

# PROFILE

RANGDONG LIGHT SOURCE  
AND VACUUM FLASK JSC.

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# OVERVIEW

- Full Company Name:  
**RANG DONG LIGHT SOURCE AND VACUUM FLASK JOINT STOCK COMPANY**
- Business Company Name RALACO
- Established 1961
- Stock Symbol RAL on HOSE
- Company type Joint Stock Company
- Business activities:
  - + Manufacturing general lighting products, HCL (Human Centric Lighting).
  - + Professional ODM/ OEM service for lighting.
  - + Manufacturing and Trading product ecosystems 4.0 of Smart Home, Smart City, Smart Farm.
  - + Producing and trading High-tech agriculture lighting, fishery lighting, and renewable energy lighting products
  - + Producing and trading Vacuum flasks and household appliances.



### Head office and Factory No.1

Located 87-89 Ha Dinh Str., Thanh Xuan Dist., Hanoi, Vietnam  
Area: 57,000 m2



### Factory No.2

Located Que Vo Industrial Zone, Bac Ninh Province  
Area: 82,000 m2



### Research and Development Centers

- + LED Lighting R&D Center (LRDC)
- + Digital R&D Center (DRDC)
- + Business Model R&D Center (BMRDC)



LED Lighting for cusumers:  
**100 million units/ year**  
LED Lighting for professionals:  
**20 million units/ year**  
Vacuum Flasks & Glass Refills:  
**32 million units/ year**



<https://rangdong.com.vn>  
<https://en.rangdong.com.vn>  
<https://vacuumflask.rangdong.com.vn/>



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RangDong Vietnam, Vacuum Flask-Rang Dong



[Ralacoexport.trustpass.alibaba.com](https://www.alibaba.com/trustpass/detail/Ralacoexport)



International Management System



Member of ILAC / APLAC MRA

ACCREDITED LABORATORY VILAS 126  
(Conformed with requirements of ISO/IEC 17025:2017)

**276**  
Accredited tests



## MISSION

- Pioneering enterprise providing a synchronous solution system based on core technologies of Lighting and IoT, contributing to the creation of smart home, smart city, hi-tech agriculture and precision agriculture, promoting life in harmony with nature - smart - happiness, accompanying the nation to build a prosperous Vietnam.



## VISION

- By 2025, envisaging to become a leading high-tech enterprise in the Vietnamese lighting market, pioneering in the field of providing Ecosystem 4.0 to realize the aspiration of "Make in Vietnam".
- By 2030, becoming a billion-dollar enterprise, bringing Rang Dong brand to the regional level.
- Keeping the development path of the business based on Science, Technology, Innovation and Kindness.
- Building a company having a creative, cultural, civilized, professional and happy working environment.



## CORE VALUE

- Solidarity, Proactiveness, Creativity, Rapidity and Professionalism.



## ACTION MOTTOS

- Serving customers, creating knowledge for resonating value



## HUMAN VALUE

- Dedication - Endeavor - Self-consciousness - Self-confidence - Self-respect - Honesty
- Same orientation - Same behavior - Shared work - Shared benefit
- New Qualities: Tectonic - Adaptive - Creative - Professional





- TOP **500** Vietnam's Largest Companies (10 consecutive years)
- TOP **500** Vietnam's Fastest Growing Companies (6 consecutive years)
- TOP **100** ASEAN Famous Brands 2020
- TOP **50** Best Vietnamese Listed Companies
- TOP **50** Leading Brands in Vietnam
- TOP **50** Most Innovative Enterprises Vietnam 2023
- TOP **10** Vietnam's Golden Brands
- TOP **10** Best Brandname in Vietnam
- TOP **10** Gold Classified Products



The Award of Vietnam Science and Technology Creations in 2023 by Vietnam Union of Science and Technology Associations.



Certificate of Excellent Digital Transformation Enterprise in the Ecosystem of 4.0 - Products/Services awarded by the Minister of Information and Communications.



Certificate of Impressive and Reliable Products - Services 2022 for Rang Dong - RalliSmart Make-in-Vietnam Smart Home Solution awarded by Vietnam Economic Association (VEA).



**“The Sao Khue Award 2023” “The Sao Khue Award 2023”** in the field of Pioneering Technology Services and Solutions by Vietnam Software and Information Technology Services Association (VINASA).

## 1958 - THE BEGINNING:

Starting the construction of Factory

## 1961:

Officially established  
(February 24, 1961).

## 1990:

Starting the 1<sup>st</sup> renovation period

## 2004:

Transforming from a state-owned enterprise  
to a joint - stock enterprise  
Exporting compact fluorescent lamps to EU

## 2006:

Company stock (RAL) listed on Ho Chi Minh  
Stock Exchange (HOSE).  
Factory No. 2 in Que Vo Industrial Zone, Bac  
Ninh province operational

## 2008:

Successfully producing the first LED lighting  
product.

## 2011:

Establishing Lighting Research &  
Development Center (LRDC) with more than  
40 scientists and professors

## 2014:

Establishing LED - Electronic & Lighting  
Equipment factory, manufacturing LED lights  
on an industrial scale.

## 2015:

100% state divestment and becoming a  
public company  
Ending the 1<sup>st</sup> renovation period and  
starting the 2nd one

## 2016:

Signing a strategic cooperation agreement  
with Samsung Electronics Co., Ltd. South  
Korea.

## 2020:

Establishing Digital Research & Development  
Center (DRDC)

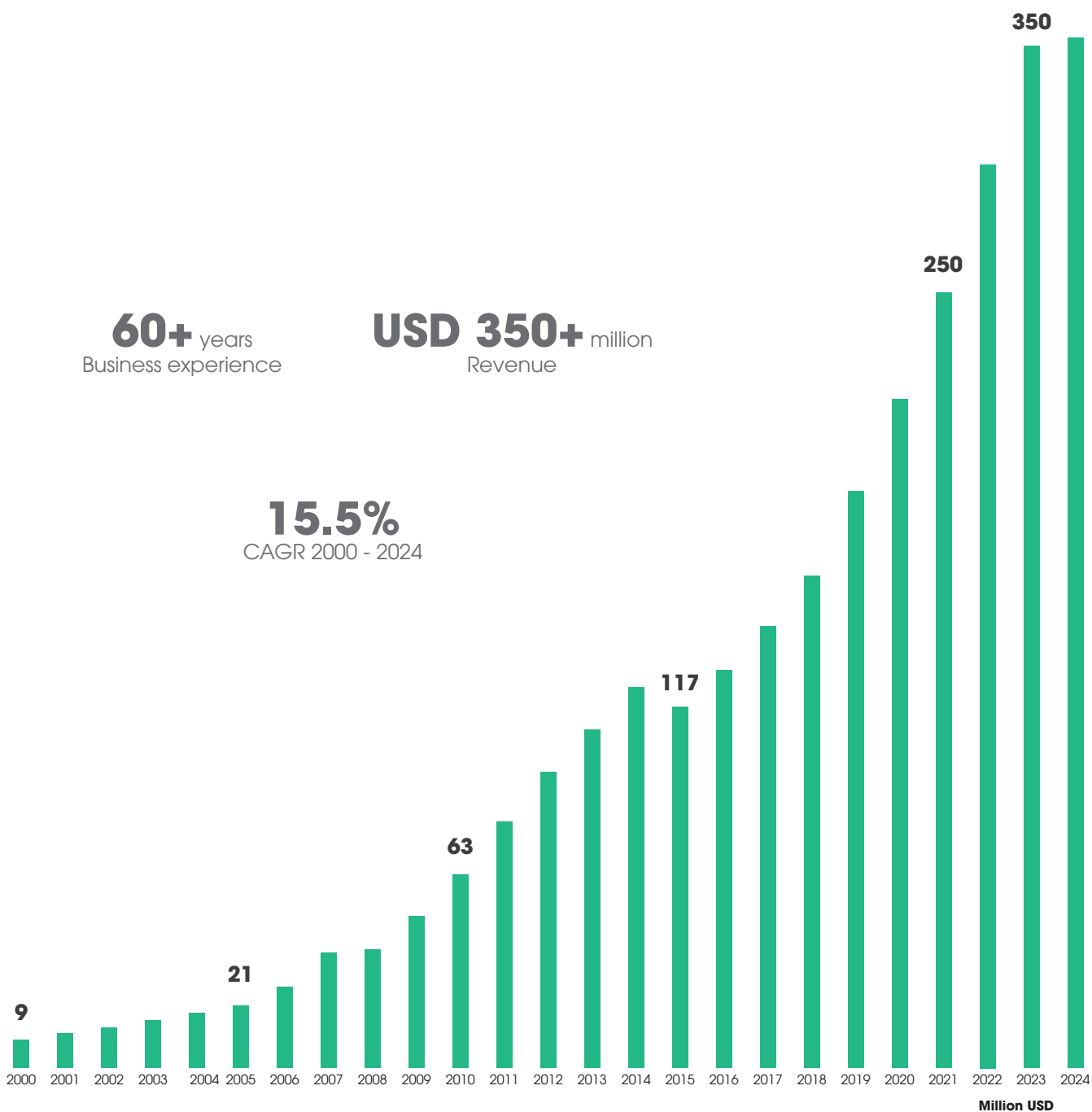
## 2021:

Cooperating with Seoul Semiconductor,  
Korea as the strategic partner



01

**INTERNATIONAL & DOMESTIC  
MARKETS**



INTERNATIONAL MARKET



**PERIOD OF 2000-2024**

INTERNATIONAL CLIENTS (200+)

Products manufactured by Rang Dong are supplied to large corporations in G7 / G20 countries.

MAIN SUPPLIERS

**SAMSUNG**   **SEOUL**   **LOTTE CHEMICAL**   **B2G**   **NXP**

**NICHIA**   **CITIZEN**   **OSRAM**   **ON**   **infineon**

*Nichia Chemical (Thailand) Co., Ltd.*   *Micro HumanTech*   *ON Semiconductor®*

**EVERLIGHT®**   **TOSHIBA**

# No.1 MARKET SHARE IN VIETNAM

IN LIGHTING AND VACUUM FLASK

**24 000** Points Of Sale

**500** Market Staffs

**10** Branches

**04** Lighting Consulting Service Centers

**01** LED Ecosystem Development Center



**DA NANG BRANCH**  
No. 169 Dien Bien Phu, Chinh Gian Ward,  
Thanh Khe District, Da Nang  
Tel: 0236224 5386 / 02363503188

**TAY NGUYEN BRANCH**  
No. 142 Le Thanh Tong, Tan Loi Ward,  
Buon Ma Thuot City, Dak Lak Province.  
Tel: 0262 3956668

**HO CHI MINH CITY BRANCH**  
No. 177 - 179, Street No. 26, Ward 10,  
District 6, Ho Chi Minh City  
Tel: 028 3754 5233/235

**TIEN GIANG BRANCH**  
No. 18 - 20 Huyen Toai Street,  
Ward 1, My Tho City,  
Tien Giang Province  
Tel: 027 3397 7455

**NHA TRANG BRANCH**  
No. 12A Van Don, Phuoc Hoa Ward,  
Nha Trang City, Khanh Hoa  
Tel: 025 8387 4488

**BIEN HOA BRANCH**  
No. 14 - A18 extended residential area,  
An Binh Ward, Bien Hoa City, Dong Nai Province  
Tel: 025 1886 0365



**CAN THO BRANCH**  
77AA - 79AA Nguyen Van Cu Street, An Binh Ward,  
Ninh Kieu District, Can Tho City  
Tel: 0292381 3346

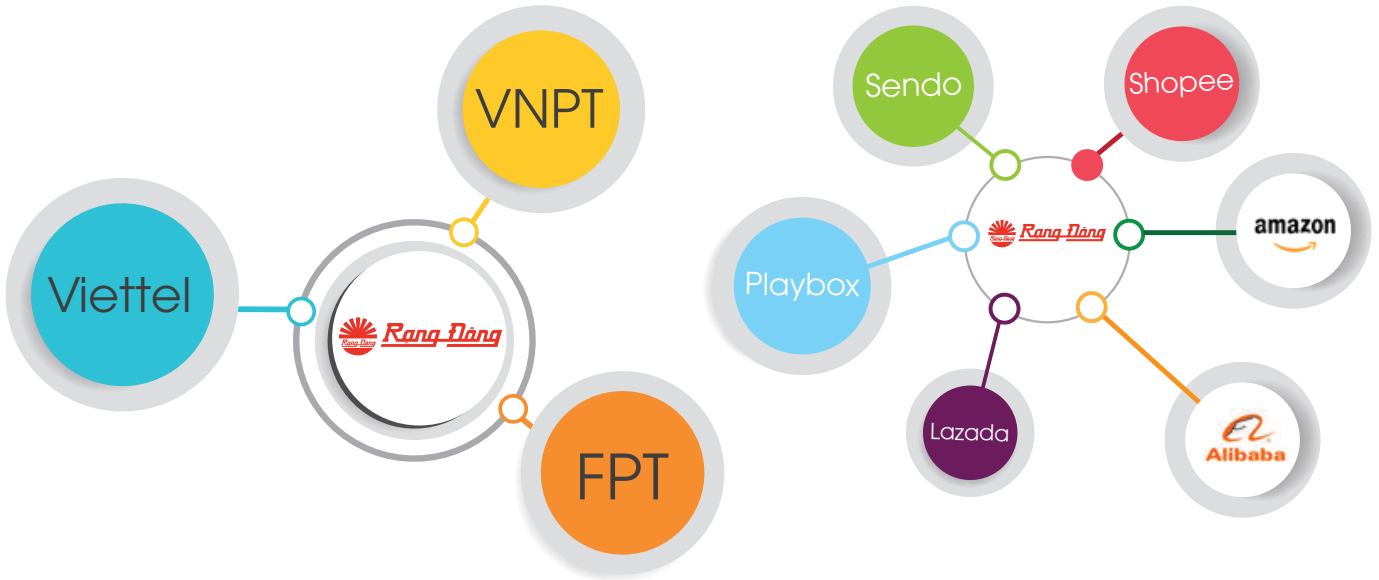


# 02 | **SCIENCE & TECHNOLOGY** ABILITIES



## Science & Technology abilities

Rang Dong has cooperated with domestic and foreign scientists in many different fields: Digital Technology, the Internet-of-Things (IoT) Technology, cloud computing, edge computing, radio signal identification, etc. absorbed scientific and technological achievements such as materials physics, Mechatronics, Smart agriculture, renewable technology, Biomedical optics, etc. to create high-tech products, bring new values to customers, meet the increasing demands of customers.



In 2011, the Lighting R&D Center was established to research on lighting and apply interdisciplinary and transdisciplinary science and technology: physical & material sciences, Mechatronics, optics, microorganism technology, chemistry, etc. to produce high-tech products with high added value, protect human health, and bring a variety of experiences to customers.





Rang Dong Lighting R&D center has been issued certificate of registration for science and technology activities by Hanoi department of science and technology



In 2020, Rang Dong established Business Model R&D Center (BMRDC), Creativity Center and Digital R&D Center (DRDC). The above centers have signed with many large technology corporations of Vietnam such as VNPT, FPT, Viettel etc. to conduct business on digital platforms.



# EXCLUSIVE INVENTION PATENTS, USEFUL SOLUTIONS

Rang Dong currently owns

**184** Intellectual property patents

**134** industrial design degrees

**38** Trademarks degrees

**12** Invention Patents / Useful Solutions

**06** CE marking (Conformité Européenne - European Conformity) for LED Lighting products

**52** KC (Korea Industrial standard) for LED lighting products

**9** KS (Korea Industrial Standard) for LED lighting products

**7** HE (High Efficiency) for LED lighting products

Exclusive Invention Patents, Useful Solutions



## CERTIFICATE OF ACCREDITED LABORATORY



# MASTERING 4 LEVELS OF LIGHTING TECHNOLOGY

## 4<sup>TH</sup> TECHNOLOGY LEVEL

### 4.0 LED PRODUCTS & SERVICE ECOSYSTEM

Rang Dong builds RAL IoT platform  
Automatically change according to the scripts



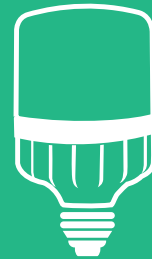
Save **50%** energy  
more than LED lights

## 3<sup>RD</sup> TECHNOLOGY LEVEL

(2011-2019)

### SOLID-STATE LIGHTING (SSL) TECHNOLOGY

Year 2018 is an important milestone ending 7 years and 8 months (2011-2018) that Rang Dong mastered in electronic technology in LED light production.



**10 - YEAR LIFETIME**

**9W**  
1200 lm  
130 lm/W

## 2<sup>ND</sup> TECHNOLOGY LEVEL

### LOW-PRESSURE MERCURY-VAPOR DISCHARGE LAMP TECHNOLOGY

From 1993 to 2015, developing Fluorescent lamps and Compact fluorescent lamps, nearly 22 years of mastering the Low pressure mercury-vapor discharge technology, which created the miracle "Rang Dong Phenomenon"



**03 - YEAR LIFETIME**

**20W**  
1200 lm  
65 lm/W

## 1<sup>ST</sup> TECHNOLOGY LEVEL

### ELECTRIC VACUUM TECHNOLOGY

From 1961 to 1993 - 32 years Rang Dong mastered electric vacuum technology to develop Incandescent lamps



**06 - MONTH LIFETIME**

**100W**  
1200 lm  
10 lm/W

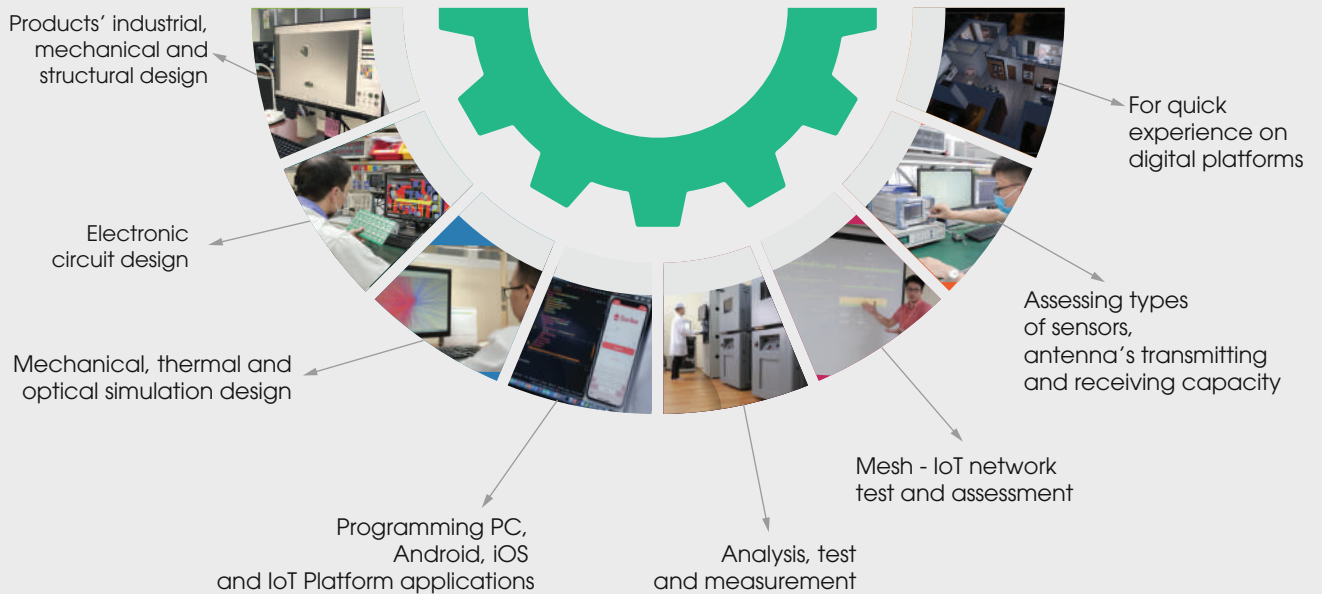




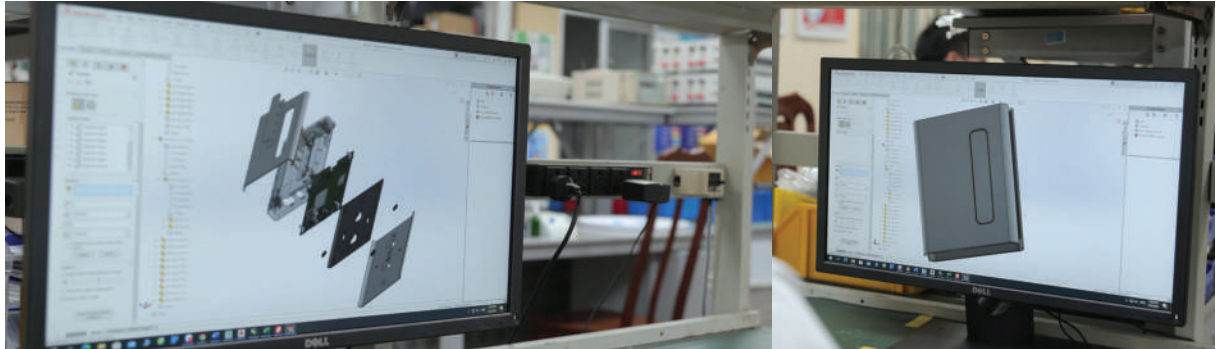
# 03 | **PRODUCT DESIGN** ABILITIES



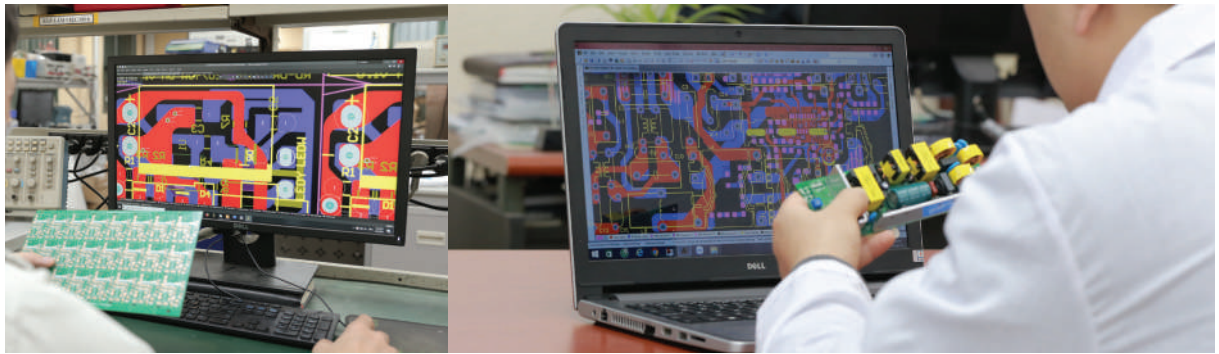
## 8 DESIGN ABILITIES



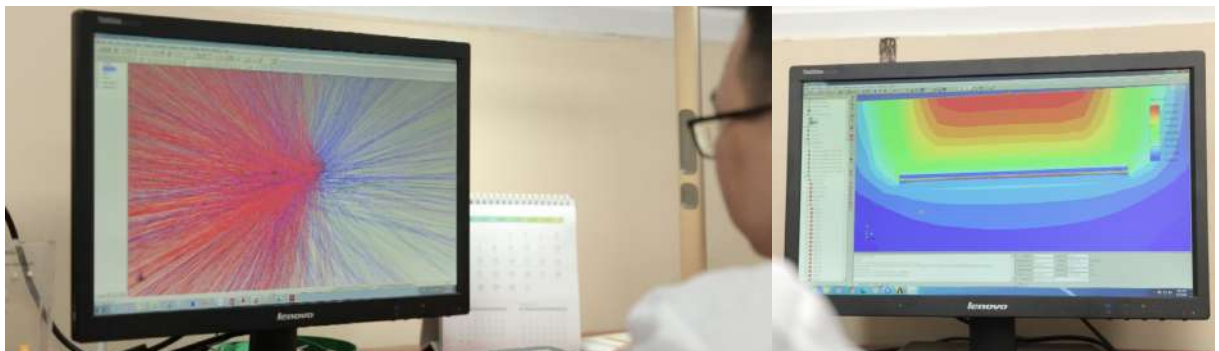
**3D INDUSTRIAL STYLE DESIGN**



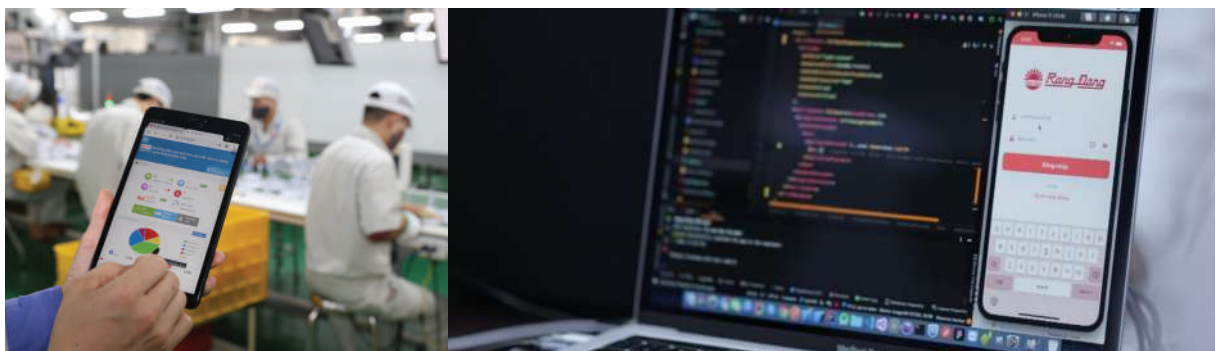
**ELECTRONIC CIRCUIT DESIGN/SIMULATION/OPTIMIZATION**



**MECHANICAL, THERMAL AND OPTICAL SIMULATION/OPTIMIZATION**



**FIRMWARE/SOFTWARE DEVELOPMENT**





## ANALYSIS, TEST AND MEASUREMENT



## MESH - IoT NETWORKING



## RF NETWORK DESIGN



## CUSTOMER EXPERIENCE ON DIGITAL PLATFORM





# 04 | **PRODUCTION** CAPACITY



## PRODUCTION CAPACITY

**100** MILLION  
UNITS/YEAR

LED LIGHTING FOR CONSUMERS

**20** MILLION  
UNITS/YEAR

LED LIGHTING FOR PROFESSIONALS

**32** MILLION  
UNITS/YEAR

VACUUM FLASKS & GLASS REFILLS

**ELECTRONIC ASSEMBLY**



**SUPPORTING TECHNOLOGY**



**AUTOMATIC ASSEMBLY LINES**





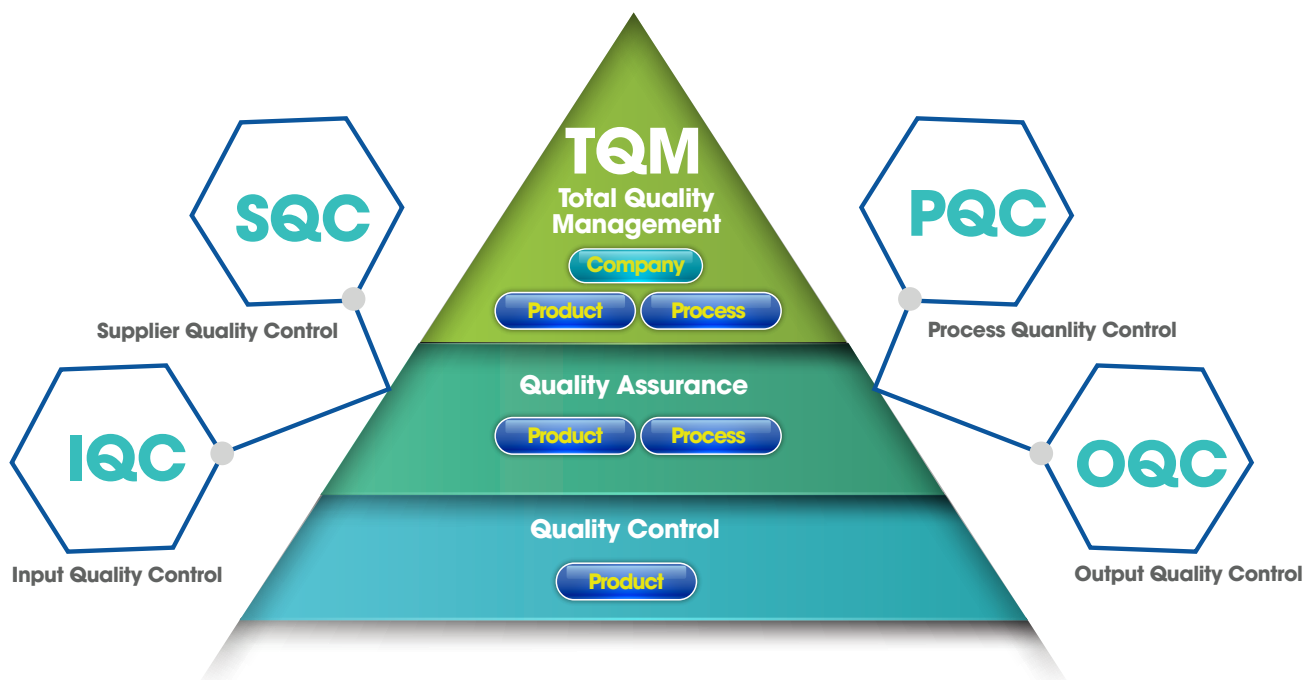


# 05

## QUALITY MANAGEMENT SYSTEM ABILITIES

## QUALITY MANAGEMENT SYSTEM

- Rang Dong always applies the latest versions of quality management systems (ISO): 9001:2015, 14001:2015, 45001:2018, 50001:2005.
- Building a system of processes, regulations and guidelines based on ISO and industry standards.
- Rang Dong implements control from Supplier Quality Control (SQC) Input Quality Control (IQC) to Process Quality Control (PQC) and Output Quality Control (OQC); Moving towards applying Total Quality Management (TQM).
- The equipment and machinery used to evaluate and control the process are periodically inspected annually.
- Quality managers are regularly trained and evaluated to improve their qualifications.



# DIGITAL OPERATION CENTER OF LED-ELECTRONICS & LIGHTING EQUIPMENT FACTORY



Digitalized ISO system



SCADA system (Transferring realtime data to the warning system)



Smart report



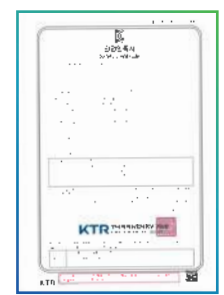
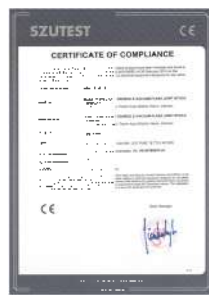
Power BI



Digital Operating Centre



Measuring equipments of accredited lab







# 06 | E-COMMERCE & INTERNATIONAL TRADE



International E-commerce Model

# TYPICAL PRODUCTS

DEVELOPED MARKETS



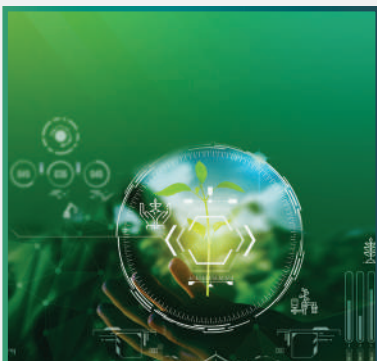
ECOSYSTEM 4.0



**SMART HOME**  
Elevating Life's Values



**SMART CITY**  
Smart Technology  
Community Service



**SMART FARM**  
Science and Technology for Life

# DEVELOPED MARKETS

## NORTH AMERICAN MARKET

BACK-LIT PANEL LIGHT



CEILING LIGHT



BATTEN LIGHT



DOUBLE TUBE LED LIGHT FIXTURE



LINEAR HIGH BAY



DOWNLIGHT



**SOUTH KOREAN**

**BACKLIT PANEL 25/30/40/50W**



**EDGE-LIT PANEL 25/30/40/50W**



**CEILING LIGHT 40/50W**



**CROSS LIGHT 50W**



**LINEAR LIGHT 30/50W**



**PARKING LIGHT 40/50W**



**HOME LIGHTING 40/50W**



**UFO Highbay 100/120/150/200W (AC-IC)**



# AUSTRALIAN & EUROPEAN MARKETS

## DOWNLIGHT 7/9W



## WALL LIGHT 8W



## BATTEN LIGHT 20/40/50W



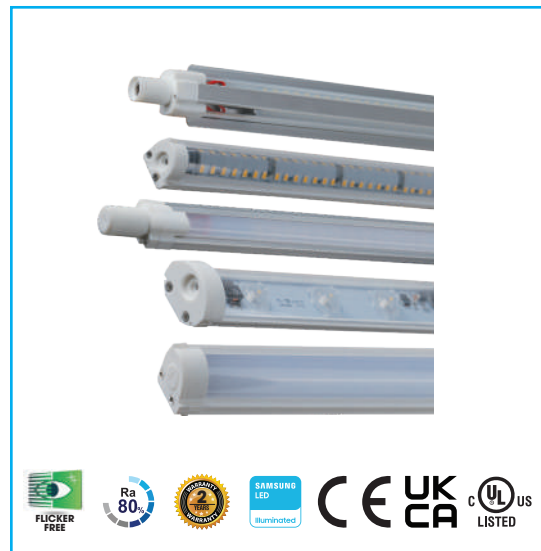
## FLOOD LIGHT 50/100W



## PANEL 9W - TRICOLOUR



## SHELF/REFREGERATION LIGHT





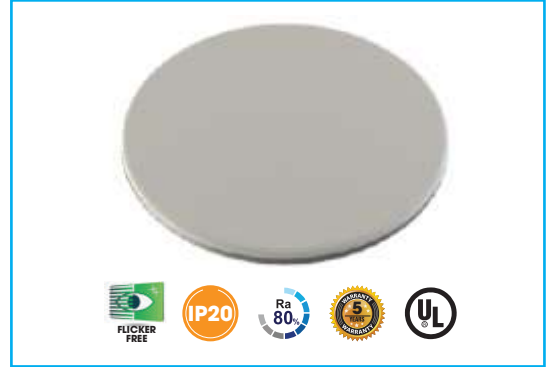
## ECO SYSTEM 4.0

### SMART HOME

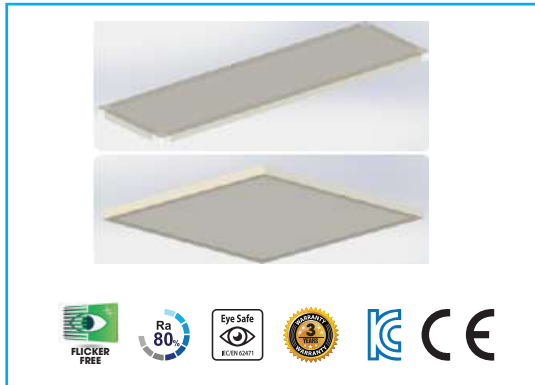
#### REMOTE CONTROL CEILING LIGHT (EU/KR)



#### REMOTE CONTROL CEILING LIGHT (US)



#### REMOTE CONTROL BACK-LIT PANEL LIGHT (EU/KR)

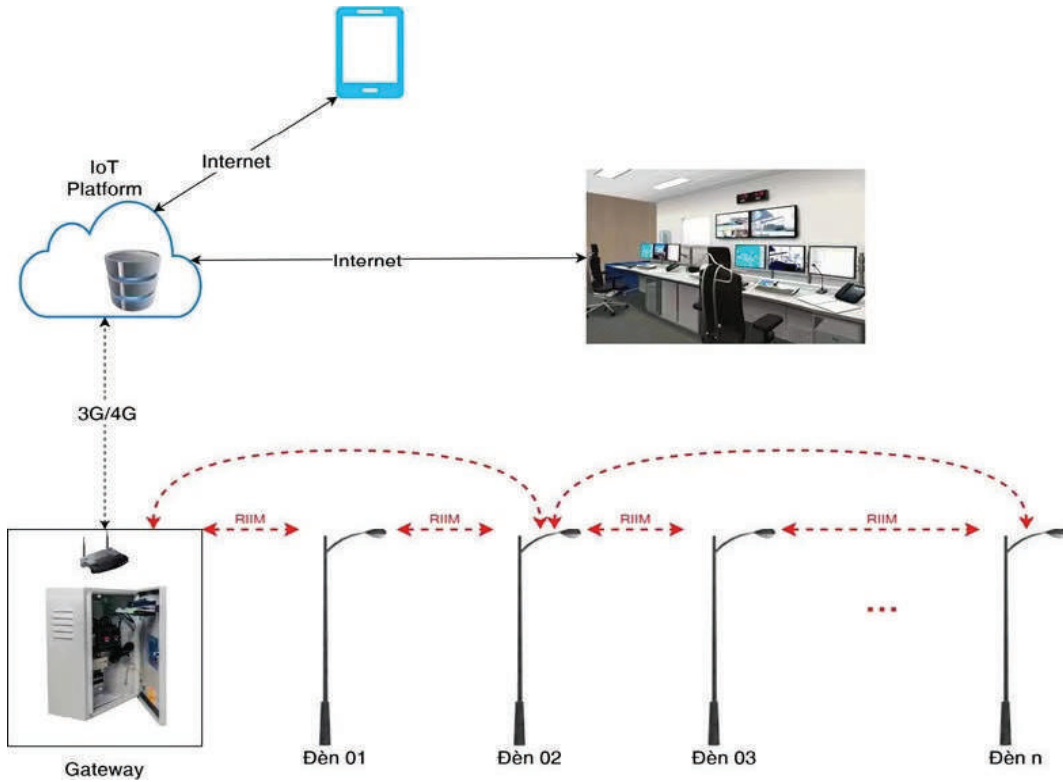
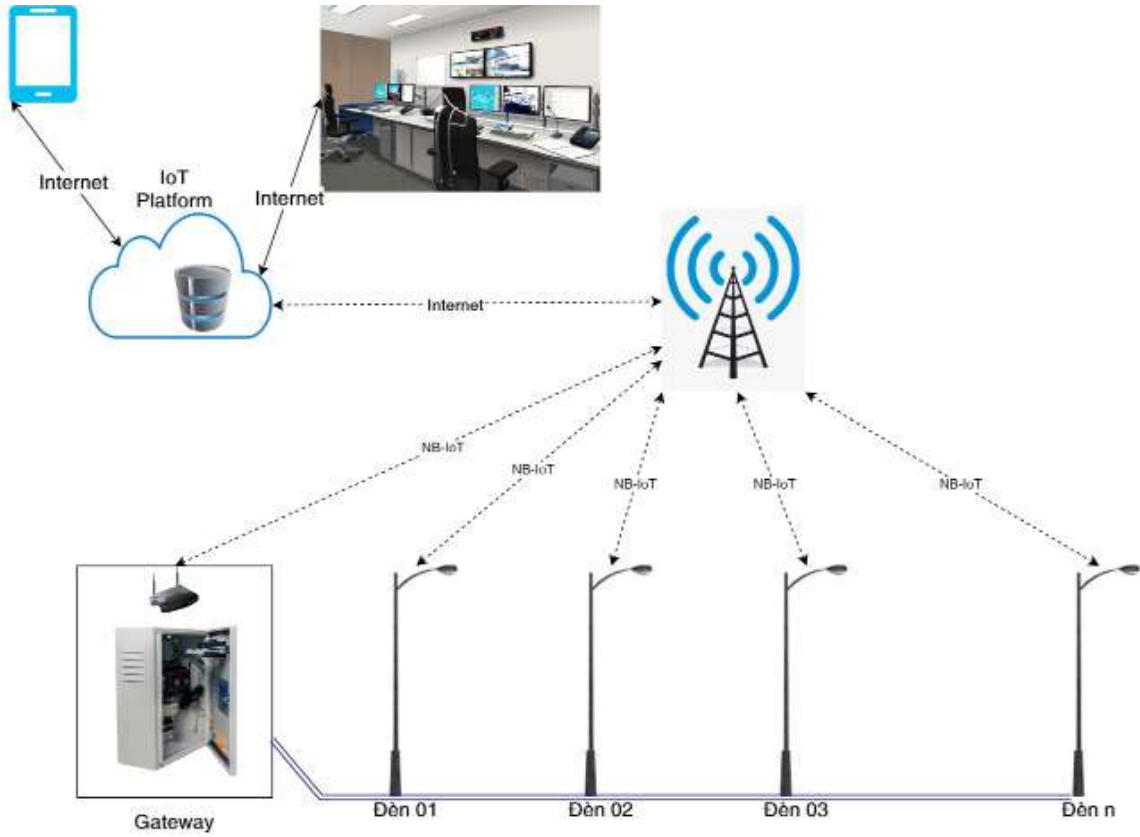


#### SMART WIFI PLUG (US)





# SMART CITY: Smart street light system



## LED Street Lights



- Power Levels: 75W-150W
- Ensure performance and safety technical specifications according to domestic and international standards.
- High quality of light, suitable light color, optical beam angle suitable for each type of road.

## DEVICE



Power supply for each route, light cluster.


Scheduled light on/off and other functions from the control center.

The control cabinet operates on the basis of the infrastructure that is power supplied from the low-voltage grid

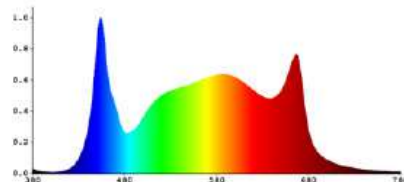
All switchboard operating schedules are programmed and pre-set or customized to suit reality from the control center.

# SMART FARM


## LED HORTICULTURE GROW LIGHT



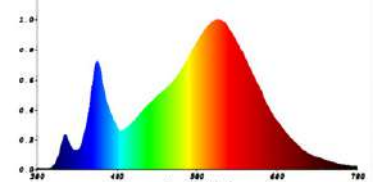
Eye Safe  
5 YEAR WARRANTY  
CE UL FC




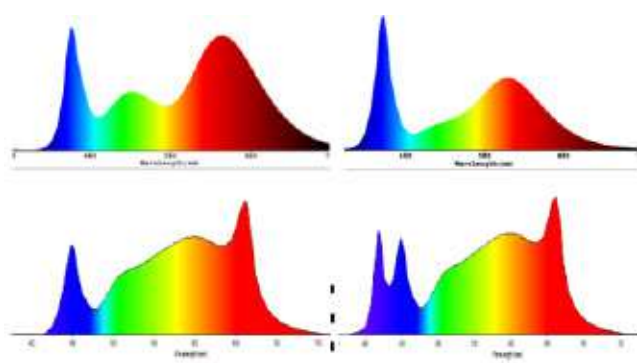
## LED UFO/WBU



IP65 Eye Safe 3 YEAR WARRANTY CE UL FC KC



## LED GROW LIGHT TUBE T5/T8

IP65 Eye Safe 3 YEAR WARRANTY CE UL FC KC

## LED LIGHT FOR DRAGON FRUIT GROWING



1.0 = 1.00W/0.0100W



IP65 Eye Safe (IECEN 62471) CE KC

## LED LIGHT FOR CHRYSANTHEMUM GROWING



1.0 = 1.00W/0.0100W



IP65 Eye Safe (IECEN 62471) CE KC

## **RANG DONG LIGHT SOURCE AND VACUUM FLASK JSC**

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