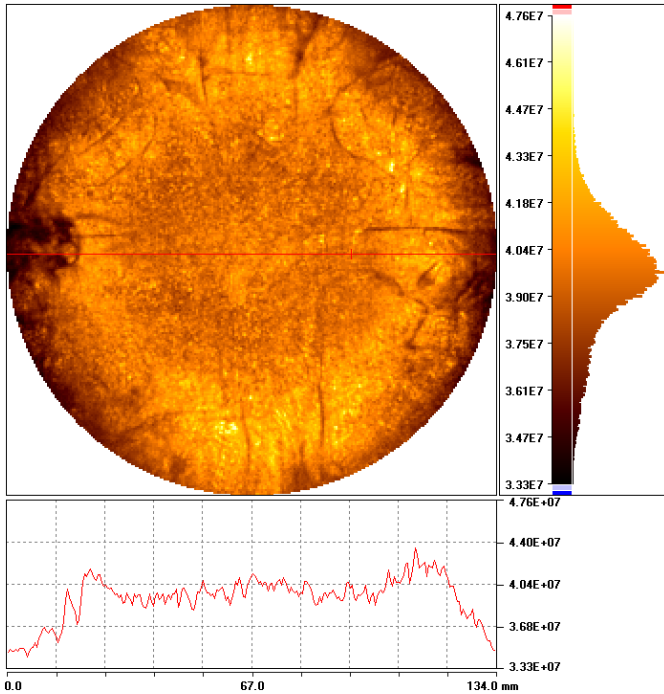


COREMA

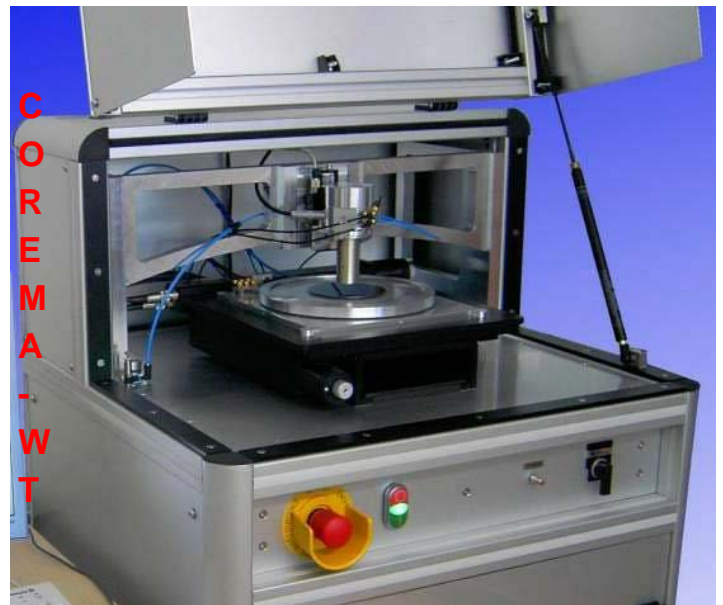


Contactless Resistivity Mapping and Mobility Measurements for Semi-Insulating Substrates



- GaAs, InP, SiC, GaN, Cd(Zn)Te
- Rapid Full Wafer High Resolution Resistivity Topography
- Resistivity Range:
 $1 \times 10^5 - 1 \times 10^{12}$ Ohm-cm
- Fast, 1% Repeatability

- Non-Destructive Measurements
- No Sample Preparation
- Wafer Sizes up to 150/200mm
- For Wafer Production and Process Development



Replaces Slow, Destructive Hall Measurement

- No Sample Preparation
- No Loss of Wafer Material
- Rapid Mobility Measurement (<1 min)
- High Lateral Resolution (1mm)
- Non-Contact
- Excellent Repeatability

COREMA Series System Options

| Configuration | Measurement Capability |
|--------------------|---|
| COREMA - <i>WT</i> | <ul style="list-style-type: none">* Measure substrate resistivity.* Automated full wafer resistivity topography mapping. |
| COREMA - <i>RM</i> | <ul style="list-style-type: none">* Measure substrate carrier concentration, mobility, and resistivity.* Manual multi-point measurement. |
| COREMA - <i>ER</i> | <ul style="list-style-type: none">* Measure epitaxial buffer layer resistance* Example: GaN layers on SiC or sapphire substrates. |
| COREMA - <i>VT</i> | <ul style="list-style-type: none">* Measure substrate resistivity at variable temperature up to 673K/400C.* Evaluate activation energy. |