COMPLIANCE 3 SOFTWARE SUITE

THE DEFINITIVE SOFTWARE ENVIRONMENT FOR RF EMC TESTING

TESEQ

Advanced Test Solutions for EMC

- Modular, integrated, flexible test environment
- From entry level to full test lab management
- Secure, reliable, configurable
- Professional, efficient reporting

COMPLIANCE 3 SOFTWARE SUITE

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POWERFUL, FLEXIBLE, ADAPTABLE

The Compliance 3 Software Suite is much more than a set of powerful test tools – it is a complete high-level graphical programming language that will meet and exceed all your RF EMC test needs.
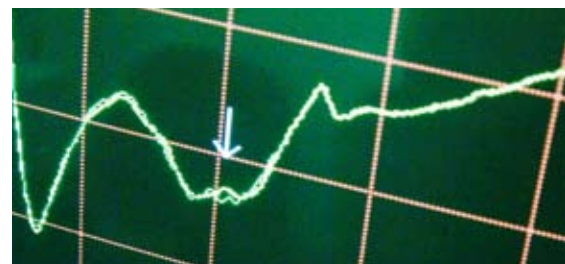
Enable everything, limit nothing. Teseq's Compliance 3 Software Suite has been designed from the ground up to provide EMC test engineers with the world's most powerful and flexible RF EMC test environment. The Compliance 3 Software Suite is designed to put you, the test engineer, in control. With Compliance 3, all of your testing needs can be met. Whether you are a commercial test organization or a development laboratory, you can use the Compliance 3 Software Suite to contribute directly to your profitability by enabling more comprehensive, more efficient testing, for better, faster product development.

Putting you in control. For security and reliability whatever the size of your test operation, the Compliance 3 Software Suite incorporates effective administrator control to prevent accidental or unauthorized changes to the test setups, test data and reports.

Efficient reporting. Reporting is a vital element of the test process to colleagues and customers alike. The Compliance 3 Software Suite includes appropriate reporting functions at every level for efficient, professional reporting of test results.

Wide range of instrument drivers. The Compliance 3 Software Suite comes with a very wide selection of instrument drivers, including all types of common EMC test instruments, from all the leading manufacturers. RS232, GPIB and USB interfaces are included. Teseq is committed to the continuous development of new interface drivers in line with industry needs. New drivers are available for free download from the customer support web site.

Dedicated support. Teseq's software development team, applications engineers and dedicated help desk provide comprehensive support for all Teseq software customers. Our unrivaled commitment to the global EMC test market is your guarantee of long-term product support and continuity.
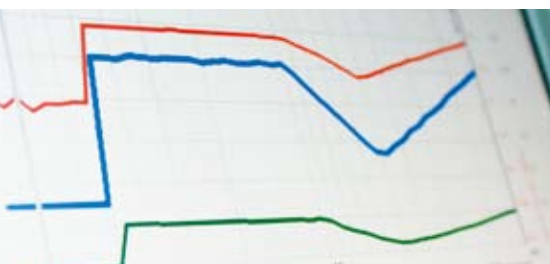
COMPLIANT RF EMISSION AND IMMUNITY TESTING TO ANY STANDARD

Compliance 3 RF Emission / Immunity is a sophisticated, fully featured RF EMC software package capable of performing all types of EMC emission and immunity testing in standard and specialized applications. It comes in two versions, Compliance 3 RF Emission and Compliance 3 RF Immunity, to be used together or stand-alone. Either way, it provides a single, integrated test platform for all your RF EMC test needs.

Compliance 3 can be used with almost any EMC test instrument and a wide range of instrument drivers is supplied. In addition, users can create their own drivers for new instruments. Complex hardware configurations, using multiple receivers, spectrum analyzers, amplifiers and transducers, as well as antenna masts, turntables or other handling devices can be easily created.

Compliance 3 has a comprehensive library of pre-defined tests for commercial, military, automotive, telecommunications, aerospace and medical applications. The user simply selects the test from the list, enters the appropriate parameters, such as frequency range, number of peaks and so on, and runs the test.

A powerful custom test capability allows the user to build their own routines to suit their test needs and individual test approach, however specialized or complex. The graphical interface provides a familiar, readily-useable programming environment with fill-in forms and drop-down menus. Simple routines can be built and then incorporated into more complex tests as subroutines, with pauses for user intervention, loops and conditional tests. User messages can be triggered at significant points to provide information or to prompt user action.

For example, test profiles may include variable target thresholds, such as required by military and automotive specifications. Or the user could set up a test to identify the lowest and highest frequency points at which the EUT fails and carry out a detailed investigation of the frequency range between the two using a range of stress levels. The possibilities are endless; there is no RF EMC test application that Compliance 3 cannot fulfill.

Teseq also offers a test creation service, for those who do not want to spend the time to learn how to use the programming tools. Teseq can quote a price to provide a customer defined test method.

A choice of test report tools is provided for efficient generation of professional internal reports and customer documentation. All test data can be saved, displayed, exported and reported in a range of formats to suit all requirements.

LOW COST PRE-COMPLIANCE EMISSION TESTING

Emipak 3 RF Emission is an entry-level package for pre-compliance RF emission testing. It comes complete with an extensive library of pre-defined tests to a broad range of EMC standards, for fast and effective pre-compliance testing.

Emipak 3 supports the complete range of Teseq measuring receivers and a number of commonly used spectrum analyzers. Factors for many common antennas are already included and the user can easily add others manually, or by importing the files. A variety of formats is accepted.

The easy-to-use test setup wizard allows the user to select a frequency range, input details of the equipment under test and determine how many peaks will be reanalyzed in the final stage. After a pre-sweep, the user can choose to add re-measure points or delete points such as known ambients.

A single page report of graphical and tabulated data is produced automatically after the test and a text-based test report is saved to file. All test data can be copied directly into Word for easy inclusion in fully formatted reports as required. Like all the modules in the Compliance 3 Software Suite, Emipak 3 can be upgraded to the full Compliance 3 package at any time, with no loss of data.

RF EMISSION AND IMMUNITY TESTING IN A GTEM CELL

GTEM 3 RF Emission / Immunity is an entry-level package for pre-compliance testing in a GTEM cell. It comes in two versions, GTEM 3 RF Emission and GTEM 3 RF Immunity, to be used together or stand-alone.

GTEM 3 supports the full range of Teseq measuring receivers and a number of commonly used spectrum analyzers and comes complete with an extensive library of pre-defined tests to a broad range of EMC standards, for fast and effective pre-compliance testing. GTEM 3 RF Emission has a built-in algorithm for correlation to an open area test site (OATS) automatically applied at the end of each test.

There is an easy-to-use test setup wizard that allows the user to select a frequency range, input details of the equipment under test (EUT) and the GTEM dimensions, and to position the EUT manually or automatically. Automatic frequency optimization compensates for spectrum analyser frequency inaccuracies.

A single page report of graphical and tabulated data is produced automatically after the test and a text-based test report is saved to file. All test data can be copied directly into Word for easy inclusion in fully formatted reports as required. Like all the modules in the Compliance 3 Software Suite, GTEM 3 can be upgraded to the full Compliance 3 package at any time, with no loss of data.
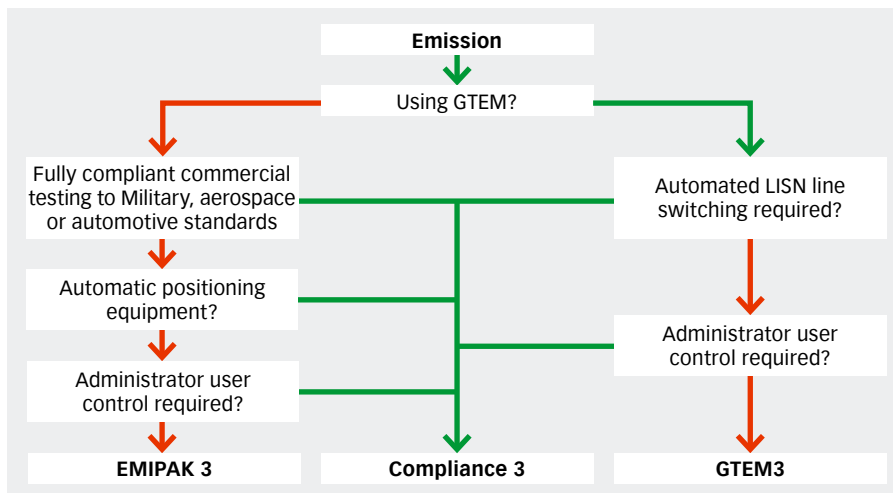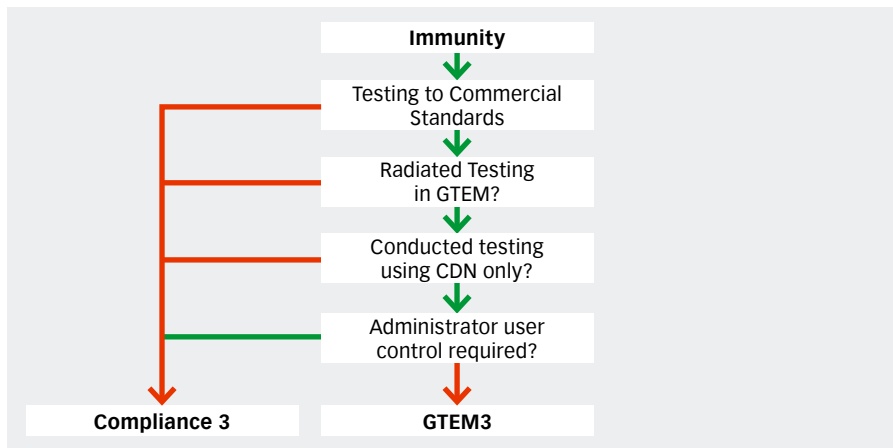
PRODUCT SELECTOR

The Compliance 3 Software Suite consists of a series of software modules that fit together seamlessly. Choose just the modules you need for your test applications, and build on your investment by adding others at any time, with no loss of data. Whatever your configuration, Compliance 3 gives you a single test platform with a familiar, easy-to-use interface for maximum test productivity.
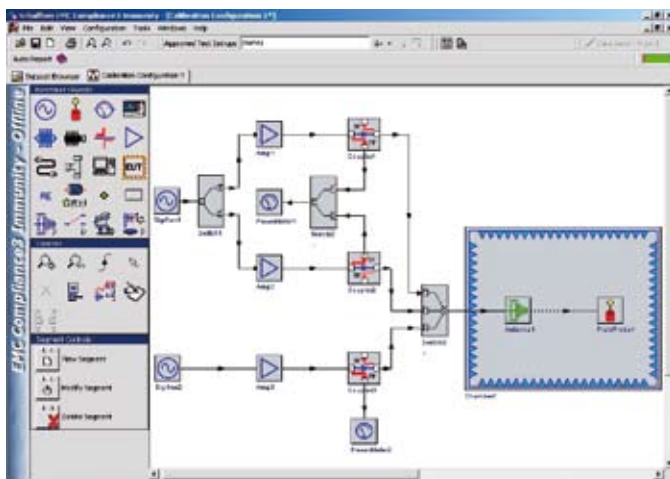
Immunity
↓
Testing to Commercial Standards
↓
Radiated Testing in GTEM?
↓
Conducted testing using CDN only?
↓
Administrator user control required?

Compliance 3   **GTEM3**

Emission
↓
Using GTEM?

Fully compliant commercial testing to Military, aerospace or automotive standards
↓
Automatic positioning equipment?
↓
Administrator user control required?

Automated LISN line switching required?
↓
Administrator user control required?

EMIPAK 3   **Compliance 3**   **GTEM3**

■ =No ■ = Yes

Hardware requirement

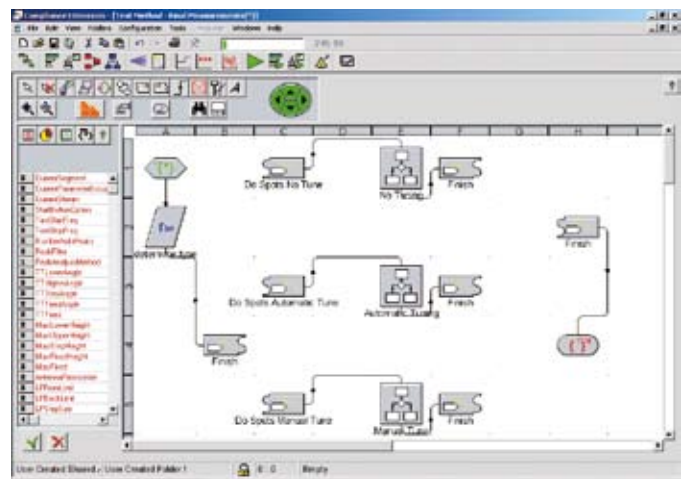|	
PC	500MHz Pentium processor or equivalent / 64MB RAM / CD-ROM Drive / 250MB of disk space / 256 color display adapter at 1024 x 768 resolution
GPIB interface card	National Instruments: PCI, PCMCIA, USB (Ethernet card not supported)
Operating system	Windows 2000 XP

Compliance 3 is designed to allow the user to configure hardware and test procedures via simple to use graphical user interfaces. Helpful tools are embedded in the software that makes the process of creating hardware configurations and test routines and of publishing reports, 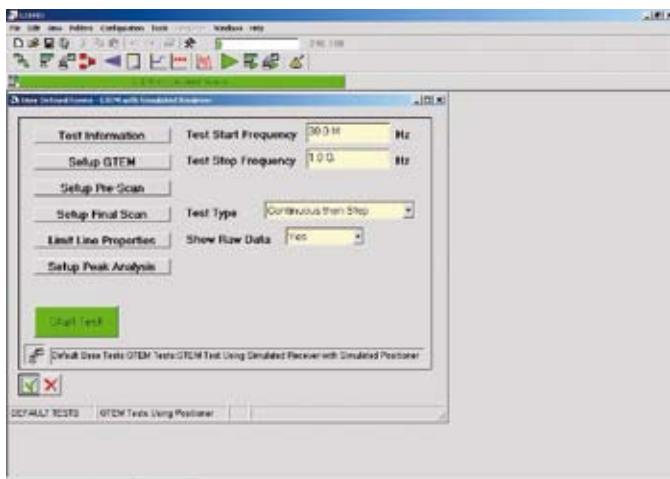both simple and flexible. Once created, tests can be run by the operator from simple 'start forms' which can be customised to allow changes only to those parameters that the system administrator defines. By this means tests can be run on a day to day basis with just sufficient flexibility to allow adaptive testing without the risk of incorrect settings.
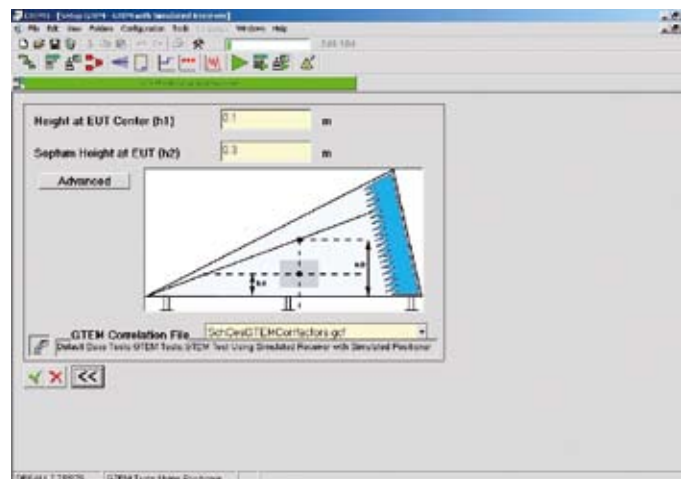

Simple drag and drop, plus intelligent interconnection tracking, allows complex configuration to be created and checked before use

Graphical 'Flow chart' programming language allows any user defined test method to be created

User editable, front end forms provide a simple daily interface to the software

Pre-installed GTEM test routines are supplied with the software and can be quickly run from the user form

SERVICE AND SUPPORT

Customization Service. Compliance 3 is designed to allow the user to create any test method required. This great flexibility is one of the most important benefits of this software. However, many find this initial task daunting and prefer a more 'out of the box' approach. Teseq can therefore offer two service options: A series of standard test package options, these include standard configured tests for either, commercial, Automotive, military or aerospace testing. These packages can be easily imported into the standard software and with minimal adjustments to the hardware configuration, adapted to the user system.

A test method customization service, which can either create a totally new test method based on customer needs or modify one of the above packages to suit individual needs.

Support contracts. A yearly renewable service contract is available which entitles the user to free upgrades as new software versions are issued plus free access to our online help desk. The help desk can offer immediate assistance with installation, operation and functionality of the software and will act to liaise between the user and our team of software and applications engineers to solve more detailed questions. The help desk takes ownership of all customer contacts and will ensure that all questions are answered and that the contact is taken to a conclusion.

Off-Line software. Many Compliance 3 users find it helpful to be able to work with the software in the comfort of their office when updating calibration files, preparing new tests and analyzing results. Teseq therefore offers a low cost off-line version of the software which can be used for any function except actually controlling test equipment. Files can be passed to and from the main operational software thus allowing tests to be prepared and reports to be issued without utilizing the main computer.

Licensing and security. Compliance 3 is licensed to a single computer, allowing any registered user to access the software on a single PC. To allow greater flexibility, each software package includes a USB hardware key. If required, the license can be transferred to the USB key so that Compliance 3 can run in full operation mode on any PC by inserting the key into a USB slot. This feature ensures maximum organizational flexibility by allowing the user to choose how to distribute the license.
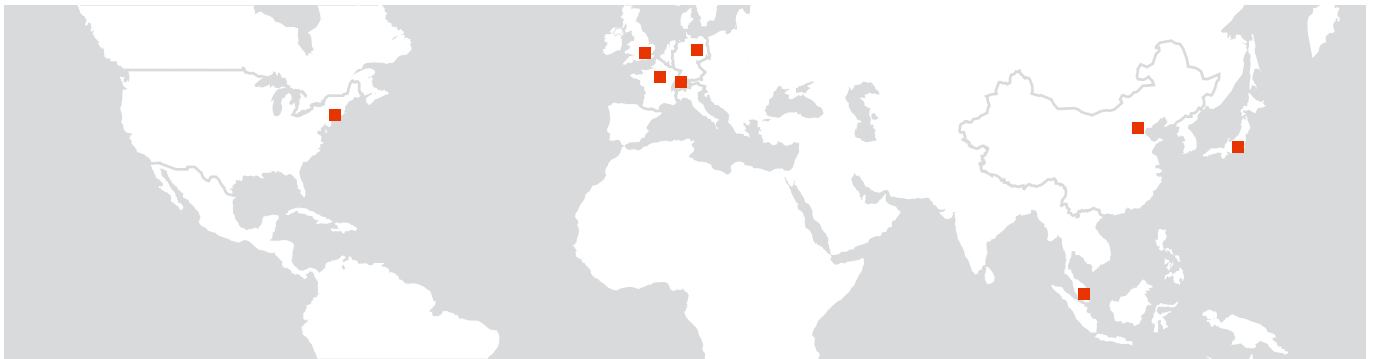
EMC INSTRUMENTATION AND SYSTEMS TO SUIT ANY BUDGET.

Teseq offers the world's most comprehensive range of EMC systems for immunity and emission testing. We boast a world class research and development program, backed by state-of-the-art global manufacturing. Our membership in the relevant international committees demonstrates our commitment to the industry. Our network of agents and distributors offers market leading EMC expertise tailored to local needs in more than 30 different countries.

Our unique modular approach to EMC is focused on our customers' business needs. By breaking down the barriers between traditionally separate test functions Teseq helps to optimize test processes and to bring products to market quicker.

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