Seoul Semiconductor - LED Supplier



12 June 2023. 15:00 - 17:00 CEST

EPIC Online Technology Meeting on Agriculture



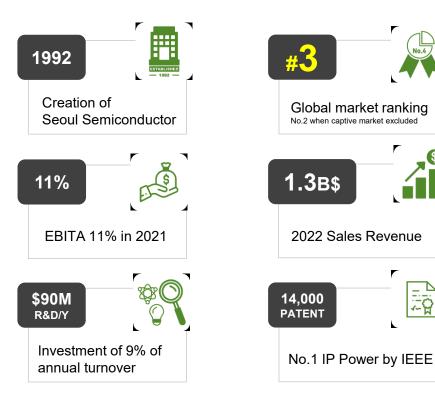
Seoul Semiconductor Highlights



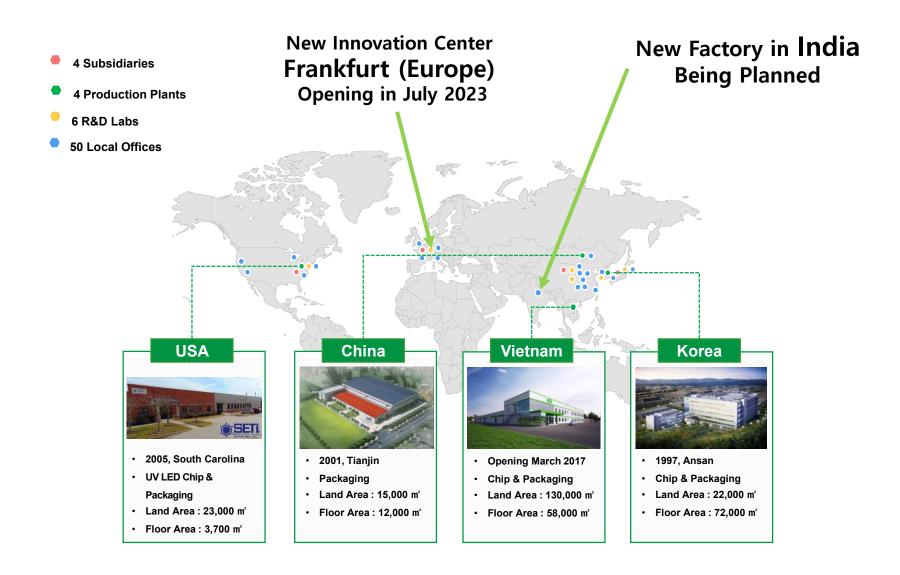


World Top LED # 1

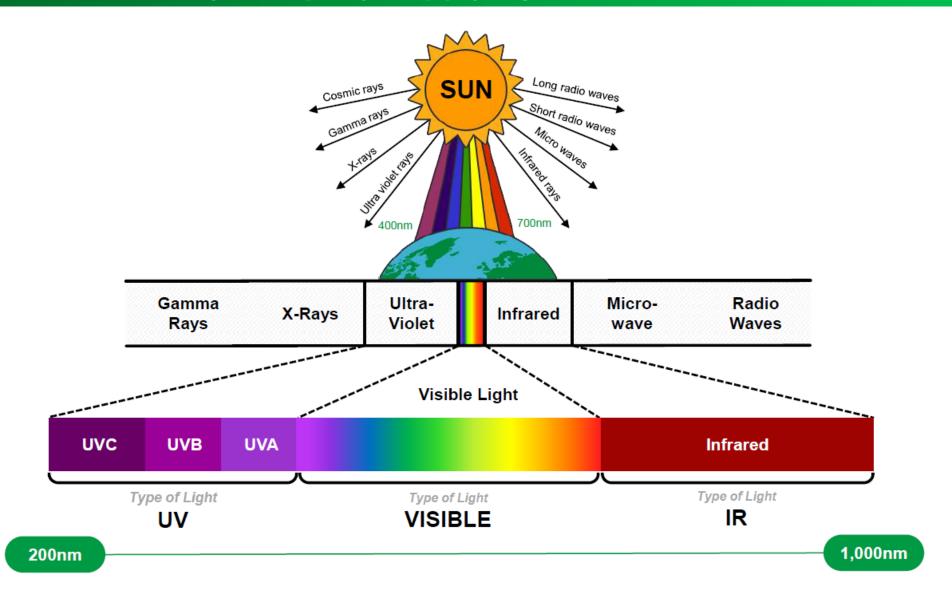
With 15% Market Share by 2023



TOP World Player



The only company supplying from UV to IR



Key Supplier in Technological Markets

Lighting

Automotive

Display & Mobile

IR / VCSEL

UΥ











We focus on LED products



Top efficiency products



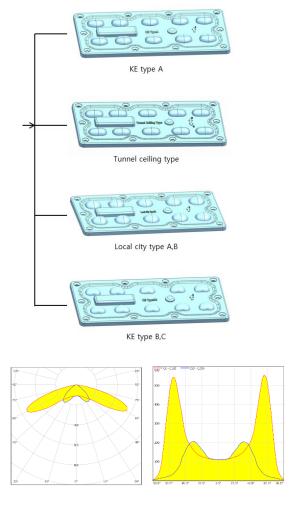
Best reliability and lifetime

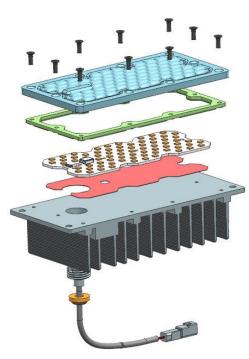


Cost effective proposals for mass market

More than LEDs

We can support the development of any horticulture challenge

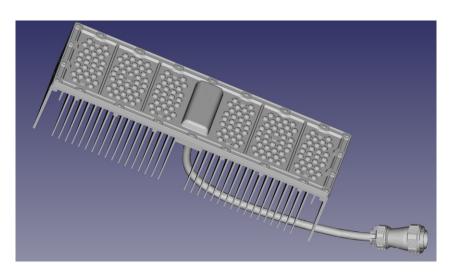


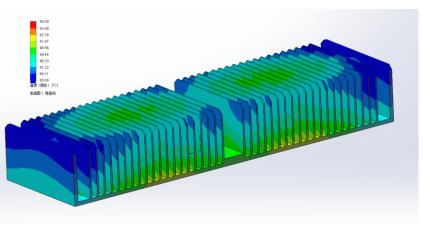


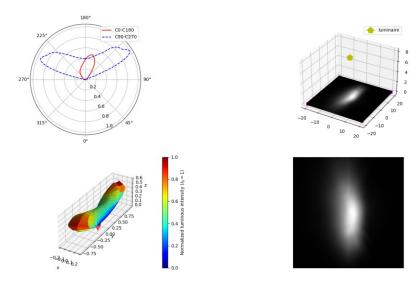


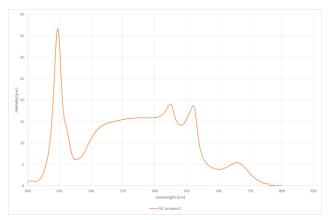
More than LEDs

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Horticulture LED market projection

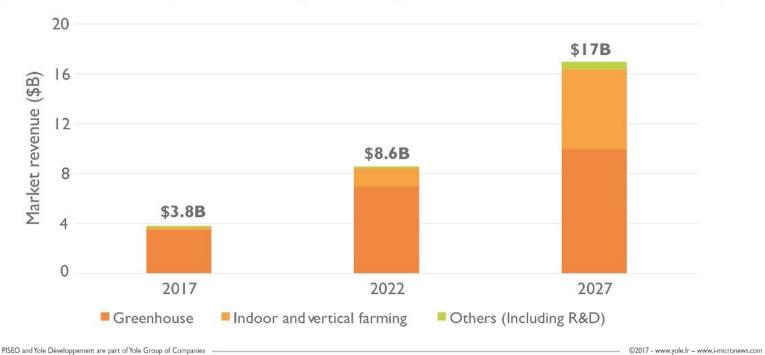






Horticultural lighting market revenue (\$B) 2017 vs. 2022 vs. 2027

(Source: Horticultural LED Lighting: Market, Industry, and Technology Trends report, Yole Développement, November 2017)



on Agriculture

LEDs already taking the horticulture market



LEDs applied in home appliances to keep freshness



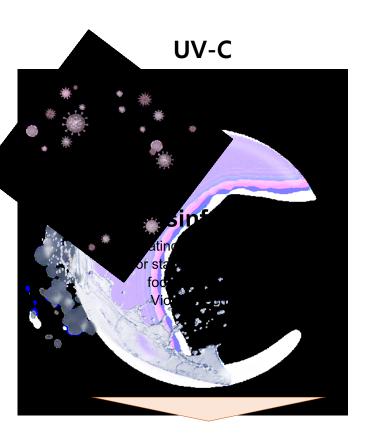
tecnología de luz azul.





** El sistema de luz de 3 colores de HarvestFresh™ consume un 45% menos de energía que la tecnología de luz azul.

UV LEDs are the future for the horti sector



- Firewall on bacteria and mold spreading in water and air
- Secure harvest & earnings
- Increase shelf life

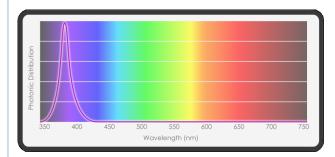
UV-B

UV-A

Formulation of Antioxidants



Stimulation of Growth processes



- Increase content of Antioxidants
- Natural part of sun spectra
- Triggers several processes in plant grow
- Increase harvest

310 nm

365 - 405 nm

275 nm



UV LEDs are the future for the horti sector



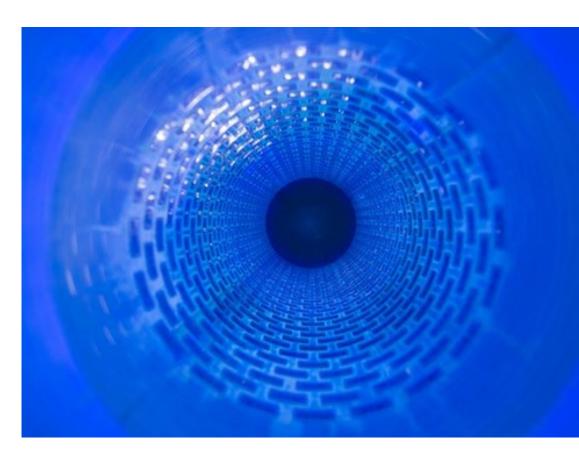
Strawberries after 9 days in cold storage (a) dark control (b) illuminated with UV-B lights

We improve the shelf life of the products

B

UV LEDs are the future for the Water sector





UV-C for water disinfection will change the World

UV LEDs are the future for the horti sector





UV-C applications in disinfection and plague control



We focus on LED products production

We look for partners to develop new products

We look for researchers to test our tech

THANK YOU

www.seoulsemicon.com