

TEST EXECUTIVE · SEQUENCER · OPERATOR DISPLAYS · LAB DASHBOARD · RUN REVIEW

# Automated hardware testing, from sequence to station to lab.

Build tests in a guided sequence editor, run them over CAN, VISA, and serial with instruments from any supplier, give operators clean guided displays, and watch every station in your lab from one dashboard.

## Runs on the hardware you already own

Standard Windows PC. Any instrument with a programmatic interface — no bundled controller, no forced fleet replacement.

## Tests anyone can run, repeatedly

Guided prompts and live displays turn an engineering test into a production or lab procedure with the same result every time.

## Nothing fails silently

Per-step instrument logs, limit checking, safety limits and synchronized playback show exactly what happened — and why.

## One platform, five applications

### RUNTIME

#### EBE Test

The test executive. Loads the workbook, connects instruments, runs sequences step by step with live logging, pause, skip and abort.

### AUTHORING

#### Sequence Editor

Code-free authoring with typed steps and guided cell builders. Signals, variables, instruments and limits in one place.

### OPERATOR DISPLAYS

#### Prompt Builder

Drag-and-drop prompt pages with live readouts, meters, indicators and waveforms bound directly to test variables.

### LAB DASHBOARD

#### Lab Manager

Every station on one screen: live status, remote run control, history, analytics, workbook distribution, roles and audit log.

### RUN REVIEW

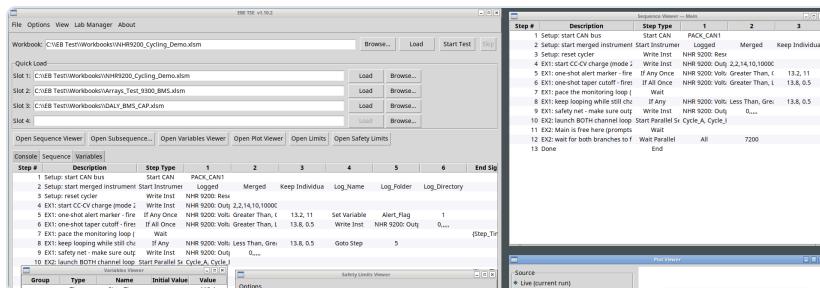
#### EB Playback

Scrub through logged channels and time-aligned video after the run. Trim regions, export data and clips.

### BUILT IN · RUNS ON YOUR LLM SERVER

#### EVA engineering agent

Reviews sequences, proposes step-level changes you approve before they apply, and analyzes logs to find failures and timing issues.



EBE Test runtime — sequence viewer, live variables, safety limits and plot viewer during a CC-CV cycling run

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

Tier-1 automotive supplier — traction pack end-of-line stand retrofit: thirteen interfaces, both cyclers retained, no new hardware.

## Built for

- Battery and power electronics test
- CAN-based device validation
- Environmental and endurance testing
- Production and end-of-line verification

## How a test moves through the suite

|                                                                                                         |                                                                                     |                                                                                                   |                                                                                        |                                                                                            |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>1 Author</b><br>Define instruments, signals, variables, limits and sequences in the Sequence Editor. | <b>2 Design</b><br>Build operator prompt pages and live displays in Prompt Builder. | <b>3 Run</b><br>Load the workbook in EBE Test, connect instruments, execute with full visibility. | <b>4 Monitor</b><br>Watch live status and results across every station in Lab Manager. | <b>5 Review</b><br>Replay data and video together in EB Playback; ask EVA what went wrong. |
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### Interfaces and instruments

Mix suppliers freely in a single test. If it has a programmatic interface, EBE Test can drive it.

|                      |                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------|
| <b>VISA</b>          | GPIB, USB, LAN and serial (RS-232) instruments — SCPI power supplies, loads, meters, cyclers     |
| <b>CAN / CAN FD</b>  | NI-XNET and Vector interfaces, DBC-defined signals, J1939 frames, UDS diagnostics, raw frames    |
| <b>SCPI over TCP</b> | Ethernet instruments and chambers with ASCII command sets (e.g. NHR 9300, GW Instek, Thermotron) |
| <b>Modbus</b>        | Relay and I/O modules, annunciators, plant I/O                                                   |
| <b>NI DAQmx</b>      | cDAQ analog and digital I/O for sensors and switching                                            |
| <b>Other</b>         | USB barcode scanners, RTSP cameras, custom TCP servers, network shares and SQL databases         |

### Data and review

Continuous instrument logging with per-sequence tagging and configurable rates. CSV output you can open anywhere. EB Playback replays stacked channel lanes with a cursor readout, time-aligned camera video, region trimming and data/clip export.

### Operators

Prompt Builder pages run inside EBE Test: instructions, confirmations, live variable readouts, indicators, meters and waveforms — bound directly to test variables, previewed as you build.

### Lab scale

Each station runs an agent that streams status to Lab Manager over WebSocket. Remote run control, test history, charts and analytics, workbook distribution, user roles and an audit log — on your network.

### EVA — the built-in engineering agent

- Draft instrument drivers
- Extract limits
- Review sequences
- Diagnose failures
- Approve before apply

EVA understands the same instruments, variables, limits, steps and runtime logs the applications do. It drafts instrument command libraries from manufacturer documentation, extracts limits from datasheets, reviews sequence logic against runtime logs, and proposes corrections. Every change is previewed and approved by an engineer before it is applied. EVA runs against your own LLM server, so test data stays on your network.

## Ready to see it on your bench?

Signed Windows applications on a standard PC. Evaluate on your existing stand, with your existing instruments — no capital request required.

**Request an evaluation → [eb.engineering/contact/evaluation](https://eb.engineering/contact/evaluation)**