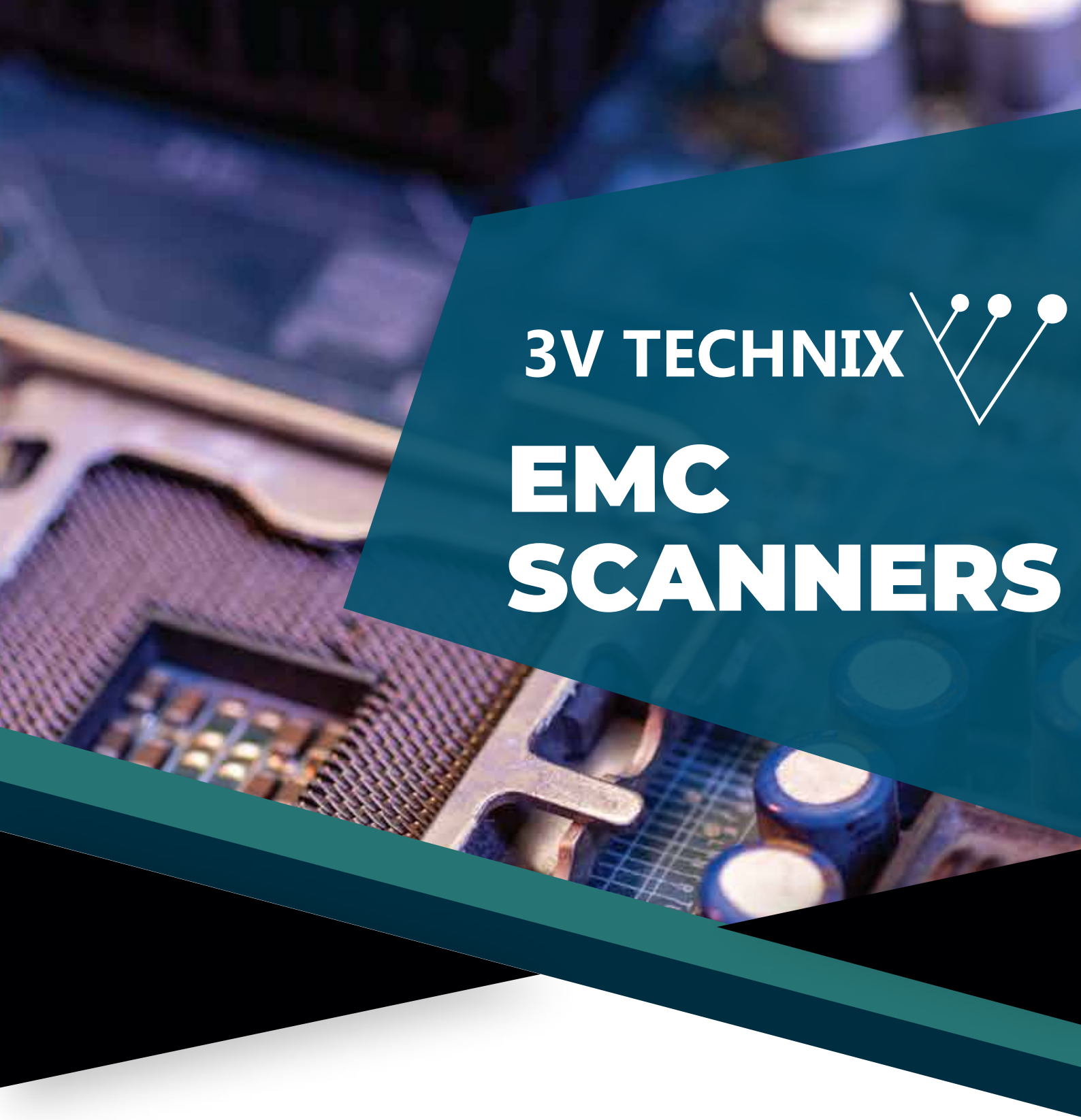
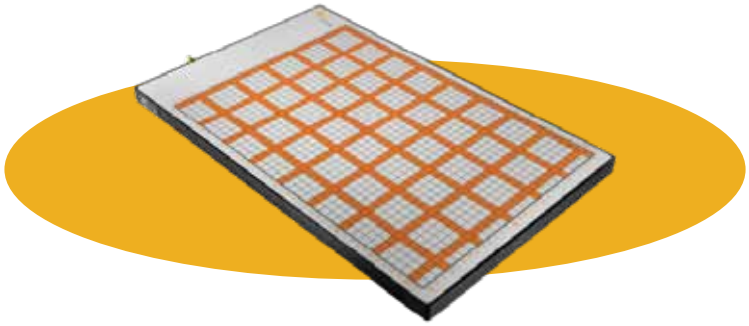


3V TECHNIX

EMC SCANNERS

A significant percentage of products fail to meet the targets required for EMC certification the first time they are tested. With the cost of testing being high, the need for pre-testing a product can severely extend the budget, coupled with the time it takes for engineers and designers to investigate the origin of issues identified by the EMC test. Early stage testing is considered the solution and EMScanners are a time efficient and cost effective alternative to Chambers or and Probe Testing.

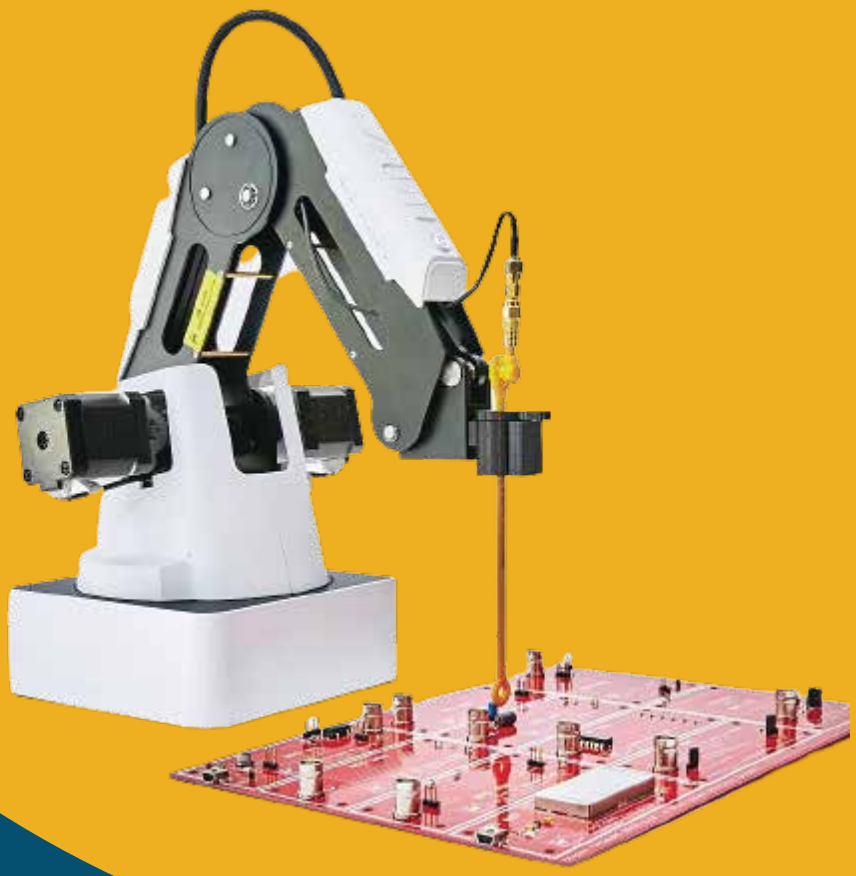


EMScanner

EMScanner is a self-contained very-near-field scanning device which connects to a spectrum analyzer or a desk top PC running a copy of EMScanner Software. The EMScanner system operates from 150 kHz to 8 GHz and delivers repeatable and reliable results that pinpoint the cause of a design failure in seconds. With EMScanner design teams can personally test their designs 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, and the results provide concrete verification of the effectiveness (or not) of the design change. EMScanner 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.

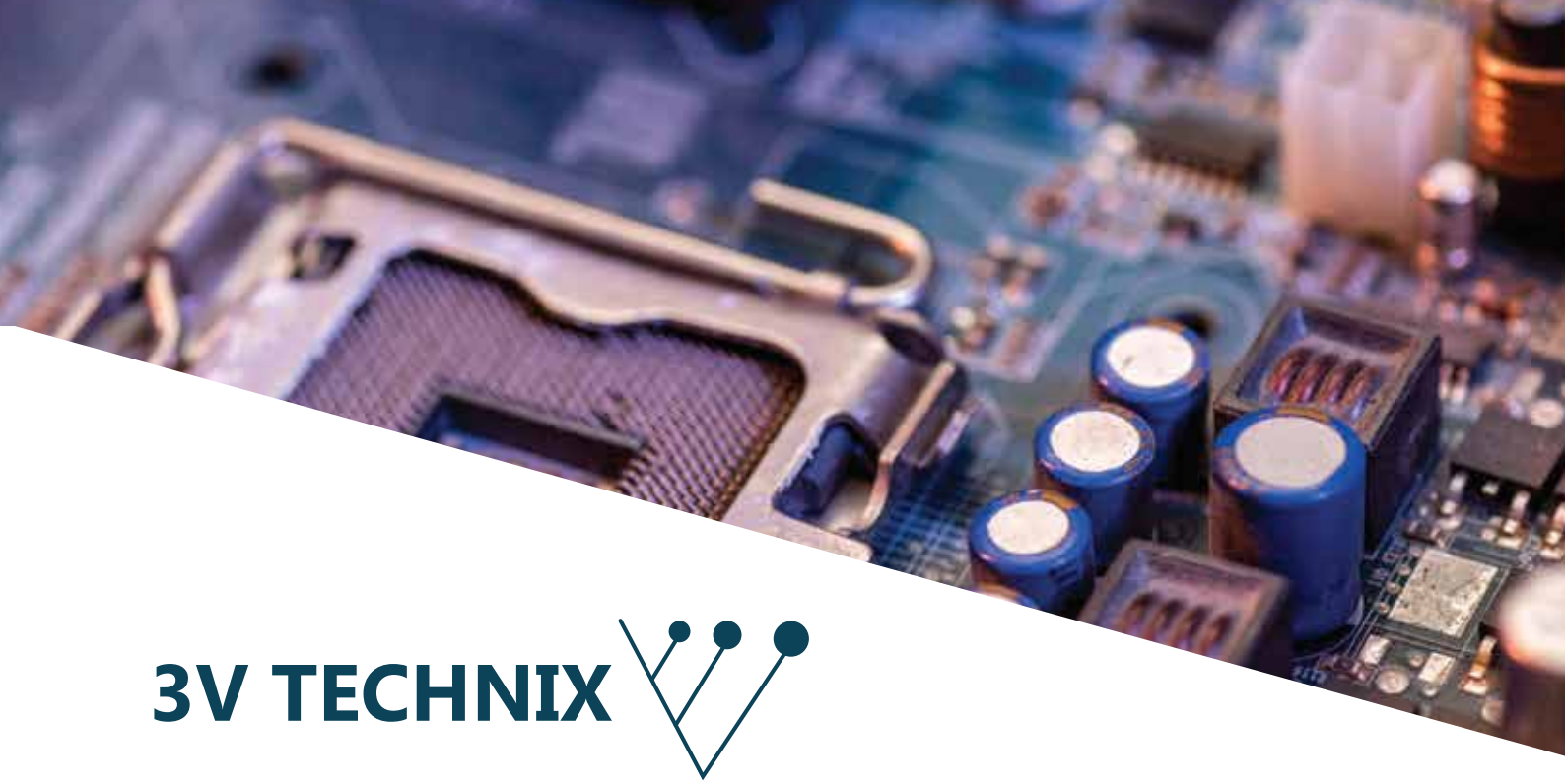
EMScannerR

EMScannerR enables the PCB and design engineers to diagnose EMC/EMI problems between 150 kHz and 8 GHz. EMScannerR provides 8 levels of resolution (60 microns – 7.5 mm). Level 1 resolution (7.5 mm) allows the engineers to visualize the hot spots, current loops or intermittent problems in real-time. After locating the unintended radiators, engineers can zoom into the problem by selecting the resolution level based on the density of the board design. EMScannerR provides unique pre-and post-EMC compliance testing that images emissions. During any new PCB development process, design engineers must find, characterize, and address unintended radiators or RF leakage to pass compliance testing. EMScannerR allows board designers to pre-test and resolve EMC and EMI problems early on, thus avoiding unexpected EMC compliance test results.



EMProbe

Using Hand Held probes to identify and resolve EMC/EMI issue testing have never been this accurate and straight forward! 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. EMProbe enables the PCB and Design Engineers to diagnose EMC/EMI problems using regular off the shelf hand-held probes. An easy to use Robotic Arm controls the movement of the probe to any direction and an external Spectrum Analyzer provides the results. The EMViewer software is used to control the Robotic Arm and the external Spectrum Analyser collects and analyse the results. Different types of Robotic Arms can be used, based on the desired size and resolution.



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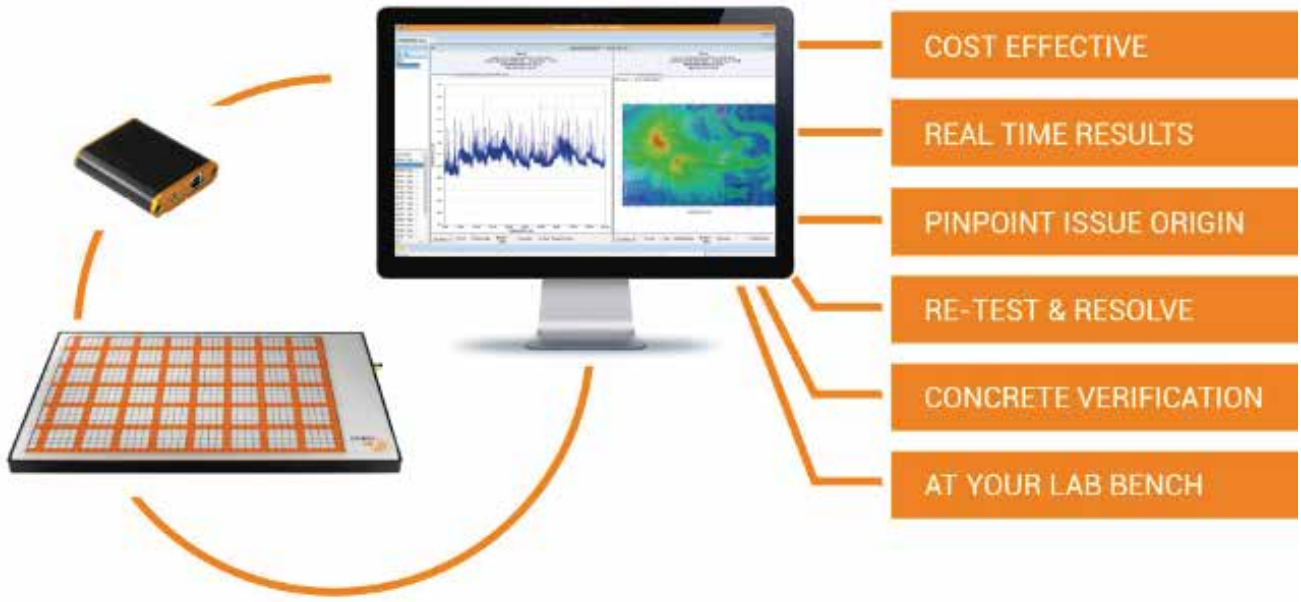

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