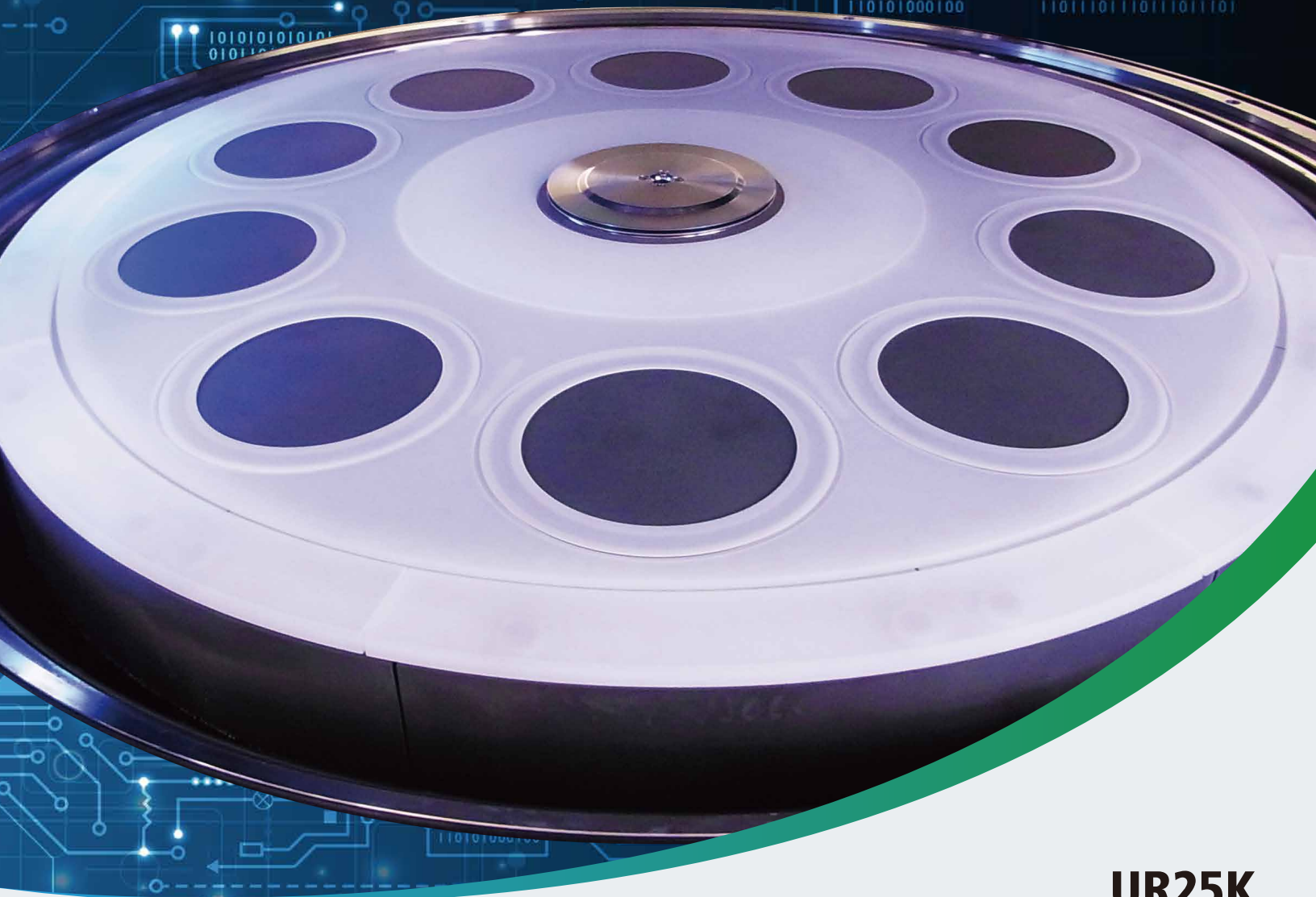


# The Ultimate Gallium Nitride MOCVD System for High Quality Mass Production



**UR25K**

- Large scale deposition system
- Based on Proven and Reliable Design

# Evolution for Productivity Improvement For Power, High Frequency and Optical Devices

## Advantages

- Based on the quality and uniformity-proven horizontal reactor design with triple gas injection
- Automated parts handling system for high throughput
- Multiple zone heater for uniform in-plane temperature distribution
- Wafer rotation by mechanical gear results in stable and controllable wafer rotation



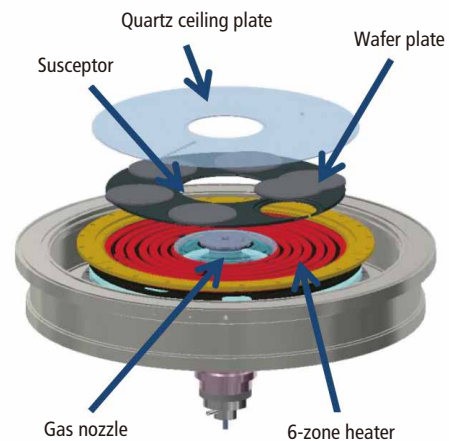
## UR25K Specifications

\*General specifications are listed below.

Reactor type	Face up, rotation & revolution
Wafer size	4" x 10 or 6" x 7
Heating system	Multi zone resistance heater
Sources	TMGa, TEGa, TMAI, TMIIn, NH <sub>3</sub> , Cp <sub>2</sub> Mg, SiH <sub>4</sub>
Gas nozzles	Three laminar flow horizontals
Transportation	Automatic susceptor unit transportation

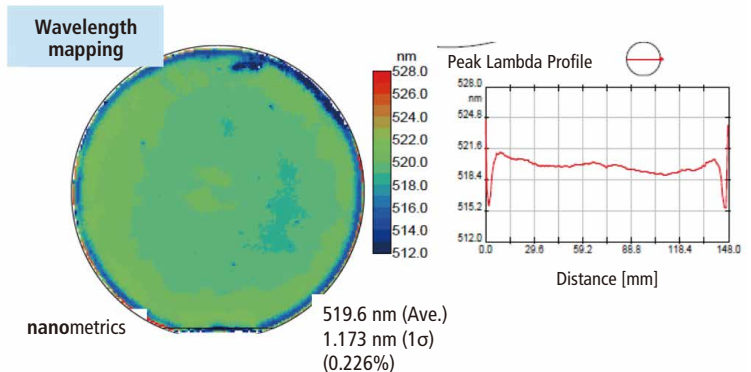
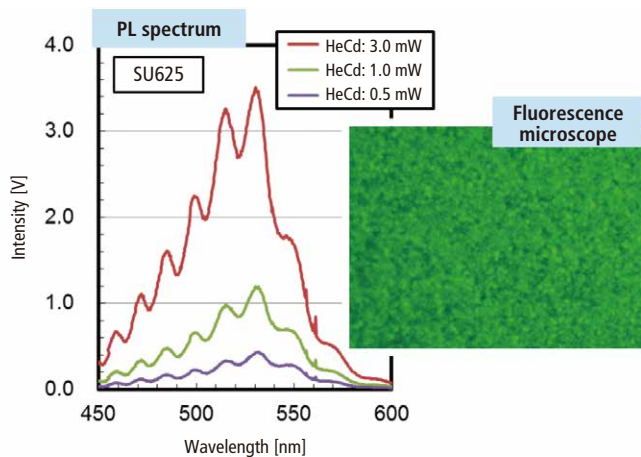
\*Options: Cassette-to-Cassette System

## UR25K reactor interior geometry



## Reference

### 6" green MQW wavelength uniformity



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<https://nsc.jp.nipponsanso.com/mocvd/>



<https://www.youtube.com/watch?v=iyMkq5xpfUg>



[https://www.youtube.com/watch?v=\\_OUGapoN16U](https://www.youtube.com/watch?v=_OUGapoN16U)

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