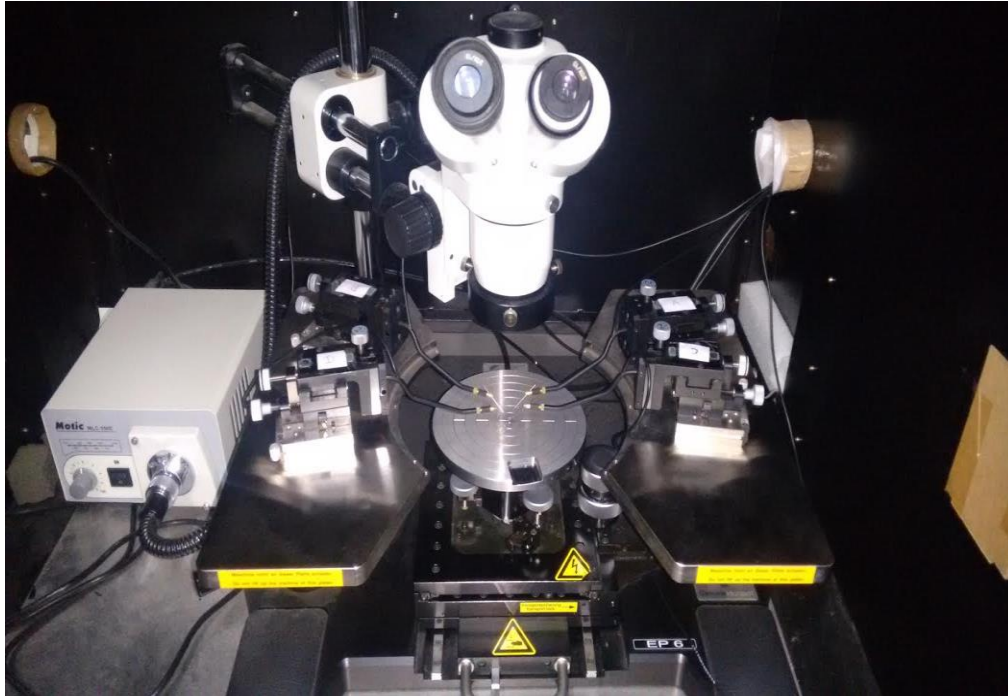


## GLIMPSE : VEGA TOOL

Features of Model Keithley 4200 SCS (Semiconductor Characterization System):



Vega Tool

This system is used for room temperature IV/CV measurements. It is a product by Keithley Instruments Model 4200 semiconductor characterization system (SCS).

Following Measurement can be done:

1. Room temperature 2, 3, 4 terminal IV.
2. Room temperature 2 terminal CV.

Following Measurement can be done:

1. Frequency/ Noise measurement.
2. Low temperature measurement.

## Instruments Presents:

1. Keithley S4200 SMUs - 3
2. Keithley C4200 CV card – 1
3. Keithley 708 A switch matrix – 1

## Specification:

1. Through SMU :  
Max Voltage: 210 Volts  
Max Current: 105 mA
2. Through LCR meter :  
Min Frequency: 1KHz  
Max Frequency: 10MHz

## Instrument Connections:

1. Three SMUs are connected to switch matrix column 1 (SMU 1), 2 (SMU 2) and 3 (SMU 3) respectively.
2. GNDU is connected to switch matrix column 4.
3. Manipulator A, B, C and D connected to switch matrix rows A, B, C & D respectively.
4. Chuck connected to row E.
5. CV High connected to column 10.
6. CV Low connected to column 11.

## Environmental Consideration:

### 1. Storage environment

- Temperature: -10 °C to +60 °C
- Relative Humidity: 5% to 90%, non-condensing

### 2. Operating environment

- Temperature: +15 °C to +40 °C
- Relative Humidity: 5% to 80%, non-condensing
- Proper Ventilation to avoid over heating. Allow at least 8 inches of clearance at the back of the mainframe to assure sufficient airflow.
- The model 4200 SCS should be operated in a clean dust free environment.