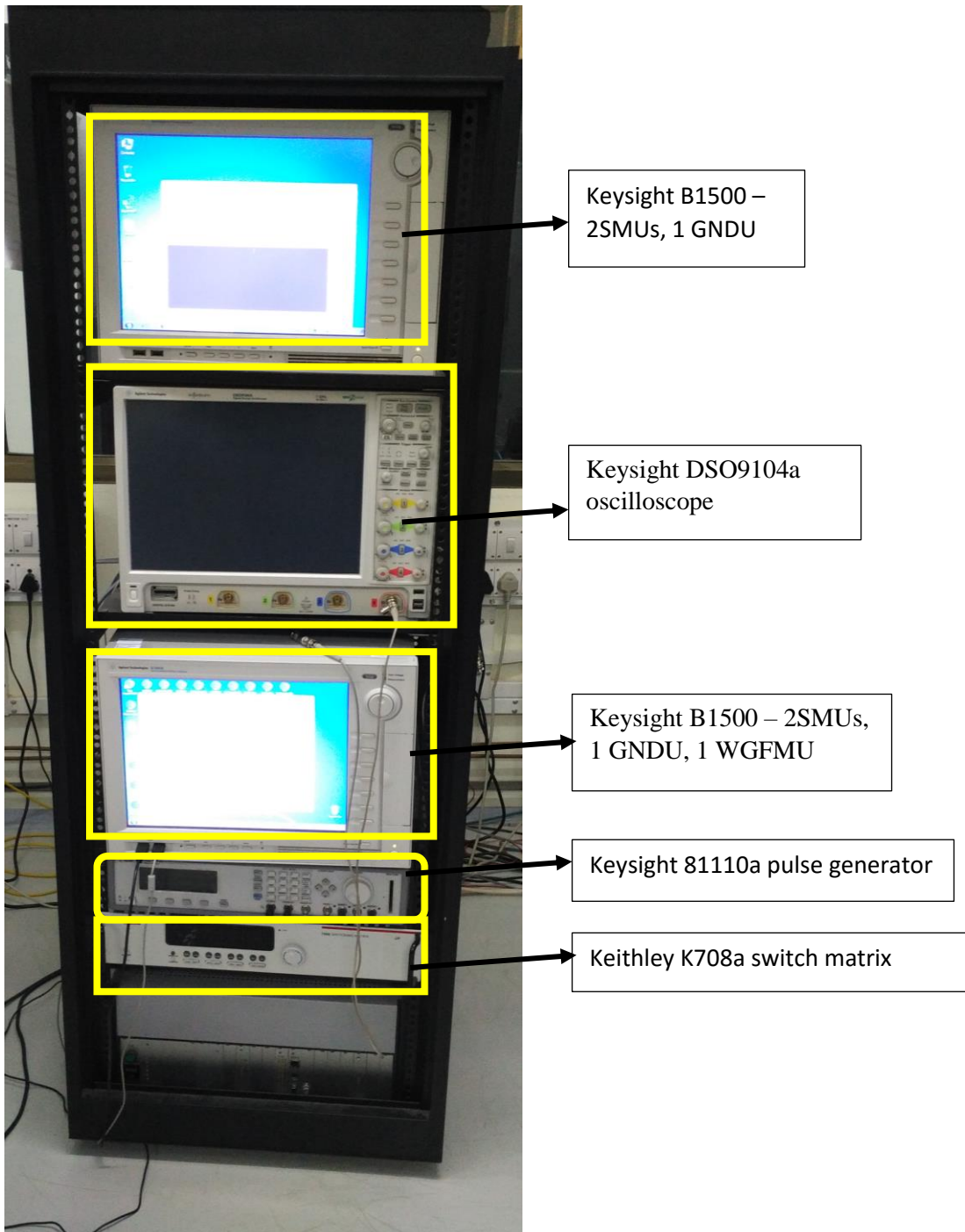


RIGEL

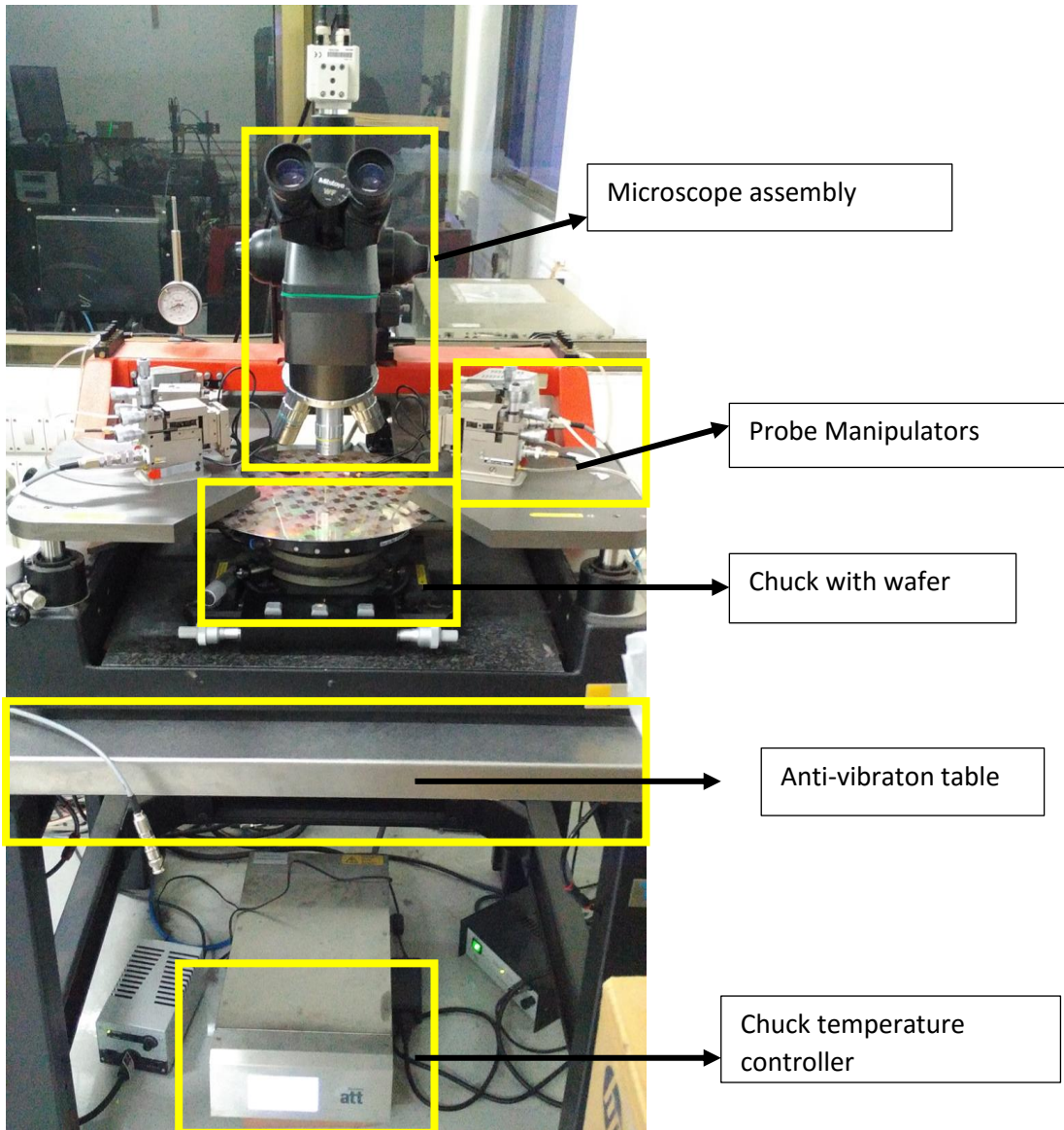
(Keysight B1500)

Glimpse

Various Instruments available on RIGEL



Setup



Measurement capabilities

1. DC current-voltage (IV) sweep measurement can be done with integration time ranging from 2 μ s to 20 ms.
2. Upto 4 terminal measurements can be done using 2 SMUs and 1 GNDU.
(e.g. MOSFET can be characterised by connecting the source and bulk terminal to GNDU)
3. Pulses with min rise time of \sim 3 ns and 10 ns pulse width can be generated using Keysight 81110a pulse generator.
4. Various pulse patterns of \pm 10V can be generated using Keysight 81110a pulse generator
5. Random waveforms can be generated using WGFMU with 10V peak-to-peak and 10 mA current compliance.
6. Sampling measurements with minimum sampling interval of 10 ns can be performed.
7. High temperature measurements (upto 250 $^{\circ}$ C) can be done.
8. Memory performance characterization e.g. endurance, retention, speed etc can be done.

9. EasyEXPERT group+ software available with B1500 makes it easy to perform complex device characterization immediately with hundreds of ready-to-use measurements (application tests) furnished, and allows you the option of storing test condition and measurement data automatically after each measurement in a unique built-in database (workspace), ensuring that valuable information is not lost and that measurements can be repeated at a later date.