



WORLD-LEADING EV BATTERY
STATE-OF-HEALTH TESTING
& ROOT CAUSE FAILURE
ANALYSIS



AUTOCRAFT
EV Solutions



OptEVizer® - A COMPREHENSIVE SUITE OF EV BATTERY TESTING EQUIPMENT FOR SALVAGE YARDS, GARAGES, WORKSHOPS & BATTERY REPAIR CENTRES



SAFETY CONDITION ANALYZER:

Fast, Portable, Safety Diagnostics for Salvage Yards, Repair Centres & 2nd Life Integrators

OptEVizer® SAFE SCAN is designed to quickly assess the safety and condition of high-voltage batteries, whether they remain fitted to the vehicle or have already been removed. Ideal for salvage yards, repair centres and vehicle recovery operations, SAFE SCAN delivers a comprehensive battery assessment in less than 10 minutes, helping operators determine if a battery is safe for storage, workshop handling or shipment under ADR regulations.

Using direct communication with the Battery Management System (BMS), SAFE SCAN analyses battery contactors, cell status, internal temperature sensors, State of Charge (SoC), diagnostic trouble codes (DTCs) and checks activation of the high-voltage circuit. Clear OK/NOK results enable rapid triage of crash-damaged vehicles, ensuring only vehicles with safe and stable batteries are transferred into workshop environments.

Supporting safe decision-making and regulatory compliance, SAFE SCAN provides a Comprehensive Pack Diagnosis, including State of Health (SoH) assessment and ADR Compliance Reporting. Results are automatically uploaded to the Autocraft Cloud, where detailed reports are generated and emailed directly to users.

- Battery safety assessment in under 10 minutes
- Clear OK/NOK battery status
- Checks activation of the high-voltage circuit
- Reads and records fault codes



- Isolation resistance verification
- Battery case integrity leak testing
- Lightweight, portable design, with internal rechargeable battery for up to 8 hours of remote use

Delivering fast, reliable battery safety diagnostics, OptEVizer® SAFE SCAN removes uncertainty from EV battery handling while improving safety, compliance and operational efficiency.



ULTIMATE PERFORMANCE ANALYSIS:

Battery Performance & Fault Analysis of HV Batteries for Dealers, Garages & Workshops

OptEVizer® PRO SCAN delivers highly accurate EV battery diagnostics, providing true State of Health (SoH) analysis and root cause fault identification down to cell level. Suitable for batteries in or out of the vehicle, it connects directly to the battery to assess real-world performance without relying solely on BMS data.

Using dynamic load testing and advanced analytics in the OptEVizer® Cloud, PRO SCAN compares true battery performance against Autocraft's industry-leading Digital Twin technology. This enables technicians to identify faults, understand battery repairability and make confident decisions based on a true picture of battery condition.

- Dynamic load testing with vehicle simulation
- True State of Health (SoH) assessment
- Patented Root Cause Analysis
- Cell-level fault identification & advanced pack diagnostics
- Battery testing in or out of vehicle
- Risk Indexing for insurance assessment
- Optional repair process guidance & OEM-quality reassembly tooling



OptEVizer® PRO SCAN delivers industry-leading battery diagnostics, combining true SoH analysis with cell-level fault identification to support smarter repair, replacement and insurance decisions.

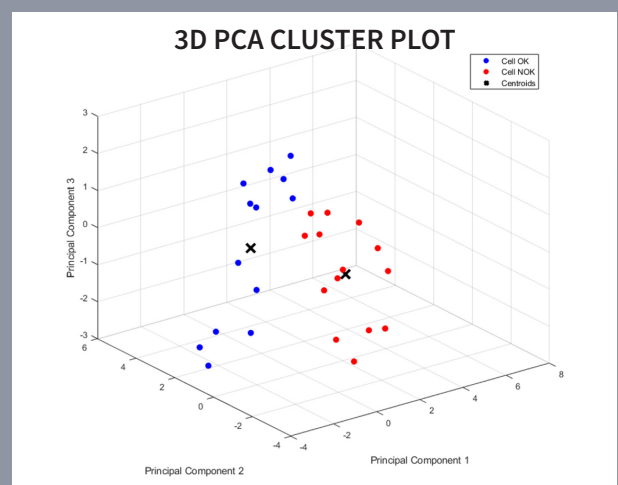


ULTIMATE LATENT DEFECT DETECTOR:

The ultimate in world-leading dynamic testing, capable of finding latent defects deep inside cells and modules, which if left to manifest can result in thermal runaway.

Autocraft's OptEVizer® LATENT-IQ™ provides early-warning system for latent battery faults missed by conventional testing. LATENT-IQ™ is a breakthrough diagnostic test that identifies latent cell-level faults in high-voltage EV batteries before they escalate into safety risks or unnecessary scrappage.

LATENT-IQ™ can detect hidden battery faults, such as torn tabs, separator damage, cracked welds and other internal defects, that conventional testing or BMS diagnostics cannot detect with enough accuracy and reliability.



OptEVizer® LATENT-IQ™ is available today exclusively through Autocraft's REVIVE® outsourced battery repair and remanufacturing service, operating in Grantham, UK and Arnhem, The Netherlands.

OptEVizer® Capabilities

S = Standard / O = Option O* Optional equipment available for rent		15kW / 920V
	OptEVizer® SAFE SCAN	OptEVizer® PRO SCAN
Battery In or Out of Vehicle	Both	Both
Safety State-of-Health Certificate incl. ADR Compliance Check	S	
Independent Performance State-of-Health Certificate		S
LV Communications (BMS) Test	S	S
Open Circuit Voltage (OCV) Analysis	S	S
DTC Fault Code Analysis	S	S
Battery Sensor Test	S	S
Isolation Test	S	S
High Voltage Contactor Test	S	S
Coolant Circuit Leak Test	S	S
Case / Enclosure Leak Test	S	O*
Module Cell Balance	S	O*
Module Microshort Test		S
Cell Voltage Harness Test		S
In-built G99 Controller for Export to Grid		S
Dynamic Load Test		S
High Current Pulse Test		S
Machine Learning with REVIVE® AI Analytics		S
Interactive Operator Guidance		S
DC Tooling Add-on Available		S
Optimised Repair Process	S	S
Upgradable to 30 kW		S
Upgradable to 60 kW		O
Upgradable to 120 kW		O
Standard Testing Time (Excluding Options and Leak Testing)		O
Electrical Installation Requirements		O
Upgradable to 60 kW		O
Upgradable to 120 kW		O
Standard Testing Time (Excluding Options and Leak Testing)	10 mins	30 to 60 mins
Electrical Installation Requirements	Portable Rechargeable Battery Powered	Min 3 Phase 32Amp

Autocraft EV Solutions Limited
Syston Lane, Belton
Grantham, Lincolnshire
NG32 2LY
United Kingdom

Autocraft EV Solutions BV
Cleantech Park (IPKW)
Westervoortsedijk 73
6827 AV, Arnhem
The Netherlands

PHONE +44 (0)1476 581300

EMAIL info@AutocraftEV.com

WEB www.AutocraftEV.com



AUTOCRAFT
Solutions Group