



IIU-IDB ADVANCED ELECTRONICS LABORATORIES PROJECT

MULTI-HEAD PROBE STATION

SPECIFICATIONS

Chuck	<ul style="list-style-type: none">▪ 6" Diameter▪ XYZ- axis movement
Tungsten Tips	<ul style="list-style-type: none">▪ Length: 1.5"▪ Radius: 10μm
Microscope Lens	<ul style="list-style-type: none">▪ Magnification: 90X
Vacuum Pump	<ul style="list-style-type: none">▪ Pressure: 30kPa
Lamp	<ul style="list-style-type: none">▪ Intensity Controlled, UV Free
Interface	<ul style="list-style-type: none">▪ ASMEC▪ Hall Effect▪ Microwave Frequency Generator/RF Assembly▪ Digital Oscilloscope /Acquisition Units
Micro-positioners	<ul style="list-style-type: none">▪ 5μm sensitivity▪ XYZ-axis movement

APPLICATIONS

- D-C/A-C Analysis
- Power Analysis
- Charge Analysis
- Microwave/RF Analysis
- Failure Mode Analysis
- Sheet/Bulk Resistance
- Activation Energy
- Device characterization
- PCB characterization
- Circuit characterization
- I-V characterization
- C-V characterization
- G-V characterization
- Electron/Hole Concentration
- Material/Conductivity Type
- Resistivity Scans



Principal Investigator: Prof. Dr. Ahmed Shuja Syed