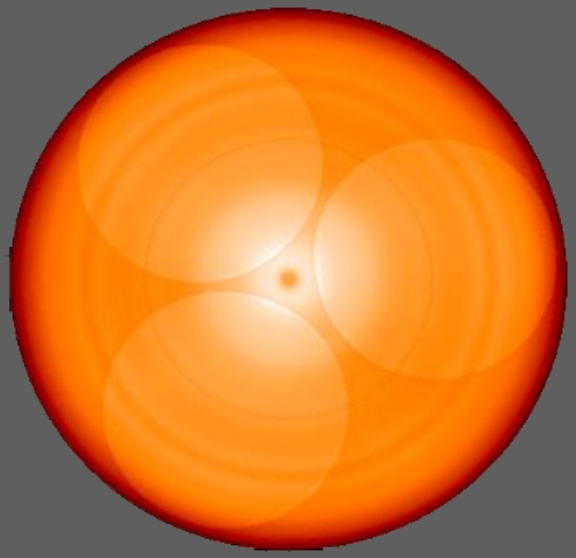
kSA Scanning Pyro

Full Carrier Temperature Maps at the Click of a Button!



- Quickly, easily, and accurately generate full carrier temperature maps
- Determine temperature uniformity, adjust heater zones, easily see hot and cold areas
- Two calibrated sensor heads enable full center to edge scans in under two minutes on Veeco 465i reactor

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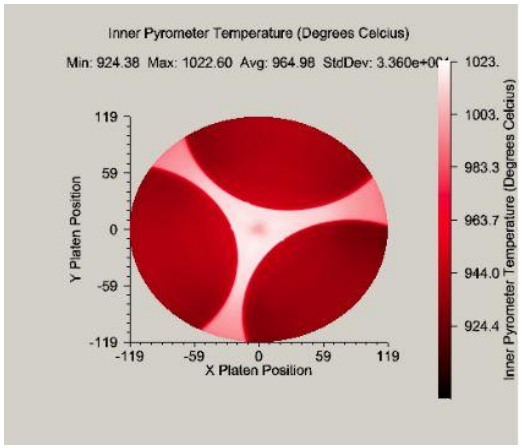
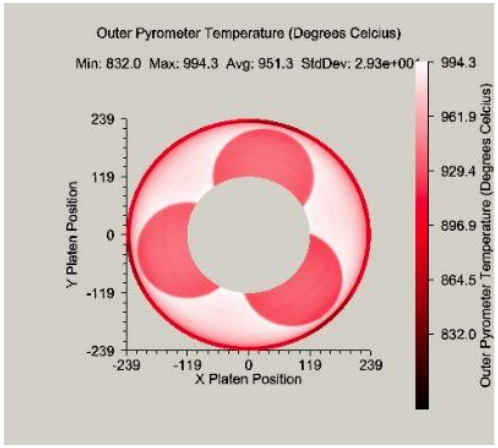
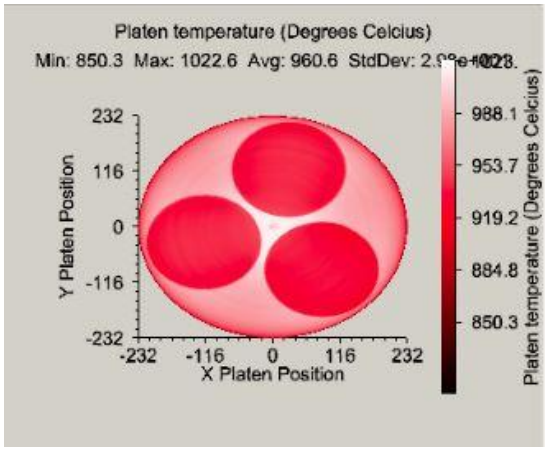
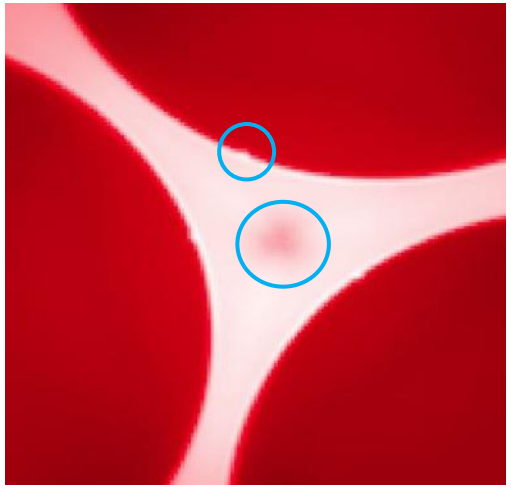






Carrier map with 200mm silicon wafers

Two pyrometer heads combine to provide a *FULL* center-to-edge temperature map from a single scan



Angular resolution of 0.3 or better resolves even the finest details such as wafer notches and cold spot due to spindle as shown above

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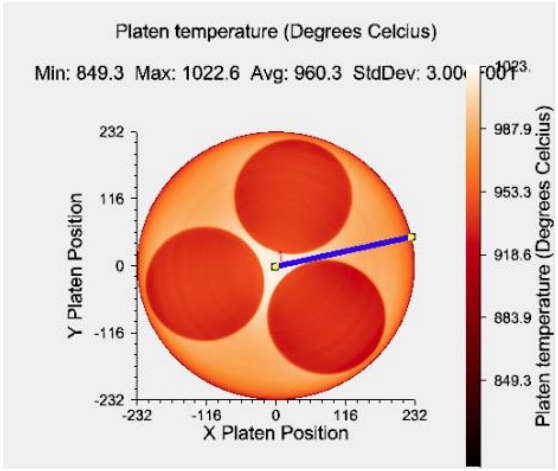
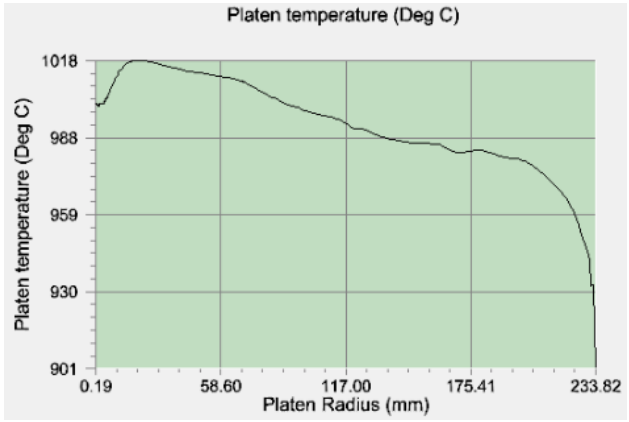
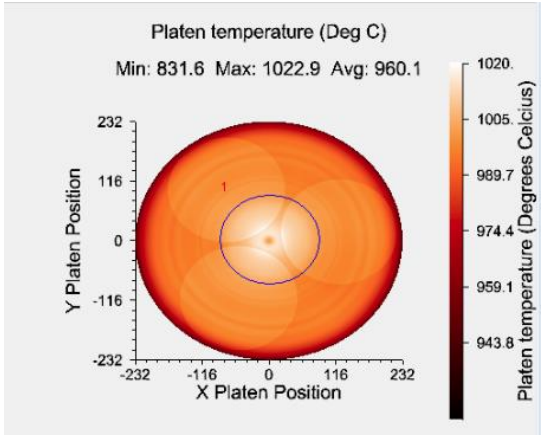
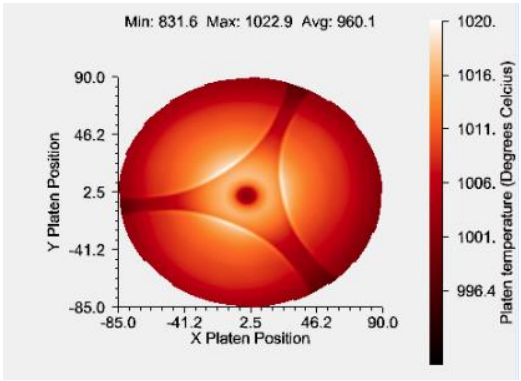
Analysis Capability





User selectable line profile - any position, length and line width





User selectable area maps for zoom-in analysis capability

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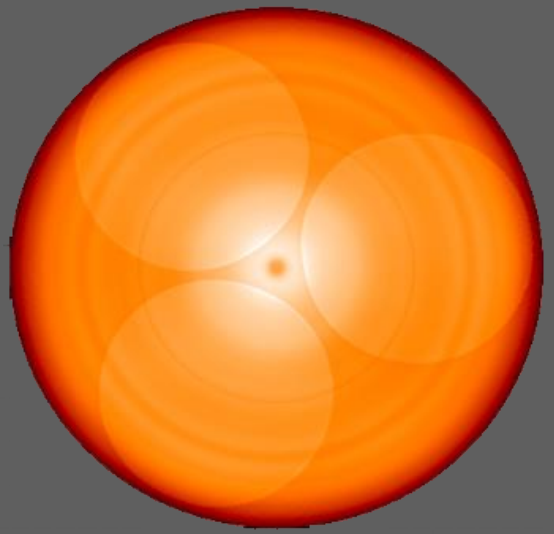
Complete Carrier Temperature Characterization



Functional Specifications

Applicable MOCVD reactors	k465i, Epik 700
Scan range	Full carrier, or any subset specified by the user
Temperature range	530 – 1250°C (higher temperature range units available upon request, e.g. for AlN applications)
Temperature resolution	0.5°C or better at growth temperature
Scan resolution	User selectable. Typical radial scan step size: 1mm. Angular resolution: 0.3° or better.
Scan time	100 seconds for full carrier scan on k465i with 1mm radial step resolution.