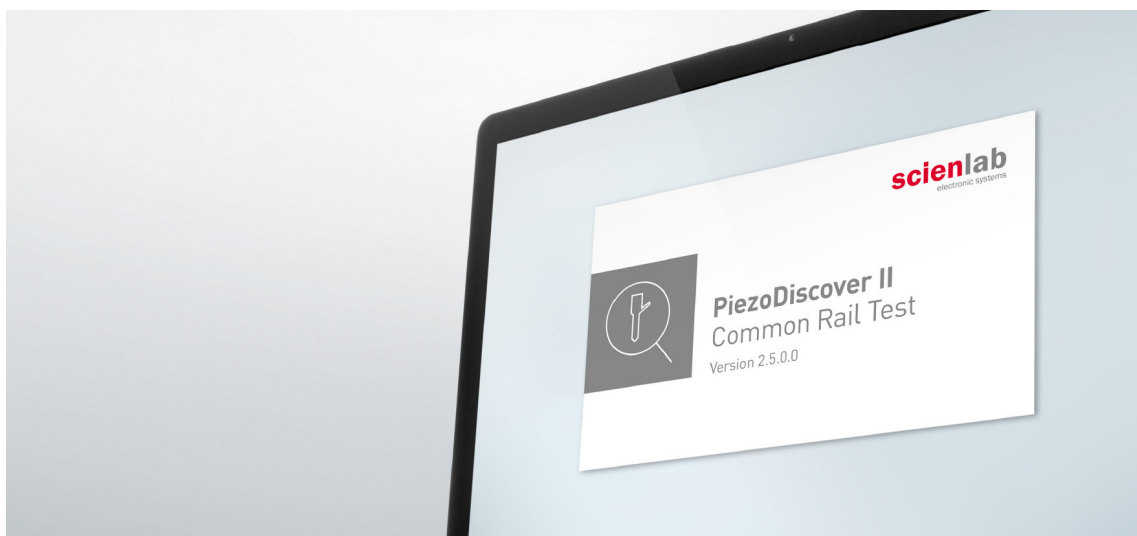


## Software PiezoDiscover II

### Greater comfort for test bench control



Scienlab offers an extensive range of globally employed test systems for verifying the actuators and injectors used in Common Rail applications. A central component of these test systems is the PiezoDiscover II software, which is used for system control. The tests performed must meet extremely stringent requirements. The demands on the software are therefore correspondingly high: it must allow both convenient parametrization as well as intuitive test control. Other requirements include visualization of the test results and flexible handling in accordance with user wishes.

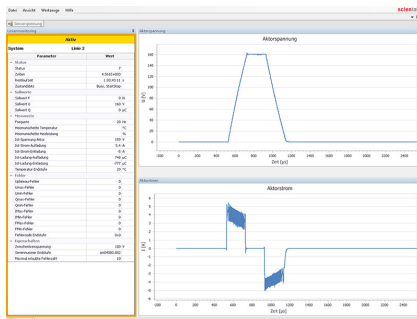


#### PiezoDiscover update

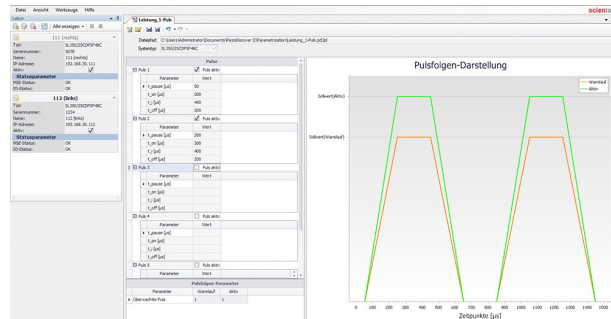
Customers who already work with Scienlab systems value the Scienlab software PiezoDiscover as established software. Scienlab now offers a comprehensive update. Additional services and enhancements based on daily communication with customers have been integrated in PiezoDiscover II. Thanks to its modular design, the update can be easily adapted to customer-specific needs (e.g. patented systems, system types). This also includes the freely configurable GUI layout. All the important functions can be accessed with just a few clicks.

## Advantages of the PiezoDiscover II update

- Programming under Windows .NET means that the software is also available for future updates
- Stable and fast data transfer to the hardware via Ethernet (Control Unit update required)



New possibilities with PiezoDiscover II: the oscilloscope function



Important software functionality: display of pulse sequences

## Advantages of the software at a glance

- Individual parametrization of the test sequences of all amplifiers:
  - Possible definition of closed-loop control strategies (voltage, charge, energy)
  - Possible definition of number and parameters of injection pulses (charging, injection and discharge time)
  - Voltage, charge, energy, pulse time
- Definition of limit values guarantees safe testing of specimen
- Individually configurable storage of specimen-relevant data
- Simultaneous triggering of several actuators
- Status overview of all connected test systems and the test process
- Individual view of all selected amplifiers, including all main parameters
- Definition of any number of test configurations
- Fully automatic test sequence execution
- Fully automated test equipment monitoring

## Additional options with PiezoDiscover II

- Real-time tracking of amplifier/actuator behavior using the oscilloscope function, data can be saved as .csv file, separate oscilloscope is no longer required at the test bench.
- Connection and control of additional peripheral devices (e.g. climate chamber, temperature controller)
- Pre-fault trigger: images are automatically saved before deactivation due to faults
- Recording of two additional inputs alongside DUT current/DUT voltage signals (e.g. force, temperature, pressure, ...)
- Steps tests: several sequences can be executed with setpoint values
- Improved sequence control (climate chamber, pulse) with setpoint values: more data input options, simplified data input. Driving profiles (setpoint values and injection times) including ambient conditions (climate chamber) can be simulated.

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**Are you interested in the PiezoDiscover II software?**

The Scienlab team will gladly provide you with further information, also for your individual requirements.

You can contact us at sales@scienlab.de