



SEOUL[★]**VIOSYS**

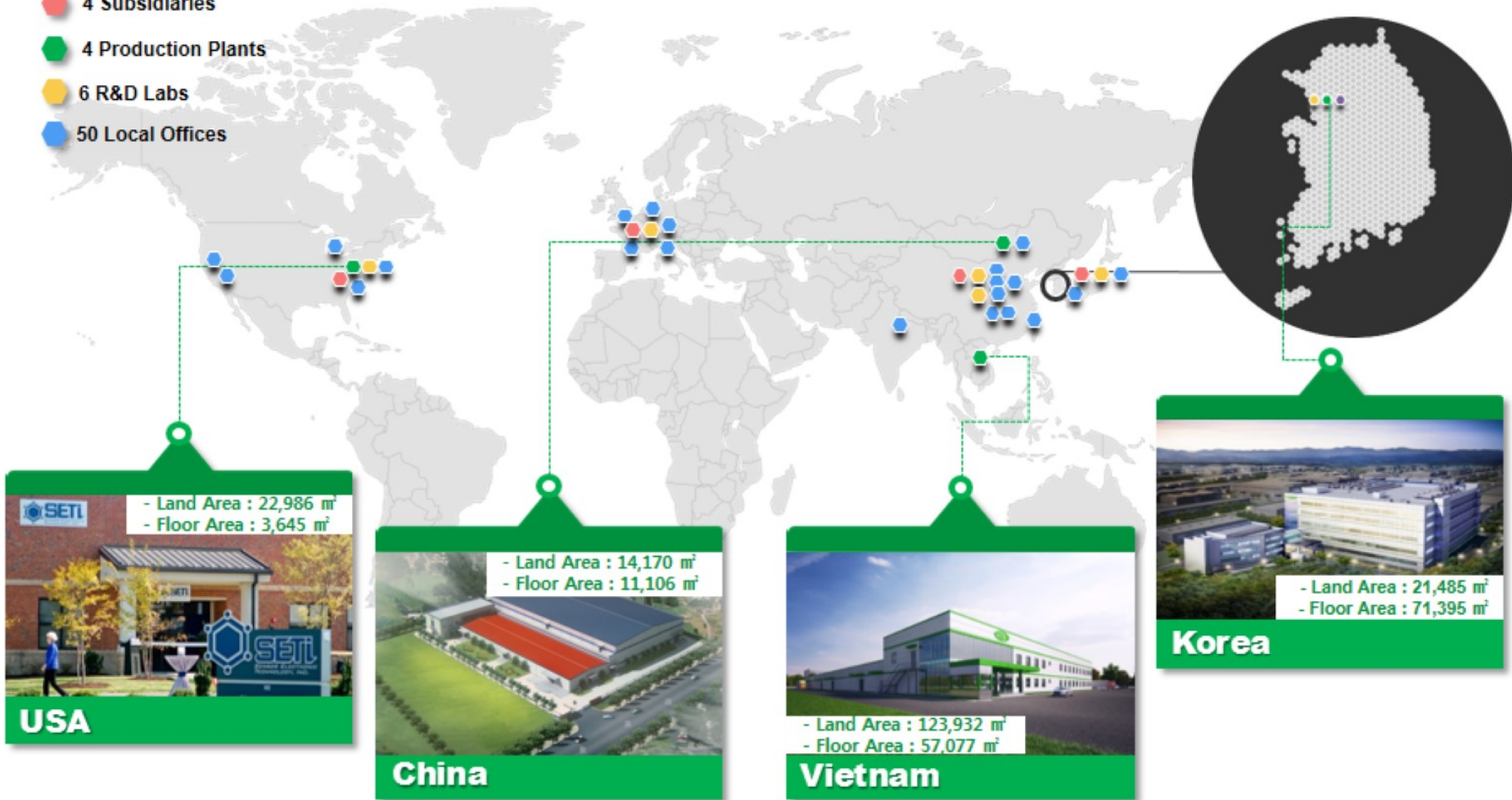
WE AIM FOR BRIGHT FUTURE

Global Network



4 Production Sites, 6 R&D Labs, >3.000 employees, 3 billion LEDs/month

- 4 Subsidiaries
- 4 Production Plants
- 6 R&D Labs
- 50 Local Offices



Business Segments



Lighting

Blu & Mobile

Automotive

UV

NB



- Compact Design
- Energy Savings
- Custom Modules



- Slim Design
- Excellent Image Quality
- Custom Modules



- High Reliability
- Custom Color
- Custom Modules



- Full range wavelength
- World 1'st UVB/C
- Various applications

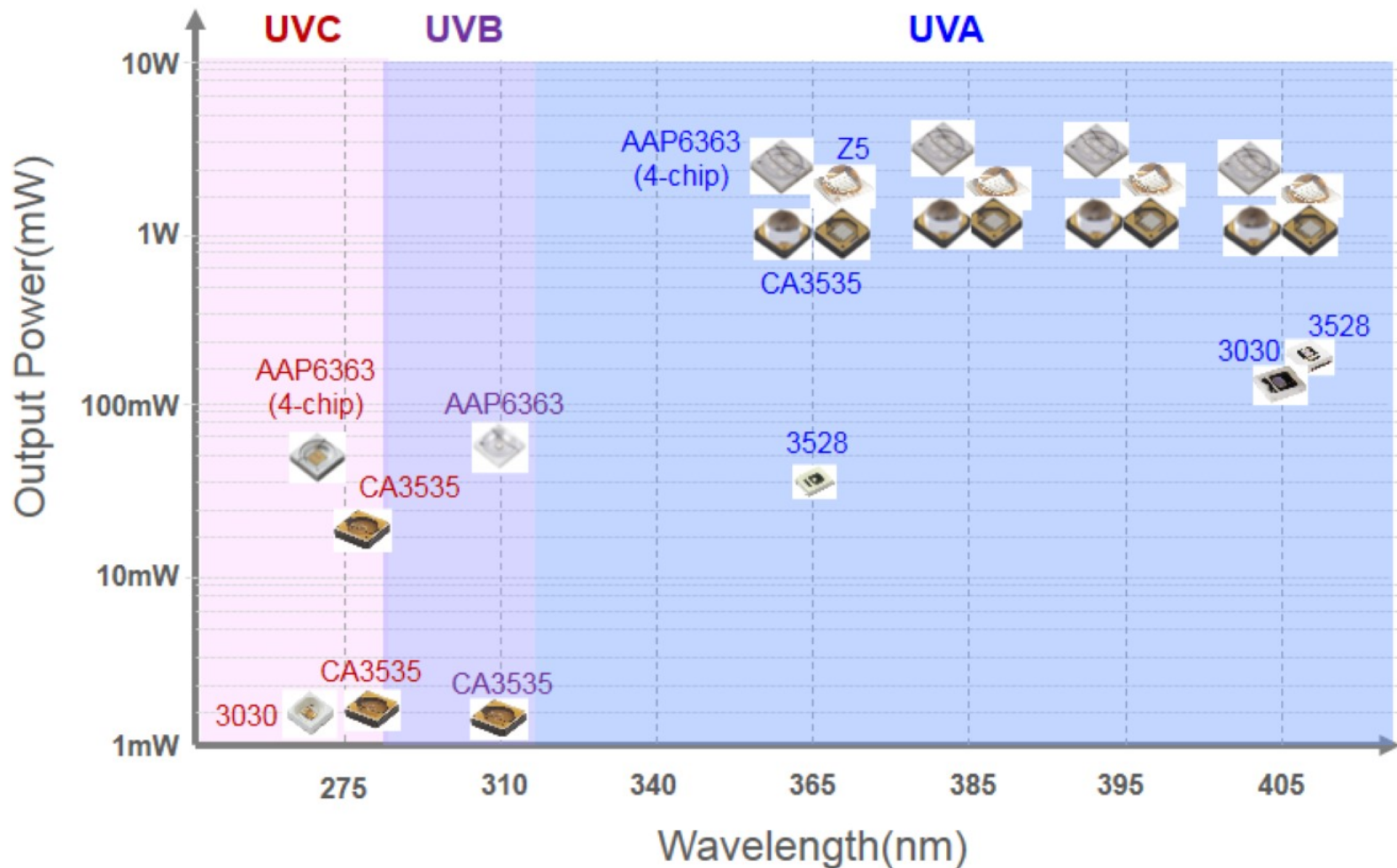


- Micro LED
- IR / VCSEL
- Sensor Module



UV LED Portfolio

✓ UVC (275nm) to UVA (420nm) in mass production



Specification of UVC PKG

Product Feature EMC Lead-frame type 3030, Ceramic(AIN) CA3535 and AAP(Metal Frame) with Flat Glass Window

Product Image



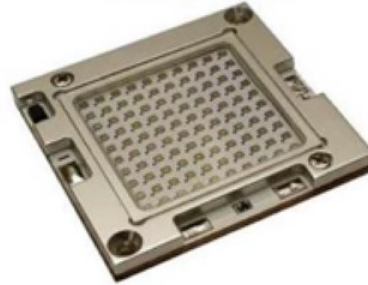
Part #	CUD7QF1A	CUD7GF1A	CUD7GF1B	CUD8AF4D
Peak Wavelength	275nm	275nm	275nm	275nm
Opt. PWR Output	1.6mW	3mW	22mW	60mW
Beam Angle	125°	120°	120°	118°
PKG Dimension	3.0 x 3.0 x 1.05mm	3.5 x 3.5 x 1.2mm		6.35 x 6.35 x 1.4mm
3log, Disinfection result (5cm / 10cm / E.coli)	5min / 20min	3 min / 10min	1 min / 1.5min	<30sec / <1min

UVC WOB Examples

1 WICOP Chip

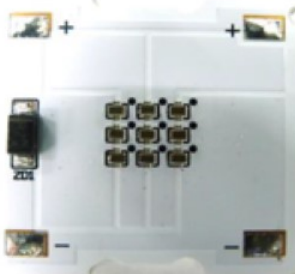


100 Chip WOB



Various examples of different UVC WICOP on board (WOB) solutions from 100mW to 2.000mW.

9 Chip WOB



16 Chip WOB



9 Chip WOB



280mm

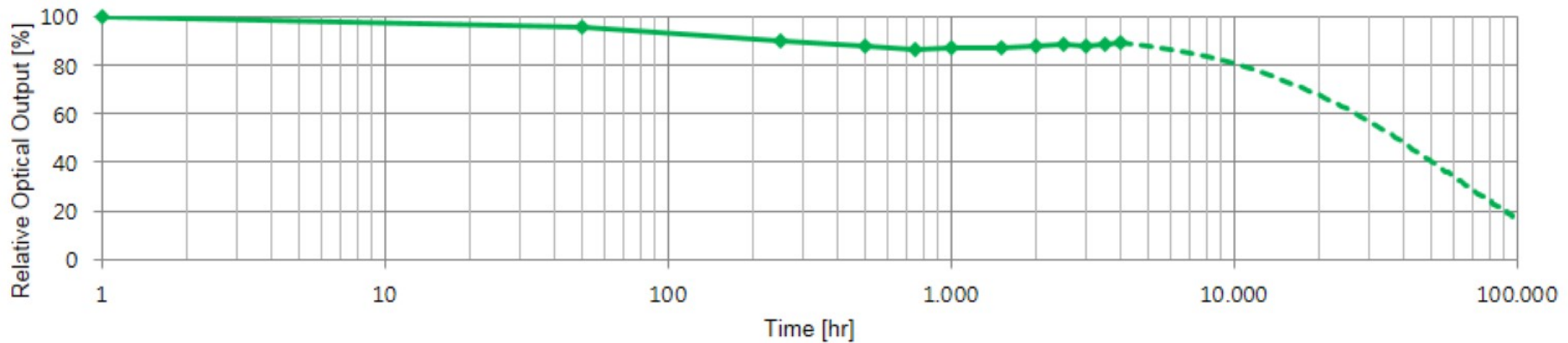
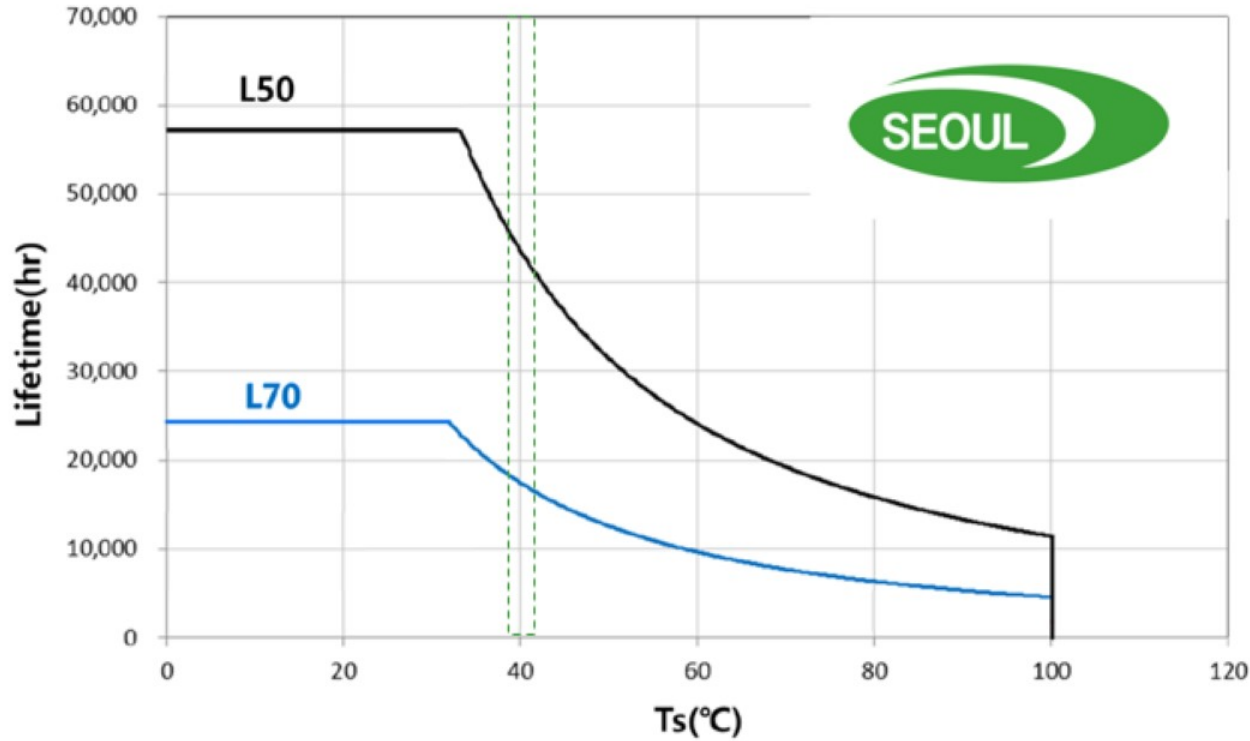


48 Chip WOB

24 Chip WOB

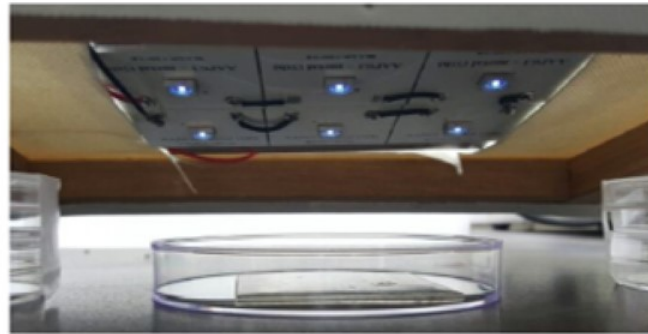
12 Chip WOB

Life-time of UVC LEDs



UVC test result: Mold

UVC LEDs at 275nm with 36mW, 5cm distance, 60 min exposure time,
 Test specimen: *Aspergillus Flavus*



Usage UV/Day	1	2	3	4	5	6	7	8	9	10
Everyday										
Day 1 + Day 2										
Day 1										
CONTROL										



THANK YOU!

www.seoulviosys.com

marko.hofmann@seoulviosys.com

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