

SOFTWARE FOR AUTOMATED HARDWARE TEST

From instruments on a bench to a test stand that runs itself.

EBE Test Executive Suite is the software that turns test equipment into a complete, repeatable test system — build the test, run it, guide the operator, watch the whole lab, replay any run — with no scripting language and nothing in the rack to replace.

One workbook

defines the whole test — sequence, signals, limits

No code

guided editor; engineers author, operators run

Any instrument

with a programmatic interface — new or already owned

One dashboard

for every station in the lab, on their network

Why customers buy it

A running test in days, not months

Tests are built in a guided editor from typed steps — no proprietary scripting, no custom framework to maintain. A built-in engineering agent drafts instrument command sets and limits from documentation.

The same result on every shift and station

Operators follow guided screens with live readouts and Start / Abort. The sequence enforces every limit and records every step — a lab procedure becomes a production procedure without a rewrite.

Proof of what happened

Every instrument reading is logged; safety limits watch continuously; a failure can be replayed with synchronized video down to the second. Nothing passes silently.

How it works

1 Author

Engineers define instruments, signals, limits and the sequence in a guided editor.

2 Run

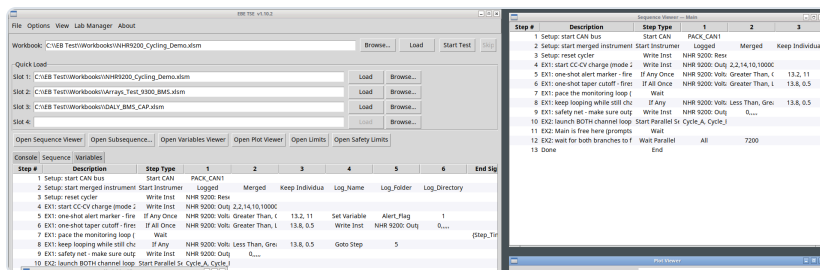
The test executive connects the instruments and executes the sequence, logging everything.

3 Guide

Operators see a clean panel — instructions, live meters, pass / fail — built by drag and drop.

4 Monitor & review

Every station on one dashboard; any run replayed with data and video together.



The test executive mid-run: sequence, live variables, safety limits and plot on one station

"Everything above was bought for the price of software."

Tier-1 automotive supplier — traction pack end-of-line stand. New tests added, both existing cyclers kept, no hardware replaced.

Typical applications: battery and power electronics test, CAN device validation, environmental and endurance programs, production and end-of-line verification.

Where it fits

NEW EQUIPMENT, NEW STAND

Instruments become a test system

The equipment being quoted, a standard Windows PC and the suite: the customer gets a working stand with guided operator screens instead of a box of instruments and a scripting project.

NEW EQUIPMENT, EXISTING STAND

Add without ripping out

The suite drives the new instrument and everything already in the rack — other vendors' supplies, loads, chambers, CAN devices and I/O — from one test. No forced fleet replacement.

SEVERAL STATIONS

A lab, not just a bench

Every station reports to one dashboard: status, history, analytics, remote control and an audit log. Engineers see faults as they happen; managers see utilization.

What the customer gets

EBE Test	The test executive. Runs the sequence, talks to every instrument (CAN, VISA, serial, SCPI over Ethernet, Modbus, NI DAQ), logs everything, enforces limits.
Sequence Editor	Code-free authoring: typed steps, guided pickers, parallel branches, conditions and loops.
Prompt Builder	Drag-and-drop operator screens: instructions, live meters, indicators, waveforms, Start / Abort. Runs inside EBE Test.
Lab Manager	Multi-station dashboard on the customer's network: live status, history, analytics, roles and audit log.
EB Playback	Replay any run — logged channels and station camera video time-aligned; trim and export for failure reports.
EVA	Built-in AI engineering agent: drafts instrument drivers and limits, reviews sequences, diagnoses failures from logs. An engineer approves every change; runs on the customer's own LLM server, so data stays on-site.

What sets it apart

- **Unbundled.** Software on a standard PC driving instruments over documented protocols — hardware is chosen on merit, and evaluated without a capital project.
- **Mixed fleets are the normal case.** Thirteen interfaces on one stand is a reference, not an exception.
- **Operator-ready from day one.** Guided screens and enforced limits are built in, not a second project.
- **Visible failures.** Per-step logs, continuous safety limits and synchronized replay — the stand can say what it got wrong.
- **AI where it helps, engineers where it matters.** EVA accelerates new work; hardware validation stays with the engineer.

Good to know

- Signed Windows applications on a standard PC — no interpreter or dependency setup on the test computer
- Runs entirely on the customer's network; logs are plain CSV and results can feed existing databases and reports
- Proven on production end-of-line stands with plant traceability and in engineering labs
- Available now for evaluation on the customer's own bench, with their own instruments
- Engineering support from the team that builds it — integration, sequence development, deployment

Next step: an evaluation on the customer's bench

Their instruments, their test, a working stand — that is the demonstration. EB Engineering supports evaluations directly.

Request an evaluation → eb.engineering/contact/evaluation