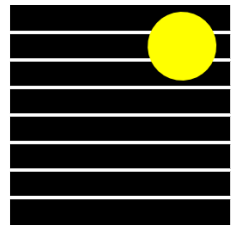


ContactSpot

Measure contact resistivity

Measure line resistance

BrightSpot



Automation

Optimize solar cell performance

R&D experiments

Factory quality control

Accurate values for grid modeling

Metal gridline measurement

Contact resistivity to silicon ($\text{m}\Omega\text{-cm}^2$)

Line resistance ($\text{m}\Omega/\text{cm}$)

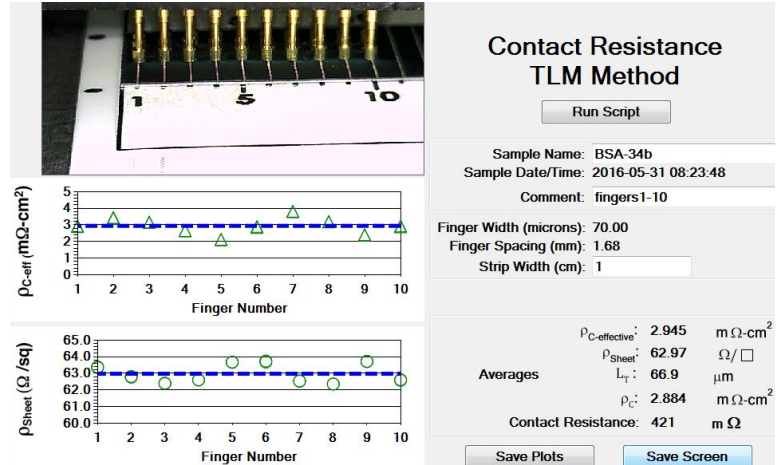
Sheet resistance between gridlines
(Ω/square)

< 30 sec/test including sample loading & alignment

10 current injection and 10 voltage measurement probes

Microscope with screen display and x-theta adjustment for fast sample alignment

Correction factors for voltage drop down narrow fingers



Benefits over manual contact resistivity measurements

Much faster test time

More consistent results

No room-light artifacts

Mapping across the test strip

Automated data analysis

Advanced algorithms

