior product upgrade
- AEC-Q102 coverage enlargement
- Color homogeneous tech



iCLed Tech

- Noise cancellation tech
- Matrix lamp tech
- Simplified design



Module Tech

- Customized module (W-/AR HUD BL / Smart ambient light)
- Light and Sensor drive integration
- High power driver integration



01

A variety of IC selection scheme, to provide more than 8bit colorful color effect, in line with customer diversity design needs

02

Narrow LED chips' wavelength to better control the color distribution for well consistency.

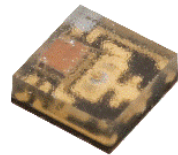
03

In ISELED products, AEC-Q102/AEC-Q100 complience, build in OTP function, and temperature / color correction.

iCLed Series



iCLed 3023



iCLed 20



iCLed 35



iCLed 4516 Side view

Conventional series



EMC 3030



3433



4516 Side view



紅旗-H9



吉利-博瑞



比亞迪-漢



長安-CS85



奇瑞-瑞虎7



GEELY



01

Full range of power cover up to 3w, including PLCC package, EMC package and ceramic package

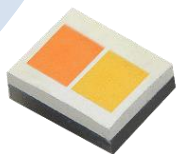
02

Product color can cover the full gamut range, to provide customers with more diverse choices

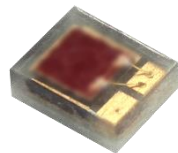
03

In white light products are packaged with inorganic materials to achieve better luminous effect and reliability

Automotive Lighting



1519
(Dual Color)



1519



2720



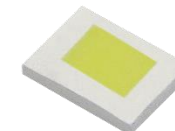
3528



3528



3433



1810



吉利-博越



威馬-W6



大眾-邁騰



別克-英朗



林肯-MKC



雪佛蘭-邁銳寶

GEELY



JAC
江淮汽车

CHERY
奇瑞

中华
中华

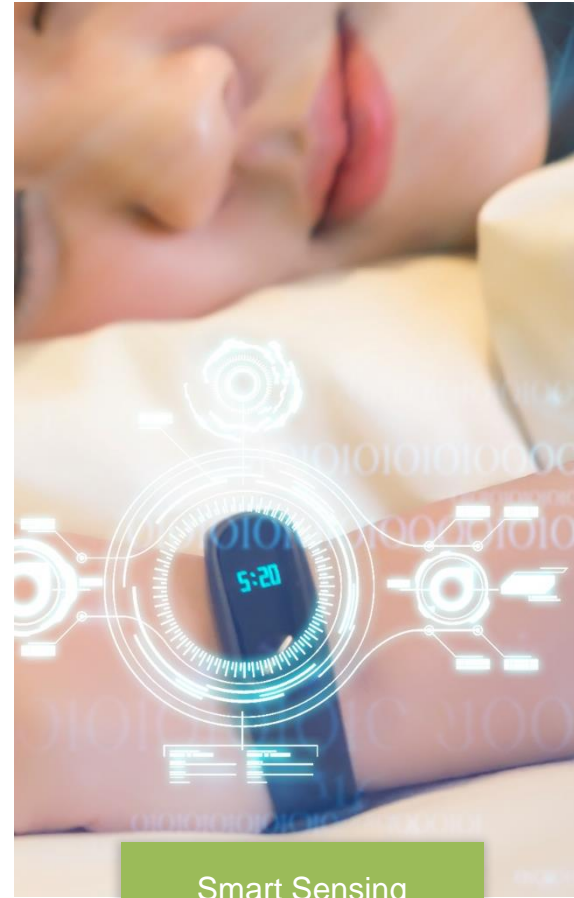
CONTENTS



Company Overview



Automobile Application



Smart Sensing



Lighting & Display



Smart Cockpit



Smart Home




Smart Robot

Modules Design for Functional Driven Market

- ① Automotive Lighting
- ② Smart Cabin System
- ③ Interactive Control
- ④ Robotic Sensor
- ⑤ Computer Sensing

Integrated Module Design


We offer several applications reference designs and vertically integrated hardware solutions for a few specific domains




People Detection & Power Saving



Security & Event Monitor



Cleaning Robot Sensing



AR/VR Inside-Out Outside-In Sensing



Sensing Fusion & Avoidance

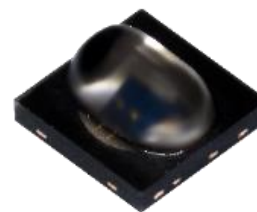


01

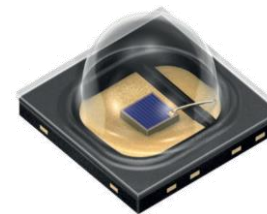
Asymmetric light "pattern" can achieve more uniform and clearer infrared illumination , building a better foundation for camera system's post processing for a better image display .

02

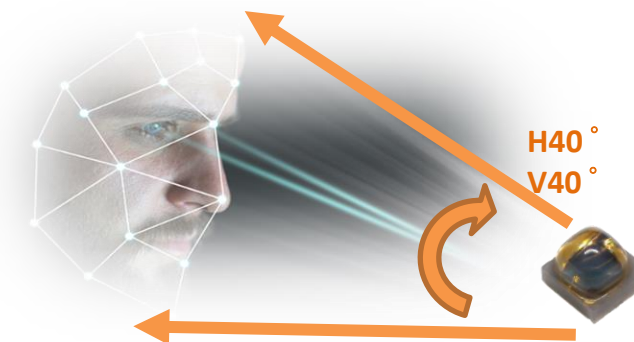
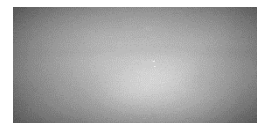
At the radiation power of $\pm 40^\circ$, the asymmetric optical mode is 30 % more symmetrical than the conventional type .



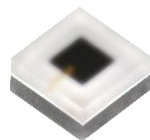
Asymmetric



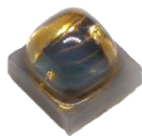
Conventional



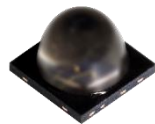
Infrared Series



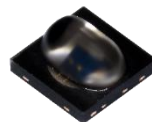
1616 Flat



1616 80°



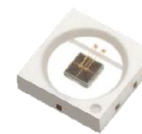
3838
(50°/90°/150°)



3838 Asymmetric
(45°x25°/150°x90°)



3030 60°/90°



3030 120°



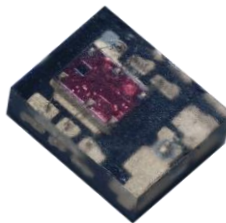
Landing collision proof

- Optional gain and resolution
- 8 programmable VCSEL current outputs
- Pulse Width Selection, PGA Gain Selection and Pulse Count Selection
- Dedicated Interrupt Pin
- I2C interface for device control and data transfer



4424 ToF

- Accurate distance ranging. Measures absolute range up to 4m
- Small package size 4.4*2.4*1.05mm
- I2C interface for device control and data transfer
- Class 1 laser device compliant with standard IEC 60825-1:2014



2520 proximity



Proximity Sensor

01

High radiation power. supporting transient short pulse driving high current

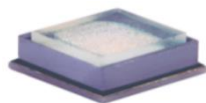
02

Narrow spectral width and low temperature drift coefficient

03

Built-in MPD Diffuser issue detection .Eye safety Class1

VCSEL Series



3532 Diffuser Lens VCSEL
(50°x40°/65°x45°/72°x58°/90°x70°/110°x90°/120°x90°)



Obstacle avoidance sensor

01

Full color iCLed RGB products, for the customer's products more gorgeous

02

The ultra-thin package (less than 1mm) gives the user more choice and space in the design scheme

03

IC with feedback function, make our LED more intelligent

iCLed Series



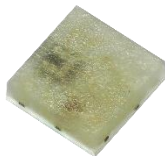
iCLed3205
Sideview



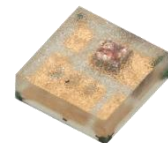
iCLed3208
Sideview



iCLed4516
Sideview



iCLed12

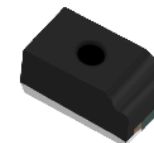


iCLed20



iCLed35

Regular Series



0603

EVGA



Indicator Light



Bright Lights

msi



Brightek

ASUS



acer



Lenovo



SONY



Panasonic

SHARP



CONTENTS



Company Overview



Automobile Application



Smart Sensing



Lighting & Display

01

1.2 x 1.2 mm Mini Package, Let customers have more choices and space in the design project

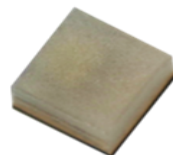
02

16 Bit output display, high gray scale bright color

03

High data transfer rate, up to 1.6 Mhz

iCLed Series



iCLed12



iCLed20

01

Full range of power cover up to 3w, including PLCC package, EMC package and ceramic package

02

Product color can cover the full gamut range, to provide customers with more diverse choices

PLCC Series



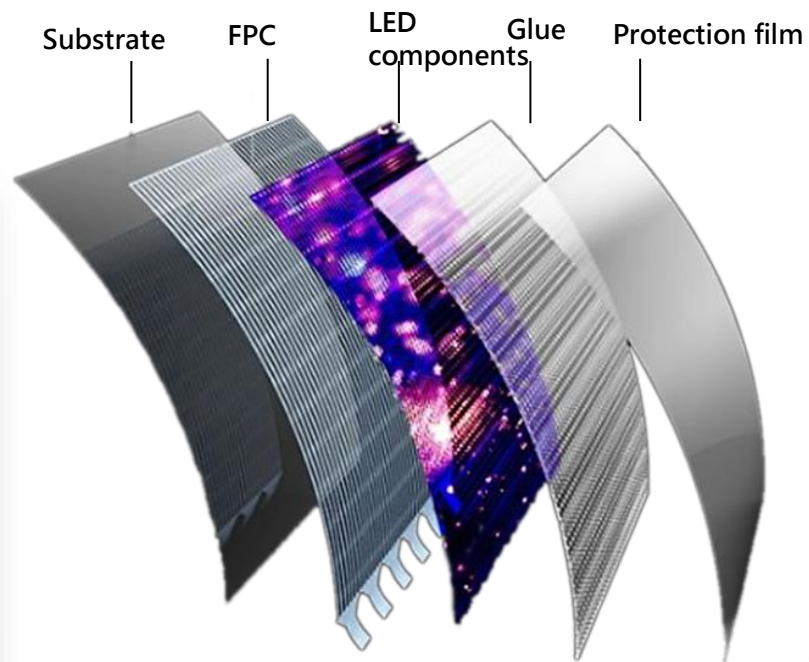
3535RGBW



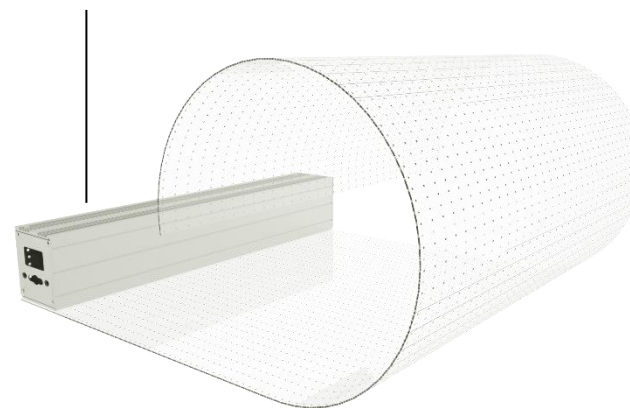
3535RGB

Concept of Transparent Display

Brightek's iCLed offers to LED transparent display design. It makes the module to be extreme thin to 1~3mm. It has high transparent rate and can be attached on window or metal surface. It won't impact the aesthetic, also brings futuristic and higher transparency.



Control box



Core Competence

Electronics Engineering (EE)

MCU-based Platform
INOVA-based platform
High-Speed Signal Design
EMC Compliance

Mechanical & Optical Engineering (OE & ME)

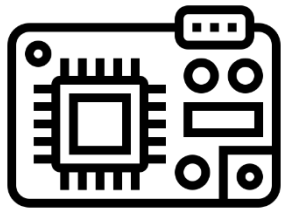
Rugged Design
Thermal Management
Diffuser Lens Design

Software Engineering (SW/FW)

Embedded OS
MCU Coding
User Interface (LIN, UART)

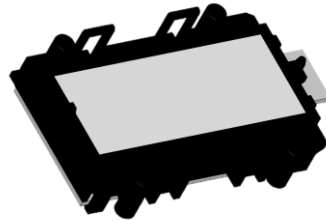
System Engineering

Sensing integration
Smart Lighting control
Display and 3D depth
Control Unit

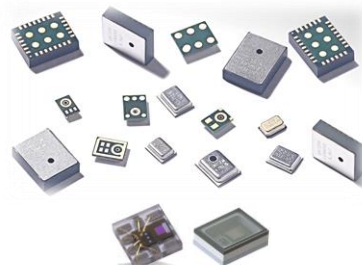


- NXP
- STM
- Microchip

HUD Backlight Module



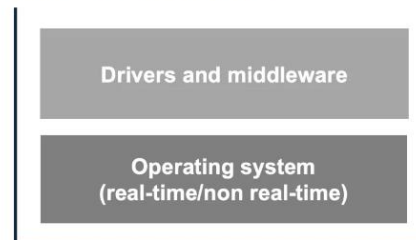
Packaging engineering



Application Software



Embedded Software



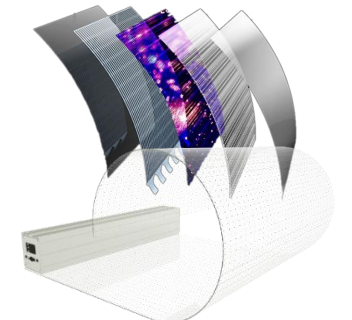
Physical Hardware



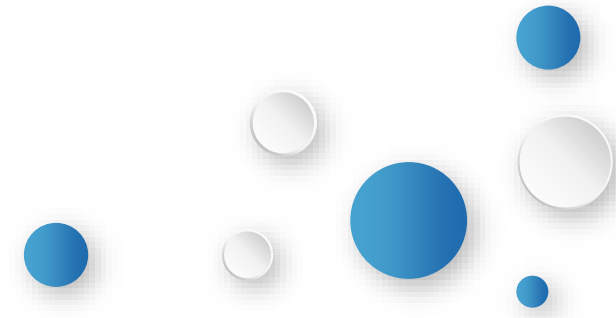
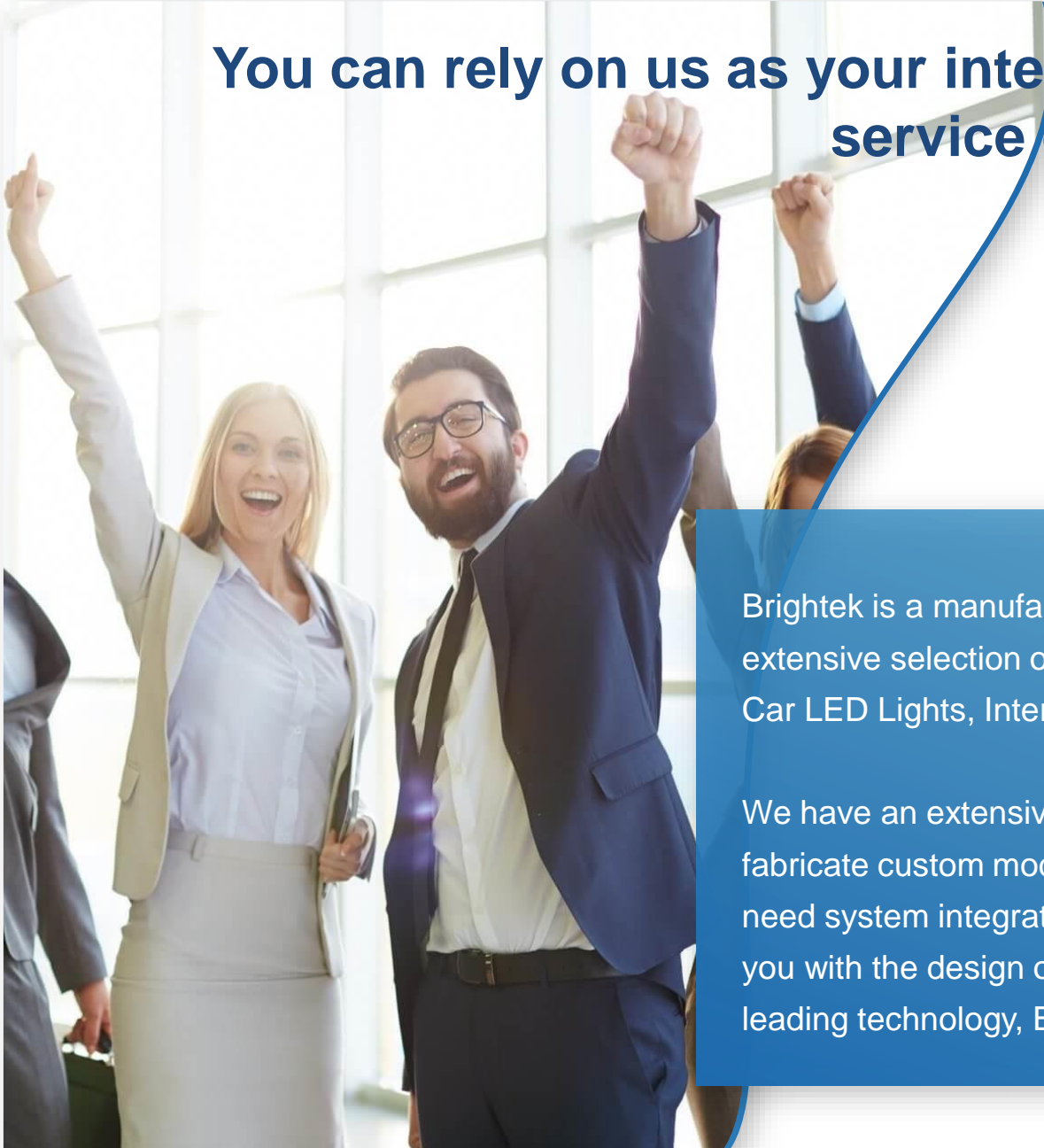
Sub-system, sensor fusion
(Proximity, ToF sensor, iCled)



Display application product (iCled)

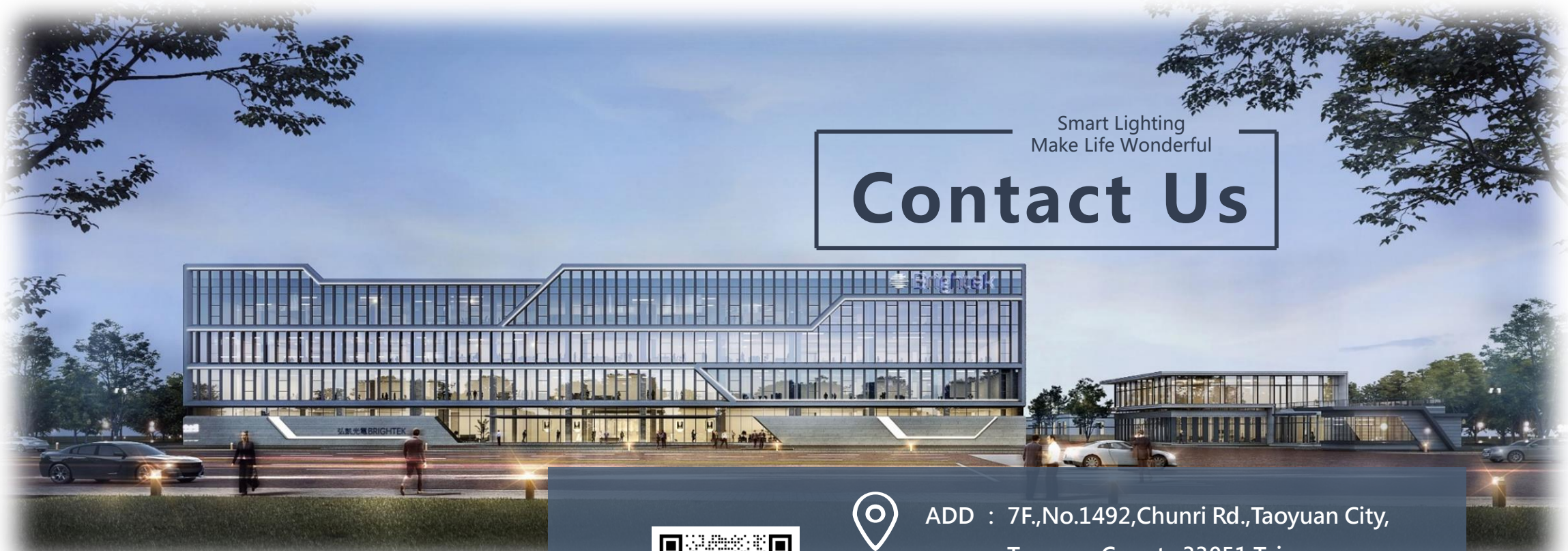


You can rely on us as your integration solution provider and service center



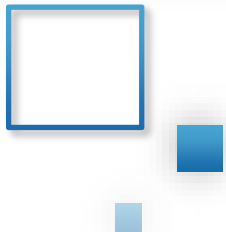
Brightek is a manufacturer of iCled & Optic sensors, that provides organizations with an extensive selection of Lighting & Display and Automotive lighting Products, including Car LED Lights, Interior Sensor, Head Up Display, and more. ◦

We have an extensive collection of existing products to suit your need, but we can also fabricate custom modular solutions based on the needs of your business. Suppose you need system integration solutions to get fast development. In that case, we can provide you with the design of All-in-One solution your business needs to stay competitive and leading technology, Brightek will be your best partner !!!



Smart Lighting
Make Life Wonderful

Contact Us



ADD : 7F.,No.1492,Chunri Rd.,Taoyuan City,
Taoyuan County 33051,Taiwan



TEL : +886-3-357-9118



MAIL : sales@brightek.com

THREATS WATCHING THREATS



BRIGHTEK OPTOELECTRONIC CO., LTD.
www.brightek.com