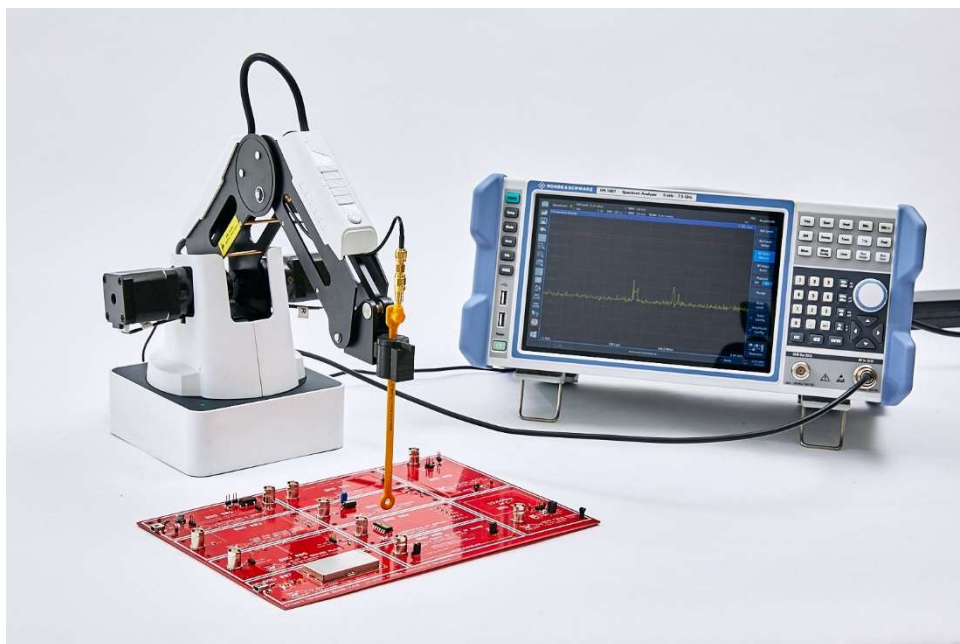


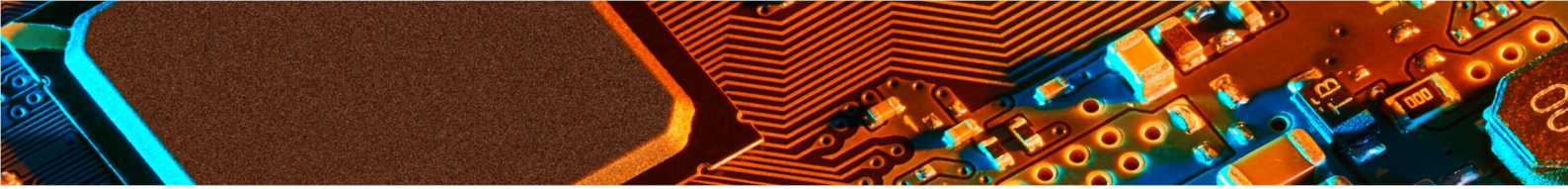
# **EMProbe**

## **New Release**

## **Additional Feature**

**Accurate and Repeatable High-Resolution EMC and EMI diagnostics with Hand-held Near Field Probes on your lab-bench**





## Overview:

Envelope scanning is a major new feature added to the EMViewer software using the EMProbe.

Envelope scanning enables the engineer to define the DUT's 3D "envelope" by setting the probe height for each scanning point, enabling close scanning that allows the probe to go between individual components. The height definitions are saved to the project file after the first calibration, allowing quick and seamless repeatable scans.

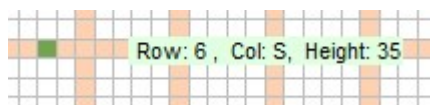
This feature is only available when using the EMViewer with the EMProbe Robotic Arm.

## User manual:

### Setting height for one cell location:

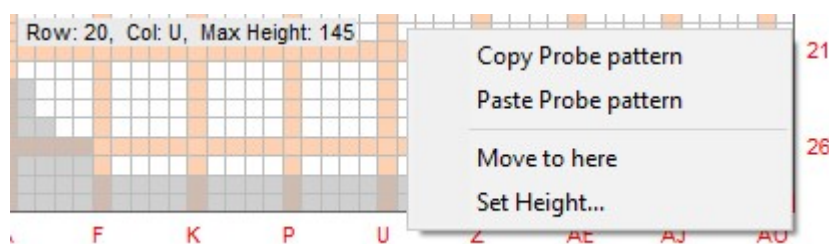
First method:

Set the required height in the "Probe distance from DUT"  mm  or click "Get" to read the current height of the EMProbe from the robotics arm, then move the mouse to the desired cell and select it, the cell will change colour to green. When hovering over the cell, the tooltip message will display the selected height.

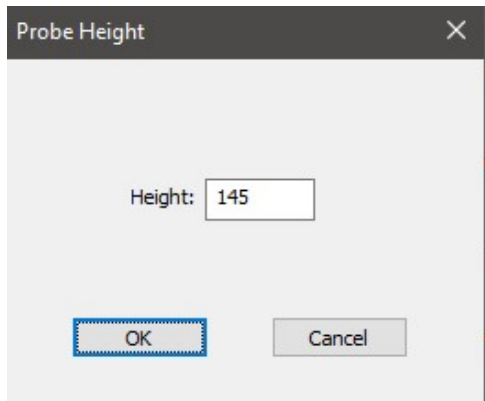
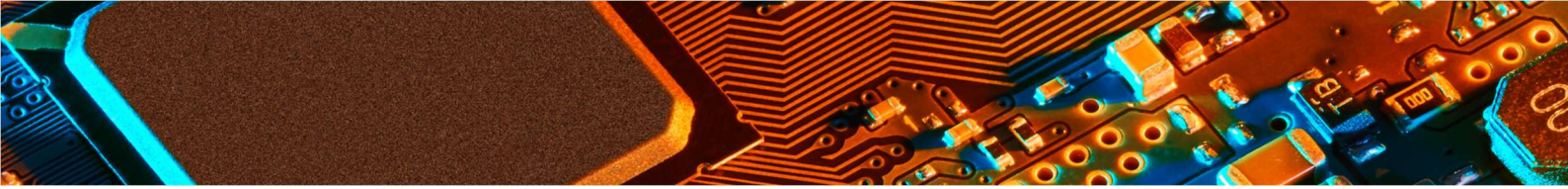


Second method:

Move the mouse to the desired cell and right click to display the popup menu:



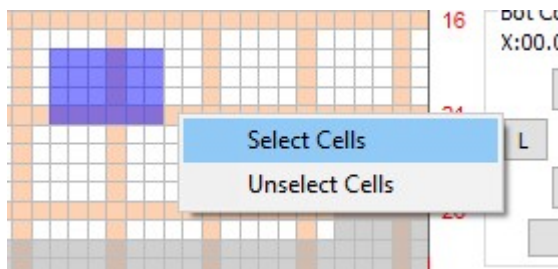
Select "Set Height" and enter the height in the popup window.



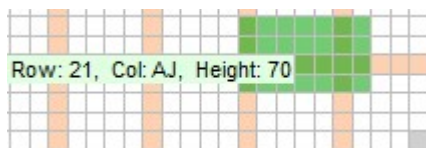
The cell will change colour to green. When hovering over the cell, the tooltip message will display the selected height.

### Setting height for multiple cells:

Set the required height in the “Probe distance from DUT”  mm  or click “Get” to read the current height of the EMProbe from the robotics arm, then using the mouse select the region required, then click “Select Cells” from the popup menu.



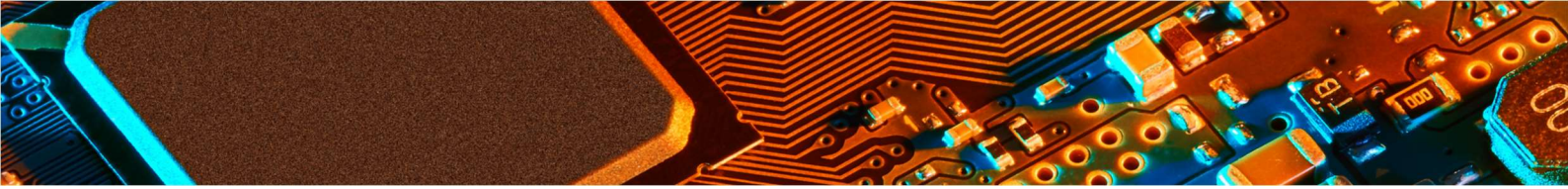
The cells will change colour to green. When hovering over the cells, the tooltip message will display the selected height.



### Scanning logic:

When moving the EMProbe, the EMViewer will force the number of rules to minimize the chances of collision with components on the DUT.

- When moving from a low cell to a higher cell, the EMProbe will first go up before starting to move to the new cell.
- When moving from a high cell to lower cell, the EMProbe will first move to the new cell and then it will go down.

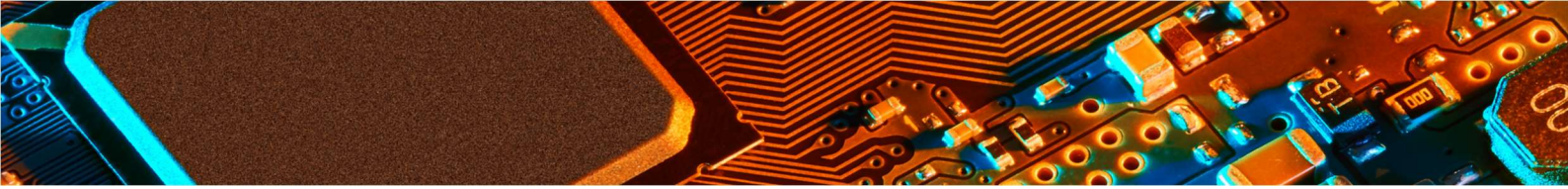


- At the end of each row, the EMProbe will go up to the highest height set for the DUT before starting to move to the beginning of the next row.

Like any other robotic arm, the EMProbe has a defined workspace. The arm cannot reach the area outside its workspace. Each cell has a maximum height that can be set for that cell and when trying to set it higher than that maximum, a warning will show:



Different height settings mark cells with different shades of green to aid visualisation.



Node Settings - Spectral

Spectral Scan | **Spectral Scan Probes** | Amplitude Adjustment | Description

1 A F K P U Z AE AJ AO 1

6 6 Row: 7, Col: R, Height: 45

11 11

16 16

21 21

26 26

A F K P U Z AE AJ AO

Probes On = 1039  
Probes Off = 179

Select All

Select None

Probe distance from DUT  
160 mm Get

Bot Control  
X:00.00,Y:00.00,Z:00

B U  
L R  
F D

Homing

Overlay Editor

Tips:

1. Left click a single cell to toggle the probe on/off.
2. Left click and drag the mouse to select/unselect multiple cells.

OK Cancel Apply

For Further Information please contact [support@yictechnologies.com](mailto:support@yictechnologies.com)

