

EMC

Yearbook 2013

Best in EMC testing: More speed. More insight. More intelligence.

The R&S $^{\circ}$ ESR is the new test receiver for standard-compliant EMC testing.

I Save time

The R&S[®]ESR time domain scan makes EMC measurements faster than ever before, allowing you to dedicate more time to your main mission.

I Find everything

The realtime spectrogram and the persistence mode seamlessly display the spectrum so you can detect and analyze sporadic or hidden emissions and their cause.

I Work flexibly

The R&S[®]ESR combines a test receiver and full-featured spectrum analyzer in a single instrument, giving you all the tools you need for your measurement task.

I Simplify measurements

The R&S[®]ESR combines functionality with clear structure for easy navigation on the convenient touchscreen.

Want to know more?

Convince yourself - visit www.rohde-schwarz.com/ad/esr.

ΠΠ

C

(13)

Please follow us on Twitter: Rohde_SchwarzUK

More than 40 years of EMC T&M experience



EMC Yearbook 2013 18th Edition

It's So Easy to Use

Pages 2 to 24 Product Finder. The major product categories are highlighted in black areas e.g. **Filters** Each is subdivided into individual products. The company names in italics have advertisements.

Pages 25 to 35 Alphabetical listing of Companies.

Pages 36 & 37 Distributor names and addresses, supplied by entrants in the yearbook.

Front Cover photograph by permission of Rohde & Schwarz UK Ltd., see page 32

Every effort has been made to ensure that the information given in this Yearbook is accurate, but no legal responsibility is accepted for any errors, omissions or misleading statements in that information caused by negligence or otherwise, and no responsibility is accepted in regard to the standing of any firms, companies or individuals mentioned or for any advice or information given by them.

If you wish to reproduce any of the information in this Yearbook please do not do so without first seeking the written permission of Nutwood UK Ltd.

Some great books available from Nutwood UK Ltd, see page 39

©Nutwood UK Ltd Published March 2013



The EMCIA was formed on 20th March 2002 for the benefit of companies involved in Supplying, Designing, Testing and Manufacturing EMC products. Networking lunches are held 3 times a year. The current President is Paul Duxbury, CST UK Ltd. The EMCIA Secretariat is Nutwood UK Ltd. To find out more go to page 38.

www.emcia.org



The Racecourse, Newbury 8 & 9 October 2013 www.emcuk.co.uk



Published 6 times a year Free to registered readers in the UK www.theemcjournal.com

Nutwood UK Ltd

Eddystone Court, De Lank Lane, St Breward, Bodmin, Cornwall, PL30 4NQ, U.K. Tel: +44 (0)1208 851530 Fax: +44 (0)1208 851630 Email: pam@nutwooduk.co.uk Web: www.theemcjournal.com

Product Finder

Absorbers

Ferrite Tiles ETS-Lindgren Frequensys MDL Technologies Panashield (UK) Flat Sheet AR UK Chomerics **ETS-Lindgren** Frequensys **HITEK Electronic** Materials Kemtron Laird Technologies MDL Technologies Panashield (UK) Rainford EMC Systems Non-Flammable-Hybrid **ETS-Lindgren** Frequensys MDL Technologies Murata Electronics Panashield (UK) **Pyramidal Resistive** Absorbers AR UK ETS-Lindgren Frequensys **HITEK Electronic** Materials MDL Technologies Panashield (UK) Rainford EMC Systems **TDK Electronics Europe** I. Thomas **RF ID Tags Sheet Material & Cable** Sleeving Chomerics **HITEK Electronic** Materials Kemtron Laird Technologies **Anechoic Chambers (see Shielded Rooms**) **Anechoic Materials Ferrite Tiles**

ETS-Lindgren Global EMC UK HITEK Electronic Materials MDL Technologies Panashield (UK) Rainford EMC Systems TDK Electronics Europe I. Thomas

Hybrid Absorbers to CISPR16

ETS-Lindgren Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems **Pyramidal Absorbers ETS-Lindgren** Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems Wedge Absorbers **ETS-Lindgren** Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems **Flat Absorbers ETS-Lindgren** Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems Antennas **Active Dipole** AR UK DM Systems & Test ETS-Lindgren Laplace Instruments MDL Technologies **TDK Electronics Europe** York EMC Services **Antenna Design** DM Systems & Test

ETS-Lindgren MDL Technologies **O-Par** Angus **TDK Electronics Europe TESEQ** TMD **Biconical** AR UK DM Systems & Test EMC Hire EMC Partner (UK) **ETS-Lindgren** MDL Technologies Q-Par Angus Rainford EMC Systems Rohde & Schwarz UK **TDK Electronics Europe TESEQ** TMD Bilog AR UK DM Systems & Test EMC Hire EMC Partner (UK)

ETS-Lindgren

MDL Technologies Rohde & Schwarz UK **TDK Electronics Europe TESEO** Broadband AR UK AR Europe DM Systems & Test EMC Hire EMC Partner (UK) ETS-Lindgren Laplace Instruments MDL Technologies Q-Par Angus Rainford EMC Systems Rohde & Schwarz UK TESEO TMD York EMC Services Calibration DM Systems & Test Electronic Test & Calibration **ETS-Lindgren** MDL Technologies Mectronics Marine National Physical Laboratory TESEO Horn AR UK AR Europe DM Systems & Test EMC Hire **ETS-Lindgren** MDL Technologies Q-Par Angus Rainford EMC Systems Rohde & Schwarz UK **TDK Electronics Europe** TESEO TMD Log Periodic AR UK AR Europe DM Systems & Test EMC Hire EMC Partner (UK) **ETS-Lindgren** Laplace Instruments MDL Technologies Q-Par Angus Rainford EMC Systems Rohde & Schwarz UK **TDK Electronics Europe TESEQ** TMD Loops AR UK DM Systems & Test EMC Hire **ETS-Lindgren** Laplace Instruments MDL Technologies

Mectronics Marine Rohde & Schwarz UK **TDK Electronics Europe** TESEQ Masts AR UK DM Systems & Test EMC Hire EMC Partner (UK) **ETS-Lindgren** MDL Technologies Rainford EMC Systems Rohde & Schwarz UK **TDK Electronics Europe** Microwave AR UK AR Europe DM Systems & Test EMC Hire **ETS-Lindgren** MDL Technologies Murata Electronics Q-Par Angus Rainford EMC Systems Rohde & Schwarz UK **TDK Electronics Europe** TMD **Radiation Hazard** AR UK DM Systems & Test EMC Hire ETS-Lindgren MDL Technologies Rainford EMC Systems Rohde & Schwarz UK **Rods & Whips** AR UK Dexter Magnetic Technologies Europe DM Systems & Test EMC Hire **ETS-Lindgren** MDL Technologies Rohde & Schwarz UK Telecommunication DM Systems & Test **ETS-Lindgren** Murata Electronics Rohde & Schwarz UK **TDK Electronics Europe** Test & Measurement AR UK AR Europe DM Systems & Test EMC Hire EMC Partner (UK) ETS-Lindgren Laplace Instruments MDL Technologies Q-Par Angus Rohde & Schwarz UK **TDK Electronics Europe TESEQ** TMD



Wurth Electronics Passive & Electromechanical Components

- Free sofware tools for engineers on www.we-online.com/toolbox
- Reference designs with the manufacturer of switching regulator IC's
- Design kits with life time refill
- Samples free of charge, usually within 48 hours
- Small quantities: We can deliver upon request our technology leading components direct from stock to assist with pre production runs
- Worldwide technical sales force: We are present worldwide to support you in finding solutions
- Application guide "Trilogy of Magnetics" and "Trilogy of Connectors"



Wurth Electronic UK Ltd. • Office Village, 1ST, Floor, Building 24 • Salford Quays • Manchester M5 3EQ • www.we-online.com

Tunable Dipole

AR UK DM Systems & Test EMC Hire ETS-Lindgren MDL Technologies Q-Par Angus Rohde & Schwarz UK TDK Electronics Europe TMD

Anti-Static Materials

Coatings Laird Technologies RS Coatings Materials DM Systems & Test Laird Technologies

Architecture Doors, Windows, etc.

Global EMC UK Rainford EMC Systems I. Thomas

Arrays

AEF Solutions API Technologies DM Systems & Test Oxley Developments

Arresters

Lightning AEF Solutions AR UK DEM Manufacturing Globec (UK) MPE Transient AEF Solutions AR UK DEM Manufacturing Globec (UK) MPE

ATE Design & Assembly

Cove Industrial Enterprises

ATEX Directive (Explosive Atmospheres)

Notified Body TRaC TÜV SÜD Product Service

Testing TRaC TÜV SÜD Product Service

Attenuators, RF

P & P Technology PPM Telonic Instruments TMD

Automatic Testing

Ultra Electronics

EMI ETS-Lindgren Hursley EMC Services Laird Technologies MIRA QinetiQ Rohde & Schwarz UK TDK Electronics Europe TÜV SÜD Product Service York EMC Services Emissions (EMI) ETS-Lindgren

Rohde & Schwarz UK **TÜV SÜD Product** Service York EMC Services Immunity ETS-Lindgren Haefely Test AG HTT (UK) Hursley EMC Services Laplace Instruments MIRA QinetiQ Rohde & Schwarz UK **TDK Electronics Europe TÜV SÜD Product** Service York EMC Services Reporting **ETS-Lindgren** Rohde & Schwarz UK **TÜV SÜD Product** Service

Automotive Testing

York EMC Services

EMI

ETS-Lindgren Rohde & Schwarz UK SGS TRaC TRW Conekt TÜV SÜD Product Service

Immunity ETS-Lindgren *Rohde & Schwarz UK* SGS TRaC TRW Conekt TÜV SÜD Product Service

Backshells, Assemblies

AEF Solutions

ITT Interconnect Solutions KEC

Books/Newsletters

EMC/EMI Cherry Clough Consultants Elmac Services Laird Technologies **ESD** Cherry Clough Consultants Elmac Services Safety Cherry Clough Consultants Shielding Cherry Clough Consultants Elmac Services Laird Technologies

Cabinets

Barton Engineering & Export Perancea Selectronix I. Thomas **19'' Cabinets** Cove Industrial Enterprises Pentair Equipment Protection Rittal SRS Products

Cable Harness Manufacturing

Cove Industrial Enterprises

Cables & Accessories

Assemblies & Harnesses API Technologies **DEM Manufacturing ITT** Interconnect **Solutions** KEC Schaffner Selectronix Storm EMC Services Ultra Electronics Westside Supplies **Bonding Leads** Cabletec ICS Storm EMC Services Ultra Electronics **Cable Glands** KEC Kemtron Rittal Selectronix Ultra Electronics Coaxial Selectronix

Ultra Electronics Westside Supplies **Ferrite Cable** Laird Technologies Selectronix Ultra Electronics Westside Supplies Filtered **API** Technologies Selectronix Ultra Electronics Ribbon Selectronix Ultra Electronics Westside Supplies Screened Cabletec ICS KEC Selectronix Ultra Electronics Westside Supplies **Screening Braids** Cabletec ICS KEC Ultra Electronics **Terminations** Cabletec ICS Ultra Electronics

> Westside Supplies Calibration

Loop Antennas DM Systems & Test Mectronics Marine

Cans

Kemtron Laird Technologies P & P Technology Perancea Schlegel EMI

Capacitors

Arrays AMC **API** Technologies Globec (UK) Murata Electronics Syfer Technology **TDK Electronics Europe** Ceramic AMC AVX Globec (UK) MPE Murata Electronics Oxley Developments Syfer Technology **TDK Electronics Europe** Electrolytic AVX Film AVX PPM Selectronix **High Voltage** AMC

When Good Enough Is Not Good Enough

It's a tough, competitive world. If you let your guard down for a second, your competition could knock you out of the game. So you've got to keep finding ways to get better, faster, more accurate. That's the way we think at AR, and that's why our customers welcome our new products and new technologies. We can help you gain a competitive edge with innovations like the following:





MultiStar Precision DSP Receiver

This EMI receiver accurately performs over 30.000 CISPR detections at once to reduce test time from days to minutes and insures that you detect short duration disturbances!

MultiStar Multi-Tone Tester

This incredible system cuts RF immunity testing from days down to hours by testing multiple frequencies simultaneously. It saves time & money, and helps get your product to market faster.





1.0 to 2.5 GHz Solid State Amplifiers This amplifier family provides an alternative to TWTA's and offers better harmonics, less noise and superior reliability.

Integrated Test Systems

AR can provide an all-in-one test system for any EMC application from DC to 50 GHz. Everything you need



Dual Band Amplifiers

For the first time you can go from 0.7 to 18 GHz with the reliability of solid state. You not only have new freedom, you've got a two-amp package that costs less, weighs less, and takes up less space than two separate amplifiers.



Traveling Wave Tube Amplifiers

We may not have invented TWTAs, but we definitely perfected them. Our extensive line of TWTAs provide higher power up to 40 GHz. Reliable power, compact size. We offer CW or pulse designs.

is right at your fingertips. Our systems make testing easy, accurate, efficient and affordable.



Laser-Powered E-Field Probes

Never needs batteries. Most continuous coverage from 5 kHz to 60 GHz and up to 1000 V/m field strength. With outstanding accuracy, linearity and bandwidth.

Radiant Arrow Bent Element Antennas

We bent the rules and advanced the science of log periodic antennas. Our bent element antennas are up to 75% smaller, lighter, and more compact to fit in smaller chambers.

In UK, contact AR UK, www.uk-ar.co.uk or call +441-908-282766





αι ευιορε

National Technology Park, Ashling Building, Limerick, Ireland • 353-61-504300 • www.ar-europe.ie In Europe, call ar United Kingdom 441-908-282766 • ar France 33-1-47-91-75-30 • ar Benelux 31-172-423-000

AVX Globec (UK) MPF. Murata Electronics PPM Syfer Technology **TDK Electronics Europe Interference Suppression** AVX Globec (UK) MPE Murata Electronics **Oxley Developments** Selectronix Planar AMC **API** Technologies Oxley Developments Syfer Technology **Plastic Film** AVX MPE PPM Selectronix **RF & SMT** AVX Globec (UK) MPE Murata Electronics Selectronix **TDK Electronics Europe** Wet Tantalum Electrolytics AVX X and Y Class AMC AVX Globec (UK) Murata Electronics Syfer Technology

Cases

RS Coatings **Custom Design** Cove Industrial Enterprises **DEM Manufacturing** Pentair Equipment Protection Perancea Rittal Selectronix SRS Products Storm EMC Services **Desk Top** Pentair Equipment Protection Perancea Rittal Selectronix **SRS** Products **Floor Tower** Pentair Equipment Protection Perancea Rittal Selectronix **SRS** Products Instrument Pentair Equipment Protection Perancea Rittal Selectronix SRS Products Wall Mount Pentair Equipment Protection Perancea Rittal Selectronix SRS Products

Chassis

RS Coatings 19" Aluminium Cove Industrial Enterprises Pentair Equipment Protection Perancea Rittal **SRS** Products 19" Steel Cove Industrial Enterprises Pentair Equipment Protection Perancea Rittal **SRS** Products **Custom Design** Cove Industrial Enterprises Pentair Equipment Protection Perancea Rittal **SRS** Products Storm EMC Services

Circuit Protection Devices

ESD Protection Deutsch Murata Electronics **Fuse Holders** Schurter **Fuse Links** Schurter **Fuses -Non-Resettable** AVX Schurter **Fuses-PTC Resettable** Murata Electronics Schurter **Over Current** Deutsch Murata Electronics Schurter **Overvoltage Protection** AVX AEF Solutions **DEM Manufacturing** Murata Electronics Oxley Developments Schurter **Surge Arrestors DEM Manufacturing** MPE

Coatings

Conductive Paints Applied Coating Technologies Chomerics HITEK Electronic Materials **RS** Coatings Selectronix Uvox **Electromagnetic Shielded** Applied Coating Technologies HITEK Electronic Materials **RS** Coatings Selectronix **TÜV SÜD Product** Service **Electrostatic Discharge** HITEK Electronic Materials **RS** Coatings **TÜV SÜD Product** Service

Compliance

3C Test ACB Cherry Clough Consultants *Hursley EMC Services* Kiwa Blackwood Compliance Labs MIRA MS Testing QinetiQ SGS TRaC TÜV SÜD Product Service York EMC Services

Conductive Laminates

Kemtron Laird Technologies Uvox

Conductive Materials

Adhesives Chomerics **HITEK Electronic** Materials Ja-BAR Europe Kemtron Laird Technologies P & P Technology Schlegel EMI Uvox **Caulking & Epoxy** Chomerics HITEK Electronic Materials Kemtron Laird Technologies

HITEK Electronic Materials Ja-Bar Europe Laird Technologies **Dielectric Resins HITEK Electronic** Materials Laird Technologies **Elastomers** Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology Schlegel EMI T.C. Shielding Uvox Foils, Textiles & Laminates Chomerics HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Schlegel EMI Uvox **Paints** Chomerics HITEK Electronic Materials **RS** Coatings **Plastics** Chomerics HITEK Electronic Materials **RS** Coatings Selectronix **Sheet Material** Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology Schlegel EMI Selectronix T.C. Shielding **Spring Gaskets** Chomerics HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Rittal Uvox Strips Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology

Composites

Conduit (Shielded)

Cabletec ICS Kemtron

Connectors

Audio **AEF** Solutions **DEM Manufacturing** Hypertac **ITT** Interconnect Solutions Schurter Selectronix Westside Supplies **Board to Board** Wurth Electronics UK **BS/CECC/CASEEFA/** MIL-C AVX Hypertac **Cable Ties** Rittal **Circular Multicontact AEF Solutions API** Technologies Deutsch Hypertac **ITT** Interconnect Solutions KEC Selectronix Westside Supplies Coaxial **AEF** Solutions **API** Technologies Globec (UK) Hypertac **ITT** Interconnect Solutions Selectronix Westside Supplies DIN **AEF Solutions** AVX **DEM Manufacturing** Rittal Schurter Selectronix Westside Supplies **Earthing Terminals** Selectronix Westside Supplies EN60320 Schurter **Fibre Optic AEF Solutions** Hypertac Selectronix **Filter Pin AEF** Solutions **API** Technologies Deutsch Globec (UK) **ITT** Interconnect Solutions Oxley Developments Selectronix

Filtered **AEF** Solutions API Technologies AVX Deutsch Globec (UK) Hypertac **ITT** Interconnect Solutions Oxley Developments Schurter Selectronix Storm EMC Services Westside Supplies **Filtered Circular API** Technologies Deutsch Oxley Developments Storm EMC Services **Filtered D-Sub API** Technologies Globec (UK) Oxley Developments Storm EMC Services **Filtered Micro-D API** Technologies Oxley Developments Storm EMC Services Fine Pitch & FFC Cables Wurth Electronics UK **Heavy Duty Environmentally Sealed** AVX Deutsch Selectronix Storm EMC Services Heavy Duty Multi-pole Deutsch **ITT** Interconnect Solutions Selectronix **High Voltage** AEF Solutions Deutsch **ITT** Interconnect Solutions **IDC** AVX Rittal Selectronix Westside Supplies **Interface Housing, Metal** Rittal **SRS** Products Interface Housing, Moulded **SRS** Products I/O (Input/Output) Wurth Electronics UK Miniature & Subminiature AVX ITT Interconnect **Solutions** Selectronix Westside Supplies **Modular Edge Card** AVX Selectronix **PCB** Mounted AVX

Deutsch **ITT** Interconnect Solutions Murata Electronics Schurter Selectronix Westside Supplies **Printed Circuit AEF** Solutions AVX ITT Interconnect Solutions Selectronix **Rack & Panel** AEF Solutions Hypertac ITT Interconnect Solutions Rittal Schurter Selectronix Storm EMC Services Rectangular AVX Hypertac ITT Interconnect Solutions Selectronix Storm EMC Services **RF** Coaxial Globec (UK) Hypertac ITT Interconnect Solutions Murata Electronics Westside Supplies Sealed AVX Selectronix Storm EMC Services Shielded Hypertac ITT Interconnect Solutions KEC Schurter Selectronix Westside Supplies **Terminal Blocks API** Technologies Wurth Electronics UK 2 Part PC **AEF** Solutions Selectronix Underwater Selectronix Waterproof **ITT** Interconnect Solutions Selectronix Wire to Board Wurth Electronics UK

Consultancy

AccessERA ERA Technology Compliance Advice 3C Test AQL EMC

Cherry Clough Consultants Cranage EMC & Safety dB Technology Electronic Test & Calibration ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA P & P Technology QinetiQ Richard Marshall Storm EMC Services TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services **Design & Development 3C** Test A C Technology Systems AQL EMC Cherry Clough Consultants Cranage EMC & Safety dB Technology Electronic Test & Calibration Elmac Services ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA P & P Technology Q-Par Angus QinetiQ Rainford EMC Systems Richard Marshall SGS Storm EMC Services TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services EMC General 3C Test A C Technology Systems BAE SYSTEMS Warton Cherry Clough Consultants Cranage EMC & Safety dB Technology **DEM Manufacturing** Dexter Magnetic Technologies Europe Electronic Test & Calibration Elmac Services ERA Technology Haefely Test AG Hursley EMC Services Kiwa Blackwood Compliance Labs

METECC

MIRA

DEM Manufacturing

MS Testing P & P Technology OinetiO Rainford EMC Systems **Richard Marshall** SGS Storm EMC Services TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services **EMF General BAE SYSTEMS Warton** Cherry Clough Consultants Cranage EMC & Safety dB Technology Dexter Magnetic Technologies Europe Elmac Services ERA Technology Hursley EMC Services Kiwa Blackwood **Compliance Labs** MIRA P & P Technology QinetiQ SGS Storm EMC Services TRaC **TÜV SÜD Product** Service York EMC Services **EMI General** AQL EMC **BAE SYSTEMS Warton** Cherry Clough Consultants Cranage EMC & Safety dB Technology Dexter Magnetic Technologies Europe Elmac Services ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA P & P Technology QinetiQ Schlegel EMI Storm EMC Services TRaC **TÜV SÜD Product** Service York EMC Services **Ergonomics** ERA Technology MIRA TRaC **Radio General** Cranage EMC & Safety dB Technology ERA Technology TRaC **TÜV SÜD Product** Service York EMC Services

Safety General 3C Test Cherry Clough Consultants Cranage EMC & Safety ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA SGS TRaC **TÜV SÜD Product** Service York EMC Services Safetv/LVD 3C Test Safety/LVD & Machinery Cherry Clough Consultants Cranage EMC & Safety Electronic Test & Calibration ERA Technology Kiwa Blackwood Compliance Labs METECC MIRA SGS TRaC **TÜV SÜD Product** Service York EMC Services Seminars & Short Courses 3C Test Cherry Clough Consultants dB Technology Electronic Test & Calibration Elmac Services ERA Technology Haefely Test AG Hursley EMC Services METECC MIRA QinetiQ **Richard Marshall** SGS Storm EMC Services TRaC **TÜV SÜD Product** Service York EMC Services Services 3C Test Cherry Clough Consultants Cranage EMC & Safety dB Technology Electronic Test & Calibration Elmac Services ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA

QinetiQ Rainford EMC Systems **Richard Marshall** SGS Storm EMC Services TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services **Shielding Design** AQL EMC Cherry Clough Consultants dB Technology Elmac Services ERA Technology Hurslev EMC Services METECC MIRA P & P Technology OinetiO Rainford EMC Systems Richard Marshall Storm EMC Services I. Thomas TRaC Uvox TCF Cherry Clough Consultants Cranage EMC & Safety dB Technology DEM Manufacturing ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA OinetiO Richard Marshall SGS Storm EMC Services TRaC **TÜV SÜD Product** Service York EMC Services **Test & Compliance** 3C Test **BAE SYSTEMS Warton** Cherry Clough Consultants Cranage EMC & Safety dB Technology Electronic Test & Calibration Elmac Services ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA QinetiQ Rainford EMC Systems Richard Marshall SGS Storm EMC Services TRaC TRW Conekt

TÜV SÜD Product Service York EMC Services **Test Houses 3C** Test **BAE SYSTEMS Warton** Cranage EMC & Safety dB Technology ERA Technology Hursley EMC Services METECC MIRA QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services Troubleshooting 3C Test A C Technology Systems AQL EMC Cherry Clough Consultants Cranage EMC & Safety dB Technology Elmac Services ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA P & P Technology QinetiQ Richard Marshall SGS Storm EMC Services TRaC TRW Conekt **TÜV SÜD Product** Service

Control Panel Wiring

York EMC Services

Cove Industrial Enterprises

Cordsets (Shielded)

Laird Technologies Aluminium Foil Schlegel EMI Westside Supplies Copper Braid Westside Supplies

Couplers

AR Europe AVX Murata Electronics Schurter TMD

Design

Cans Cherry Clough Consultants P & P Technology Storm EMC Services Uvox **EMC General** Cherry Clough Consultants Cranage EMC & Safety CST ERA Technology Kiwa Blackwood Compliance Labs MBDA UK P & P Technology Storm EMC Services York EMC Services **EMF General** Cherry Clough Consultants Cranage EMC & Safety CST ERA Technology P & P Technology York EMC Services **EMI General** Cherry Clough Consultants Cranage EMC & Safety CST ERA Technology P & P Technology Storm EMC Services York EMC Services RF Chomerics CST Laird Technologies MIRA P & P Technology York EMC Services **Test Equipment** Cherry Clough Consultants MIRA **TDK Electronics Europe** Ultra Electronics York EMC Services

Electronic Assembly

Cove Industrial Enterprises

Electrostatic Discharge

Cranage EMC & Safety ERA Technology Haefely Test AG Laplace Instruments TÜV SÜD Product Service York EMC Services

EMC Mark Certifications

International EMC Mark MIRA TRaC TÜV SÜD Product Service

EMC Notified Body

ERA Technology Kiwa Blackwood Compliance Labs MIRA SGS TRaC TÜV SÜD Product Service York EMC Services

EMC & RF Communications Continuing Professional Development

Bespoke Company Training Courses Cherry Clough Consultants Elmac Services Hursley EMC Services **TÜV SÜD Product** Service York EMC Services Hands-on CE Marking Workshops Cherry Clough Consultants TRaC **TÜV SÜD Product** Service York EMC Services **Short Courses** Cherry Clough Consultants Elmac Services Hursley EMC Services TÜV SÜD Product Service York EMC Services

EMC Shielding

C Brandauer Chomerics Laird Technologies MBDA UK T.C. Shielding **Spray Painting** Applied Coating Technologies RS Coatings

Enclosures

Aluminium Barton Engineering & Export Cove Industrial Enterprises

DEM Manufacturing Pentair Equipment Protection Perancea Rainford EMC Systems Rittal Selectronix SRS Products Broadband, 50Hz and DC DM Systems & Test Global EMC UK **Custom Design** Cove Industrial Enterprises DEM Manufacturing DM Systems & Test Laird Technologies Pentair Equipment Protection Perancea Rittal Selectronix SRS Products Storm EMC Services Fabric Cove Industrial Enterprises DM Systems & Test HITEK Electronic Materials Laird Technologies Metal A C Technology Systems Barton Engineering & Export Cove Industrial Enterprises DEM Manufacturing Laird Technologies Pentair Equipment Protection Perancea Rainford EMC Systems Rittal Selectronix SRS Products **TDK Electronics Europe Mild Steel** Cove Industrial Enterprises Pentair Equipment Protection Perancea Rainford EMC Systems Rittal Selectronix **SRS** Products Plastic DEM Manufacturing Pentair Equipment Protection Perancea Rittal **RS** Coatings Selectronix **RFI/EMI Screening/** Shielded AQL EMC Barton Engineering & Export

Cove Industrial Enterprises **DEM Manufacturing** DM Systems & Test Global EMC UK HITEK Electronic Materials Pentair Equipment Protection Perancea Rainford EMC Systems Rittal **RS** Coatings Selectronix SRS Products Storm EMC Services T.C. Shielding **TÜV SÜD Product** Service Uvox **Stainless Steel** Cove Industrial Enterprises Laird Technologies Pentair Equipment Protection Perancea Rainford EMC Systems Rittal Selectronix **TDK Electronics Europe**

Environmental Chambers

MBDA UK MIRA MS Testing QinetiQ SGS TÜV SÜD Product Service Ultra Electronics

ESD

3C Test AEF Solutions Cherry Clough Consultants Cranage EMC & Safety CST EM Test EMC Partner (UK) Haefely Test AG Hursley EMC Services Hypertac Laird Technologies MBDA UK MIRA QinetiQ SGS Storm EMC Services TESEQ TRaC **TÜV SÜD Product** Service York EMC Services

Fans & Blower

Rittal Custom Fan Tray Pentair Equipment Protection SRS Products Fan Tray Pentair Equipment Protection SRS Products

Feedthroughs

A C Technology Systems Globec (UK) MIRA Oxley Developments Storm EMC Services

Ferrites

Cable Shields Chomerics Dexter Magnetic Technologies Europe Globec (UK) **HITEK Electronic** Materials Kemtron Laird Technologies MIRA Selectronix Wurth Electronics UK **Choke Cores** Dexter Magnetic Technologies Europe Globec (UK) **HITEK Electronic** Materials Kemtron Laird Technologies MIRA Murata Electronics Schaffner Selectronix **TDK Electronics Europe** Wurth Electronics UK Connectors Chomerics Deutsch Dexter Magnetic Technologies Europe **HITEK Electronic** Materials Kemtron Laird Technologies Schaffner Selectronix **Iron Powder** Dexter Magnetic Technologies Europe Globec (UK) Laird Technologies **Rods & Beads** Dexter Magnetic Technologies Europe **HITEK Electronic** Materials Kemtron

Laird Technologies

Schaffner Wurth Electronics UK **SM Beads** Dexter Magnetic Technologies Europe HITEK Electronic Materials Kemtron Laird Technologies Wurth Electronics UK **SM Beads Multilaver HITEK Electronic** Materials Kemtron Laird Technologies Murata Electronics Wurth Electronics UK **Snaps & Clamps** Chomerics Dexter Magnetic Technologies Europe Globec (UK) **HITEK Electronic** Materials Kemtron Laird Technologies Schaffner **TDK Electronics Europe** Wurth Electronics UK Test Kit Dexter Magnetic Technologies Europe HITEK Electronic Materials Kemtron Laird Technologies Schaffner

Fibre Optics

Cable Selectronix Connectors Hypertac Selectronix **Opto Isolators** MIRA Selectronix **RF Hardened Analogue** Links MIRA PPM **RF Hardened Cameras** MIRA Systems DM Systems & Test MIRA PPM **Transmitters &** Receivers DM Systems & Test MIRA PPM Video Networks DM Systems & Test

Field Sensors

DM Systems & Test ETS-Lindgren Laplace Instruments

Filters

Absorptive Q-Par Angus Antenna HTT (UK) Laplace Instruments MIRA Q-Par Angus **Telonic Instruments** Arravs AMC **API** Technologies Globec (UK) Murata Electronics Syfer Technology Automotive **AEF** Solutions Laird Technologies MIRA Murata Electronics Radius Power Schaffner Syfer Technology **TDK Electronics Europe Total EMC Products Bandpass** Globec (UK) Total EMC Products Bulkhead AMC Globec (UK) MIRA Schaffner Selectronix Syfer Technology Total EMC Products Cavity MIRA **Telonic Instruments** Chokes Aerco AVX **DEM Manufacturing** Dexter Magnetic Technologies Europe Laird Technologies MIRA Murata Electronics Schaffner Schurter Selectronix **TDK Electronics Europe** Total EMC Products Wurth Electronics UK Coils Aerco **DEM Manufacturing** Laird Technologies MIRA Murata Electronics Schaffner Selectronix **TDK Electronics Europe** Total EMC Products Wurth Electronics UK Connectors **AEF** Solutions **API** Technologies **DEM Manufacturing** Deutsch

Globec (UK) Hypertac ITT Interconnect **Solutions** Oxley Developments Schaffner Schurter Selectronix Storm EMC Services **Control Line** A C Technology Systems **API** Technologies **ETS-Lindgren** Globec (UK) MDL Technologies MIRA MPE Panashield (UK) Schaffner **Total EMC Products Custom Design AEF** Solutions Aerco AMC **API** Technologies AOL EMC DEM Manufacturing Deutsch Dexter Magnetic Technologies Europe ETS-Lindgren Globec (UK) Laird Technologies MDL Technologies MIRA MPE Oxley Developments Radius Power Schaffner Schurter Storm EMC Services Syfer Technology **Total EMC Products** Dataline A C Technology Systems API Technologies **ETS-Lindgren** Globec (UK) Laird Technologies MDL Technologies MIRA MPE Murata Electronics Panashield (UK) Rainford EMC Systems Schaffner Selectronix **TDK Electronics Europe Total EMC Products** Wurth Electronics UK Discrete AMC AVX DEM Manufacturing ETS-Lindgren Globec (UK) Laird Technologies MIRA Oxley Developments Schaffner Schurter

Selectronix Syfer Technology Wurth Electronics UK **Drives** (Specific) **DEM Manufacturing** Schaffner Schurter **TDK Electronics Europe** Duplexer Globec (UK) Telonic Instruments **EE Seal** Wurth Electronics UK **EMI Filter Windows** ETS-Lindgren MDL Technologies Oxley Developments P & P Technology Uvox Feedthrough Aerco AMC **API** Technologies AVX **DEM Manufacturing** Deutsch **ETS-Lindgren** Globec (UK) MPE Oxley Developments Schaffner Selectronix Syfer Technology TDK Electronics Europe Total EMC Products Helical Telonic Instruments **High Current API** Technologies **DEM Manufacturing** ETS-Lindgren Globec (UK) Schaffner **TDK Electronics Europe Total EMC Products High Pass ETS-Lindgren** Infra Red Instrument Plastics Inlet AMC **API** Technologies **DEM Manufacturing** MIRA MPE **Radius** Power Schaffner Schurter Selectronix Storm EMC Services **TDK Electronics Europe** Mains A C Technology Systems **AEF** Solutions **API** Technologies AR UK DEM Manufacturing ETS-Lindgren Globec (UK) MDL Technologies MIRA

MPE Radius Power Schaffner Schurter Selectronix Storm EMC Services **TDK Electronics Europe** Total EMC Products Medical **AEF** Solutions AMC **API** Technologies AR UK AVX **DEM** Manufacturing ETS-Lindgren MDL Technologies MIRA Radius Power Schaffner Schurter Selectronix Mesh Instrument Plastics Microwave AVX ETS-Lindgren Globec (UK) Murata Electronics **O-Par** Angus Syfer Technology **Telonic Instruments** Military AEF Solutions AMC API Technologies DEM Manufacturing ETS-Lindgren Globec (UK) HTT (UK) Hypertac Instrument Plastics MIRA MPE Radius Power Schaffner Storm EMC Services Syfer Technology Total EMC Products **MIL STD 188-125 DEM Manufacturing** ETS-Lindgren MPE **Miniature Ceramic** AMC AVX Globec (UK) MPE Syfer Technology Wurth Electronics UK **Multi-Phase API** Technologies **DEM Manufacturing ETS-Lindgren** MPE Radius Power Schaffner Schurter **TDK Electronics Europe NATO Codified ETS-Lindgren**

PCR **AEF** Solutions Aerco AMC **DEM Manufacturing** Deutsch Globec (UK) Laird Technologies MIRA Oxley Developments Schaffner Schurter Selectronix Syfer Technology Telonic Instruments Wurth Electronics UK Ы Aerco AMC API Technologies AVX Deutsch Globec (UK) Hypertac Oxley Developments Selectronix Syfer Technology Pin **API** Technologies Globec (UK) Oxley Developments Selectronix **Telonic Instruments Power Entry Modules** DEM Manufacturing Radius Power Schaffner Spectrum Control Storm EMC Services Total EMC Products **Power Line** A C Technology Systems AEF Solutions AMC AR UK **DEM Manufacturing** ETS-Lindgren Globec (UK) Laird Technologies MPE Murata Electronics Oxley Developments Panashield (UK) Radius Power Rainford EMC Systems Schaffner Schurter Storm EMC Services Syfer Technology **TDK Electronics Europe** I. Thomas Total EMC Products **R.F.** Lowpass AMC AVX Deutsch Globec (UK) Hypertac MPE Murata Electronics **Oxley Developments**

Schaffner Syfer Technology **Telonic Instruments R.F. Bandpass** Globec (UK) MIRA MPE Schaffner Telonic Instruments **R.F. Tunable Bandpass** MIRA Telonic Instruments **R.F.** Tunable Notch Telonic Instruments **R.F. Programmable Tunable Bandpass** Spectrum Control Telonic Instruments Resonator AVX Globec (UK) Murata Electronics **TDK Electronics Europe** Semi-Custom Design DEM Manufacturing ETS-Lindgren Hypertac MIRA Radius Power Schaffner Syfer Technology **Shielded Room** A C Technology Systems AR UK **ETS-Lindgren** MDL Technologies MPE Panashield (UK) Rainford EMC Systems **TDK Electronics Europe** I. Thomas Total EMC Products **Signal Line** A C Technology Systems AMC **API** Technologies AR UK DEM Manufacturing ETS-Lindgren Globec (UK) Laird Technologies Laplace Instruments MDL Technologies MIRA MPE Murata Electronics **Oxley Developments** Rainford EMC Systems Schaffner Syfer Technology **TDK Electronics Europe** Total EMC Products Wurth Electronics UK **Single Phase API** Technologies **DEM Manufacturing** ETS-Lindgren MDL Technologies MIRA

Radius Power

Rainford EMC Systems

Schaffner Schurter **TDK Electronics Europe SMPS** AMC **API** Technologies AVX **DEM Manufacturing ETS-Lindgren** Laird Technologies MPE Murata Electronics **TDK Electronics Europe Total EMC Products Surface Mount** Aerco **API** Technologies AVX Globec (UK) Laird Technologies Murata Electronics Oxley Developments Selectronix Syfer Technology **TDK Electronics Europe** Wurth Electronics UK Switched AEF Solutions Schaffner Schurter Tempest A C Technology Systems **AEF Solutions API** Technologies AR UK **ETS-Lindgren** Globec (UK) HTT (UK) Instrument Plastics MDL Technologies MIRA MPE Panashield (UK) Radius Power Storm EMC Services **Total EMC Products Three Phase** API Technologies **DEM Manufacturing ETS-Lindgren** MDL Technologies Radius Power Rainford EMC Systems Schaffner Schurter **TDK Electronics Europe Total EMC Products UK Design and** Manufacture **DEM** Manufacturing ETS-Lindgren Oxley Developments Storm EMC Services Total EMC Products Varistor **AEF** Solutions AVX **DEM Manufacturing** Dexter Magnetic Technologies Europe

Schurter Syfer Technology TDK Electronics Europe Wurth Electronics UK

Finger Strips

Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology Schlegel EMI T.C. Shielding

Gaskets (see also Shielding Materials

Clad Foam HITEK Electronic **Materials** Kemtron Laird Technologies P & P Technology T.C. Shielding Uvox **Conductive Elastomers API** Technologies Chomerics **HITEK Electronic** Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology Rittal Schlegel EMI T.C. Shielding **Conductive EPTFE HITEK Electronic** Materials P & P Technology Uvox **Expanded Corrugated Foil HITEK Electronic** Materials Ja-Bar Europe Kemtron P & P Technology **Flat Gaskets API** Technologies Chomerics **HITEK Electronic** Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology Schlegel EMI T.C. Shielding Uvox Form in Place Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron Laird Technologies

P & P Technology Uvox **Knitted Wire** Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron Knitmesh Technologies Laird Technologies P & P Technology Uvox Laminated Foil Chomerics HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Schlegel EMI Uvox Metallised Textile over Foam **API** Technologies HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Schlegel EMI T.C. Shielding Uvox **Oriented Wire in** Silicone Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology Schlegel EMI Uvox **Spring Gaskets API** Technologies Chomerics HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Rittal Uvox

Generators

Arbitary/Function DM Systems & Test Telonic Instruments Comb AR UK EMC Partner (UK) Hursley EMC Services Laplace Instruments York EMC Services Continuous Broadband Noise Source DM Systems & Test HTT (UK) Rohde & Schwarz UK York EMC Services **EMP** AR UK EMC Partner (UK) HTT (UK) **ESD** AR UK DM Systems & Test EM Test EMC Hire EMC Partner (UK) Frequensys Haefely Test AG HTT (UK) Laplace Instruments TESEO Impulse AR UK DM Systems & Test EM Test EMC Hire EMC Partner (UK) Haefely Test AG HTT (UK) **Mains Dips & Interrupts** AR UK EM Test EMC Partner (UK) Frequensys Haefely Test AG HTT (UK) Laplace Instruments **Telonic Instruments TESEQ** RFI (IEC61000-4-3) AR UK DM Systems & Test Frequensys HTT (UK) Laplace Instruments TESEQ **RFI** (IEC61000-4-6) Haefely Test AG Laplace Instruments Rohde & Schwarz UK TESEQ Surge AR UK DM Systems & Test EM Test EMC Hire EMC Partner (UK) Frequensys Haefely Test AG HTT (UK) Laplace Instruments **Telonic Instruments TESEQ** Transient /Burst/Lightning AR UK AR Europe DM Systems & Test EM Test EMC Hire EMC Partner (UK) Frequensys Haefely Test AG HTT (UK) Laplace Instruments **Telonic Instruments TESEO**

Schaffner

Ground Planes

Rainford EMC Systems I. Thomas

Harmonics & Flicker Test Systems

Calibration National Physical Laboratory TESEQ Up to 16A Per Phase EM Test Frequensys Laplace Instruments TESEQ **TÜV SÜD Product** Service Up to 75A Per Phase EM Test Frequensys **Telonic Instruments TESEQ**

Helmoltz Coils

AR UK EMC Hire ETS-Lindgren HTT (UK)

Hire

EMC Hire Storm EMC Services York EMC Services

Inductors

Chokes & Coils API Technologies AVX **DEM Manufacturing** Dexter Magnetic Technologies Europe Kemtron Laird Technologies Murata Electronics Schaffner Schurter Selectronix **TDK Electronics Europe** Wurth Electronics UK **Chokes Filter API** Technologies AVX **DEM Manufacturing** Dexter Magnetic Technologies Europe Kemtron Laird Technologies Murata Electronics Schaffner Schurter Selectronix **TDK Electronics Europe** Wurth Electronics UK

Chokes Leaded+SMD

API Technologies AVX Dexter Magnetic Technologies Europe Kemtron Laird Technologies Murata Electronics Schurter Selectronix **TDK Electronics Europe Power Chokes API** Technologies **DEM Manufacturing** Dexter Magnetic Technologies Europe Kemtron Laird Technologies Murata Electronics Schaffner Schurter Selectronix **TDK Electronics Europe** Wurth Electronics UK **SMD API** Technologies AVX Dexter Magnetic Technologies Europe Kemtron Laird Technologies Murata Electronics Schurter

LVD Notified Body

TDK Electronics Europe

Selectronix

Cranage EMC & Safety MIRA SGS TRaC TÜV SÜD Product Service

Machinery Directive Notified Body

MIRA TRaC TÜV SÜD Product Service

Magnetic Materials

Laird Technologies

Mains Harmonic Analysers

DEM Manufacturing HTT (UK) Laplace Instruments Calibration Electronic Test & Calibration

Metal Cans

Board Level Shields Kemtron Laird Technologies P & P Technology Perancea Uvox Prototyping HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Perancea Uvox Standard **HITEK Electronic** Materials Kemtron Laird Technologies P & P Technology Perancea

Metallic Honeycomb

Chomerics Kemtron Laird Technologies P & P Technology I. Thomas

Meters

Attenuation ETS-Lindgren Electric Field ETS-Lindgren HTT (UK) Laplace Instruments Magnetic Field EMC Hire ETS-Lindgren HTT (UK) Laplace Instruments Radiation Hazard ETS-Lindgren

Notified Bodies

ACA Approved TÜV SÜD Product Service Audi Recognised MIRA **AUSTEL Approved** Hursley EMC Services TRaC **Automotive Technical** Service MIRA SGS TRaC **TÜV SÜD Product** Service **BABT** Approved TRaC

TÜV SÜD Product Service **BMW Recognised** MIRA BSMI Hursley EMC Services CAA Certified TRaC **TÜV SÜD Product** Service **Chrysler Recognised** MIRA **Daimler Chrysler** Recognised MIRA **EMC Notified Body** ACB Hursley EMC Services Kiwa Blackwood Compliance Labs SGS TRaC **TÜV SÜD Product** Service York EMC Services FCC Listed ACB Cranage EMC & Safety dB Technology Hursley EMC Services SGS TRaC TÜV SÜD Product Service York EMC Services **Fiat Recognised** MIRA Ford AB, AC & CS Recognised MIRA **Ford Approved** TRW Conekt Ford AB Approved TRW Conekt Ford AC Approved TRW Conekt **General Motors** Recognised MIRA **GM** Approved TRW Conekt **IECEE CB Approved TÜV SÜD Product** Service **Industry Canada** Cranage EMC & Safety **TÜV SÜD Product** Service Jaguar Landrover Recognised MIRA **Mercedes Benz** Recognised MIRA Nissan Recognised MIRA **Notified Bodies** ACB Cranage EMC & Safety MIRA QinetiQ

SGS

TRaC **TÜV SÜD Product** Service **PSA Recognised** MIRA **RA** Approved SGS TRaC **TÜV SÜD Product** Service **Renault Recognised** MIRA Tata Recognised MIRA TCF Hursley EMC Services MIRA SGS TRaC **TÜV SÜD Product** Service York EMC Services **Toyota Recognised** MIRA **TUV (North America)** Cranage EMC & Safety **UKAS Approved** AQL EMC Cranage EMC & Safety **DEM Manufacturing** Hursley EMC Services Kiwa Blackwood Compliance Labs MBDA UK Mectronics Marine MIRA QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services VCA Approved Hursley EMC Services MIRA QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service **VCA Technical Service** MIRA TRaC **VCCI** Approved Hursley EMC Services TRaC **TÜV SÜD Product** Service York EMC Services Volvo Recognised MIRA **VSCC** Taiwanese Approved MIRA VW Recognised MIRA

OATS Hardware

I. Thomas EUT Platforms EMC Hire ETS-Lindgren Probe Mounts EMC Hire ETS-Lindgren Tripods EMC Hire ETS-Lindgren Rohde & Schwarz UK Turntable Masts EMC Hire ETS-Lindgren Rainford EMC Systems

Obsolete Electronic Components

A C Technology Systems

Optical Filters

Conductive Coatings Chomerics **HITEK Electronic** Materials Instrument Plastics Kemtron **Optical Filters Oxley Developments** P & P Technology **Slater Plastics** Glass Chomerics HITEK Electronic Materials Instrument Plastics Kemtron **Optical Filters** Oxley Developments P & P Technology **Slater Plastics** Mesh Chomerics HITEK Electronic Materials Instrument Plastics Kemtron Laird Technologies **Optical Filters** P & P Technology **Slater Plastics** Plastic Chomerics HITEK Electronic Materials Instrument Plastics Kemtron **Optical Filters Oxley Developments** P & P Technology Slater Plastics

PCB Design

DEM Manufacturing Cherry Clough Consultants Elmac Services MIRA Software CST

Power Supplies & Power Conditioning

AC Power Sources AR UK EM Test HTT (UK) MDL Technologies MIRA Murata Electronics Pentair Equipment Protection PPM Rittal Telonic Instruments TESEQ **DC Power Sources** AR UK EM Test HTT (UK) MDL Technologies MIRA Murata Electronics Pentair Equipment Protection PPM Rittal Telonic Instruments TMD **DC/DC Converters** Alrad Instruments MIRA TMD **DC/DC Converters** Murata Electronics Pentair Equipment Protection Line Impedance **Stabalisation Networks** (LISNS) AR UK EM Test Laplace Instruments MDL Technologies TESEQ TRaC

Probes

Current DM Systems & Test EM Test EMC Hire ETS-Lindgren Frequensys HTT (UK) PPM Rohde & Schwarz UK Telonic Instruments TESEQ

Current Transformers Alrad Instruments **Magnetic Field** AR Europe DM Systems & Test EM Test EMC Hire ETS-Lindgren HTT (UK) Laplace Instruments PPM Rohde & Schwarz UK TESEO **Radiation Hazard** Alrad Instruments DM Systems & Test EMC Hire **ETS-Lindgren** Laplace Instruments Rohde & Schwarz UK RF AR Europe DM Systems & Test EM Test EMC Hire **ETS-Lindgren** Frequensys HTT (UK) Laplace Instruments Rohde & Schwarz UK TESEQ Voltage Alrad Instruments DM Systems & Test EM Test HTT (UK) Laplace Instruments PPM Rohde & Schwarz UK **TESEQ**

Receivers

Analysers EMC Hire ETS-Lindgren Laplace Instruments PPM Rohde & Schwarz UK EMC EMC Hire EMC Partner (UK) ETS-Lindgren Laplace Instruments PPM Rohde & Schwarz UK **TESEQ** EMI & EMF EMC Partner (UK) ETS-Lindgren PPM Rohde & Schwarz UK Tempest ETS-Lindgren PPM Rohde & Schwarz UK

Reference Sources

Laplace Instruments TRaC York EMC Services

Rental

EMC Hire *Rohde & Schwarz UK* Telonic Instruments

R&TTE Notified Body

ACB MIRA QinetiQ SGS TRaC TÜV SÜD Product Service

RoHS Directive

ERA Technology TÜV SÜD Product Service

Self Test/Self Certification

Cherry Clough Consultants York EMC Services

Sensors (Fibre Optic, RF Immune)

Displacement Murata Electronics E.E.D. - RadHaz/Hero AQL EMC Magnetic Murata Electronics Pyroelectric Infrared Murata Electronics

Services

Accreditation Advice DEM Manufacturing Kiwa Blackwood Compliance Labs **TRW** Conekt York EMC Services Acoustic Noise Testing Cranage EMC & Safety **ETS-Lindgren** MS Testing QinetiQ TRaC **Anechoic Chamber Testing BAE SYSTEMS Warton** EMC Hire ETS-Lindgren MBDA UK MDL Technologies METECC MS Testing QinetiQ

Rainford EMC Systems SGS TESEO EMC **Calibration Services** TRaC **TÜV SÜD Product** Service York EMC Services **Antenna Calibration** DM Systems & Test Electronic Test & Calibration EM Test **ETS-Lindgren** MDL Technologies Mectronics Marine National Physical Laboratory Q-Par Angus **TESEQ EMC Calibration Services** Approved CAB for EMC **Testing for America** ETS-Lindgren MIRA SGS TRaC **TÜV SÜD Product** Service **Architectural Shielding** Cherry Clough Consultants ERA Technology MDL Technologies MIRA P & P Technology QinetiQ Rainford EMC Systems Storm EMC Services TRaC TÜV SÜD Product Service BAKOM/BZT/FCC/FTZ/ **RA/Reg TP/VDE/ZZF** Application **TÜV SÜD Product** Service BEAB **TÜV SÜD Product** Service **BEAB/CCA TÜV SÜD Product** Service Calibration DM Systems & Test Electronic Test & Calibration EM Test ETS-Lindgren Haefely Test AG MIRA **TESEQ EMC** Calibration Services **Calibration/Repairs** DM Systems & Test Electronic Test & Calibration EM Test **ETS-Lindgren** Haefely Test AG

TESEQ EMC **Calibration Services** TMD **CB** Scheme QinetiQ SGS TRaC TÜV SÜD Product Service **CCA Scheme** SGS TRaC TÜV SÜD Product Service **CE Services 3C** Test Cherry Clough Consultants Cranage EMC & Safety Electronic Test & Calibration ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs MIRA MS Testing QinetiQ SGS TRaC **TÜV SÜD Product** Service York EMC Services Certifications 3C Test Cranage EMC & Safety Electronic Test & Calibration ERA Technology Hursley EMC Services MIRA QinetiQ TRaC **TÜV SÜD Product** Service York EMC Services **Chamber Calibration** TESEQ EMC Calibration Services Chamber Maintenance & Relocation ETS-Lindgren MDL Technologies Panashield (UK) Rainford EMC Systems I. Thomas TRaC **Computer-Aided Analysis** ERA Technology MIRA Q-Par Angus **CSA for Canada** MIRA TRaC **TÜV SÜD Product** Service **CSAus for US TÜV SÜD Product** Service Design 3C Test

AEF Solutions AQL EMC Cherry Clough Consultants Cove Industrial Enterprises Elmac Services EM Test ERA Technology **ETS-Lindgren** MIRA P & P Technology Q-Par Angus QinetiQ Storm EMC Services TESEO EMC Calibration Services TRaC **TRW** Conekt York EMC Services EMC 3C Test **AEF** Solutions AOL EMC **BAE SYSTEMS Warton** BAE SYSTEMS Cherry Clough Consultants Cove Industrial Enterprises Cranage EMC & Safety DEM Manufacturing DM Systems & Test Electronic Test & Calibration Elmac Services EM Test ERA Technology ETS-Lindgren Hursley EMC Services Kiwa Blackwood Compliance Labs MBDA UK METECC MIRA MS Testing P & P Technology QinetiQ Rainford EMC Systems SGS Storm EMC Services **TESEQ EMC Calibration Services** TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services EMC & EMP **AEF** Solutions AQL EMC BAE SYSTEMS Warton **BAE SYSTEMS** Cherry Clough Consultants DM Systems & Test ERA Technology **ETS-Lindgren** MBDA UK MIRA P & P Technology

QinetiQ Rainford EMC Systems Storm EMC Services TRaC **TÜV SÜD Product** Service **EMC & Tempest AEF** Solutions BAE SYSTEMS Warton Cherry Clough Consultants Cove Industrial Enterprises DM Systems & Test ETS-Lindgren MBDA UK MIRA P & P Technology **OinetiO** Rainford EMC Systems Storm EMC Services **TÜV SÜD Product** Service **EMC Modelling** BAE SYSTEMS Warton Elmac Services ERA Technology **ETS-Lindgren** MBDA UK MIRA QinetiQ York EMC Services **EMC Pre-Compliance** Chamber AQL EMC Cranage EMC & Safety ETS-Lindgren Kiwa Blackwood Compliance Labs METECC Rainford EMC Systems TRaC **TÜV SÜD Product** Service York EMC Services **ENEC Mark** EM Test SGS **TÜV SÜD Product** Service **Environmental Testing** Cranage EMC & Safety Electronic Test & Calibration MIRA MS Testing QinetiQ TRaC TRW Conekt **TÜV SÜD Product** Service Ultra Electronics **ESD 3C** Test **AEF Solutions** AQL EMC BAE SYSTEMS Cherry Clough Consultants Cranage EMC & Safety

Electronic Test & Calibration Elmac Services EM Test ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs MBDA UK METECC MIRA QinetiQ SGS Storm EMC Services **TESEO EMC** Calibration Services TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services FCC **3C** Test Cranage EMC & Safety MS Testing TRaC **TÜV SÜD Product** Service York EMC Services **Field Uniformity** Electronic Test & Calibration EMC Hire **ETS-Lindgren** York EMC Services FIMKO(FI) SGS GOST Hursley EMC Services SGS TRaC **TÜV SÜD Product** Service **HiRF Systems** AQL EMC Q-Par Angus QinetiQ TRaC **Industry Canada** 3C Test Cranage EMC & Safety **TÜV SÜD Product** Service Installation/Large **Machinery Testing on Customer Premises** AQL-EMC Cherry Clough Consultants Cranage EMC & Safety **DEM Manufacturing** DM Systems & Test EM Test ERA Technology **ETS-Lindgren** Hursley EMC Services METECC MIRA OinetiO SGS Storm EMC Services

TESEQ EMC **Calibration Services** TRaC **TÜV SÜD Product** Service York EMC Services **International EMC-Standards Translations** MIRA SGS **International Marketing** SGS **KEMA Mark** TRaC **Keymark Approvals** SGS Lightning AOL EMC Cherry Clough Consultants ERA Technology MBDA UK TRaC TRW Conekt **TÜV SÜD Product** Service **LOVAG Approvals** SGS LVD 3C Test Cherry Clough Consultants Cranage EMC & Safety Electronic Test & Calibration ERA Technology Hursley EMC Services Kiwa Blackwood Compliance Labs MIRA SGS TRaC **TÜV SÜD Product** Service York EMC Services Management AQL EMC Cherry Clough Consultants Cranage EMC & Safety Elmac Services ERA Technology MIRA QinetiQ TRW Conekt York EMC Services Microwave AQL EMC P & P Technology Q-Par Angus TMD York EMC Services NRTL for Canada, USA & Mexico Cranage EMC & Safety **TÜV SÜD Product** Service NSA & NSTL Testing EMC Hire **ETS-Lindgren**

Probe Calibration DM Systems & Test Electronic Test & Calibration **ETS-Lindgren** TESEO EMC Calibration Services **Product Safety/Quality** Cherry Clough Consultants Cranage EMC & Safety ERA Technology Kiwa Blackwood Compliance Labs METECC MIRA TRaC **TÜV SÜD Product** Service York EMC Services **Product Safety & Quality** Management Cherry Clough Consultants Cranage EMC & Safety METECC MIRA TÜV SÜD Product Service York EMC Services Quality Assessment to EN45001/ISO Guide 25 SGS TÜV SÜD Product Service Quality Audits to EN29000/ISO9000 METECC SGS TÜV SÜD Product Service **Reverberation Chamber** Testing ETS-Lindgren MBDA UK QinetiQ **TESEQ EMC Calibration Services** TRaC York EMC Services SGS Mark SGS **Shielded Effectiveness** Testing AQL-EMC **BAE SYSTEMS** Cherry Clough Consultants Cranage EMC & Safety EMC Hire ERA Technology ETS-Lindgren MBDA UK MDL Technologies MIRA QinetiQ Panashield (UK) Rainford EMC Systems **TESEQ EMC Calibration Services** TRaC

TÜV SÜD Product Service York EMC Services Shielded Efficiency AQL EMC Cherry Clough Consultants Cranage EMC & Safety MDL Technologies MIRA P & P Technology QinetiQ Rainford EMC Systems TESEQ EMC Calibration Services TRaC Site Attenuation Testing AOL-EMC **ETS-Lindgren** Hursley EMC Services MIRA Panashield (UK) OinetiO Rainford EMC Systems **TESEQ EMC Calibration Services** TRaC Site Surveys A C Technology Systems AOL-EMC Cherry Clough Consultants Cranage EMC & Safety EM Test EMC Hire ERA Technology **ETS-Lindgren** Hursley EMC Services MDL Technologies MIRA QinetiQ Rainford EMC Systems SGS Storm EMC Services **TESEQ EMC Calibration Services** TRaC **TÜV SÜD Product** Service York EMC Services Site Surveys EMF AQL EMC Cherry Clough Consultants Cranage EMC & Safety ERA Technology Kiwa Blackwood Compliance Labs MDL Technologies **TÜV SÜD Product** Service York EMC Services Site Surveys ESD AQL EMC Cherry Clough Consultants Cranage EMC & Safety ERA Technology Hursley EMC Services MIRA

TÜV SÜD Product Service York EMC Services Site Surveys RF AQL EMC ERA Technology ETS-Lindgren MDL Technologies Storm EMC Services York EMC Services System Assessment EMP, SGEMP, EMI A C Technology Systems Cherry Clough Consultants ERA Technology MIRA **OinetiO TÜV SÜD Product** Service Tempest **BAE SYSTEMS Warton** Cherry Clough Consultants MIRA P & P Technology QinetiQ Storm EMC Services TRaC TÜV SÜD Product Service **Test Houses & Testing** Services AQL EMC Cranage EMC & Safety ETS-Lindgren Kiwa Blackwood Compliance Labs TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services Testing for South Africa, Australia & New Zealand Cranage EMC & Safety TRaC **Testing on Customer** Premises AQL EMC Cherry Clough Consultants Cranage EMC & Safety **DEM Manufacturing** ERA Technology **ETS-Lindgren** Hursley EMC Services METECC MIRA **OinetiO** Storm EMC Services **TESEQ EMC** Calibration Services TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services TUV (cTUVus Mark) for Canada & USA Cranage EMC & Safety

TÜV SÜD Product Service TUV (GOST-R Mark) for Russia **TÜV SÜD Product** Service TUV (GS Mark) TRaC **TÜV SÜD Product** Service **UL Mark** TRaC **USTC (NRTL) Approvals** for America SGS TÜV SÜD Product Service **Shielding Materials (see** also Gaskets) Architectural AOL EMC **ETS-Lindgren** Global EMC UK HITEK Electronic Materials Ja-Bar Europe Kemtron P & P Technology Rainford EMC Systems I. Thomas Uvox **Board Level Screening** Chomerics Kemtron Laird Technologies P & P Technology Perancea Schlegel EMI T.C. Shielding Uvox **Coatings RFI/EMI** Chomerics HITEK Electronic Materials Laird Technologies P & P Technology Perancea **RS** Coatings Uvox Fabric Chomerics DM Systems & Test HITEK Electronic Materials Kemtron Laird Technologies P & P Technology T.C. Shielding I. Thomas Uvox Foils & Sheets AQL EMC Chomerics ETS-Lindgren Global EMC UK HITEK Electronic Materials Ja-Bar Europe Kemtron

Laird Technologies P & P Technology Rainford EMC Systems T.C. Shielding Form in Place Chomerics **HITEK Electronic** Materials Ja-Bar Europe Kemtron Laird Technologies P & P Technology Schlegel EMI Uvox Honeycomb, EMC Airflow Chomerics **ETS-Lindgren** HITEK Electronic Materials Kemtron Laird Technologies Ja-Bar Europe P & P Technology Rainford EMC Systems Schlegel EMI I. Thomas **Materials RF** Chomerics DM Systems & Test ETS-Lindgren Global EMC UK HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Rainford EMC Systems T.C. Shielding Uvox **Mu-Metal Shielding** HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Rainford EMC Systems Rittal **Paints** Chomerics HITEK Electronic Materials Laird Technologies Rittal Uvox **Spring Gaskets** Chomerics DM Systems & Test HITEK Electronic Materials Kemtron Laird Technologies P & P Technology Rittal Uvox Tubing Cabletec ICS Chomerics HITEK Electronic Materials Ja-Bar Europe Kemtron

Laird Technologies P & P Technology T.C. Shielding I. Thomas Windows Chomerics **ETS-Lindgren** Global EMC UK **HITEK Electronic** Materials Instrument Plastics Ja-Bar Europe Kemtron Laird Technologies P & P Technology Rainford EMC Systems Rittal Schlegel EMI **Slater Plastics** I. Thomas Uvox

Shielded Rooms & Accessories

50Hz Shielding Global EMC **Anechoic Chambers** A C Technology Systems AR UK EMC Partner (UK) **ETS-Lindgren** Frequensys Laplace Instruments MDL Technologies Panashield (UK) Rainford EMC Systems **TDK Electronics Europe** L Thomas **Anechoic Chambers** (Compact + CISPR16) ETS-Lindgren Frequensys Global EMC UK Laplace Instruments MDL Technologies Panashield (UK) Rainford EMC Systems Cabins A C Technology Systems AQL EMC Barton Engineering & Export EMC Partner (UK) Frequensys Global EMC UK MDL Technologies Rainford EMC Systems **TDK Electronics Europe** I. Thomas **DC** Shielding Global EMC Doors A C Technology Systems AQL EMC AR UK Barton Engineering & Export EMC Partner (UK) **ETS-Lindgren** Frequensys

Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems **TDK Electronics Europe** I. Thomas **Military Applications** Global EMC MRI AR UK EMC Partner (UK) **ETS-Lindgren** Frequensys Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems I. Thomas **Room Filters** A C Technology Systems AQL EMC AR UK EMC Partner (UK) ETS-Lindgren Frequensys Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems **TDK Electronics Europe** I. Thomas **Room Lighting Systems** EMC Partner (UK) **ETS-Lindgren** MDL Technologies Rainford EMC Systems **TDK Electronics Europe** I. Thomas **Rooms & Enclosures** A C Technology Systems AQL EMC AR UK Barton Engineering & Export EMC Partner (UK) **ETS-Lindgren** Frequensys Global EMC UK **HITEK Electronic** Materials MDL Technologies Panashield (UK) Rainford EMC Systems Rittal **TDK Electronics Europe Shielded CCTV Camera Systems** AR UK EMC Partner (UK) ETS-Lindgren Frequensys Global EMC UK MDL Technologies Panashield (UK) Rainford EMC Systems Shielding Trunking with **Access Ports** Global EMC Vehicle Test Applications Global EMC

Shielding Process

Application of RFI/EMI Coatings Chomerics Laird Technologies P & P Technology RS Coatings Uvox

Shielding Services

MIRA On Site Testing & Consultancy AQL EMC Cherry Clough Consultants **ETS-Lindgren RFI/EMI** Shielding for all Plastic Enclosures Cherry Clough Consultants Chomerics Laird Technologies P & P Technology Rittal **RS** Coatings Uvox

Simulators

EMP AQL EMC AR UK EMC Partner (UK) TESEQ **ESD** AQL EMC AR UK EM Test EMC Partner (UK) Frequensys Haefely Test AG Laplace Instruments TESEO **Fast Transient Burst** AQL EMC AR UK EM Test EMC Partner (UK) Frequensys Haefely Test AG Laplace Instruments **Telonic Instruments** TESEQ Lightning AQL EMC AR UK **BAE SYSTEMS Warton** EM Test EMC Partner (UK) Frequensys Haefely Test AG TESEQ **Mains Dropouts &** Variations AOL EMC AR UK EM Test

Frequensys Haefely Test AG Laplace Instruments **Telonic Instruments TESEO Mains Surge** AQL EMC AR UK EM Test EMC Partner (UK) Frequensys Haefely Test AG Laplace Instruments Telonic Instruments TESEO Training AR UK EM Test EMC Partner (UK) Frequensys

EMC Partner (UK)

Software

Haefely Test AG

Antenna Design CST Frequensys **CD Rom's EMI/EMC Related** AQL EMC AR UK AR Europe CST DM Systems & Test EM Test EMC Hire **ETS-Lindgren** Frequensys Hursley EMC Services **TDK Electronics Europe** TESEQ EMF Rohde & Schwarz UK CST **Magnetic Health** Monitoring EMC Hire PC Software for Testing EM Test Rohde & Schwarz UK TESEQ **PCB** Design CST Frequensys **Receiver/Analyser Control** DM Systems & Test Rohde & Schwarz UK **Simulation Software** CST Frequensys **TESEQ** Surveillance EMC Hire Windows Based AR UK CST EM Test Frequensys Rohde & Schwarz UK TESEQ

Windows Software Package AR UK EM Test Frequensys Rohde & Schwarz UK TESEQ

Standards

Airbus AOL EMC TRaC TRW Conekt Boeing AQL EMC TRaC TRW Conekt British AOL EMC Hursley EMC Services P & P Technology QinetiQ TRaC **TÜV SÜD Product** Service Commercial AQL EMC Hursley EMC Services P & P Technology QinetiQ TRaC **TÜV SÜD Product** Service European AOL EMC Chomerics Hursley EMC Services P & P Technology QinetiQ TRaC **TÜV SÜD Product** Service Japan Hursley EMC Services TRaC **TÜV SÜD Product** Service Korea TRaC Hursley EMC Services Military AQL EMC Hursley EMC Services P & P Technology QinetiQ TRaC TRW Conekt **TÜV SÜD Product** Service NATO AQL EMC TRaC **North America** AQL EMC P & P Technology TRaC **TÜV SÜD Product** Service **Other International** AQL EMC

Hursley EMC Services P & P Technology QinetiQ TRaC **TÜV SÜD Product** Service Taiwan Hursley EMC Services USA AOL EMC Hursley EMC Services P & P Technology QinetiQ TRaC **TÜV SÜD Product** Service Subracks and Modules **Custom Design** Cove Industrial Enterprises DEM Manufacturing Pentair Equipment Protection **SRS** Products Storm EMC Services **Custom Enclosure** Cove Industrial Enterprises Pentair Equipment Protection **SRS** Products Storm EMC Services EMC Pentair Equipment Protection Rittal **SRS** Products Storm EMC Services Eurocard Pentair Equipment Protection Rittal **SRS** Products Static Control & **Lightning Protection**

> Cherry Clough Consultants Globec (UK)

Suppression

EMP A C Technology Systems Deutsch Globec (UK) HITEK Electronic Materials Hypertac MIRA MPE P & P Technology Storm EMC Services Lightning A C Technology Systems Cherry Clough Consultants

DEM Manufacturing Deutsch ERA Technology Globec (UK) HITEK Electronic Materials Hypertac MPE Selectronix Storm EMC Services Spark & Arc Cherry Clough Consultants DEM Manufacturing Globec (UK) HITEK Electronic Materials Hypertac Surge Cherry Clough Consultants DEM Manufacturing DM Systems & Test Globec (UK) HITEK Electronic Materials Hypertac MIRA MPE Selectronix Storm EMC Services Tempest A C Technology Systems DM Systems & Test Globec (UK) HITEK Electronic Materials MIRA MPE P & P Technology Storm EMC Services **Transient Surge** Absorbers **DEM Manufacturing** Globec (UK) MPE Selectronix Storm EMC Services Transients A C Technology Systems Cherry Clough Consultants DEM Manufacturing Deutsch Globec (UK) HITEK Electronic Materials Hypertac MIRA Oxley Developments Selectronix Storm EMC Services

Surface Mount

API Technologies AVX Laird Technologies Oxley Developments

Surface Mount Devices

API Technologies AVX Globec (UK) Laird Technologies Oxley Developments Schurter

Surge Protection

Cherry Clough Consultants Cranage EMC & Safety DEM Manufacturing Globec (UK) Hypertac Oxley Developments Selectronix

System Assessment

Cherry Clough Consultants Elmac Services QinetiQ

Tapes (Conductive)

Chomerics HITEK Electronic Materials Kemtron Laird Technologies P & P Technology

TCB for F<u>CC Rules</u>

ACB TRaC TÜV SÜD Product Service

Test <u>Equipment</u>

Absorption Clamps AR UK DM Systems & Test EM Test EMC Partner (UK) ETS-Lindgren Frequensys HTT (UK) Richard Marshall Rohde & Schwarz UK **TESEQ Arbitary Waveform** Generators **Telonic Instruments** Audio DM Systems & Test Richard Marshall **C+Tan Delta Bridges** HTT (UK) CDN's AR UK DM Systems & Test EM Test ETS-Lindgren

Frequensys Haefely Test AG HTT (UK) Laplace Instruments **Richard Marshall TESEO Conducted & Radiated Test Equipment** AR UK AR Europe Cherry Clough Consultants DM Systems & Test EM Test EMC Partner (UK) ETS-Lindgren Frequensys Haefely Test AG HTT (UK) Hursley EMC Services Laplace Instruments MDL Technologies Rohde & Schwarz UK **TDK Electronics Europe** TESEQ York EMC Services **Dielectric Test Systems** Alrad Instruments Frequensys **Telonic Instruments Digital Multimeters Telonic Instruments Electrical Safety** AR UK EMC Partner (UK) Frequensys MDL Technologies Telonic Instruments **EM Fieldmeter** AR UK EMC Hire EMC Partner (UK) HTT (UK) Laplace Instruments **EMI Receivers** Agilent Technologies UK AR UK DM Systems & Test EMC Hire EMC Partner (UK) **ETS-Lindgren** Laplace Instruments MDL Technologies PPM Rohde & Schwarz UK **TESEQ Emission Test Systems** Agilent Technologies UK AR UK EMC Hire EMC Partner (UK) ETS-Lindgren Frequensys HTT (UK) Hursley EMC Services Laplace Instruments MDL Technologies Rohde & Schwarz UK **TDK Electronics Europe TESEO**

Fibre Optic AR UK DM Systems & Test EMC Partner (UK) Frequensys MDL Technologies PPM Flicker Agilent Technologies UK AR UK EM Test EMC Partner (UK) Frequensys HTT (UK) Laplace Instruments **Telonic Instruments TESEO G-TEM Cells** AR UK DM Systems & Test EMC Hire EMC Partner (UK) ETS-Lindgren Laplace Instruments MDL Technologies **TESEO** York EMC Services Harmonic Agilent Technologies UK AR UK EM Test EMC Partner (UK) Frequensys HTT (UK) Laplace Instruments Telonic Instruments **TESEQ** York EMC Services **Harmonic Analysis** Agilent Technologies UK EM Test EMC Hire Frequensys Laplace Instruments MDL Technologies **Telonic Instruments TESEQ High Voltage Pulse** Generators Alrad Instruments DM Systems & Test EM Test **Richard Marshall HiRF Systems** DM Systems & Test ETS-Lindgren Frequensys Q-Par Angus TMD **Immunity Clamps** AR UK DM Systems & Test EM Test EMC Partner (UK) **ETS-Lindgren** Frequensys Haefely Test AG HTT (UK) Hursley EMC Services **TESEQ**

Immunity Test Systems AR UK DM Systems & Test EM Test EMC Hire EMC Partner (UK) **ETS-Lindgren** Frequensys Haefely Test AG HTT (UK) Laplace Instruments MDL Technologies Rohde & Schwarz UK TDK Electronics Europe **TESEQ** Large Loop Antennas AR UK DM Systems & Test EMC Partner (UK) ETS-Lindgren Frequensys Laplace Instruments MDL Technologies Rohde & Schwarz UK TESEQ LCR Bridges AR UK Telonic Instruments Leasing & Rental Agilent Technologies UK EM Test EMC Hire **Telonic Instruments TESEQ** TMD Line Impedance **Stabilisation Networks** (LISNS) AR UK DM Systems & Test EM Test EMC Hire EMC Partner (UK) **ETS-Lindgren** Frequensys Laplace Instruments MDL Technologies **Richard Marshall** Rohde & Schwarz UK TESEQ **Magnetic Immunity Test Set** AR UK DM Systems & Test EM Test EMC Partner (UK) Frequensys Haefely Test AG HTT (UK) **TESEQ** Oscilloscopes Agilent Technologies UK **Telonic Instruments Partial Discharge Detectors** HTT (UK) **Power Amplifiers** AR UK AR Europe DM Systems & Test

EM Test EMC Hire EMC Partner (UK) ETS-Lindgren Frequensys HTT (UK) Laplace Instruments MDL Technologies MILMEGA Rohde & Schwarz UK TESEO TMD **Power Analysers** Agilent Technologies UK AR UK EMC Partner (UK) HTT (UK) Laplace Instruments MDL Technologies **TESEQ Telonic Instruments Power Meters** Agilent Technologies UK AR UK AR Europe Frequensys HTT (UK) Laplace Instruments MDL Technologies Rohde & Schwarz UK **Telonic Instruments TESEQ Power Oscillators** HTT (UK) TMD **Preamplifiers** Agilent Technologies UK AR UK AR Europe DM Systems & Test EMC Hire ETS-Lindgren Frequensys Laplace Instruments Rohde & Schwarz UK TESEQ TMD **Pre-selectors** Agilent Technologies UK DM Systems & Test ETS-Lindgren Laplace Instruments **TESEQ Programmable Loads** Agilent Technologies UK AR UK Frequensys MDL Technologies **Telonic Instruments** Receivers Agilent Technologies UK AR UK DM Systems & Test EMC Partner (UK) **ETS-Lindgren** Laplace Instruments MDL Technologies PPM Rohde & Schwarz UK TESEQ

TMD

Reference Source AR UK Frequensys Laplace Instruments **TESEO** York EMC Services **Repair & Calibration** Agilent Technologies UK AR UK DM Systems & Test EM Test EMC Partner (UK) **ETS-Lindgren** Rohde & Schwarz UK **TESEO** TMD **Signal Generators** Agilent Technologies UK AR UK AR Europe DM Systems & Test EM Test **ETS-Lindgren** Laplace Instruments Rohde & Schwarz UK TESEO TMD **Spectrum Analysers** Agilent Technologies UK AR UK DM Systems & Test EMC Partner (UK) **ETS-Lindgren** Laplace Instruments Rohde & Schwarz UK Telonic Instruments Spectrum Analysers PC Controlled A C Technology Systems ETS-Lindgren Laplace Instruments Rohde & Schwarz UK TEM Cells AR UK DM Systems & Test Frequensys MDL Technologies TESEQ **Tempest Test Equipment** DM Systems & Test HTT (UK) PPM Rohde & Schwarz UK **Transient Measuring** Devices Cherry Clough Consultants DM Systems & Test EM Test Haefely Test AG HTT (UK) Hursley EMC Services PPM **TESEQ**

Test Houses & Testing Services

Acoustic Noise Testing BAE SYSTEMS Warton Cranage EMC & Safety

MIRA MS Testing QinetiQ TRaC **Anechoic Chamber** Testing dB Technology Electromagnetic Testing Services EMC Centre (Paisley) MBDA UK MS Testing QinetiQ TRaC Ultra Electronics Antenna Calibration Electronic Test & Calibration Audio Testing SGS York EMC Services Automotive AOL EMC **3C** Test dB Technology Electromagnetic Testing Services Electronic Test & Calibration METECC MIRA QinetiQ TRaC **TRW** Conekt **TÜV SÜD Product** Service BSMI Hursley EMC Services **Cable Testing** AQL EMC **DEM** Manufacturing Electromagnetic **Testing Services** Electronic Test & Calibration EMC Centre (Paisley) ERA Technology MBDA UK QinetiQ SGS TRaC York EMC Services **CE** Compliance 3C Test AQL EMC Cherry Clough Consultants Cranage EMC & Safety dB Technology **DEM Manufacturing** Electromagnetic **Testing Services** Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services Kiwa Blackwood Compliance Labs METECC

MS Testing QinetiQ SGS TRaC **TÜV SÜD Product** Service York EMC Services **Civil & Military Testing** 3C Test AOL-EMC **BAE SYSTEMS Warton BAE SYSTEMS** dB Technology DEM Manufacturing Electromagnetic Testing Services Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services MBDA UK METECC MIRA OinetiO SGS TRaC TRW Conekt **TÜV SÜD Product** Service **Compliance Testing** 3C Test AQL-EMC BAE SYSTEMS Warton Cranage EMC & Safety dB Technology DEM Manufacturing Electromagnetic **Testing Services** Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services Kiwa Blackwood Compliance Labs MIRA MS Testing QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services **Compliance Worldwide** AQL EMC BAE SYSTEMS Warton Cranage EMC & Safety Electromagnetic Testing Services Electronic Test & Calibration Hursley EMC Services MIRA MS Testing TRaC **TÜV SÜD Product** Service York EMC Services **Electromedical Devices** Testing Cranage EMC & Safety

METECC TRaC **TÜV SÜD Product** Service EMC AOL-EMC **BAE SYSTEMS Warton BAE SYSTEMS** Cherry Clough Consultants Cranage EMC & Safety dB Technology **DEM Manufacturing** Electromagnetic Testing Services Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services Kiwa Blackwood Compliance Labs MBDA UK METECC MIRA MS Testing QinetiQ SGS Storm EMC Services TRW Conekt **TÜV SÜD Product** Service Ultra Electronics York EMC Services **EMC & Tempest** Testing BAE SYSTEMS Warton DM Systems & Test Electronic Test & Calibration MIRA OinetiO Storm EMC Services TRaC **TÜV SÜD Product** Service **EMC Engineering &** Consultancy AQL EMC Cherry Clough Consultants Cranage EMC & Safety dB Technology Electromagnetic **Testing Services** EMC Centre (Paisley) ERA Technology MBDA UK METECC Storm EMC Services TRaC **TRW** Conekt **TÜV SÜD Product** Service York EMC Services **Environmental Testing BAE SYSTEMS Warton BAE SYSTEMS** Cranage EMC & Safety Electronic Test & Calibration MIRA

MIRA

QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service **EUP/ECO-Design** Requirements 2005/32/EC Cranage EMC & Safety SGS FCC **3C** Test Cranage EMC & Safety dB Technology Electromagnetic **Testing Services** EMC Centre (Paisley) Hursley EMC Services METECC MIRA SGS TRaC **TÜV SÜD Product** Service York EMC Services FCC Listed 3C Test dB Technology Cranage EMC & Safety Electromagnetic **Testing Services** Hursley EMC Services MIRA MS Testing SGS TRaC **TÜV SÜD Product** Service York EMC Services GSM dB Technology **TÜV SÜD Product** Service **GTEM Testing** Cranage EMC & Safety dB Technology Electromagnetic **Testing Services** TRaC York EMC Services Halt Electronic Test & Calibration TRaC **TRW** Conekt **TÜV SÜD Product** Service **HIRF Test Services** AQL-EMC **BAE SYSTEMS Warton** ERA Technology MBDA UK **OinetiO** TRaC TRW Conekt **TÜV SÜD Product** Service **IECEE CB Test Report** Hursley EMC Services MIRA SGS

TRaC **TÜV SÜD Product** Service **Instrument Calibration** DM Systems & Test Electronic Test & Calibration **Lightning Strike Test** Services AOL EMC **BAE SYSTEMS Warton** TRaC TRW Conekt **TÜV SÜD Product** Service Low Voltage Directive Cranage EMC & Safety Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA SGS TRaC **TÜV SÜD Product** Service York EMC Services Materials & Component Analysis Cranage EMC & Safety MIRA TRW Conekt **Military Testing** AQL-EMC BAE SYSTEMS Warton dB Technology **DEM** Manufacturing Electromagnetic Testing Services Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services MBDA UK MIRA QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service Mobile On-site AQL-EMC **BAE SYSTEMS Warton** Cherry Clough Consultants dB Technology DEM Manufacturing Electromagnetic **Testing Services** EMC Centre (Paisley) ERA Technology Hursley EMC Services METECC MIRA **OinetiO** SGS

TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services **Mobile Phone Testing** SGS TÜV SÜD Product Service Noise **BAE SYSTEMS Warton DEM Manufacturing** MIRA TRaC **On-site Calibration** Electronic Test & Calibration MIRA **On-site Testing** AQL-EMC Cherry Clough Consultants Cranage EMC & Safety dB Technology **DEM Manufacturing** Electromagnetic **Testing Services** Electronic Test & Calibration EMC Centre (Paisley) ERA Technology Hursley EMC Services METECC MIRA QinetiQ SGS Storm EMC Services TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services **Pre-compliance EMC** Testing 3C Test AQL-EMC BAE SYSTEMS Warton **BAE SYSTEMS** Cherry Clough Consultants Cranage EMC & Safety dB Technology **DEM Manufacturing** Electromagnetic **Testing Services** Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services Kiwa Blackwood Compliance Labs METECC MIRA QinetiQ SGS Storm EMC Services TRaC TRW Conekt **TÜV SÜD Product** Service Ultra Electronics

York EMC Services **Radio Testing** Cranage EMC & Safety dB Technology Electronic Test & Calibration Hursley EMC Services METECC MIRA **OinetiO** SGS TRaC **TÜV SÜD Product** Service **Railway Testing** Electromagnetic **Testing Services** EMC Centre (Paisley) METECC TRaC **TÜV SÜD Product** Service York EMC Services **R&TTE** Cranage EMC & Safety dB Technology Electromagnetic Testing Services Electronic Test & Calibration EMC Centre (Paisley) METECC MIRA QinetiQ SGS TRaC TÜV SÜD Product Service York EMC Services **REACH Services** SGS TÜV SÜD Product Service **Remedial EMC Work** AQL EMC Cherry Clough Consultants Cranage EMC & Safety Electromagnetic **Testing Services** Kiwa Blackwood Compliance Labs Storm EMC Services York EMC Services **RoHS XRF Screening** ERA Technology SGS **Root Cause Analysis** ERA Technology MIRA TRW Conekt Safety Testing (EU) Cranage EMC & Safety Electronic Test & Calibration Kiwa Blackwood Compliance Labs METECC MIRA SGS

TRaC **TÜV SÜD Product** Service York EMC Services Safety Testing (USA & Canada) Cranage EMC & Safety MIRA SGS TRaC Safety Testing (Other) Cranage EMC & Safety Hursley EMC Services MIRA SGS TRaC **TÜV SÜD Product** Service SAR MIRA TRaC **TÜV SÜD Product** Service Shielded Effectiveness Testing AQL EMC Cherry Clough Consultants Cranage EMC & Safety Electromagnetic **Testing Services** EMC Centre (Paisley) ERA Technology MBDA UK TRaC **TÜV SÜD Product** Service York EMC Services Site Surveys EMF AQL EMC Cherry Clough Consultants Cranage EMC & Safety ERA Technology Electromagnetic **Testing Services** Kiwa Blackwood Compliance Labs Storm EMC Services **TÜV SÜD Product** Service York EMC Services Surge Testing AQL EMC Cranage EMC & Safety dB Technology Electromagnetic **Testing Services** EMC Centre (Paisley) Kiwa Blackwood Compliance Labs METECC TRaC **TÜV SÜD Product** Service York EMC Services **Telecoms - Compliance** Testing Cranage EMC & Safety dB Technology

Electromagnetic **Testing Services** Electronic Test & Calibration QinetiQ SGS TRaC **TÜV SÜD Product** Service York EMC Services **Telecoms - Pre-Compliance Testing BAE SYSTEMS Warton** Cranage EMC & Safety dB Technology Electromagnetic **Testing Services** Electronic Test & Calibration Hursley EMC Services Kiwa Blackwood Compliance Labs METECC SGS TRaC **TÜV SÜD Product** Service York EMC Services **Telecoms - Performance** Testing Cranage EMC & Safety SGS TRaC **TÜV SÜD Product** Service York EMC Services Test & Certification Labs Canada Cranage EMC & Safety dB Technology EMC Centre (Paisley) **TÜV SÜD Product** Service Test & Certification Labs UK 3C Test BAE SYSTEMS Cranage EMC & Safety dB Technology Electromagnetic **Testing Services** Electronic Test & Calibration EMC Centre (Paisley) Hursley EMC Services Kiwa Blackwood Compliance Labs MIRA MS Testing QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service York EMC Services **Test & Certification Labs** USA Cranage EMC & Safety dB Technology EMC Centre (Paisley)

Hursley EMC Services SGS **TÜV SÜD Product** Service **Test & Certification** Labs(Other Foreign) Cranage EMC & Safety dB Technology Hursley EMC Services SGS **TÜV SÜD Product** Service Test Diagnosis & Facilities **3C** Test AOL-EMC **BAE SYSTEMS** Cherry Clough Consultants Cranage EMC & Safety dB Technology Electromagnetic **Testing Services** Electronic Test & Calibration Elmac Services EMC Centre (Paisley) Hursley EMC Services METECC MIRA QinetiQ SGS Storm EMC Services York EMC Services **USA Compliance** Cranage EMC & Safety dB Technology EMC Centre (Paisley) Hursley EMC Services MIRA SGS TRaC **TÜV SÜD Product** Service York EMC Services VCA Approved Test **House for EC Directive** 3C Test Electromagnetic **Testing Services** Hursley EMC Services MIRA QinetiQ SGS TRaC TRW Conekt **TÜV SÜD Product** Service VCCI 3C Test Electromagnetic **Testing Services** Hursley EMC Services TRaC **TÜV SÜD Product** Service York EMC Services Whole Vehicle EMC Test 3C Test AOL EMC TRaC

TÜV SÜD Product Service

Training

Computer Based BAE SYSTEMS Warton **Designing for EMC** BAE SYSTEMS Warton Cherry Clough Consultants Elmac Services ERA Technology Hursley EMC Services METECC MIRA QinetiQ **Richard Marshall** SGS Storm EMC Services The EMC Centre TRaC **TÜV SÜD Product** Service York EMC Services Education Cherry Clough Consultants Elmac Services **ETS-Lindgren** Hursley EMC Services METECC MIRA TRaC **TÜV SÜD Product** Service York EMC Services **EMC Design** ERA Technology TRaC **TÜV SÜD Product** Service EMC Design & Measurement Cherry Clough Consultants ERA Technology ETS-Lindgren Storm EMC Services **TÜV SÜD Product** Service York EMC Services **EMC for Buildings** Cherry Clough Consultants ERA Technology QinetiQ Storm EMC Services York EMC Services **EMC Measurement** AR UK Cherry Clough Consultants Elmac Services ERA Technology Hursley EMC Services METECC MIRA QinetiQ SGS York EMC Services

IEC 61508 Cherry Clough Consultants ERA Technology **Interactive Workshops** Cherry Clough Consultants **ETS-Lindgren OinetiO** York EMC Services Intro to EMC AR UK Cherry Clough Consultants Elmac Services ERA Technology Hursley EMC Services METECC MIRA QinetiQ SGS Storm EMC Services TRaC **TÜV SÜD Product** Service York EMC Services **Machinery Directive** Cherry Clough Consultants SGS TRaC **TÜV SÜD Product** Service **MIL-STD** AQL EMC Elmac Services ERA Technology ETS-Lindgren Hursley EMC Services QinetiQ TRaC **TÜV SÜD Product** Service **Radiation Hazards** AR UK Elmac Services ERA Technology Hursley EMC Services METECC SGS Storm EMC Services TRaC **TÜV SÜD Product** Service **Testing Techniques** Cherry Clough Consultants ERA Technology **ETS-Lindgren TÜV SÜD Product** Service York EMC Services **Training & Seminars:** EMC & ESD Cherry Clough Consultants ERA Technology Hursley EMC Services Storm EMC Services TRaC

TÜV SÜD Product Service York EMC Services **Training & Seminars:** EMC, ESD, EMP, **TEMPEST** AR UK **BAE SYSTEMS Warton MIRA OinetiO** Storm EMC Services **TÜV SÜD Product** Service York EMC Services **Training & Seminars: EMC & Compliance** Topics BAE SYSTEMS Warton Cherry Clough Consultants Elmac Services ERA Technology ETS-Lindgren Hurslev EMC Services METECC MIRA QinetiQ SGS Storm EMC Services TRaC **TÜV SÜD Product** Service York EMC Services **Training & Seminars: EMC, LVD & Product** Safety Cherry Clough Consultants ERA Technology METECC SGS TRaC **TÜV SÜD Product** Service York EMC Services **Training-Explosive** Atmospheres TRaC **TÜV SÜD Product** Service **Training-LVD** Cherry Clough Consultants ERA Technology TRaC **TÜV SÜD Product** Service York EMC Services **Training-Medical Devices** Cherry Clough Consultants Hursley EMC Services METECC **TÜV SÜD Product** Services **Training-Product** Liability Cherry Clough Consultants Hursley EMC Services

TÜV SÜD Product Service **Training-Product Safety** *AR UK* Cherry Clough Consultants ERA Technology TÜV SÜD Product Service York EMC Services

Transformers

Ethernet Dexter Magnetic Technologies Europe Wurth Electronics UK **High Voltage Pulse** Alrad Instruments PPM **TDK Electronics Europe** Isolation PPM **TDK Electronics Europe** Wurth Electronics UK LAN Dexter Magnetic Technologies Europe Wurth Electronics UK **LF-Audio** Murata Electronics Wurth Electronics UK Low Voltage Pulse Dexter Magnetic Technologies Europe Murata Electronics **TDK Electronics Europe SMPS** Murata Electronics **TDK Electronics Europe** Wurth Electronics UK

Transient Arresters/ Suppressers

AEF Solutions DEM Manufacturing ETS-Lindgren Globec (UK) Hypertac MPE Oxley Developments

Turntables

AR UK ETS-Lindgren MDL Technologies Panashield (UK) Rainford EMC Systems I. Thomas

Vents

Chomerics HITEK Electronic Materials Kemtron Laird Technologies P & P Technology I. Thomas Honeycomb Shielded Panels Global EMC Kemtron P & P Technology Rainford EMC Systems

Videos

RF Hardened Camera Systems Rainford EMC Systems

WEEE Directive

ERA Technology

Wireless LAN & Bluetooth® Components

Bluetooth Modules Laird Technologies Murata Electronics **Chip Antenna** Laird Technologies Murata Electronics Wurth Electronics UK Chip Baluns Murata Electronics Wurth Electronics UK **Chip Band Pass Filters** Murata Electronics Wurth Electronics UK **Chip Low Pass Filters** Murata Electronics Wurth Electronics UK

Wireless Testing

ETS-Lindgren TRaC TÜV SÜD Product Service

EMC & Compliance Companies

3C Test Ltd

Silverstone Technology Park Silverstone Circuit, Northants NN12 8GX Tel: +44 (0)1327 857500 Email: sales@3ctest.co.uk Web: www.3ctest.co.uk



test limited

3C Test is a UKAS accredited EMC Test facility based at Silverstone Circuit in Northamptonshire, providing test facilities for commercial, IT, military, medical and automotive EMC testing.

Approved by UKAS, FCC, VCCI, Industry Canada and Ford. 3C Test is appointed as a VCA Technical Service for the e marking of automotive sub-assemblies & full vehicles. The custom built Silverstone site houses 4 Semi-anechoic chambers, including a CISPR 16 / ANSI C63.4 compliant 10m chamber, a 3m CISPR 16 / ANSI C63.4 chamber and two CISPR 25 / ISO 11452 chambers. The facility also boasts a general-purpose screened room, four dedicated automotive transient (ISO 7637) laboratories and a high voltage mains immunity/ESD laboratory.

ACB (American Certification Body) Europe 2 Green Park Close, Winchester Hants SO23 7HG Tel: +44 (0)7939 880829 Email: sales.eu@acbcert.com Web: www.acbcert.com



ACB is a TCB for the FCC, CB for Industry Canada, RCB for Japan and a Notified Body for the R&TTE and EMC Directives, providing certification services for test labs and equipment manufacturers. A global company with a large department of experienced engineers, we offer a high quality service dealing with state of the art products, quickly and efficiently. We offer Certification for Energy Star and a range of International Approvals compliance services.

We provide training courses and material on radio testing and

certification for industry groups or bespoke to suit your needs.

A.C. Technology Systems Ltd Hill House, Portuan Road West Looe, Cornwall PL13 2DN Tel: +44 (0)1285 657756 Fax: +44 (0)1285 652362 Email: info@actechsystems.co.uk Web: www.actechsystems.co.uk



A.C. Technology Systems Ltd specialises in the design, development and supply of modules and systems associated with the protection of equipment and structures from the effects of both radiated and conducted electromagnetic interference.

Advanced Monolythic Ceramics Whispers, Station Approach Four Marks, Hants GU34 5HN Tel: +44 (0)1420 561496 Fax: +44 (0)1420 561496 Email: mpye@johansondielectrics.com Web: www.amccaps.com



AMC, an ISO 9001 and MIL approved company, manufacture ceramic EMI Filters including Planar arrays, discoidals, feedthroughs and stacked Switch-Mode capacitors. We offer maximum flexibility, high quality products and application specific solutions.

AEF Solutions A division of Esprit Electronics Ltd Unit 46 Thomas Way Lakesview International Business Park, Hersden Canterbury, Kent CT3 4JJ Tel: +44 (0)1227 711455 Fax: +44 (0)23 8045 5022 Email: paull@aefsolutions.com Web: www.aefsolutions.com



AEF Solutions provide Electronic Filters for EMC, EMI, RFI, ESD and

Transient Voltage Suppression (TVS) including lightning protection. For commercial or military applications, these products can be provided within standard connector shells or in the form of discreet modules. **Distributors:**

Esprit Electronics Germany - EMCA Italy - SPEC TEC Scandinavia - Expando Spain - S.C.P. USA - Accorde Distribution

Member of emcia

Aerco Limited

Unit 16/17 Lawson Hunt Ind. Est. Broadbridge Heath, Horsham West Sussex RH12 3JR Tel: +44 (0)1403 260206 Fax: +44 (0)1403 259760 Email: sales@aerco.co.uk Web: www.aerco.co.uk



Aerco is a leading global stockist and distributor of electrical components, supplying manufacturers and service companies in the aerospace, military, medical, transportation and industrial markets with products such as filters, electrical switches and electrical connectors.

Agilent Technologies UK Ltd 610 Wharfedale Road IQ Winnersh, Wokingham Berks RG41 5TP Tel: +44 (0)118 927 6201 Fax: +44 (0)118 927 6855 Email: contactcenter_uk@agilent.com Web: www.agilent.com



Agilent Technologies provides signal analysis for EMI pre-compliance and compliance testing. If you are creating new labs or enhancing existing facilities, Agilent solution partners can provide turnkey solutions - including equipment, accessories, training, installation and support - all through a single point of contact.

The new MXE EMI receiver is not only CISPR-compliant, but exceeds

regulatory requirements. The builtin EMC measurement application provides multiple signal traces, measurement list manipulation, real time detectors, and a strip-chart display to evaluate signal trends over time. The MXE is also an X-Series signal analyzer, enabling closer examination of signal details with tools such as span zoom, zone span and spectrogram displays so EMI test engineers and consultants can deliver new insights about the products they test.

The identical EMC measurement application is also available for any X-Series signal analyzer, enabling quick informative EMI precompliance measurements during product development.

Alrad Instruments Ltd Turnpike Road Industrial Estate Newbury, Berks RG14 2NS Tel: +44 (0)1635 30345 Fax: +44 (0)1635 32630 Email: electronics@alrad.co.uk Web: www.alrad.co.uk



ALRAD ELECTRONICS is one of the UK's foremost high voltage product distributors. We sell a very wide range of high stability, low ripple high voltage power supplies, high stability current monitors offering high accuracy of +1%, -0% and fast rise time and variable pulse width industrial pulse generators. API Technologies c/o Spectrum Control GmbH Hansastrasse 6 D-91126 Schwabach, Germany Tel: +49 9122 795 0 Fax: +49 9122 795 58 Email: heiko.zimmermann@apitech.com Web: www.apitech.com





API Technologies Corp. (NASDAQ: ATNY) is a leading technology provider of RF/microwave, microelectronics, and security technologies for critical and highreliability applications, including aerospace, defense, industrial, medical, energy, and communications. The company's international customers include leading Fortune 500 firms, as well as the governments of the U.S., Canada, the United Kingdom, NATO and the European Union.

UK Distributors:

Midas Components Richardson Electronics TTI

Applied Coating Technologies Tipton Road, Tividale Oldbury, West Midlands B69 3HY Tel: +44 (0)121 557 5324 Fax: +44 (0)121 557 7064 Email: info@applicoat.com Web: www.applicoat.com



ACT specialises in the application of conductive coatings for EMI shielding. Coatings are applied by manual or robotic spraying techniques and include nickel, copper and silver loaded paints. ACT is accredited to ISO9001:2008.

AQL EMC Ltd 16 Cobham Road, Ferndown Industrial Estate, Wimborne, Dorset BH21 7PG Tel: +44 (0)1202 861175 Fax: +44 (0)1202 861176 Email: info@aqlemc.co.uk Web: www.aqlemc.co.uk



UKAS Accredited Test House for Defence (7 test chambers), Aerospace & Marine sectors. RS103 to 40GHz, RS105, EMP, HIRF, HERO, Reverb/Mode Stirred Chamber & Lightning. Power Quality On-site and Mobile DC- 850Hz@40kVA. Portable HIRF up to 25kV/m. Design, Consultancy & Rectification provided during tests. Worldwide Off site testing. The complete EMC Test Service.

AR UK

Unit 8, Madingley Court Chippenham Drive, Kingston Milton Keynes, Bucks MK10 0AE Tel: +44 (0)1908 282766 Fax: +44 (0)1908 288249 Email: arukinfo@arworld.us Web: www.arukltd.co.uk



AR UK Ltd specialise in the supply of test instrumentation and turnkey systems for RF & Microwave, EMC, Electrical Safety (LVD), and Power Electronics applications.

Our diverse range of products combined with our experience and technical competence means we are able to provide our customers with a total system solution.

We offer full UK based technical support, installation, service and training.

See Advertisement Page 5 Member of **emcia**

AR Europe National Technology Park Limerick, Ireland Tel: +353 61 504300 Email: info@ar-europe.ie Web: www.ar-europe.ie



At AR Europe, we are not just a distribution network, we are a system and solutions provider. AR Europe supplies a variety of test equipment and systems for RF and EMC testing, electrical safety, power electronics, test and measurement and RF shielding applications. See Advertisement Page 5

AVX

Prospect House 6 Archipelago Park, Lyon Way Frimley, Surrey GU16 7ER Tel: +44 (0)1276 697000 Fax: +44 (0)1276 697001 Email: callie.baldwin@avx.com Web: www.avx.com



AVX is a leader in passive and interconnect technology. Product offerings include ceramic and tantalum capacitors, connectors, thick and thin film capacitors, resistors and integrated passive components. It offers many products tailored for EMC applications. **Distributors UK:** ACTE Components Advanced Power Components Anglia Arrow Electronics Avnet Abacus **BFi OPTILAS** Digi-Key Corporation Distributed Micro Technology Farnell Flint Distribution Future Electronics Micromark Mouser Electronics Northcott Electronics RS Components Rutronik TTI

BAE SYSTEMS W391, Warton, Preston, Lancs PR4 1AX Tel: +44 (0)1772 855568 Fax: +44 (0)1772 855262 Email: damian.austin@baesystems.com Web: www.baesystems.com

BAE SYSTEMS

BAE Systems, Engineering Integrated Solutions provide an Electromagnetics Design, Test, Certification & Consultancy services from equipment level to full platform across both military and civilian products. With over 50 years in the EM market our capabilities provide support to all phases of a products lifecycle from Feasibility through design and production and into in service support.

BAE SYSTEMS Faraday Test Centre, Airport Works, Rochester, Kent ME1 2XX Tel: +44 (0)1634 204457 Fax: +44 (0)1634 203647 Email: paul.j.davison@baesystems.com Web: www.baesystems.com/faradaytest centre



The Faraday Test Centre offers a wide range of UKAS accredited EMC and Environmental test facilities all housed in one modern building at BAE SYSTEMS, Rochester, Kent. The experienced staff can help you through your commercial or military test programmes from generation of test procedures through development to full certification testing.

Barton Engineering & Export Ltd Pressmetal House St Augustine's Business Park Estuary Close, Whitstable Kent CT5 2QJ Tel: +44 (0)1227 793796 Fax: +44 (0)1227 793464 Email: info@bartoneng.co.uk Web: www.bartoneng.co.uk





Manufacturers of shielded enclosures, data protection rooms and secure environmental rooms. Also manufacturers of the Barton range of EMC and High Attenuation server racks. 19" standard, 12 units to 42 units, tested to SDIP29.

C. Brandauer & Co Ltd 235 Bridge Street West Birmingham B19 2YU Tel: +44 (0)121 359 2822 Fax: +44 (0)121 359 2836 Email: crozier@brandauer.co.uk Web: www.brandauer.co.uk



Brandauer have a world-class reputation for precision stamping and offer EMC Shielding services including manufacture of finger strips, screening cans, connector gaskets and earthing clips to meet various shielding applications.

Cabletec ICS Ltd Sunnyside Road Weston Super Mare, Somerset BS23 3PZ Tel: +44 (0)1934 424900 Fax: +44 (0)1934 636632 Email: sales@cabletec.com Web: www.cabletec.com



Cabletec is a leading manufacturer of high performance metal braided screening products including EMC screening braids for effective screening of wire assemblies, market approved earth bonding leads and EMC over-braiding of conduit and cables. Cherry Clough Consultants Ltd 9 Bracken View, Brocton Stafford, ST17 0TF Tel: +44 (0)1785 660247 Fax: +44 (0)1785 660247 Email: keith.armstrong@cherryclough.com Web: www.cherryclough.com



Proven techniques save time and money and reduce financial risks, whilst achieving EMC compliance for products, systems, and installations. Pragmatic approach to Self-Certification and Technical Construction Files. Sensible QA procedures and low-cost testing to maintain compliance in production. EMC design reviews.

Member of **emcla**

Chomerics Division Parker Hannifin Ltd Unit 6, Century Point Halifax Road, High Wycombe Bucks HP12 3SL Tel: +44 (0)1494 455400 Fax: +44 (0)1494 455466 Email: chomerics_europe@parker.com Web: www.chomerics.com



Chomerics is a global leader in EMI shielding materials and thermal interface materials. Our comprehensive range of EMI shielding products will guarantee the most cost effective solution without compromising performance, reliability, and quality.

Distributors:

European EMC Products Hitek Electronic Materials Austria/Germany - ES Electronic Service Czech Republic - Transtech Denmark - Toptronic Finland - OEM Electronics OY France - CLI France - Scamtech Germany - EMV Electronic

Service Greece - Hagalec Ireland - Brennan & Co Israel - ELIMEC Italy - Forind Avio Elettronica Netherlands - EEMC Coimex Norway - Otto Olsen Poland - Astat Spain - IMCD Switzerland - CL Electronics Switzerland - CL Electronics Switzerland - Sibalco Turkey - Kapman Ukraine - Progressive Technologies

Member of emcia

Cove Industrial Enterprises Ltd Industries House 18 Invincible Road Farnborough, Hants GU14 7QU Tel: +44 (0)1252 512919 Fax: +44 (0)1252 543384 Email: miles.adams@cove-industries.co.uk Web: www.cove-industries.co.uk



Cove is a specialist in the supply of high quality EMC compliant ruggedized sheet metal enclosure and electronic assembly services to Tempest specifications. With full in house manufacturing from design help through to a finished product. Cove is truly a 'one-stop-shop' for Military, Aerospace and Commercial electronic markets.

Cranage EMC & Safety Stable Court, Oakley, Market Drayton, Shropshire TF9 4AG Tel: +44 (0)1630 658568 Fax: +44 (0)1630 658921 Email: info@cranage.co.uk Web: www.cranage.co.uk



Cranage is focussed on providing low cost, fast turnaround product testing service for our customers.

- EMC & Radio Testing
- CE & FCC MarkingSafety Testing
- Product QA Testing
- Environmental Testing
- Design-Compliance Consultants

CST - Computer Simulation Technology AG Bad Nauheimer Str. 19 Darmstadt 64289, Germany Tel: +49 6151 7303 0 Fax: +49 6151 7303 100 Email: info@cst.com Web: www.cst.com

CST UK Ltd: Strelley Hall, Main Street, Strelley Nottingham NG8 6PE Tel: +44 (0)115 9061 120 Fax: +44 (0)115 9061 115 Email: info@uk.est.com



CST develops and markets high performance software for the simulation of electromagnetic fields in all frequency bands. Its success is based on the implementation of leading edge technology in a userfriendly interface. CST's customers are market leaders in industries as diverse as Telecommunications, Defense, Automotive, Electronics, and Medical Equipment. Today CST employs 200 sales, development, and support personnel, and enjoys a leading position in the high frequency 3D EM simulation market.

CST STUDIO SUITE[™] provides powerful simulation technology ideally suited to EMC analysis, including coupled simulations which allow for large system analysis and installed performance studies. Many years of in house expertise support the tools and give customers confidence in simulation results.d of experimentation.

See Advertisement on Outside Back Cover

dB Technology (Cambridge) Ltd 23 Headington Drive Cambridge CB1 9HE Tel: +44 (0)1954 251974 Fax: +44 (0)1954 251907 Email: mail@dbtechnology.co.uk Web: www.dbtechnology.co.uk



EMC and R&TTE testing & consultancy services, working interactively with clients to provide cost effective solutions. 2 semianechoic chambers available for compliance testing as well as Open Area Test Site and GTEM.

Member of emcia

DEM Manufacturing Hargreaves Way Sawcliffe Industrial Park Scunthorpe, North Lincs DN15 8RF Tel: +44 (0)1724 273200 Fax: +44 (0)1724 280353 Email: sales@dem-uk.com Web: www.dem-uk.com



DEM Manufacturing are the U.K.'s leading manufacturer of EMI/RFI filters (branded Roxburgh EMC) manufacturing industrial style filters, single and three-phase from 1 Amp to 1000 Amp, and costeffective custom solutions, to leading manufacturers within the OEM industrial markets. Also in the range are equipment style filters, i.e. chassis, IEC and PCB mounted. DEM also have a range of Power Quality Products, including Harmonic Filters, Sine Wave Filters and Line/Load Reactors, supported with on site testing/evaluation.



Deutsch / TE Connectivity Stanier Road St Leonards on Sea, East Sussex TN38 9RF Tel: +44 (0)1424 852721 Fax: +44 (0)1424 851726 Email: sales@deutsch.net Web: www.deutsch.net



TE / Deutsch filter connectors are specifically design to meet the demands of harsh environments. 'EMI Filter' connectors, 'EMP Transient Suppression' connectors and 'Overcurrent Protection' connectors are designed and manufactured to meet either standard or customer specific requirements from our operations site in the UK.

Dexter Magnetic Technologies Europe Ltd Unit 12 Tavistock Industrial Est. Ruscombe Park, Twyford, Berks RG10 9NJ Tel: +44 (0)1189 602430 Fax: +44 (0)1189 602431 Email: info@dextermag.com Web: www.dextermag.com



Dexter Magnetic Technologies Europe Ltd is a specialised Global Electronic Component distributor in ferrite core solutions for current and evolving types of EMC and power applications.

The group has a long and well established relationship with the Fair-Rite Products Corp, USA organisation a leading innovator and manufacturer of quality engineered ferrite products for the most demanding applications.

Fair-Rite Products Corp, offers a very comprehensive lien up of ferrite components in a wide range of materials and geometries for EMI Suppression, Power Applications and RFID Antennas.

The Dexter group carries a market leading range of products readily available from our UK operations and NA warehouse facility, giving you immediate access to a very wide range of material grades suitable for your application needs.

Dexter's dedicated and focused business is well aligned to support your future demand for Ferrite component solutions working with technology leaders including, Fair-Rite Products Corp, TDK-EPC Corporation, Magnetics Inc, Ferronics Inc & Toshiba-Japan. We welcome the opportunity of being your preferred partner. DM Systems & Test Ltd Icon House, 3 Iceni Court Icknield Way Letchworth Garden City Herts SG6 1TN Tel: +44 (0)1462 650620 Fax: +44 (0)1462 650622 Email: info@dplusm.co.uk Web: www.dplusm.co.uk



Cost effective supply and support for a wide range of EMC and TEMPEST Test Equipment. Our product range includes: Power Amplifiers, Antennas, Pulse Generators, Fibre Optic Communications, LISN's, LVD Test Equipment. The Best One Stop Shop.

Electromagnetic Testing Services Limited

Pratts Fields, Lubberhedges Lane, Stebbing, Dunmow, Essex CM6 3BT Tel: +44 (0)1371 856061 Fax: +44 (0)1371 856144 Email: info@etsemc.co.uk Web: www.etsemc.co.uk



ETS is a test facility providing EMC testing to European and International standards. We are:

- UKAS Accredited No. 4416.
- Accredited by the FCC enabling us to provide testing for products destined for the US market.
- Registered under the Rail Industry Supplier Qualification and Registration Scheme.
 Authorised by RTCA.

ETS is a test facility providing EMC testing to European and International standards covering heavy industrial, light industrial, military and railway testing.

Member of **emcia**

Electronic Test & Calibration Ltd Caddsdown Industrial Park Clovelly Road, Bideford, Devon EX39 3DX Tel: +44 (0)1237 423388 Fax: +44 (0)1237 423434 Email: info@etcal.co.uk Web: www.etcal.co.uk



Electronic Test & Calibration Ltd

EMC Testing - UKAS Accredited

- Automotive EMC Testing
- Military EMC Testing
- Industrial & Domestic EMC Testing
- Facilities Reverberation Chamber (Field Strength

typically 200V/m), Anechoic Chambers, OATS

Calibration - UKAS Accredited

- Antenna Calibration Bilog, Biconical, Ridged Horn and Log-Periodic Dipole Arrays.
- EMC & RF Test Equipment Calibration up to 40 GHz.

Elmac Services

Gorseacres, Puddletown Road Wareham, Dorset BH20 6AE Tel: +44 (0)1929 558279 Email: timw@elmac.co.uk Web: www.elmac.co.uk



Consultancy and training for EMC: design reviews and guidance, test methods and principles, management aspects and compliance advice. Commercial, transport, medical, industrial and other sectors. Everything EMCrelated, also EMF surveys and expert witness work.

Member of emcla

EM Test (Switzerland) GmbH Sternenhofstrasse 15 CH-4153 Reinach BL Switzerland Tel: +41 61 717 91 91 Fax: +41 61 717 91 99 Email: sales@emtest.ch Web: www.emtest.com

∧ emtest

EM TEST is the leading manufacturer of high-class, fullcompliance EMC test and measurement equipment for the electronics industry in the automotive, telecom, medical, industrial electronics, avionics and military branches. **Distributor UK:**

JISTIDUTOI UIX.	
Frequensys Ltd	

EMC Centre (Paisley) Ltd Block L Unit 7D, Westway Porterfield Road, Renfrew Scotland PA4 8DJ Tel: +44 (0)141 886 7300 Email: emc-centre@btconnect.com

The EMC Centre (Paisley) Limited

The EMC Centre (Paisley) Ltd. was established in 1989 at the University of Paisley and supported a wide variety of clients with consultancy services and EMC testing. The EMC Centre is now a 'spin-out' company with improved test and measurement facilities in support of EMC investigations and consultancy. Our Laboratory at Westway in Renfrew is comprehensively equipped with a 10m Open Area Test Site, a $3.6m \times 4.4m \times 2.4m$ Shielded Enclosure, 7m x $4.5m \times 4.2m$ fully anechoic Shielded Enclosure, and a GTEM cell.

Member of emcia

EMC Hire Ltd Unit 1 Ivel Road, Shefford, Beds SG17 5JU Tel: +44 (0)1462 817111 Fax: +44 (0)1462 819564 Email: info@emchire.co.uk Web: www.emchire.co.uk



Small but well established company specialising in a vast range of individual EMC items for rental and bespoke systems, automated under software control using configured laptops ready to run.

Engineers can also accompany the hire, set up systems and advise on the testing method.

Comprehensive website providing full technical details.

EMC Partner UK Ltd 1A Golf Link Villas The Common, Downley High Wycombe, Bucks HP13 5YH Tel: +44 (0)1494 444255 Fax: +44 (0)1494 444277 Email: sales@emcpartner.co.uk Web: www.emcpartner.co.uk



We are the authorised UK representative for: EMC Partner AG, AFJ International s.r.l., Frankonia GmbH, Lüthi Elektronik Feinmechanic AG, OPHIR_{RF} Inc and Schwarzbeck Mess Elektronik.

Geared to your compliance. Our compliant product range includes: Transient & Harmonics Test Systems; EMI Receivers; Click Analysers; Injection Clamps; Modular Impulse Generators; Antennas; Amplifiers; Anechoic Chambers; Meters; Probes; Shielded Cameras. Applications include: Commercial, Industrial, Telecom, Aerospace (DO-160), Military (MIL 461E) and Automotive EMC Test Facility. UKAS Calibration Services. Cost effective supply and support for a wide range of EMC test equipment.

Member of **emcla**

ERA Technology Ltd Cleeve Road, Leatherhead, Surrey KT22 7SA Tel: +44 (0)1372 367434 Fax: +44 (0)1372 367072 Email: linda.lundberg@era.co.uk Web: www.era.co.uk



We provide EMC consultancy, Management and Control Plans, EMC modelling and design analysis, in-situ measurements and investigations and non-ionising radiation hazards assessments for the EMFs Directive. We deliver industry-leading EMC solutions to projects of all sizes in the building/ construction, transport, communications, aerospace, defence, manufacturing, medical and energy industry sectors. ERA is a UK Government appointed EMC Notified Body.

ETS-Lindgren Ltd Unit 4, Eastman Way Pin Green Industrial Area Stevenage, Herts SG1 4SZ Tel: +44 (0)1438 730700 Fax: +44 (0)1438 730750 Email: info@ets-lindgren.com Web: www.ets-lindgren.com

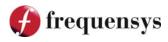
ETS-Lindgren Euroshield OY Mekaanikontie 1, FI-27510 Eura, Finland Tel: +358 2 8383 300 Fax: +358 2 8651 233 Email: info@ets-lindgren.eu.com Web: www.ets-lindgren.com



ETS-Lindgren is renowned worldwide for EMC, RFI and EMI applications. Our UK division based in Stevenage, produces a comprehensive range of shielded enclosures, anechoic chambers, filters for Industrial, Government, Defence & Medical applications.

Member of **emcla**

Frequensys Ltd Northern Office: 51 Harley Road, Sheffield S11 9SE Southern Office: Millennium Studios Bedford Technology Park Thurleigh, Bedford MK44 2YP Tel: +44 (0)1142 353507 Mobile: +44 (0)1785 956506 Fax: +44 (0)1234 780133 Email: info@frequensys.co.uk Web: www.frequensys.co.uk



Frequensys aim to be your partner for procurement of EMC and RF/ Microwave test solutions. We represent worldwide leaders in the EMC Industry including EM Test (Transients, ESD, Harmonics & Flicker, Surge, Conducted Immunity test systems etc), Siepel (Anechoic Material, Anechoic and Screened Chambers), DARE (Field Probes, Automated EMC Test systems) and Prana (RF and Microwave Power Amplifiers). We also provide accessories such as CDN's, Current and BCI probes, cables and attenuators.

With over 20 years of expertise and experience in the EMC Industry we are able to provide individual test equipments as well as full test solutions.

Global EMC UK Ltd

Prospect Close, Lowmoor Road Industrial Estate, Kirkby-in-Ashfield, Notts NG17 7LF Tel: +44 (0)1623 755539 Fax: +44 (0)1623 755719 Email: info@global-emc.co.uk Web: www.globalemc.co.uk



Global EMC are specialists in high quality electromagnetic absorbers and anechoic chambers and are leaders in fully anechoic chambers. Global EMC offer solutions for all types of radiated EMC and Microwave test chambers. Global EMC offer all types of RF, 50Hz and DC shielding. Globec (UK) Ltd Unit 15 Shrivenham Hundred Business Park, Watchfield, Oxon SN6 8TZ Tel: +44 (0)1793 780790 Fax: +44 (0)1793 780776 Email: info@globec.co.uk Web: www.globec.co.uk



ISO9001:2008 approved technical agent and stockist of EMC & RF Filtering and Suppression Components supplying to OEM's of the UK and Ireland. Brands include : CTS-Tusonix, Nextek, CTS (USA), Deltron (Switzerland) Meisongbei (China), and Suntan Technology (Hong Kong).

Distributors:

Farnell Electronic Components Rapid Electronics

Haefely Test AG EMC Division Birsstrasse 300 CH-4052 Basel, Switzerland Tel: +41 61 373 4226 Fax: +41 61 373 4912 Email: emc-sales@haefely.com Web: www.haefelyemc.com



Haefely Test AG is a leading manufacturer of conducted immunity EMC test equipment, designed to fulfil the testing requirements of many international standards including IEC/EN, ANSI, UL, ITU, Telcordia. We offer a variety of stand alone, compact, and modular systems, for ESD, EFT/ Burst, Surge, component testing, magnetic field, insulation and safety testing, CE Marking, Dips and Interrupts, and many more.

HITEK Electronic Materials Ltd 15 Wentworth Road, South Park Industrial Estate, Scunthorpe, North Lincs DN17 2AX Tel: +44 (0)1724 851678 Fax: +44 (0)1724 280586 Email: sales@hitek-ltd.co.uk Web: www.hitek-ltd.co.uk



HITEK Electronic Materials Ltd is the distributor for Chomerics, Emerson & Cuming Microwave Materials, Tecan, Technical Textiles and Emerson & Cuming Polymers. Able to fabricate all materials to customers exact needs, and provide full technical support.



HTT UK Ltd

Unit 6 Northend Industrial Estate Bury Mead Road, Hitchin, Herts SG5 1RT Tel: +44 (0)1462 486866/680750 Fax: +44 (0)1462 486054 Email: sales@httuk.co.uk Web: www.httuk.co.uk



As the UK representative of Haefely EMC, HTT is in a position to offer a complete range of systems for tests according to Civil & Military standards.

Member of emcia

Hursley EMC Services Ltd Trafalgar House, Trafalgar Close Chandlers Ford, Eastleigh Hants SO53 4BW Tel: +44 (0)23 80 271111 Fax: +44 (0)23 80 271144 Email: sales@hursley-emc.co.uk Web: www.hursley-emc.co.uk



Hursley EMC Services is an independent accredited EMC test laboratory. We are UKAS accredited for most commercial and military standards and are FCC, C-tick, KCC & VCCI listed. In addition we are the only independent European BSMI accredited EMC laboratory for Taiwan certification.

Having just moved to new 10,000 square foot purpose built premises, we now have more capacity and state of the art facilities. Our laboratories include two CISPR16 chambers with 3 & 5m measuring points in Chandlers Ford (Southampton) and at Hursley Park (Winchester) a 3, 10 & 30m indoor OATS. This enables us to deliver a fast, competitive and personal service to our customers. **See Advertisement on Inside back Cover**

Hypertac Ltd 36-38 Waterloo Road London NW2 7UH Tel: +44 (0)20 8450 8033 Fax: +44 (0)20 8452 5142 Email: info@hypetac.co.uk Web: www.hypertac.com



Hypertac combines the superior Hyperboloid socket contact with EMI Filter and Transient Protection Technologies offering unrivalled filtered connector performance for harsh environment applications. A wide variety of cost effective and high performance technologies are available within circular and rectangular connectors for applications including HERF, Direct Lightning Strike and EMP environments.

Instrument Plastics Ltd 35 Kings Grove Industrial Estate Maidenhead, Berks SL6 4DP Tel: +44 (0)1628 770018 Fax: +44 (0)1628 773299 Email: sales@instrumentplastics.co.uk Web: www.instrumentplastics.co.uk



Instrument Plastics Ltd specialises in the manufacture and supply of quality custom made EMC/RFI shielded and contrast enhancement filter windows & panels for electronic displays. Reliable and prompt friendly service assured. ISO Approved. Visit our Web Site for product range.

ITT Interconnect Solutions Jays Close, Viables Industrial Est Basingstoke, Hants RG22 4BA Tel: +44 (0)1256 311200 Fax: +44 (0)1256 323356 Email: david.impett@itt.com Web: www.ittcannon.com



Engineered for life

ITT Interconnect Solutions is an international manufacturer and supplier of connectors including circular, rectangular, fiber optic, RF, power and high voltage, audio, PCMCIA, Compact Flash Card, enclosures, cable assemblies, and application specific custom solutions. The Interconnect Solutions portfolio includes the brands Cannon, VEAM, and BIW. Its products include connectors and interconnects for the military, aerospace, industrial, oil & gas, medical and transportation markets. **Distributors:**

> Arrow Catalogue Arrow Components Avnet Abacus Digikey Farnell PEI-Genesis RS Components

Ja-Bar Europe 28 Alesmore Meadow, Lichfield Staffs WS13 8FD, UK Tel: +44 (0)1543 254410 Email: jabar-peter@tiscali.co.uk Web: www.jabar.com

Ja-Bar Silicone Corporation Brighton Avenue, P O Box 1249 Andover, New Jersey 07821 USA Tel: +1 973 786 5000 Fax: +1 973 786 5546 Email: sales@ja-bar.com Web: www.jabar.com



Ja-Bar, established in 1965, specialise in the manufacture of silicone and elastomeric materials for electromagnetic shielding. Products include conductive silicones, wire oriented silicone, elastomer filled expanded metals, BeCu finger strip, shielding vents and windows.

Ja-Bar manufacture to Military, Federal, AMS, SAE and customer specifications. The Quality Control System is approved to MIL-I-45208.

KEC Limited

Orpheus House, Calleva Park Aldermaston, Reading, Berks RG7 8TA Tel: +44 (0)118 981 1571 Fax: +44 (0)118 981 1570 Email: sales@kec.co.uk Web: www.kec.co.uk



KEC specialises in the design and manufacture of EMC interconnect components and systems. It holds ISO 9001:2008, EN 9100P and ISO 14001:2004 approvals. SolidWorks, solid modelling techniques and specific cable harness design software are used to produce cable harness/assembly and component design solutions. The company manufactures connector backshells and bulkhead fittings that provide termination of overall and/or individual cable screens and environmental sealing. Plus Supertube EMC conduit systems with a range of fixed and flexible fittings. The full Provertha range of EMC "D" type backshells is available as well as a comprehensive range of "D" type M12 and Profibus connector systems. KEC operates a full interconnect supply and advisory service, offers deign advise and covers on-site and in-house work to interconnect project management level.

Kemtron Ltd 21 Finch Drive, Springwood Industrial Estate, Braintree, Essex CM7 2SF Tel: +44 (0)1376 348115 Fax: +44 (0)1376 345885 Email: info@kemtron.co.uk Web: www.kemtron.co.uk



The most comprehensive range of EMC Shielding Gaskets and components, including Ferrites, Knitted Wire Mesh, Conductive Elastomers, BeCu Strips, Conductive Fabric-clad Foam, Screened Windows, Vents, Cable Entry Glands, etc.

Member of **emcia**

Kiwa Blackwood Compliance Laboratories Unit 8 Woodfieldside Business Park, Pontllanfraith, Blackwood NP12 2DG Tel: +44 (0)1495 229219 Fax: +44 (0)1495 228331 Email: blackwoodenquiries@kiwa.co.uk Web: www.kiwa.co.uk



Kiwa Blackwood is your professional partner to help navigate the world of testing, compliance and audit.

We are UKAS accredited for EMC, Safety and EMF testing and offer a range of services to assist your business. We look to share the long term benefits of a close working relationship with you.

Member of emcia

Knitmesh Technologies Ltd Greenfield, Holywell, Flintshire North Wales CH8 9DP Tel: +44 (0)1352 717600 Fax: +44 (0)1352 714909 Email: sales@knitmeshtechnologies.com Web: www.knitmeshtechnologies.com



Innovative Mesh Solutions

Knitmesh Technologies specializes in the manufacture of knitted wire mesh gaskets and tapes. Offering the widest range of metallic materials available from stock in the industry, at very competitive prices and on short lead times, let us quote for your requirements.

Member of **emcia**

Laird Technologies GmbH Aeussere Oberaustrasse 22 D-83026 Rosenheim, Germany Tel: +49 (0) 8031 2460 0 Fax: +49 (0) 8031 2460 50 euroinfo@lairdtech.com www.lairdtech.com



Laird Technologies is a leading global designer/supplier of EMI shielding products, thermal interface materials, and ferrite products for inductive and EMI filtering applications, as well as wireless antenna solutions and complete RF modules and systems for advanced electronics applications across all market segments of the electronics industry.

Laplace Instruments Ltd Tudor House Grammar School Road North Walsham, Norfolk NR28 9JH Tel: +44 (0)1692 402070 Fax: +44 (0)1692 404910 email: tech@laplace.co.uk Web: www.laplace.co.uk



Laplace have become global suppliers of EMC test equipment. The range covers both emissions measurement and RF immunity testing. They specialise in a cost effective, pragmatic approach with several unique and powerful features resulting in reduced measurement uncertainties and compact, high performance test cells. Distributors:

> Australia - Power Parameters China - EMC Technology China - Emtoni Denmark - Metric France - CE Mesure Finland - Inel Germany - Emitec Holland - Accelonix Hong Kong - Corad Technology India - Scientific Mes-Technik Israel - Ultram Technologies Italy - TESEO Japan - Testram Korea - Emcis Malaysia - Eckinda Technology New Zealand - ElectroTest Russia - Deepcom Ltd Singapore - Eckinda Technology Spain - Enelec Sweden - Carpatec Switzerland - Emitec Taiwan - Chinatech Corp Taiwan - EMC Instruments Corp USA - 3M

Member of emcia

MBDA UK Ltd Six Hills Way, Stevenage Herts SG1 2DA Tel: +44 (0)1438 754477 Fax: +44 (0)1438 755198 Email: precision.solutions@mbdasystems.com Web: www.mbdaps.com



The MBDA UK EMC Department offers a comprehensive test, design, prediction and computational electromagnetics service covering a wide range of specifications for all industry sectors. The EMC Test Facility provides modern, worldclass, UKAS-accredited (LAB No. 0095) testing environments.

MDL Technologies Ltd Unit 11, Devonshire Business Centre, Works Road, Letchworth, Herts, SG6 1GJ Tel: +44 (0)1462 431981 Fax: +44 (0)560 315 2515 Email: sales@mdltcchnologies.co.uk Web: www.mdltechnologies.co.uk



MDL Technologies provides test solutions to the Power, EMC, RF, Video, Wireless and Electrical Safety markets within the UK and Ireland. Working with market leading manufacturers such as CHROMA ATE INC., EMSCAN, ETS-LINDGREN, HAMEG, MILMEGA, ROHDE & SCHWARZ and TOELLNER our services include system integration, consultancy, project management, installation and testing.

Mectronics Marine

7 Ware Close, Kingsteignton Newton Abbot, Devon TQ12 3DS Tel: +44 (0)1626 334453 Fax: +44 (0)1626 361761 Email: calibration@mectronics.co.uk Web: www.mectronics.co.uk

cetronics i

UKAS accredited to determine loop antenna calibration factors in accordance with IEEE-291 over the frequency range 5Hz - 30MHz using modern methodology. METECC **4** Chestnut Grove Hurstpierpoint, West Sussex **BN6 9SS** Tel: 07725 079956 Email: peter@metecc.eu Web: www.metecc.eu



Testing, Training and Consultancy for all your EMC and LVD conformity requirements.

METECC provide EMC testing in our anechoic chamber or at your site. Products ranging from domestic to military, automotive, R&TTE, medical

Personal service with competitive pricing.

Member of emcla

MILMEGA Ltd Park Road, Ryde Isle of Wight PO33 2BE Tel: +44 (0)1983 618004 Fax: +44 (0)1983 811521 Email: sales@milmega.co.uk Web: www.milmega.co.uk



a TESEQ Company

MILMEGA is a leading specialist in the design and manufacture of solid state, high-power RF and microwave amplifiers. MILMEGA has built a reputation for a flexible and dynamic approach to meet customer requirements.

The company's core strength lies in the development of broadband Class A amplifiers, typically operating in the 80MHz to 6GHz range with output powers from 15W to 1kW.

Member of **emcla**

MIRA Ltd

Watling Street, Nuneaton Warwickshire CV10 0TU Tel: +44 (0)24 7635 5556 Fax: +44 (0)24 7635 8556 Email: matthew.farmer@mira.co.uk Web: www.mira.co.uk



MIRA is a leading provider of EMC design, analysis, development and problem resolution for EMC. With a suite of 11 major EMC facilities capable of cost-effectively developing components through to commercial and military vehicles weighing up to 90 tonnes; MIRA provides a comprehensive service aimed at ensuring compliance, reliability and quality for our client's products.

MPE Limited Hammond Road, Knowsley Industrial Park, Liverpool, Merseyside L33 7UL Tel: +44 (0)151 632 9100 Fax: +44 (0)151 632 9112 Email: sales@mpe.co.uk Web: www.mpe.co.uk



MPE design & manufacture high performance EMC filters and capacitors suitable for use in high reliability applications such as military vehicles, defence, railways, IT & telecoms.

As an EMI/ EMP/ TEMPEST/ HEMP solutions supplier for over 80 years, MPE are the first choice for companies who require the most cost effective solution, quality product & technical support.

Member of **emcla**

MS Testing Maple Way **Aycliffe Industrial Estate** Newton Aycliffe, Co. Durham **DL5 6BF** Tel: +44 (0)1325 321366 Fax: +44 (0)1325 321369 Email: info@mstesting.co.uk Web: www.mstesting.co.uk



Industry Leading Facilities and Service

MS Testing is a leading independent UKAS accredited test facility that has a earned a reputation over 10 years for providing industry leading turnaround times, flexibility, knowledge and quality of service to our clients worldwide. We provide a comprehensive range of EMC testing, Marine Type Approval testing, Environmental and IP testing as well as an EMC and Marine consultancy services.

Murata Electronics Ltd **Oak House, Ancells Road** Ancells Business Park, Fleet Hampshire GU51 2QW Tel: +44 (0)1252 811666 Fax: +44 (0)1252 811777 Email: enquiry@murata.co.uk Web: www.murata.eu



"New high quality electronic equipment begins with new high quality components, and new high quality components begin with new high quality materials." This has been Murata's basic principle since its foundation. When new features are in demand, Murata always go back to the very basics of searching for the most appropriate material. This philosophy has enabled Murata to develop numerous unique products.

Distributors:

Anglia Arrow Electronics Avnet Abacus Farnell Future Electronics **RS** Components TTI Incorporated

National Physical Laboratory Hampton Road Teddington, TW11 0LW Tel: +44 (0)20 8943 6796

Email: rf_enquireies@npl.co.uk Web: www.npl.co.uk/commercialservices/measurement-services/dc-lf/ or

www.npl.co.uk/commercial-services/ measurement-services/rf-microwavefree-field/



Calibration of EMC antennas and field probes 20 Hz to 110 GHz. Antenna factor or gain to uncertainties as low as ±0.35 dB (k=2). Reflection coefficient, crosspolar performance and balun imbalance. Calibration of mains harmonic analysers and flickermeters.

Optical Filters Ltd Units 7, 13 & 14 Thame Park **Business Centre, Wenman Road** Thame, Oxon OX9 3XA Tel: +44 (0)1844 260377 Fax: +44 (0)1844 260355 Email: information@opticalfilters.co.uk Web: www.opticalfilters.co.uk



A leader in the design and manufacture of EMI shielding windows for displays, touch screens, rooms and enclosures. Our capability and technology spans all optical RFI shielding solutions including traditional wire mesh and EmiClare mesh, micro-replicated MicroMesh and LaserMesh plus EMI-ito conductive coatings in both glass and plastic.

Oxley Developments Co Ltd Priory Park, Ulverston Cumbria LA12 9QG Tel: +44 (0)1229 840523 Fax: +44 (0)1229 870451 Email: sales@oxleygroup.com Web: www.oxleygroup.com



Oxley offers a comprehensive range of EMI suppression products, including filters (discrete and multiline), ceramic planar capacitor arrays, arrays of discrete filters and custom filter modules. With over seventy years' experience in designing and manufacturing the latest solutions, Oxley are the right people to talk to - whatever your EMI requirements.

Member of emcla

P & P Technology **Finch Drive Springwood Industrial Estate** Braintree, Essex CM7 2SF Tel: +44 (0)1376 550525 Fax: +44 (0)1376 552389 Email: info@p-p-t.co.uk Web: www.p-p-t.co.uk



Specialist manufacturers of EMI shielding products, P & P Technology's comprehensive and customisable range includes windows, vents, gaskets, materials & adhesives. Delivering a fast professional response to customers' shielding problems, our experienced engineers are happy to provide advice throughout the design, prototype & production phases to ensure full compliance. **Distributor:**

Aerco Ltd Bovill & Boyd Panashield (UK Ltd The Bothy 38 Smarts Heath Road, Woking Surrey, GU22 0NP Tel: +44 (0)1483 722020 Fax: +44 (0)1483 770330 Email: sales@panashield.co.uk Web: www.panashield.co.uk



Leading supplier of Shielded Rooms and Anechoic EMC Test Chambers. Starting with the Compact (CAC) and increasing in size for full compliance 3m and 10m testing. Sliding or swinging doors available. Ferrite, pyramidal and state of the art non-flammable, white hybrid absorber available for new chambers and upgrades.

For overseas agents contact the Panashield sales office.

Pentair Equipment Protection Schroff UK Ltd Unit 4 Grovelands Business Centre Boundary Way, Hemel Hempstead Herts HP2 7TE Tel: +44 (0)1442 240471 Fax: +44 (0)1442 213508 Email: keith.reynolds@pentair.com Web: www.schroff.co.uk



Pentair Equipment Protection is a leading provider of worldwide product and service solutions for enclosing, protecting and cooling electrical and electronic systems. Its industry-leading brands - Hoffman, Schroff, McLean - provide a broad variety of standard, modified and engineered solutions to the commercial, communications, energy, general electronics, industrial, infrastructure, medical and security and defense markets.

Perancea Ltd

Unit 36, Silicon Business Centre 28 Wadsworth Road, Perivale Greenford, UB6 7JZ Tel: +44 (0)20 8365 2520 Fax: +44 (0)20 8566 7217 Email: sales@perancea.com Web: www.perancea.com



Perancea's screening enclosures offer economic, efficient, specific board level shielding. PC mounting, open frame and closed can styles in stock sizes or customer designs. Send for full data sheet including advice of custom options. **Distributors:**

Farnell InOne

PPM Pulse Power and Measurement Ltd 65 Shrivenham Hundred Business Park, Watchfield Swindon, Wilts SN6 8TY Tel: +44 (0)1793 784391 Fax: +44 (0)1793 784391 Email: sales@ppm.co.uk Web: ww.ppm.co.uk



PPM designs and manufactures fibre optic systems and distributes power conversion equipment and components. Formed in 1994, the company specialises in measurement systems for the EMC test market, requiring high levels of shielding and quality.

Member of emcia

Q-Par Angus Ltd Barons Cross Laboratories Leominster, Herefordshire HR6 8RS Tel: +44 (0)1568 612138 Fax: +44 (0)1568 616373 Email: sales@q-par.com Web: www.q-par.com

Q-par Angus Ltd

Consultancy, design and manufacture of microwave and RF systems, 1MHz to 100GHz and above. Broadband components including high efficiency and focused horn antennas for EMC use. Turnkey HIRF antenna system. Multi-axis antenna position-ers, attenuators, filters, phase shifters etc. Customer specification if required. ISO9001 accredited.

QinetiQ

Cody Technology Park, Ively Road, Farnborough, Hants GU14 0LX Tel: +44 (0)1252 394133 email: emcfocus@qinetiq.com Web: www.qinetiq.com/emc



OinetiO provides a wide range of EMC and environmental test and consultancy including design support, pre-compliance advice, HIRF, TEMPEST and training services. Our extensive UKAS facilities cover the full frequency range required by today's stringent standards with field strengths to match. Whether you need to EMC or environmentally test components, equipment, land vehicles or aircraft, QinetiQ has the capabilities, and our comprehensive range of facilities ensures responsive scheduling to meet your programme needs.

Radius Power UK Representative: Wavelength Electronics Ltd Kent Innovation Centre Thanet Reach Business Park Broadstairs, Kent CT10 2QQ Tel: +44 (0)1843 609380 Fax: +44 (0)1843 609384 Email: sales@wavelengthelectronics.co.uk Web: www.wavelengthelectronics.co.uk



Radius Power is a global manufacturer of a complete range of EMI filters for single phase, three phase and DC applications. Their EMI filters are designed to meet the specific requirements of each market segment including telecommunications, industrial, inverter, medical, automotive, military and avionic equipment. In addition to all of the industry standard parts featured in the Radius Power catalogue they can test, design and manufacture EMI filters for custom requirements.

Rainford EMC Systems Ltd Lakeside Court, Haydock Lane Haydock, St Helens, WA11 9UY Tel: +44 (0)1942 296190 Fax: +44 (0)1942 275202 Email: sales@rainfordemc.com Web: www.rainfordemc.com



Rainford EMC Systems designs, manufactures, installs and tests EMC, EMP and Tempest shielded chambers. Products include the Smartshield range of EMC Screened Rooms, Anechoic Chambers and an EMC Testing Service.

Richard Marshall Ltd The Dappled House, 30 Ox Lane Harpenden, Herts AL5 4HE Tel: +44 (0)1582 460815 Email: richard.marshall@iee.org Web: www.design-emc.co.uk



The Company combines consultancy, design and UK manufacture to provide user-friendly and costeffective instrumentation for product design and test. We tread a firm path between innovation and standardisation, and offer welldocumented products with professional backup. **Distributors:**

EMC Hire

Member of emcia

Rittal Ltd Braithwell Way, Hellaby Industrial Estate, Hellaby, Rotherham S66 8QY Tel: +44 (0)1709 704000 Fax: +44 (0)1709 701217 Email: information@rittal.co.uk Web: www.rittal.co.uk



Rittal, the leading enclosure manufacturer, have developed a comprehensive range of housings for EMC. These include anything from a terminal box to a complete 482.6mm (19") rack system together with screened thermal management and filtering.

Rohde & Schwarz UK Ltd Ancells Business Park, Fleet, Hants GU51 2UZ Tel: +44 (0)1252 818888 Fax: +44 (0)1252 811447 Email: contact.uk@rohde-schwarz.com Web: www.rohde-schwarz.com



Rohde & Schwarz is a market leader in Test Equipment for EMC measurements. The EMC test products range from automatic test receivers for precompliance testing up to fully equipped turnkey EMC test centres.

Typical customers include regulatory authorities, independent test houses as well as military and government organisations.

See Advertisement on Inside Front Cover.

RS Coatings Ltd Unit 10 Britannia Way Britannia Enterprise Park Lichfield, Staffs WS14 9UY Tel: +44 (0)1543 410771 Fax: +44 (0)1543 414977 Email: rscgroup@btconnect.com Web: www.rscoatings.com



RS Coatings specialise in the application of coating solutions for the protection and decoration of plastic components. Processes include Application of Conductive Coatings, Chrome Effects, Hardcoat & Anti-scratch Lacquers, Pad Printing, Plastic Injection Moulding and secondary operations. Schaffner Ltd 5 Ashville Way Molly Millars Lane Wokingham, Berks RG41 2PL Tel: +44 (0)118 977 0070 Fax: +44 (0)118 979 2969 Email: uksales@schaffner.com Web: www.schaffner.uk.com

| | || schaffner

Schaffner is the international leader in EMC, producing and marketing standard and custom-designed components and modules to virtually all industries worldwide. We are able to support our customers with application engineering, precompliance test facilities and technical support - whether you are a local manufacturer or a multinational requiring support across a range of manufacturing or engineering sites in different counties. Schaffner also manufactures and supplies power quality products, active and passive harmonic filters and reactors.

Member of **emcla**

Schlegel Electronic Materials Slijipesteenweg 28 8432 Middelkerke (Leffinge) Belgium Tel: + 32 (0)59 560 270 Fax: +32 (0)59 560 271 Email: ian.stocks@schlegelemi.com Web: www.schlegelemi.com

UK Contact Tel: 07903 722191



Schlegel Electronic Materials is a world renowned manufacturer of Fabric over Foam Shielding Gasket, offering one of the most comprehensive Range of Profiles and options in the industry. Since adding Thermal products to our manufacturing Capabilities we have gone from strength to strength. Schlegel truly is your Global supplier for EMI gaskets and Thermal products with manufacturing and Sales facilities around the world.

Member of emcla

Schurter Ltd Unit 8 Clock Park Shripney Road, Bognor Regis West Sussex PO22 9NH Tel: +44 (0)1243 810810 Fax: +44 (0)1243 810800 Email: sales@schurter.co.uk Web: www.schurter.co.uk

Swiss Address: Werkhofstrasse 8-12, P O Box 4769, CH-6002 Lucerne, Switzerland Tel: +41 41 369 3111 Fax: +41 41 369 3333 Email: contact@schurter.ch Web: www.schurter.com



SCHURTER is an internationally leading innovator and manufacturer of EMC standard and bespoke products (IEC inlet filters, 1 and 3 phase filters, DC-filters, chokes, pulse transformers), fuses, connectors, circuit breakers and input systems.

We are able to offer precompliance tests and find the right EMC solution for our customers.

SCHURTER is member of ECSN (Electronic Component Supply Network).

Selectronix Ltd

Minerva House, Calleva Park Aldermaston, Reading, Berks RG7 8NE Tel: +44 (0)118 981 7387 Fax: +44 (0)118 981 7608 Email: sales@selectronix.co.uk Web: www.selectronix.co.uk



Selectronix D filter connectors, bulkhead filters, adaptors and filter cables will clean up your interface borne noise. In addition, industry standard interference suppression products from Iskra, Ferroperm, Manutech and EMC enclosures from Hammond and Rittal are distributed by Selectronix.

Distributors:

Ambitron Components Denmark - Alltronic Finland - eiab Finland Israel - Silram Netherlands - Interkontakt Int. Norway - ACTE AS Sweden - eiab Elektronik Imp. SGS UK Ltd Units 12A & 12B South Industrial Estate Bowburn, Co Durham DH6 5AD Tel: +44 (0)191 377 2000 Fax: +44 (0)191 377 2020 Email: zee.ellahi@sgs.com Web: www.sgs.co.uk



SGS United Kingdom Ltd is part of the world's largest independent Testing, Inspection & Certification Company. Offices in 140 countries worldwide. CB Test Laboratory, UKAS Accredited. EMC Competent Body. Notified Body under Low Voltage, Machinery, R&TTE and Medical Devices Directives. GOST Complete Service. Automotive VCA (e-mark) Technical Service.

We also have a brand new, state of the art, 5m fully compliant EMC anechoic chamber to perform accredited testing to:

- Radiated Emission Measurement CISPR 16-1-14 up to 18GHz
- Radiated Immunity testing to EN61000-4-3 up to 2.7GHz
- Radio Testing to ETSI standards

Slater Plastics 7 Hanborough Business Park Lodge Road, Long Hanborough, Oxon OX29 8LH Tel: +44 (0)1993 881486 Fax: +44 (0)1993 883070 Email: geoffeccleshall@talktalk.net Web: www.slaterplastics.com



We are specialists in the specification and manufacture of filter windows for electronic displays. Contrast enhancement and EMC filter windows made to suit your requirements from CR39, polycarbonate, acrylic and glass.

SRS Products plc 19 Mead Industrial Park Riverway, Harlow, Essex CM20 2SE Tel: +44 (0)1279 635500 Fax: +44 (0)1279 635282 Email: sales@srs-products.co.uk Web: www.srs-products.co.uk



SRS supply a comprehensive range of 19" Subracks, Enclosures and associated accessories. Using their in-house Design and Manufacturing, SRS can work with the customer to provide cost effective solutions to a wide range of electronics packaging applications. UK distributors for **INTERMAS**.

Storm EMC Services Ltd 14 Willersey Road Cheltenham, Glos GL51 6NN Tel: +44 (0)117 230 3627 Email: enquiry@stormemc.co.uk Web: www.stormemc.co.uk



Over 25 years expertise is offered to support military/commercial EMC and TEMPEST requirements at any level (pcb to platform): design, remedial builds, training. Informal and on-site test evaluation capability is available or test equipment can be hired.

Storm represents RF Immunity Ltd filtered connectors in the UK.



Syfer Technology Ltd Old Stoke Road, Arminghall Norwich, Norfolk NR14 8SQ Tel: +44 (0)1603 723310 Fax: +44 (0)1603 723301 Email: sales@syfer.co.uk Web: www.syfer.com



Syfer Technology Limited is a UK manufacturer of EMI filters, including SMD pi-filters, X2Y chips, power filters, panel mount types and custom multiway filter assemblies. High reliability products are backed up by a flexible service.

T.C. Shielding Ltd Unit 2 Ashburton Industrial Est. Ross on Wye, Hereford HR9 7BW Tel: +44 (0)1989 563941 Fax: +44 (0)1989 566874 Email: emc@tcshielding.com Web: www.tcshielding.com



Established in 1991, we offer a comprehensive range of competitively priced conductive elastomer solutions for both military and commercial electronics.

BSEN ISO 9001:2008 approved, full technical support and innovative solutions set us aside from our competitors.

TDK Electronics UK Summit House, London Road Bracknell, Berks RG12 2XH Tel: +44 (0)1344 381515 Fax: +44 (0)1344 381511 Email: info@eu.tdk.com Web: www.tdk.eu

TDK Electronics Europe GmbH Wanheimer Str. 57, D-40472 Duesseldorf, Germany Tel: +49 211 9077-0 Fax: +49 211 414984



As one of the largest suppliers of EMC components, with the widest range of products and technologies, TDK has developed an in-depth understanding of EMC and the control of EMI to achieve compliance with all international EMC regulations. The unique breadth of this expertise is the basis for its success in the international EMC marketplace.

A comprehensive range of EMI/RFI noise suppression components, coupled with Radio Wave Absorbers and turnkey Anechoic Chamber projects, combines to provide TDK's customers with what we refer to as "The Complete EMC Solution".

Distributors:

Abacus Polar Arrow Electronics Dexter Magnetic Technologies Flint Distribution Rutronik S.M.A.E. TTI

Telonic Instruments Ltd Toutley Industrial Estate Toutley Road, Wokingham Berks RG41 1QN Tel: +44 (0)118 978 6911 Fax: +44 (0)118 979 2338 Email: info@telonic.co.uk Web: www.telonic.co.uk



Telonic supplies Test & Measurement products with applications for EMC and LVD. These include RF Attenuators & Filters, High Voltage Flash Testers, Insulation Testers, Enclosure and Earth Leakage Testers, Programmable AC Power Supplies, which incorporate an harmonic analysis section and Power Meters. TESEQ Ltd Ashville Way Molly Millars Lane, Wokingham Berks RG41 2PL Tel: +44 (0)845 074 0660 Fax: +44 (0)845 074 0656 Email: uksales@teseq.com Web: www.teseq.com



TESEQ is a leading provider of quality instrumentation for EMC testing in the automotive, industrial, consumer, medical and telecommunications markets. Our extensive product range supports both immunity and emissions testing and contains unique products, developed specifcally, for the EMC markets, by individuals whose sole focus is the EMC market

TESEQ EMC Calibration Services Ashville Way Molly Millars Lane, Wokingham Berks RG41 2PL Tel: +44 (0)845 074 0660 Fax: +44 (0)845 074 0656 Email: uksales@tseq.com Web: www.teseq.com

Advanced Test Solutions for EMC

Our extensive calibration and repair capability is built on our longstanding EMC instrumentation development experience. We offer:

- Comprehensive knowledge of EMC instrumentation
- Unique, global, chamber calibration and site validation service
- On site UKAS, or traceable, calibration service
- Tailored calibration services, within scope of our accreditation
- EMC instrumentation repair service
- Instrument pick-up and return service

I. Thomas GmbH Ohle Kamp 4, D-21684 Stade, Germany Tel: +49 4141 82920 Fax: +49 4141 84461 Email: info@i-thomas-gmbh.de Web: www.i-thomas-gmbh.de



I. Thomas GmbH specialist in establishing shielded rooms, anechoic chambers, open test sites. Also take down, move and rebuild specialists.

Selling of pre-owned chambers and doors.

Offering turn-key shielding plants.

TMD Technologies Ltd Swallowfield Way, Hayes, Middx UB3 1DQ Tel: +44 (0)20 8573 5555

Fax: +44 (0)20 8569 1839 Email: wecare@tmd.co.uk Web: www.tmd.co.uk



TMD manufactures a comprehensive range of broadband and narrowband; medium and high power; CW and pulsed TWT amplifiers - to cover a variety of test applications from 750 MHz to 40 GHz; up to 40 kW. To provide more comprehensive sub-system solutions, TMD has developed a close working relationship with antenna experts Q-par Angus Ltd and also BONN Elektronik GmbH who specialise in solid state RF and microwave amplifier technology.

Total EMC Products Ltd 32 Rovex Business Park Hay Hall Road, Tyseley Birmingham B11 2AG Tel: +44 (0)121 708 1898 Fax: +44 (0)121 707 7633 Email: nei@totalemc.com Web: www.totalemc.com



EMC filter manufactuer, supplying high performance, custom EMC filters and feed through capacitors to various sectors, EMC testing and support available. Custom design and military require-ments are our speciality. TRaC - Malvern Laboratory 100 Frobisher Business Park Leigh Sinton Road, Malvern Worcs WR14 1BX Tel: +44 (0)1684 571700 Fax: +44 (0)1684 571701 Email: test@tracglobal.com Web: www.tracglobal.com



From toys to tanks, TRaC offers compliance testing to prove conformity with essential requirements for commercial, military, aerospace, automotive, telecoms & IT markets. TRaC is a major approvals provider, operating over 20 screened and anechoic test chambers across the country, linking defence and commercial CE marking test standards.

TRaC is the complete solution for testing, regulatory and compliance services.

TRW Conekt Technical Centre Stratford Road, Solihull West Midlands B90 4GW Tel: +44 (0)121 627 4978 Fax: +44 (0)121 627 4243 Email: carl.raybould@trw.com Web: www.conekt.co.uk



Conekt is a fully accredited design, development and production validation Centre specialising in automotive, aerospace and defence industry products. Its Centre of Excellence for Aerospace EMC testing, located at the company's head office in Solihull, continues to receive high levels of investment, and includes indirect lightning strike and free-field HIRF capability. **TÜV SÜD Product Service/BABT** Octagon House, Concorde Way Segensworth North, Fareham Hants PO15 5RL Tel: +44 (0)1489 558100 Fax: +44 (0)1489 558101 Email: info@tuvps.co.uk Web: www.tuvps.co.uk/home_psuk/ services/testing/emc_testing



TÜV SÜD Product Service is one of the world's largest independent providers of Electromagnetic Compatibility (EMC) testing and qualification services, supported by an extensive pool of dedicated and accessible professional EMC engineers, who are able to assist with all your regulatory requirements.

Our testing laboratory in Fareham, Hampshire has 10 screened enclosures and 8 dedicated EMC laboratories, with Safety, Environmental and Radio testing facilities all under one roof.

Our Bearley facility near Stratford-Upon-Avon, Warwickshire has recently undergone a £400,000 investment to include a new 3m semi anechoic testing laboratory which together with our safety laboratory forms a CE Marking centre of excellence in the Midlands.

Ultra Electronics

Precision Air & Land Systems Arle Court, Hatherley Lane Cheltenham, Glos GL51 6PN Tel: +44 (0)1242 221166 Fax: +44 (0)1242 221167 steve.uhrmacher@ultra-pals.com www.ultra-pals.com



Ultra Precision Air & Land Systems (PALS) provides turnkey electronic test equipment for use within Commercial and Defence markets. Our latest EMC product tests RF filters in-situ and can be tailored for laboratory, production and/or deployable applications.

For further information on our design, manufacturing and qualification capabilities please visit: www.ultra-pals.com

Uvox Ltd 14/3 Stanmore Industrial Estate **Bridgnorth**, Shropshire WV15 5HR Tel: +44 (0)1746 769369 Fax: +44 (0)1746 766001 Email: sales@uvox.co.uk Web: www.uvox.co.uk



Uvox Ltd offers a large range of EMI shielding products for box, cable and PCB level including EMI gaskets, conductive coatings and PCB screening cans, as well as knitted gaskets, FIP and conductive fabrics. We would be pleased to offer our experience in your shielding design.

Westside Supplies Ltd 'Westside', Shripney Road Bognor Regis, West Sussex **PO22 9NX** Tel: +44 (0)1243 860626 Fax: +44 (0)1243 866626 Email: sales@westside-supplies.co.uk Web: www.westside-supplies.co.uk



Westside Supplies are a leading supplier of Audio, Video, RF and Mains connectors and cables, as well as battery contacts and holders. We specialise in design and manufacture of custom connectors in small or large volumes with particular emphasis on improving EMC screening.

Supplying quality connecting solutions since 1991.

Wurth Electronics UK Ltd Office Village, 1st Floor **Building 24, Salford Quays** Manchester M5 3EQ Tel: +44 (0)161 872 0431 Fax: +44 (0)161 872 0433 Email: sales-uk@we-online.com Web: www.we-online.com



WÜRTH ELEKTRONĬK

Würth Electronics UK Ltd, is one of the world's leading manufacturers of EMC Solutions, Inductors, Transformers & Connectors. We have worldwide presence through our technical sales force and support your product design from concept to manufacture. Our product range contains Cable Ferrites, SMD ferrites, Inductors, Transformers, RF Components, Varistors, Shielding Materials & Connectors. 98% of all catalogue items are available exstock. Samples ordered at our UK Sales office will be delivered within 48 hours and entirely free of charge!

Our products are fully RoHS compliant and lead free. As part of the Wurth Group, a family run and privately owned company employing some 66,000 staff globally with a turnover of \$13 billion, you can rely on our motto "More Than You Expect"

MORE AVAILABILITY

Ex-stock of all catalogue items will continue

No discontinuation of any product lines

Local Regional Business Managers to assist you

MORE SERVICE

Small quantities, split reels, low or no MOQ available Free samples delivered in 48 hours,

customer specific solutions

MORE PRESENCE

Subsidiaries in different European countries, Asia and the USA, all close to you and your manufacturing locations

MORE KNOWLEDGE

Technical seminars, workshops, and design guides such as the Trilogy of Inductors and the NEW Trilogy of Connectors

See Advertisement on Page 3

Member of **emcla**

York EMC Services Ltd Market Square, University of York York YO10 5DD Tel: +44 (0)1904 434440 Fax: +44 (0)1904 434434 Email: enquiry@vorkemc.co.uk Web: www.yorkemc.co.uk



York EMC Services is an independent compliance solutions offering provider testing, consultancy and training services alongside our instrumentation products range.

We offer EMC, Electrical Safety, Radio, Telecoms and Acoustic testing services from our 3 laboratories conveniently located in Castleford near Leeds, Donibristle near Edinburgh and Yate near Bristol.

Our UKAS accredited test laboratories and technical excellence enables us to go that extra mile to satisfy our customer requirements. Technical expertise and customer support - we stand out from the crowd.



Distributors Addresses

3M Santa Cruz, USA Tel: +1 831 459 7488

Abacus Polar Bone Lane, Newbury RG14 5SF Tel: 01635 515710

Abacus Electronics Bone Lane, Newbury RG14 5SF Tel: 01635 515700

Accelonix BV Holland Tel: +31 0407501661

Accorde Distribution Jupiter, FL, USA

ACTE Norway NS N-2021 Skedsmokorset, Norway Tel: +47 63 898900

Aerco Horsham, West Sussex RH12 3JR Tel: 01403 260206

Alltronic DK-3450 Allerod, Denmark Tel: + 45 48 17 76 16

Anglia Wisbech, Cambs PE13 2PS Tel: +44 (0)1945 474747

Ambitron Components Hungerford, Berks Tel: 01488 685404

Arrow Components Bedford MK42 0LF Tel: 01234 270077

Arrow Electronics Harlow, Essex CM17 9NA Tel: 01279 626777

Avnet Abacus Scunthorpe, DN15 8RF Tel: +44 (0)1724 281770

Avnet EMG Meadway, Stevenage SG1 2EF Tel: 01438 788500

Avnet Time Stevenage, Herts SG1 2EF Tel: 01438 789789

BFI Optilas Milton Keynes, Bucks MK12 5ZY Tel: 01908 326326 BOAO Technology Guangzhou City 510300, China Tel: +86 20 34452080

Bovill & Boyd (Engineering) Ltd East Kilbride, Scotland

Tel: 01355 237531

Brennan & Co Stillorgan,Dublin Tel: + 353 1 2952501

Campbell Collins Ltd Stevenage, Herts, UK Tel: 01438 369466

Carpatec Sweden Tel: +46 8540 888 45

Castle Microwave Newbury, Berks, RG14 1EA Tel: 01635 271300

CE Mesure 56150 Baud, France Tel: +33 2 97 39 1600

Chintatech Corporation Hsintien City, Taipen Hsien, Taiwan Tel: +886 2 29 16 09 77

Corad Technology Kowloon, Hong Kong Tel: +852 27930330

Credence Technologies Santa Cruz, CA95060, USA Tel: +1 408 459 7488

Deep-Com Ltd Russia Tel: +7 495 661 6798

Deltron UK Ltd Scunthorpe DN15 8QJ Tel: 01724 281770

Dexter Magnetic Materials Twyford, Berks RG10 9NJ Tel: 01189 602430

Distributed Micro Technology Ltd Sandhurst, berks GU47 0QA Tel: 01276 33391

Eckinda Technology Malaysia/Singapore Tel: +65 66 119 279

EEMC Coimex Lelystad 8239 DA, Netherlands Tel: +(31) 320 29 53 95

eiab Elektronik Import AB Sollentuna, Sweden Tel: +46 8 585 70220

eiab Finland OY FIN-04320 Tuusula, Finland Tel: +358 50 4360633

Electro Test Ltd Albany, Auckland, New Zealand Tel: +64 9 448 28 00

ELIMEC Rishon Lezion 75150, Israel Tel: +972 3 951 4122

EMCA GmbH Leingarten, Germany Tel: +49 (0) 7131 20307 0

EMC Hire Ltd Shefford, Beds SG17 5JU Tel: 01462 817111

EMC Instruments Corp Taiwan Tel: +886 03 3286 998

EMC Technology Ltd Beijing 100080, China Tel: +86 10 8267 57 57

EMCIS Seoul, Korea Tel: +82 2 2646 4810

Emitec AG Switzerland Tel: + 41 41 748 60 10

Emtoni China Tel: +86 10 82675757

EMV Electronic Service GmbH D-24568, Kaltenkirchen, Germany Tel: +49 4191 27 13

Enelec, S.L. 08206 Sabadell, Barcelona, Spain Tel: + 34 3 723 02 70

ES Electronic Service GmbH Bad Nauheim, Germany Tel: +(49) 6032 96 360

Esprit Electronics Hamble, Hants SO31 4RF Tel: 02380 455411 Expando Danderyd, Sweden Tel: +468 544 900 44

Farnell Electronic Components Leeds LS12 2TU Tel: 01132 790101

Farnell InOne Leeds LS12 2TU Tel: 08701 200200

F C Lane Electronics Slinfold, West Sussex Tel: +44 (0)1403 790661

Flint Distribution Coalville, Leics LE6 1TU Tel: 01530 510333

Forind Avio Electronics SpA Milan, Italy Tel:+(39) 02 95343080

Frequensys Ltd Bedford, MK44 3WH Tel: +44 (0)1142 353 507

Future Electronics Colnbrook, Berks SL3 0AA Tel: 01753 763000

Hagalec Co. GR-10437 Athens, Greece Tel: +30 15229866

Hitek Electronic Materials Scunthorpe, DN17 2AX Tel: 01724 851678

Inel Oy FIN-00510 Helsinki, Finland +358 9146 4885

Interkontakt International bv NL-5531 AG Bladel, Netherlands Tel: + 31 497 386878

Kapman Co 80270 Okmeydani, Istanbul Tel: +(90) 212 210 2705

Metric A/S 2620 Albertslund, Denmark Tel: +45 4371 6444

Micromark Maidenhead, Berks SL6 3TP Tel: 01628 512912

Midas Components Great Yarmouth, NR31 0DU Tel: 01493 602602

Northcott Electronics Ltd Baldock, Herts SG7 6XL Tel: 01462 490999 OEM Component AB S-57328 Tranas, Sweden Tel: +46 8 444 10 50

Otto Olsen AS 2001 Lillestrom, Norway Tel: + 47 89 08 00

PEI-Genesis UK Basingstoke, Hants RG24 8NU Tel: 08707 202560

Power Parameters Pty Ltd Victoria 3081, Australia Tel: +61 3 9450 1500

Rapid Electronics Ltd Colchester, Essex CO4 5JS Tel: +44 (0)1206 751166

Richardson Electronic (Europe) Slough, Berks Tel: 01753 734104/733010

RS Components Ltd Corby, Northants NN17 9RS Tel: 08457 201201

Rutronik Bolton, Lancs BL7 9RP Tel: 01204 602200

S.C.P. s.a. Madrid, Spain Tel: +34 (0) 9135 56006

Scientific Mes-Technik India Tel: +91 731 2422335

Silram Ltd Kfar-Saba, Israel Tel: +972 9 767 1332

S.M.A.E. 40878 Ratingen, Germany Tel: +49 2102 4248 0

SPEC TEC s.r.l. Milan, Italy Tel: +39 (0) 229 403186

TESEO 10151 Torino, Italy Tel: +39 11 739 6515

Testram Japan Tel: +81 03 3515 6417

Toptronic A/S DK-4180 Soroe, Denmark Tel: +(45) 49 192500

TTI Incorporated High Wycombe, Bucks HP12 3YZ Tel: 01494 460000 Ultram Technologies Israel Tel: +972 3 933 1696

Young-ECC High Wycombe, Bucks HP12 3TA Tel: 01494 753500



If you are serious about selling EMC products or services to Industry... then you should be a Member.

The EMCIA was formed on 20th March 2002 for the benefit of companies involved in Supplying, Designing, Testing and Manufacturing EMC products. Networking lunches are held 3 times a year. The current President is Alan Warner.

Current Members

AEF SolutionswwwAR (UK)wwwAstrium LtdwwwAstrium LtdwwwCherry Clough ConsultantswwwChomericswwwdB TechnologywwwDEM ManufacturingwwwElectromagnetic Testing ServiceswwwElmac ServiceswwwEMC Centre (Paisley)emEMC Partner (UK)wwwHITEK Electronic MaterialswwwHTT (UK) LtdwwwKemtron Ltdwww

www.aefsolutions.com www.uk-ar.co.uk www.astrium.eads.net www.cherryclough.com www.chomerics.com www.dbtechnology.co.uk www.dem-uk.com www.etsemc.co.uk www.etsemc.co.uk emc-centre@btconnect.com www.emcpartner.co.uk www.ets-lindgren.com www.hitek-ltd.co.uk www.httuk.co.uk Kiwa Blackwood Compliance Labs www.kiwa.co.uk Knitmesh Technologies www.knitmeshtechnologies.com Laplace Instruments www.laplace.co.uk METECC www.metecc.eu MILMEGA www.milmega.co.uk MPE www.mpe.co.uk Nutwood UK www.theemcjournal.com Oxley Developments www.oxleygroup.com PPM www.ppm.co.uk **Richard Marshall** www.design-emc.co.uk Schaffner www.schaffner.uk.com Schlegel EMI www.schlegelemi.com Storm EMC Services www.stormemc.co.uk Wurth Electronics UK www.we-online.com York EMC Services www.yorkemc.co.uk

The EMCIA Secretariat is Nutwood UK Ltd., publishers of The EMC Journal, www.theemcjournal.com.

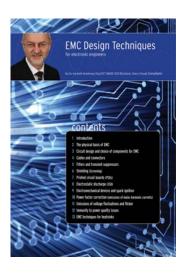


Nutwood UK Ltd., Eddystone Court, De Lank Lane, St Breward, Bodmin, Cornwall, PL30 4NQ Tel: +44 (0)1208 851530 Fax: +44 (0)1208 851630 Email: emcia@emcia.org

Excellent EMC Books

EMC Design Techniques for electronic engineers Author: Keith Armstrong C.Eng FIET SMIEEE ACGI BSc (Hons)

Cost £55 plus p&p. ISBN 978-9555118-4-4

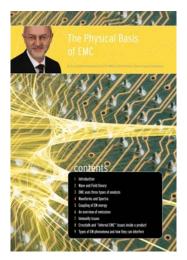


Contents: Introduction: The Physical basis of EMC; Circuit design and choice of components for EMC; Cables and connectors; Filters and transient suppressors; Shielding (Screening); Printed Circuit Boards (PCBs); Electrostatic discharge (ESD); Electromechanical devices and spark ignition; Power factor correction (emissions of mains harmonic currents): Emissions of voltage fluctuations and flicker;

Immunity to power quality issues; EMC techniques for heatsinks.

The Physical Basis of EMC Author: Keith Armstrong C.Eng FIET SMIEEE ACGI BSc (Hons)

Cost £25 plus p&p. ISBN 978-0-9555118-3-7



Contents: Introduction; Wave and Field theory; EMC uses three types of analysis;

Waveforms and Spectra; Coupling of EM energy; An overview of emissions; Immunity issues; Crosstalk and "internal EMC" issues inside a product; Types of EM phenomena and how they can interfere.

Find out more on our web site: www.emcacademy.org/books.asp

EMC for Printed Circuit Boards Author: Keith Armstrong C.Eng FIET SMIEEE ACGI BSc (Hons)

Cost £47.00 plus p&p. ISBN 978-0-9555118-5-1



More than just a book. It is a true learning aid. Graphics in full colour. Designed to lay flat for easy learning. Written in a clear concise no nonsense style. Destined to become the Standard for EMC PCB Design. 168 A4 pages.

This book is about good-practice EMC design techniques for printed circuit board (PCB) design and layout. It is intended for the designers of any electronic circuits that are to be constructed on PCBs, and of course for the PCB designers themselves. All applications

areas are covered, from household appliances, commercial and industrial equipment, through automotive to aerospace and military.

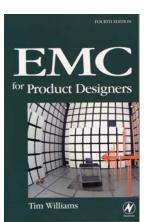
This is a book for electronic and PCB engineers who need to employ good EMC and SI techniques to save time and money when designing with the latest technologies, to make reliable and compliant products.

The book uses very little maths and does not go into great detail about *why* these techniques work. But they are well-proven in practice by successful designers world-wide, and the reasons they work are understood by academics, so they can be used with confidence. Numerous references lead to detailed explanations and mathematical foundations.

It is difficult for textbooks to keep up to date with fast-changing PCB technology and EMC techniques, which is why most of the references are recent conference papers and articles available via the Internet.

EMC for Product Designers Fourth Edition Author: Tim Williams

Cost £47.99 plus p&p. ISBN 978-0-75-068170-4



This book is almost certainly regarded as the bible on EMC Design across all International borders.

Brilliantly written and extremely informative, it is divided into three parts, Legislation & Standards, Testing and Design plus a number of interesting and useful Appendices.

Every EMC product designer should buy this latest edition.

Notes

The Centre of **Excellence**



Client meeting room

Military Chamber, number 1 of 3

Since Hursley EMC was formed over 15 years ago in a management buyout from IBM, we have continued to improve our service and facilities to our customers.

Investing in state of the art technology, equipment and staff we have steadily increased our test laboratory facilities over those years.

However there came a point when we recognised that we could only increase our capacity by increasing the size of our premises.

After months of researching suitable locations, we eventually found the ideal site a 10,000 sq foot building just around the corner from our Brickfield Lane site at Chandlers Ford.

After many months of work we are now fully operational in our new headquarters, whilst retaining our OATS chamber at Hursley near Winchester.

Visit our website for more information or better still, visit us and view our new facilities.

www.hursley-emc.co.uk





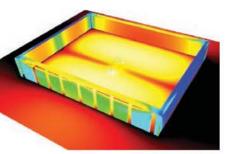
Trafalgar House, Trafalgar Close, Chandlers Ford EASTLEIGH, Hampshire. SO53 4BW

T: 023 8027 1111 F: 023 8027 1144



CST STUDIO SUITE 2013 Make the Connection...

Find the simple way through complex EM systems



www.cst.com/emc

Components don't exist in electromagnetic isolation. They influence their neighbors' performance. They are affected by the enclosure or structure around them. They are susceptible to outside influences. With System Assembly and Modeling, CST STUDIO SUITE helps optimize component and system performance.

Get the big picture of what's really going on. Ensure your product and components perform in the toughest of environments.

Choose CST STUDIO SUITE – Complete Technology for 3D EM.

