KP TECHNOLOGY

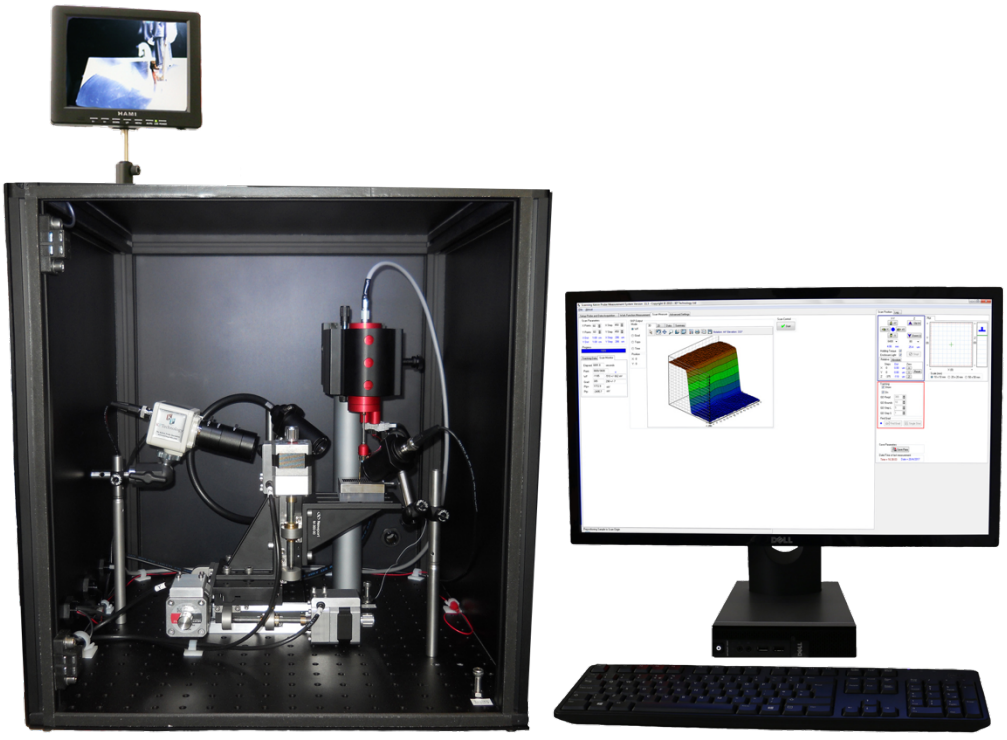
SKP5050 with Trifold Door and DCU in Air (Outside of Glovebox)

SKP5050 **Scanning Kelvin Probe System**

Tip diameter:	Standard 2 mm
Work Function resolution:	1-3 mV
Scanning System:	50x50 mm (2 x 2 inches)
Sample Holder:	Standard 1.5-inch sample stub mount
Height Control:	25 mm (1 inch) in Manual and Automatic
Visualisation:	3D maps of surface potential and sample topography
Optical System:	Colour Camera with zoom lens and optical mounts, together with dedicated 7-inch TFT display
PC:	>21" display, pre-installed system software
Digital TFT Oscilloscope	Included
Test Sample:	Aluminium/Gold
Faraday Enclosure:	450x450x480 mm with fast access front door
Spare Tip Amplifier:	Included
Digital Control of:	Tip Amplitude, Frequency, Mean Spacing, Potential
Averaging:	Signal and Work Function Averaging
Detection System:	Off-null with parasitic capacity rejection
System includes:	Set-up guide, cables, manuals

SKP Software Features

User has digital control of probe amplitude, probe frequency, mean-spacing, and tip potential. Automatic measurement of Kelvin probe signal, work function, signal and work function averaging, automatic control of tip to sample mean spacing. Variable scan size and 3D charting of work function data. Export of data to Excel compatible spreadsheets.



Pictured: SKP5050

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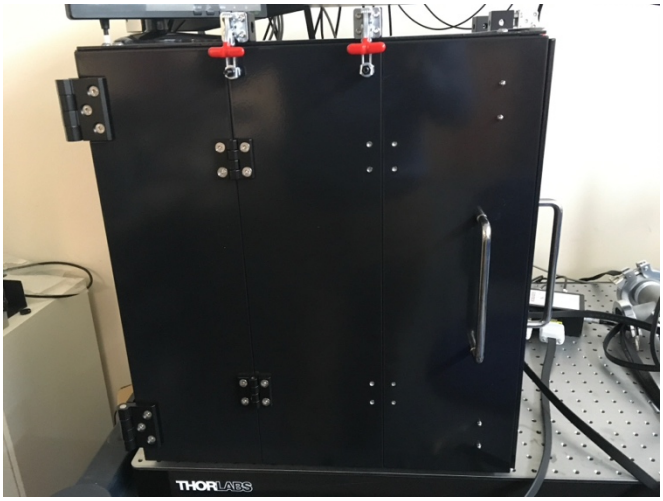
Trifold Door

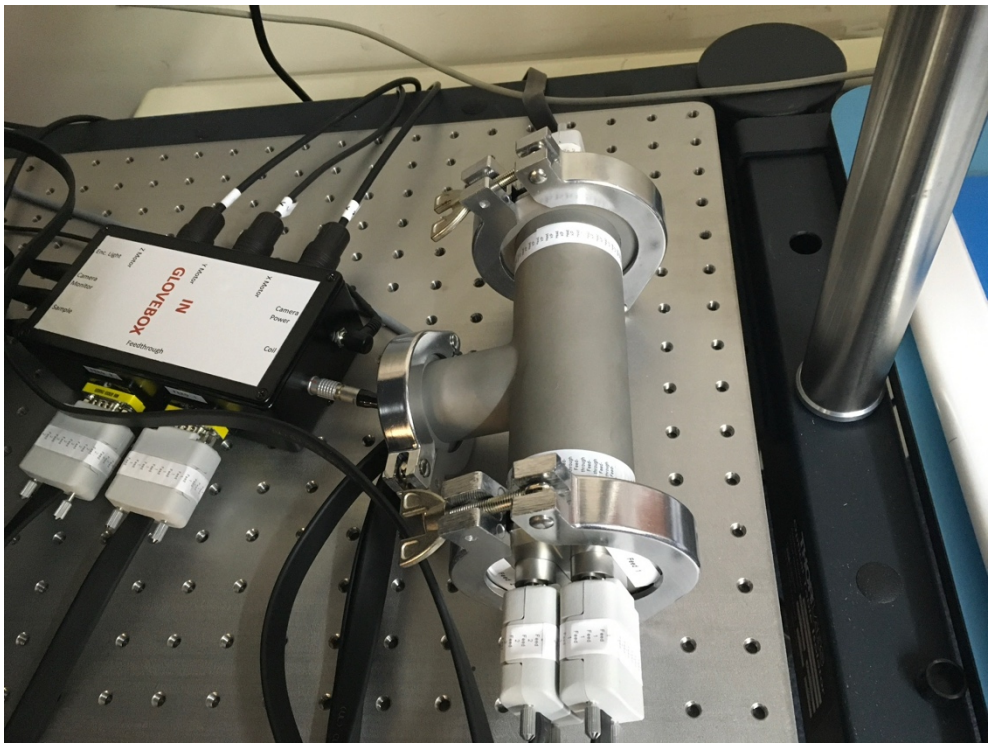
The Trifold door replaces the standard front door of the LE450 enclosure and requires only 150 mm free space in front of the unit to open. The standard door requires 470 mm to open. The Trifold door comes complete with a door sensor safety interlock.



Pictured: Trifold Door (Front view)

DCU in air outside of Glovebox

The standard enclosure LE450 (with 1 or 2 trifold doors) is mounted inside the vacuum system. KP Technology will manufacture an interface box, located inside the glovebox. The electrical connections for a) tip vibration, b) signal acquisition, c) 3-axis translation, d) camera, e) camera power and f) ground will be taken from the LE450 to this interface box. The output of the interface box will be taken to two "feedthrough connectors" D9 and D25. We will supply D9 and D25 (DN40 fitting) adapters compatible with the glovebox port and we will supply an adapter if required. On the air side we will supply another interface box that has D9 and D25 inputs and outputs electrical connection to the DCU located in air. The camera monitor will be on the air side.



Pictured: Interface Box

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