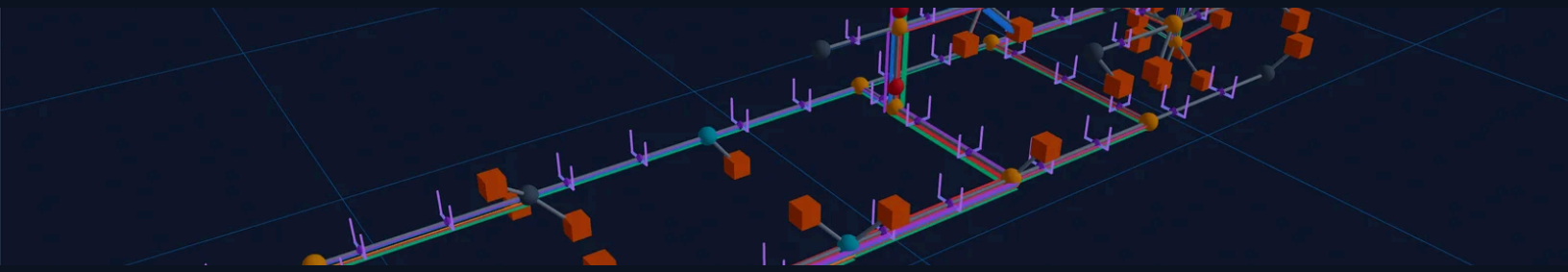
HIGH VOLTAGE TECHNOLOGIES · UNREAL ROUTING

Route the whole boat. Prove it complies.

Marine cable routing, compliance and shop-floor software: the tray network, every circuit, the electrical rules and the shop floor in one database — in the browser, AutoCAD, Navisworks and Revit.



THE APP'S OWN 3D VIEW · SYNTHETIC 280 FT SUPPLY VESSEL · 223 CIRCUITS ROUTED IN ONE BATCH PASS

26	4	~0.1 s	100k	4	~20
COMPLIANCE CHECKS UNDER USCG	RULE SETS: USCG, ABS, IEEE, IEC	TO ROUTE A CIRCUIT, 100K SHIP	CIRCUITS PER VESSEL, PROVEN	SURFACES: WEB + 3 CAD TOOLS	PRODUCTION EXPORTS

WHAT IT DOES

Routing that explains itself

One circuit in about a tenth of a second on a 100k-circuit ship, or the whole vessel in passes. A circuit that can't route names the rule and the runs that block it; one that can gets up to two legal alternatives.

Compliance, cited

USCG 46 CFR Subchapter J, ABS River & ICW, IEEE 45 or IEC — conductor size, emergency routing, OCPD, installed ampacity, fault withstand, penetrations, redundant feeders kept apart.

Change control

Approval locks a circuit. When the model moves, the database flags each approved circuit it hit and warns if it is already cut or pulled.

Hardware & penetrations

Hangers sized from the real bundle on every tier and kept clear of bends (FMD / RT&D or your catalog), Roxtec-style frames packed exactly, swage and nylon tubes, equipment entry prep.

Shop floor

Drum assignment, pull plans, QR pull sheets, install and test status per circuit, stop-work holds — ~20 exports from one database.

WHERE IT RUNS

Web app — the whole platform and the whole ship in 3D, nothing to install

AutoCAD 2020–2027 — 53 commands — sync, routing, true 3D, 2D drafting

Navisworks 2020–2027 — routes over the review model, refit capture

Revit 2020–2027 — native cable tray and conduit with fittings

Cloud or on-prem — vessel data on your servers; local sign-in never calls our cloud

Built for CUI programs — two-step sign-in, CUI markings on every output, session limits

WHO IT'S FOR

U.S. commercial yards (USCG-inspected, ABS River & ICW), defense shipbuilders and their electrical subs, marine electrical design firms, refit and repair yards.

Pilot program — prove it on one hull before you buy a seat.

01 One hull: your cable schedule and tray model, loaded from spreadsheets or your CAD tool.

02 A batch route of the whole vessel, checked against the rules you are inspected under.

03 Pull sheets, drum assignments and floor tracking run on your real data.

04 A straight answer on fit and a per-seat price before you commit.

Scan for the 60-second tour — or start a pilot.

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High Voltage Technologies LLC.
Demo data shown is synthetic.
Standards named are what the checks are written against, not certifications.