



FAST Quantum Efficiency Measurement System

High-speed operation
by reducing data acquisition time
from several minutes to a few seconds

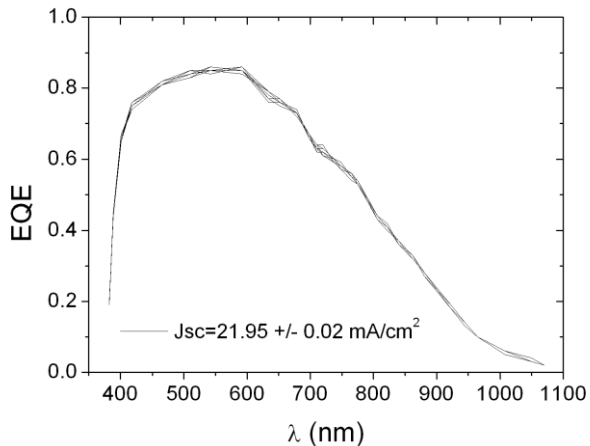
This is not a system made to compete with traditional monochromator based systems, but to rocket up solar cell manufacturing R&D projects.



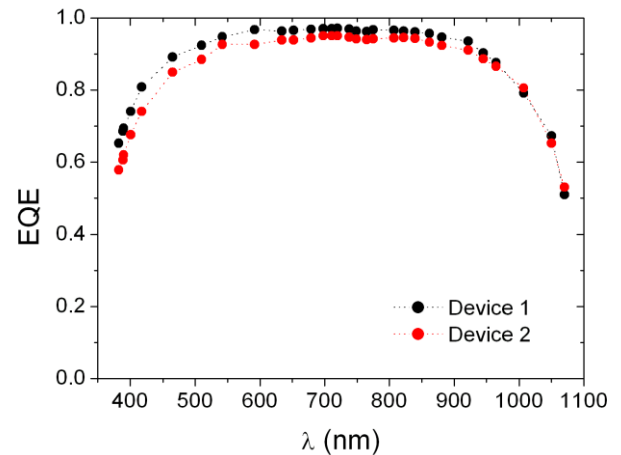


FAST Quantum Efficiency Measurements¹ Gallery

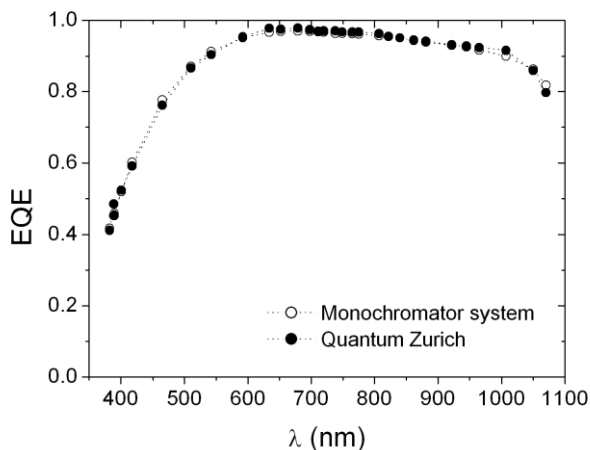
Repeatability: 10 measures every 5'
a-Si Microcrystalline cell



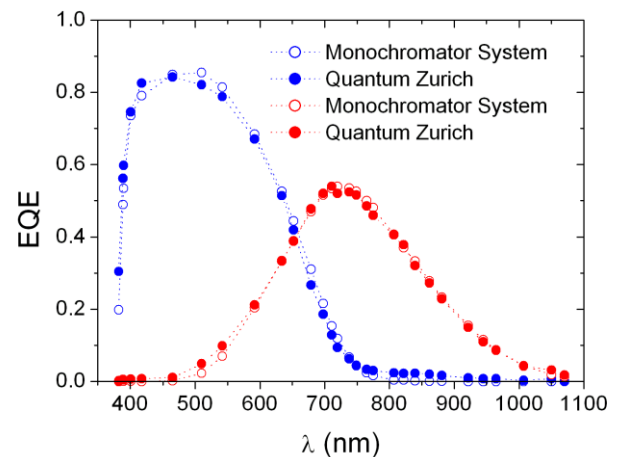
Monocrystalline Silicon cell
(156 mm x 156 mm wafer)



Heterojunction (HIT) cell (6.25 cm²)



a-Si Micromorph tandem cell (1 cm²)



- Measurement time 5 s
- Includes beam splitter to monitor light intensity
- Voltage and light bias capability
- Light source based on LED technology
- The fiber optic coupling allows for more flexibility in the final set-up

¹ Quantum Zurich gratefully acknowledges the support of the Photovoltaics and Thin Film Electronics Laboratory, EPFL-STI-IMT NE-PVLAB, Neuchâtel (Switzerland) for providing the samples and performing the monochromator-based EQE measurements.