

RTStand LV 124

Automated testing systems for LV 124 / LV 148 automotive norms

LV 124 / LV 148
TESTING



μfi ULTRA FAST
INTERRUPTER



RTStand
HIL TEST AND SIMULATION

Tube
Analyzer



AUTOMOTIVE TESTING

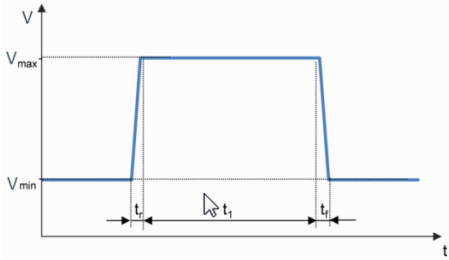


INDUSTRIAL
AUTOMATION

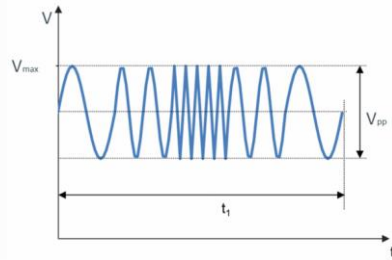


LV 124 / LV 148 – Electrical tests for automotive validation

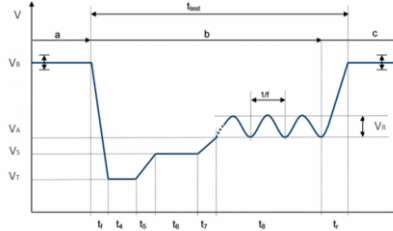
Test requirements for components in order ensure a failure-free behaviour under all circumstances:



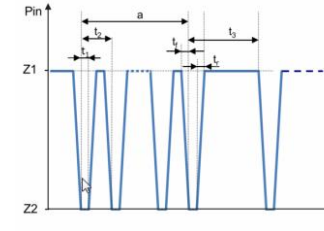
transient voltages



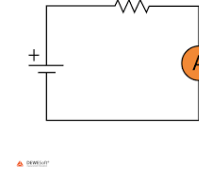
superimposed voltages



startup voltages



pin interruptions



current measurements



climate tests

Similar norms for electrical tests:

ISO 16750

Mercedes MBN LV124

Volkswagen VW 80000

MAN 3499

General Motors GMW 3172

DaimlerChrysler DC10615

BMW GS 95024-2-1

Renault 36-00-808

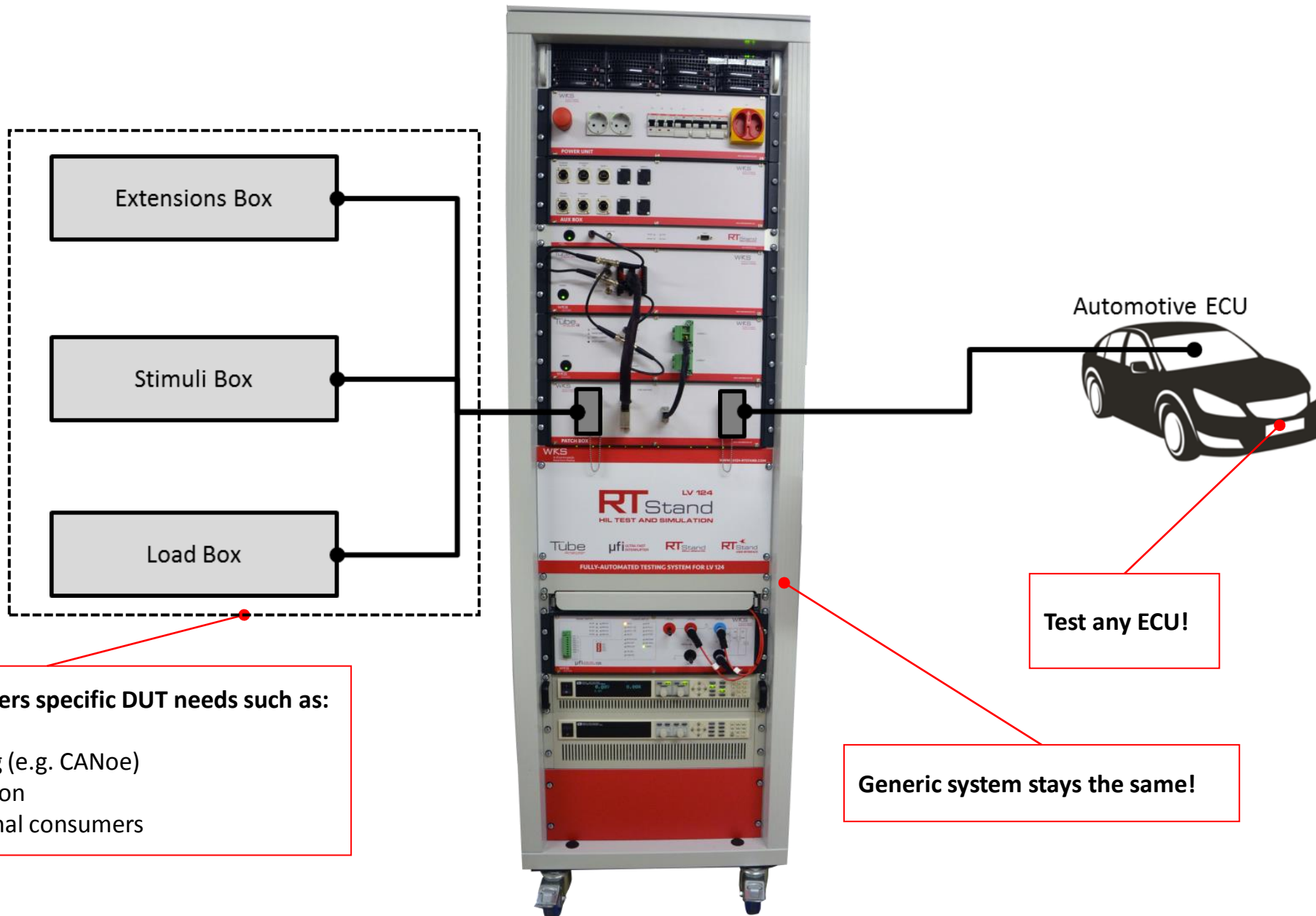
VDA 320

Volkswagen VW 82148

Nissan..

Etc.

RTSTAND LV124: GENERIC CONCEPT



Extensions Box

Stimuli Box

Load Box

Automotive ECU

Test any ECU!

Generic system stays the same!

Is ECU specific and covers specific DUT needs such as:

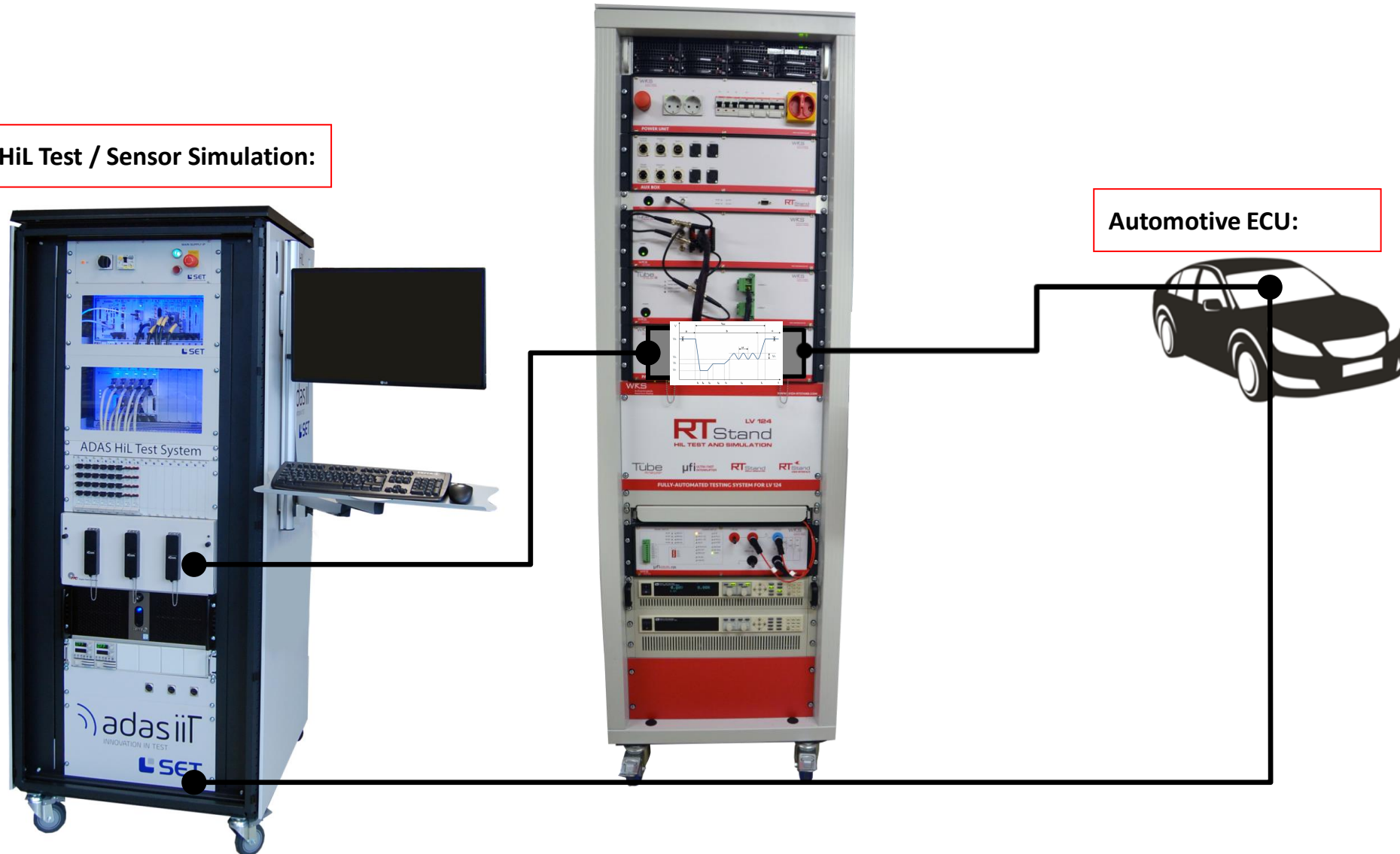
- Fieldbus monitoring (e.g. CANoe)
- Additional stimulation
- Simulation of external consumers

RTSTAND LV124: ADAS IIT INTEGRATION CONCEPT

Electrical validation:

HiL Test / Sensor Simulation:

Automotive ECU:



RTSTAND LV124 FOR LIDAR – BOTTOM LINE

Testing Benefits

- **Modularity and scalability of test system**
- **Eliminate failures due to human error**
- **Performing tests always in the same way**
- **Coverage of all LV124 tests and prepared for any other voltage waveform test**
- **Faster analysis of test sample issues after test loop**
- **Flexibility in test sequence creation and adaptation with RTStand / NI TestStand™**



CUSTOMER FEEDBACK

“We have **reduced the overall testing time to a half** compared to the previous manual testing and currently **save 150.000 EUR** for the LV124 testing of every several new software releases of our product”

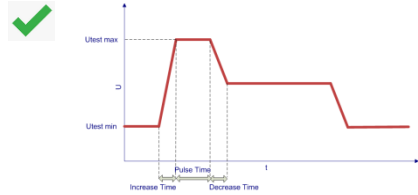
- multinational automotive supplier

Customers testing with RTStand LV124:

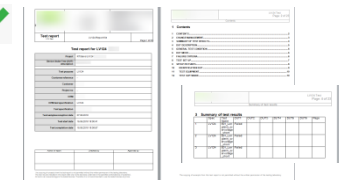
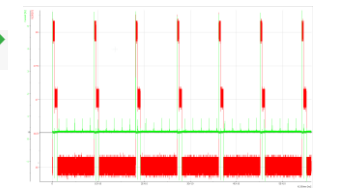
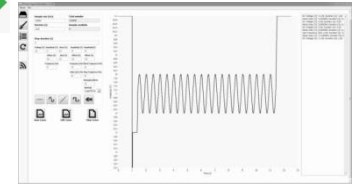
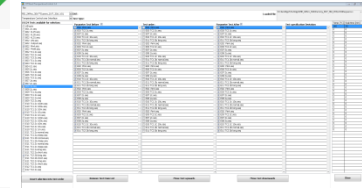
The logo for Valeo, featuring the word "Valeo" in a green, sans-serif font with a blue swoosh underneath.The logo for SMI Automotive, featuring the letters "SMI" in a stylized red font with a red arrow pointing upwards, and the word "AUTOMOTIVE" in a smaller red font below it.The logo for bertrandt, featuring the word "bertrandt" in a black, lowercase, sans-serif font.The logo for GEBRA, featuring the word "GEBRA" in a green, bold, sans-serif font with a red triangle at the end of the "A".The logo for PORSCHE, featuring the word "PORSCHE" in a black, uppercase, sans-serif font.The logo for brose, featuring the word "brose" in a red, lowercase, sans-serif font with the tagline "Technik für Automobile" in a smaller red font below it.The logo for PID Test & Engineering, featuring a yellow square icon with a black "P" inside, followed by the letters "PID" in a bold, black, sans-serif font and the words "TEST & ENGINEERING" in a smaller black font below it.The logo for DIODES INCORPORATED, featuring the word "DIODES" in a large, blue, bold, sans-serif font with the word "INCORPORATED" in a smaller blue font below it.

TRUE AUTOMATION

Component Setup – NO AUTOMATION



RTStand LV124 – FULLY-AUTOMATED



Easy and fast system reconfiguration for various kinds of DUTs

Flexible test definition with climate chamber control for all tests, incl. Parameter tests / Function tests

Arbitrary pulse library and generation

Generation of non-arbitrary tests (interruptions, short-circuits, sleep currents etc.)

Time-synchronous measurements on all voltage and current pins up to 150A (sleep to transmit, seamless) with 100kHz per pin

Automated reporting

**READY-TO-USE
24/7**

WANT TO LEARN MORE?

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