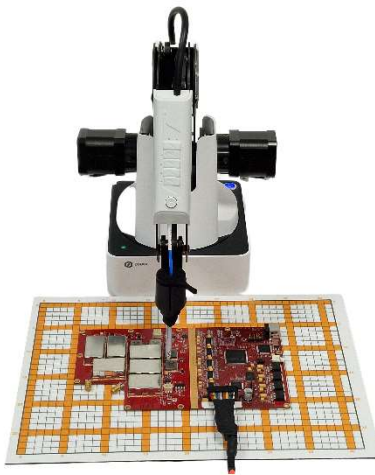


EMProbe

Accurate and Repeatable High-Resolution EMC and EMI diagnostic with Handheld Near Field Probes on your lab-bench



Using Handheld probes to identify and resolve EMC/EMI issue testing has never been this accurate. 3D Precision Technology used to assist high density board designers to use off the shelf hand-held probes and visualise the root causes of potential EMC and EMI problems during pre and post EMC compliance testing.

EMC and signal integrity are major concerns in the design of high-speed PCBs. While **EMScanner** allows designers to easily locate emission by placing the PCB on its flat surface, the **EMProbe** allows users to test the component side of the PCB and adjust the height of the scan.

This enables the design engineers to diagnose EMC/EMI problems limited only by the choice of the **Spectrum Analyzer** and the **Near Field Probe** and allows them to visualize the root causes of potential EMC and EMI problems of a non-flat surface or of a complete product



EMProbe Extension – X Axis increase reach to 900mm.

During any new product development process, design engineers must find, characterize, and address unintended radiators or RF leakage to pass compliance testing. **EMProbe** allows board designers to pre-test and resolve EMC and EMI problems early on, thus avoiding unexpected EMC compliance test results.



EMProbe delivers **repeatable** and **reliable** results that pinpoint the cause of a design failure. As a result, the user can personally test the design without having to rely on another department, test engineer, or time-consuming off-site testing. After diagnosing even an

intermittent problem, the engineer can implement a design change and retest. The results provide concrete verification of the effectiveness (or not) of the design change.

The EMProbe solution consists of a computer controlled **Robotic Arm**, **Near Field probe** and a customer-supplied **Spectrum Analyzer**, all controlled by the included **EMViewer SW**.

The **EMProbe** diagnostic capabilities allow design teams to **reduce testing time** by more than two orders of magnitude. Users have also documented fifty percent reductions in design cycle times. This allows the design team to immediately analyse and compare design iterations.

Ideal projects for the **EMProbe** are components side testing of boards designed for high speed, high power, and/or high density/complexity. Any PCB that places a premium on board real-estate also qualifies as an excellent candidate.

The **EMProbe** provides an **easy-to-use, cost-effective, and scalable solution** for design teams. Emission, immunity, filtering, EMI shielding, broadband noise and Common Mode testing are some of the applications that the **EMProbe system** addresses in mere seconds.

Features & Specifications

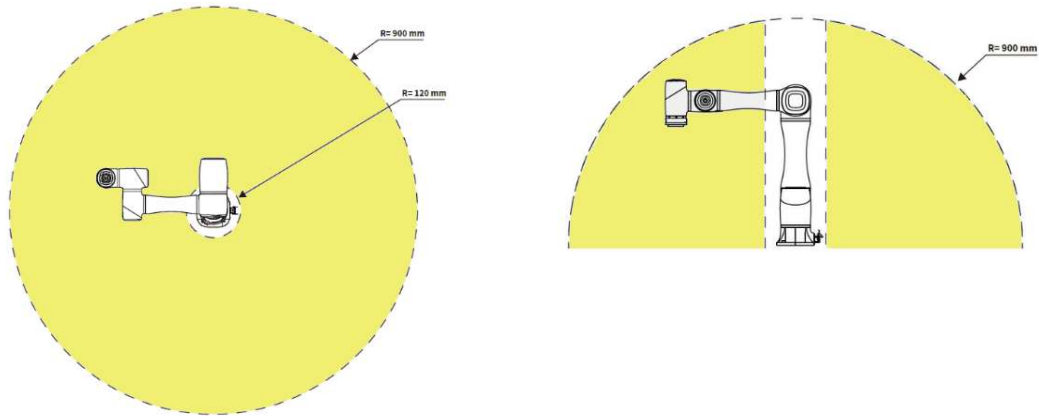
Capability	Spectral scan, spatial scan, peak-hold, continuous scanning, spectral and spatial comparison, scripting, limit lines and report generation.
Supported Spectrum Analysers	Wide range of Keysight and Rohde & Schwarz Spectrum Analysers are supported. Check www.yictechnologies.com for details.
Supported operating systems	Windows 10®
Supported CAD overlays	Standard Gerber© RS274x format, HPGL format and JPEG
Max Frequency coverage	18GHz with the supplied Y.I.C. NF Probes
Spatial resolution	High Resolution: 7.5mm to 0.2mm
Frequency accuracy of peaks	Peak marking accuracy of Spectrum Analyzer
Probe to probe uniformity	Dependent on the selected probe
Maximum radiated power load	Dependent on Spectrum Analyzer and the probe performance
Operating temperature	From 15° C to 40° C (continuous spectral and spatial scans at 50 MHz)
NET Weight	3.40Kg (Excluding cables and the adaptor)



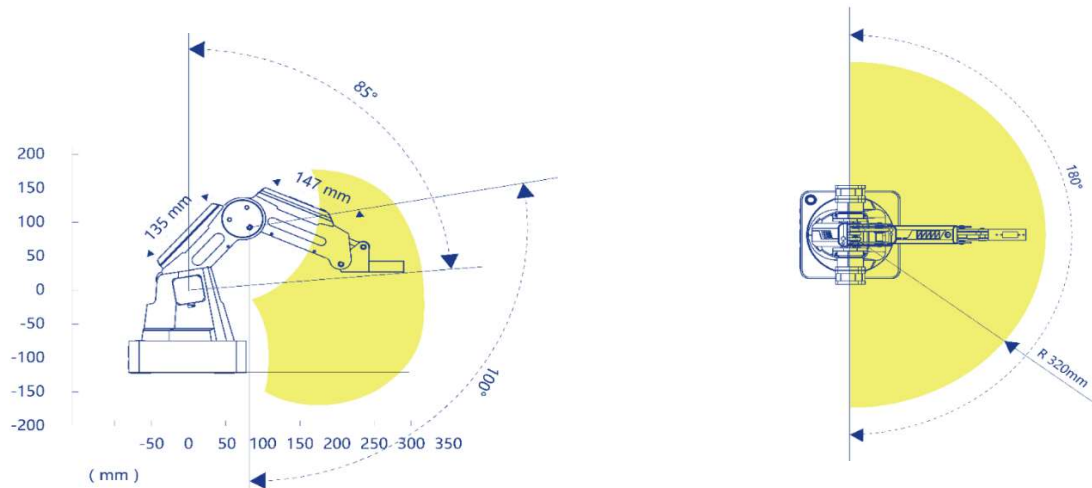


Workspace

EMProbe - Model CR5



EMProbe - Model DBM



Probes

Model	NFPE10A	NFPH10A	NFPH20A	NFPH50A
Frequency Range	Full Range	10MHz-350MHz	300MHz-3.5GHz	3GHz-18GHz
Type	E	H	H	H

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