

EMProbe-DBM-E6

Datasheet

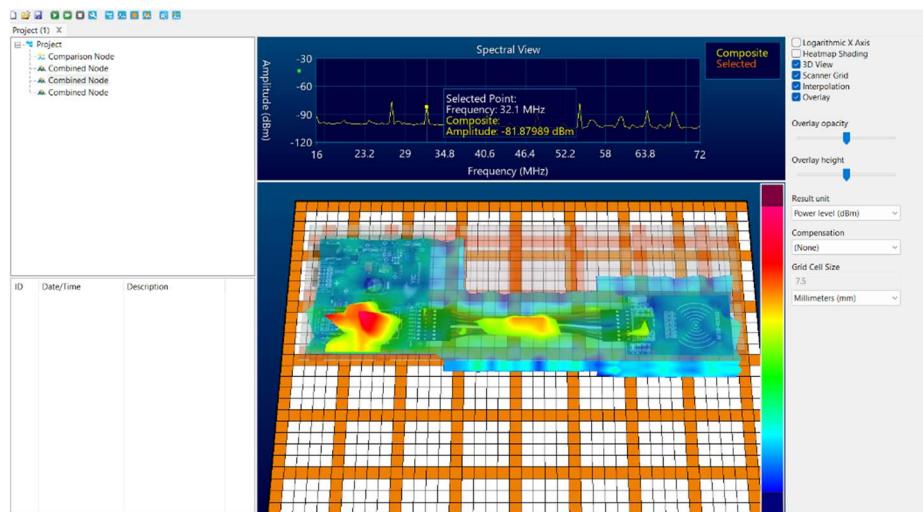
Accurate and Repeatable High-Resolution EMC and EMI diagnostic with a Single Probe, Robotic Arm with 6 Axis on your lab-bench.



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/or Y.I.C. Technologies probes and visualise the root causes of potential EMC and EMI problems during pre and post EMC compliance testing.

The EMProbe-DBM – E6 is equipped for high performance and accurate scanning and has a repeatability of 0.01mm. This enables the design engineers to diagnose EMC/EMI problems limited only by the choice of the

Spectrum Analyser 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.





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 probes and a customer-supplied spectrum analyser, all controlled by the **EMViewer** Software.

The **EMProbe** diagnostic capabilities allow design teams to **reduce testing time**. Users have also documented 50% 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.

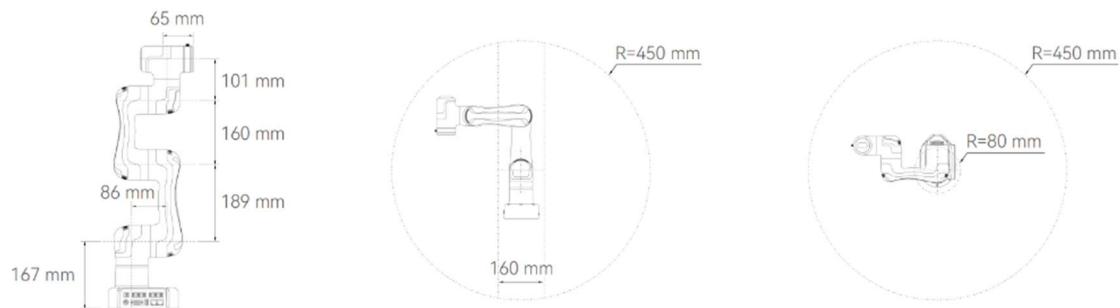
Features & Specifications

Capability	Spectral scan, spatial scan, peak-hold, continuous scanning, spectral and spatial comparison, scripting, limit lines and report generation.														
Supported Spectrum Analysers	Spectrum Analyzers which has SCPI commands will be supported by the EMViewer software.														
Supported Operating Systems	Windows 11®														
Supported CAD overlays	Standard Gerber© JPEG and PNG														
Max Frequency coverage	Up to 14GHz with the supplied Y.I.C. Technologies Probes														
Spatial resolution	High Resolution: 7.5mm to 0.1mm														
Scan area	450 mm Radius														
Scan Height (Max)	<table border="1"><thead><tr><th colspan="2">Range of Motion</th></tr></thead><tbody><tr><td>J1</td><td>± 360°</td></tr><tr><td>J2</td><td>± 135°</td></tr><tr><td>J3</td><td>± 154°</td></tr><tr><td>J4</td><td>± 160°</td></tr><tr><td>J5</td><td>± 173°</td></tr><tr><td>J6</td><td>± 360°</td></tr></tbody></table>	Range of Motion		J1	± 360°	J2	± 135°	J3	± 154°	J4	± 160°	J5	± 173°	J6	± 360°
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Frequency accuracy of peaks	Peak marking accuracy of spectrum analyser														



Probe to probe uniformity	Dependent on the selected probe
Maximum radiated power load	Dependent on spectrum analyser and the probe performance
Operating temperature	From 0° C to 40° C Humidity: 25 – 85% non con-densing
NET Weight	7.2Kg (Excluding cables and the adaptor)

Workspace



Included Probes

Y.I.C. Technologies NFPSet

Set of 5 Probes

Electric and Magnetic Probes

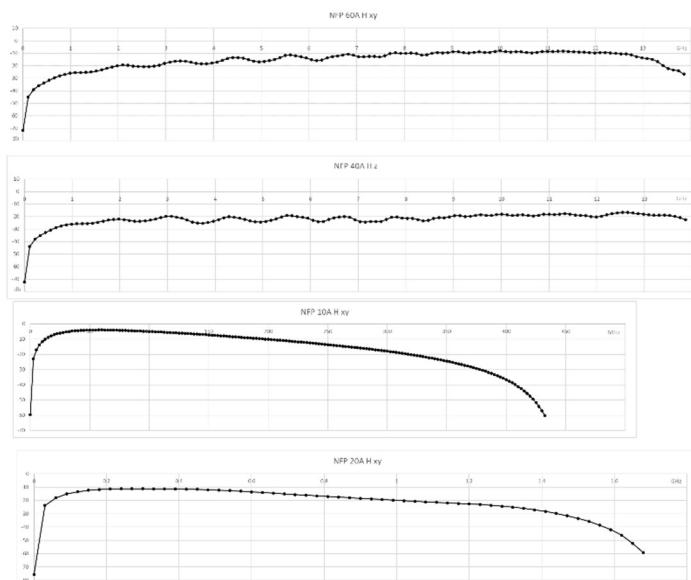
HXY 10A02: 10 KHz – 300 MHz

HXY 20A02: 100 KHz – 1.4 GHz

HZ 40A02: 1 GHz – 14 GHz

HXY 60A01: 1 GHz – 13 GHz

E 00A02: 1.6 GHz – 18 GHz



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