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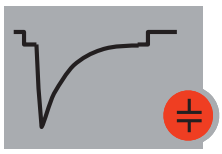
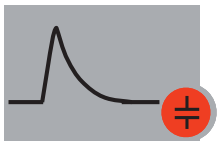
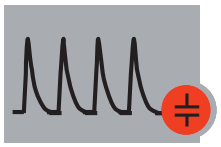
AUTOSTAR 5.0 IMMUNITY TEST SOFTWARE!



■ Pulse 1

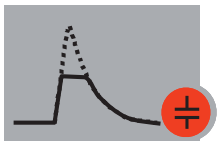


■ Pulse 2a

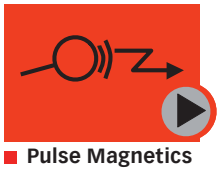


■ Pulse 3a/3b

■ Pulse 4



■ Pulse 5

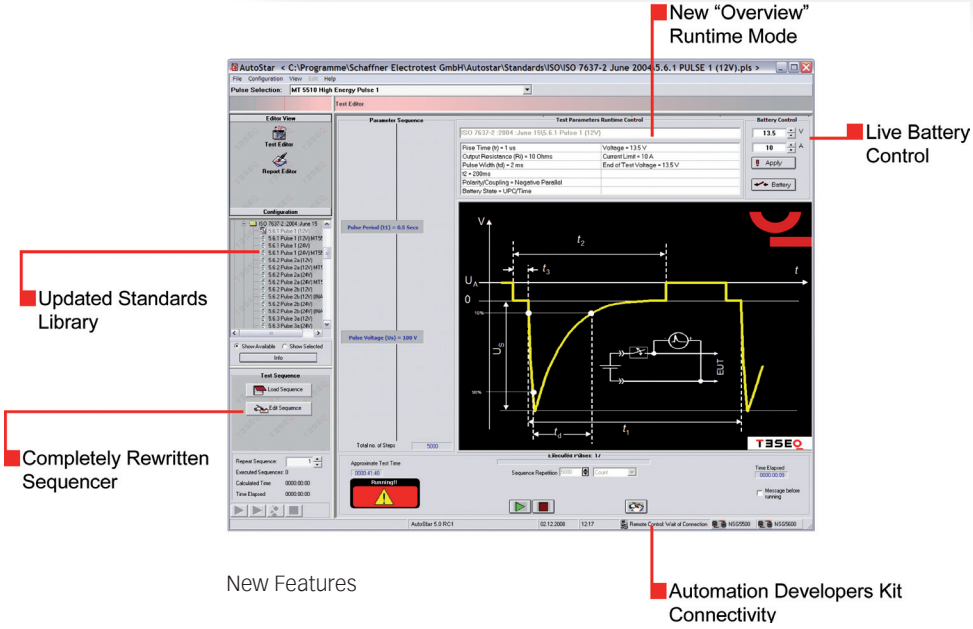


■ Pulse Magnetics

■ More

New in AutoStar 5.0

Now in its fifth release, AutoStar has always been the leader in usability, features and conformity. Simply put, AutoStar and the NSG 5000 series have always done more: automatic configuration, a huge feature list, customization and of course, tying dissimilar devices together in a uniform immunity solution.



New Features

Exclusively for use with the NSG 5500, NSG 5600 and a Power amplifier (PA).

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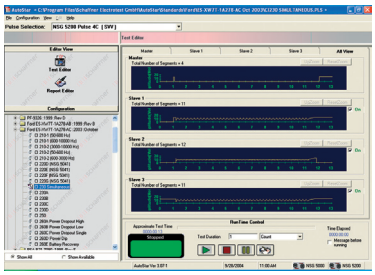
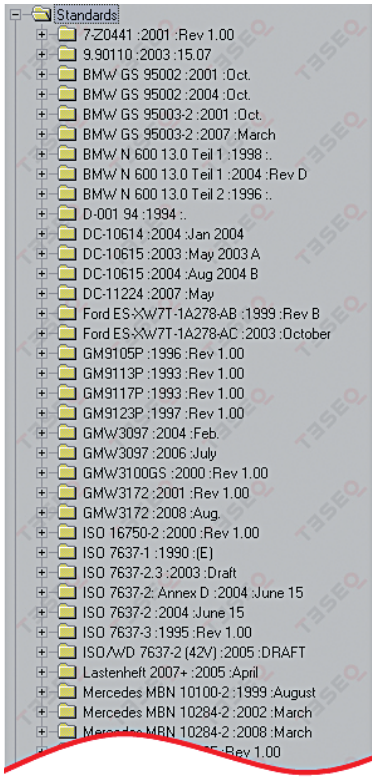
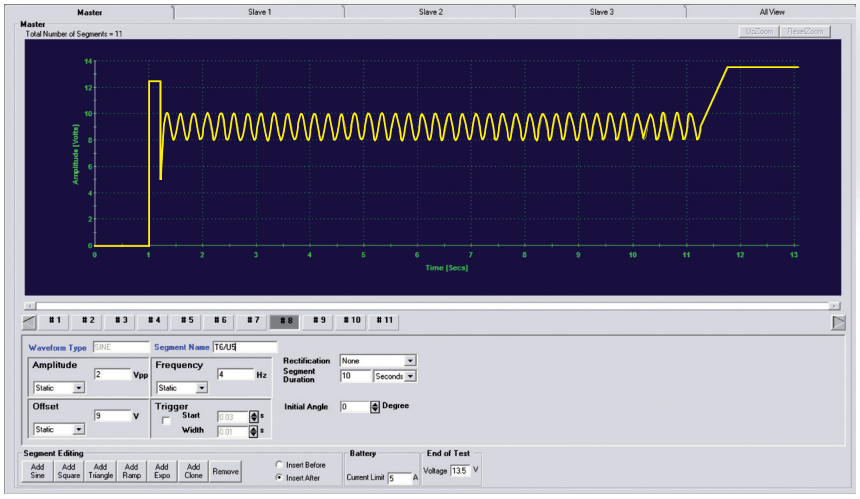


- **More than 1000 pre-programmed tests**



- **Largest Standards Database Update ever.**



Still supporting the best-in-class function generator from the NSg 5600 in an easy-to-use interface

AutoStar 5.0 goes even a step farther in advancing the state of the art for conducted immunity software with advanced usability features and real-time control.

Standards Database

The standards database is updated to include to the latest revisions of many manufacturer standards, including several new for 2008 standards.

Sequencer

For users with very complicated testing requirements, the brand new sequencer allows for building of complex test sequences using an updated user interface. The sequences are stored easily and can be run with custom dialogs or no user intervention at all! Of course a full test report is generated of the entire sequence.

Battery Settings

More and more standards have very tight tolerances on battery voltage during the test run. AutoStar 5.0 includes live single-click adjustment of battery levels in 100 mV steps.

Live Run Time Overview

AutoStar 5.0 now provides a runtime mode that shows, at a glance, all of the parameters during transient testing. No searching through various tabs to find the selected parameters!

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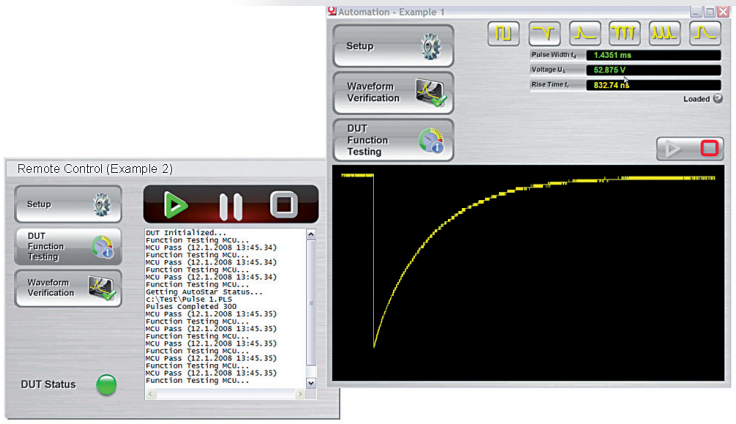
Automation Function



In the automotive world, with long test and complex DUT functionality, the need for automation has never been greater. One of the most requested features, AutoStar now provides a simple but powerful set of commands that allow AutoStar to be automated. This allows to integrate AutoStar control into their in-house test routines. Using the TCP/IP protocol and ActiveX components, this powerful feature enables customers to write their own custom automation tools.

Automation tools can be:

- Function testing of the DUT
- Two-way communication with AutoStar to load tests, query status of the test, fail the DUT
- Pulse verification written for the user's own oscilloscope or other test equipment
- Remote control and test monitoring

AutoStar Overview

AutoStar is more than just an operating program for test routines – it is, in fact, a test management platform for full control of the capacitive discharge transient simulations, supply voltage variations and other automotive immunity tests. AutoStar supports test sequencing, reporting and device under test evaluation.

Based on the concept of an open system, AutoStar integrates all the generators and other circuitry present in the installation into a consistent and uniform graphical user interface. AutoStar presents the operator with a clear, structured, visual interface with menu bars, test lists, test sequence information and graphical pulse information.

Low-level hardware-associated tasks, together with time-critical control matters, are managed at the chassis controller level; AutoStar provides to the user a simplified, graphical means of setting up and

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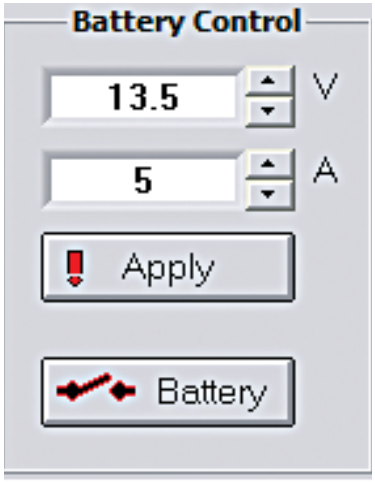

■ **Realtime Battery Control**

starting complex testing. Graphical displays are important for all testing, particularly in applications with complex supply voltage variations. For transient tests, the user has available, at a glance, the capabilities of the selected test, including rise times, peak voltage, pulse widths and output resistance. For voltage variations, AutoStar supports a unique single-click programming ability and features linear or logarithmic scaling and a zoom functionality to ensure a clear overview of the whole test sequence and an opportunity to check details. Other tests are also clearly and graphically presented.

The test library contains not only the preprogrammed test routines in accordance with international standards such as ISO and SAE, but also test conditions that conform to a wide range of manufacturers' in-house standards. The user can implement these tests directly, modify them and store them under a new designation or create new test definitions from the ground up and include them in the list as well. The standards are pre-programmed in a separate database for the ability of updating the standards independently from the rest of the software. Updates are continually made available at the Teseq automotive website for download. Sequences consisting of tests of the same or differing categories can be arbitrarily merged and then also be stored for later use. The user guidance facility provides information regarding available parameters and includes a protective feature against prohibited parameter combinations with appropriate warning flags.

Test evaluation and reporting. Reports concerning individual tests and test sequences are produced automatically and are in a form which can be used for technical files and quality assurance documents. The user is provided with a range of editable fields for remarks and specification of the task at hand. AutoStar supports both an internal report, and the ability to use Word. Using the template feature of Microsoft Word, the reports can be customized using the company logo and contact information of the end user. AutoStar supports multiple templates so that the header of the report can be further customized for special needs.

Auto-configuration. At startup, the software automatically detects and recognizes the modules and other elements that are present in the system. This auto-configuration feature provides the user with all the available functions automatically. The test configuration can also be selected manually which is used to make a conscious limitation on the functions available and particularly for off-line operation. This mode of operation enables test routines to be prepared in the office without the test system connected.

AutoStar 5.0 Highlights at a glance:

- Totally updated standards database, now with more than 1000 tests!
- Supports developers with the optional Automation Developers Kit
- Adjust the battery voltage real-time
- Totally new sequencer for improved usability
- Test parameters are visible throughout the transient test run
- All transients, parameters and settings at your fingertips
- Unique WYSIWYG wave editor
- Unifies all features of the NSG 5500, NSG 5600 and PA series in one easy-to-use platform

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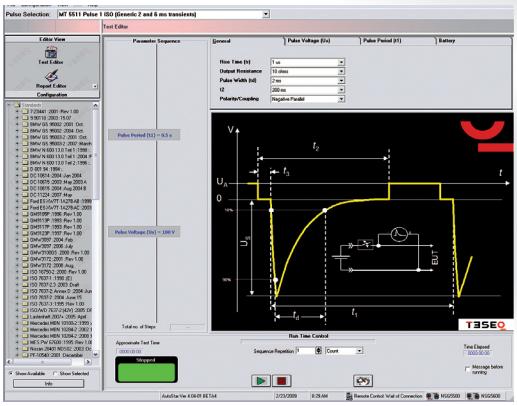
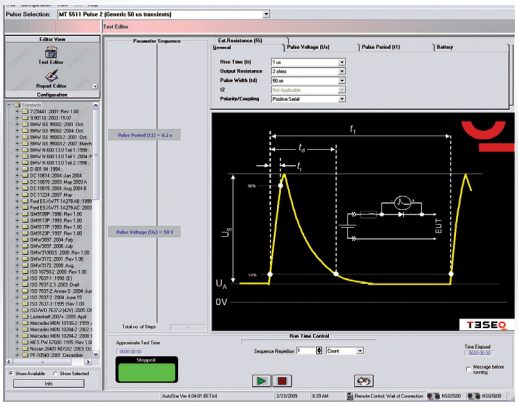
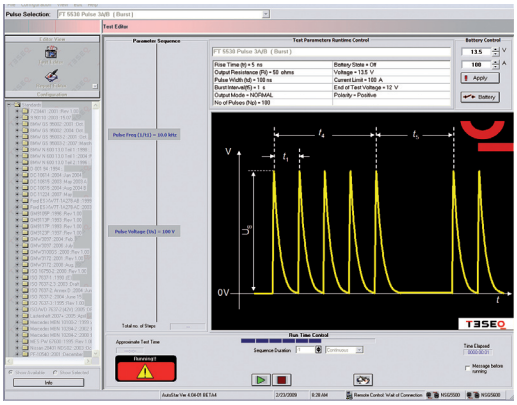


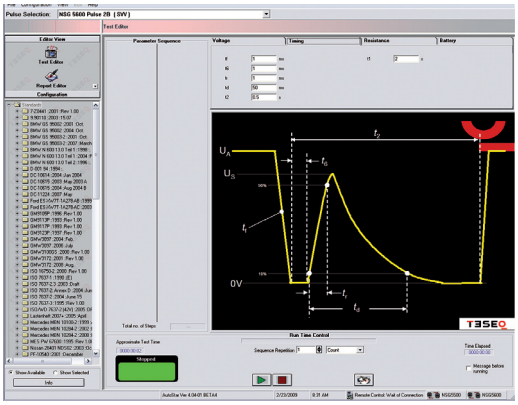
Pulse 1 Screen



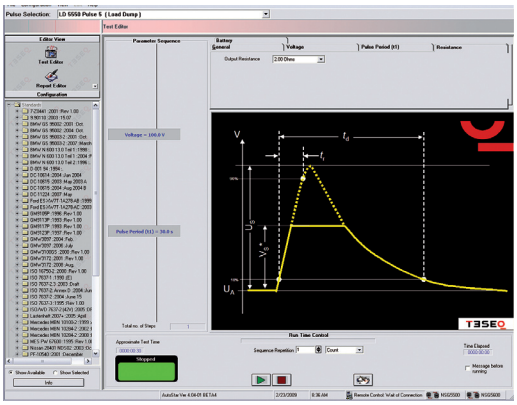
Pulse 2a Screen



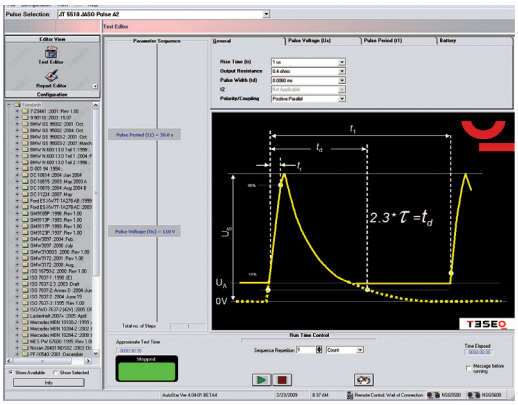
Pulse 3a/3b Screen



Pulse 2b Screen



Pulse 5a/5b Screen



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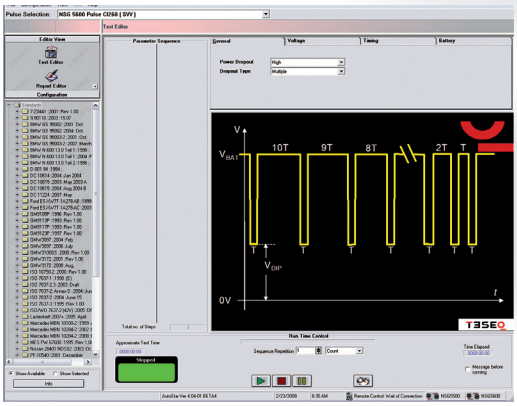
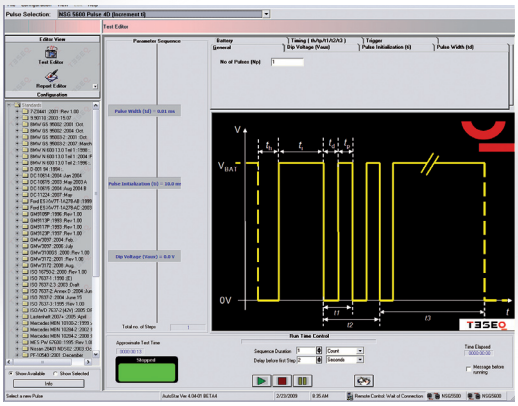
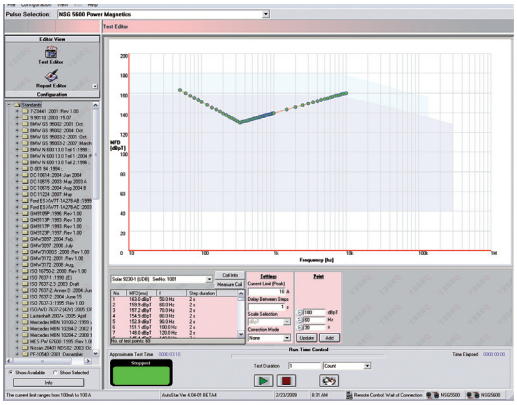


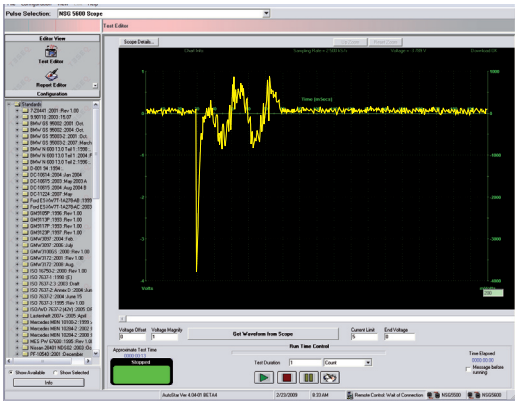
Complex Dips and Drops Screen



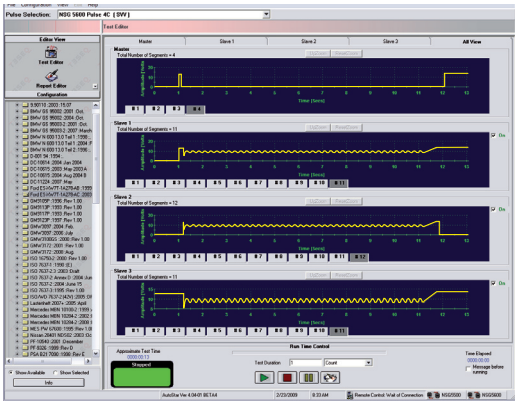
Other Dropout Tests with Delay



Power Magnetics Screen



Clone™ Screen



Function Generator Screen (Pulse 4 etc.)

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691-160B March 2009