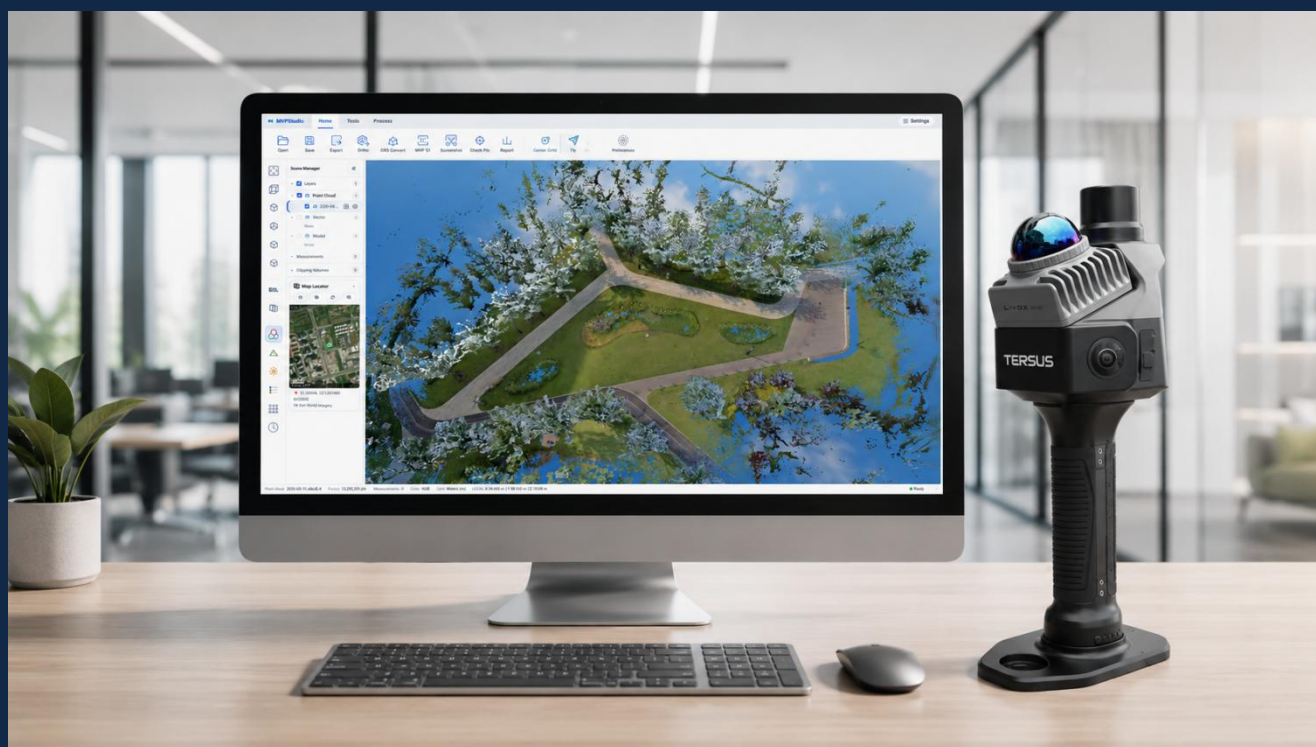




MVPStudio

THE PROFESSIONAL POINT CLOUD PLATFORM

Visualize · Measure · Extract · Deliver — one tool, from raw scan to CAD.



Powered by Tersus · Built for the MVP S1 Mobile Mapping System
Compatible with LAS and LAZ files from devices of any brand
Perpetual license · **Fully offline desktop** · **11 languages**

THE CHALLENGE

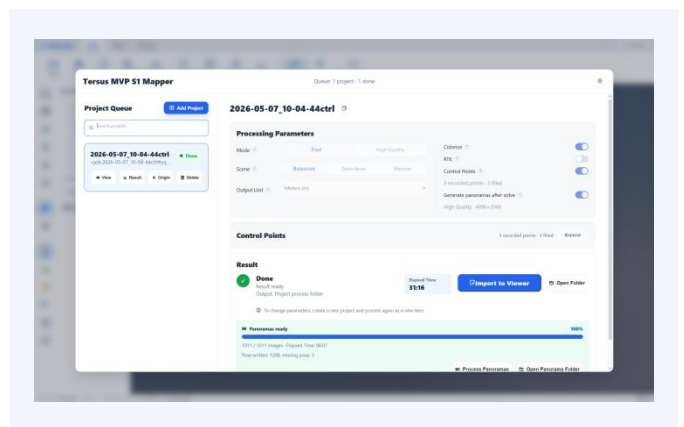
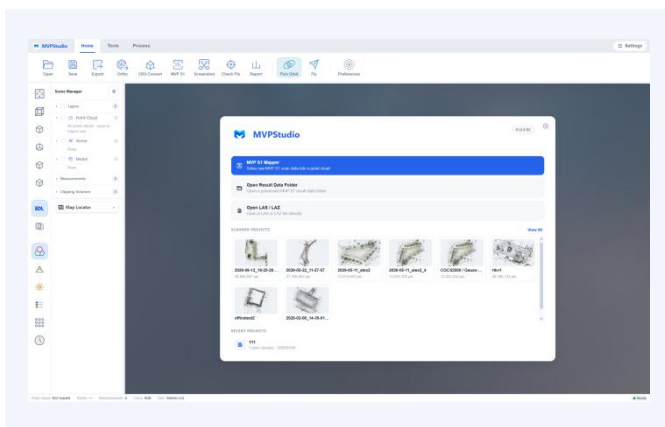
A Scan Is Not a Deliverable

MVPStudio turns raw MVP S1 scans into georeferenced, provable, CAD-ready deliverables — offline, end to end.

A scan is not the deliverable. Your clients pay for the answers inside it: Is it level and correctly georeferenced? What is the volume, the distance, the elevation? Where do the walls, curbs, and poles land as CAD lines? And can I trust the accuracy — and prove it?

Reaching those answers usually means routing raw data through three or four disconnected tools, with hours of cleanup in between. MVPStudio — the companion software for the Tersus MVP S1 handheld and mobile laser scanner — closes that gap in a single application that runs offline on your Windows desktop.

- **Answers, not point clouds.** Automatic leveling and georeferencing, real-time measurement of distance, height, area and volume, and R12 DXF drafting with real survey coordinates — the deliverables clients actually asked for, drawn straight from the cloud.
- **Accuracy you can prove.** Import known check points for GCP-style verification with live RMS and per-point deviation, then hand over a one-click Accuracy Report and a Transformation Report certificate that document every parameter behind the result.
- **One app, fully offline, yours to keep.** A hundred-million-point cloud streams smoothly with sub-pixel precision, in 11 languages, under a perpetual license with continuous updates — no cloud upload, no subscription, no data leaving your machine.



“Your client never paid for a point cloud. They paid for the answer inside it.”

THE PLATFORM

One Application. The Entire Workflow.

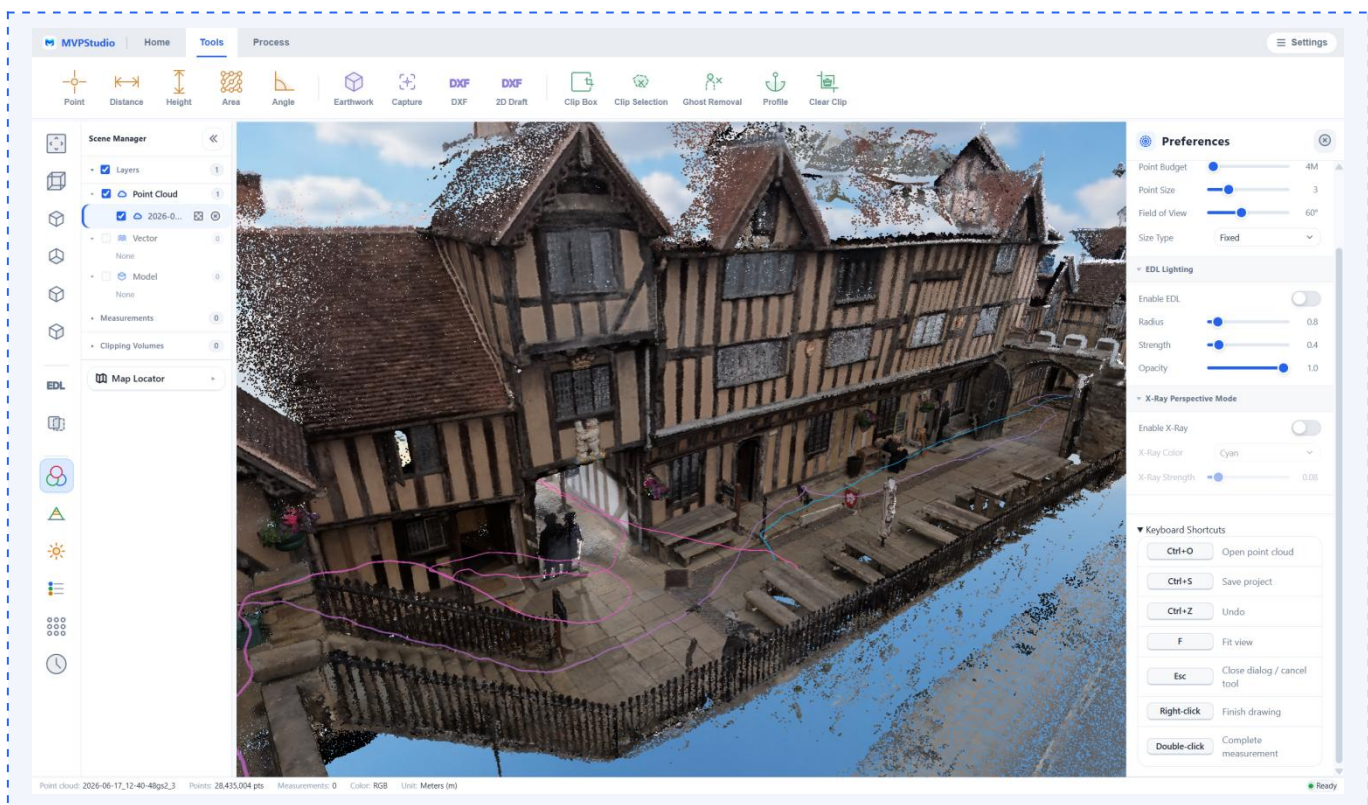
From raw scan to deliverable — one straight line.

MVPStudio turns the MVP S1 from a scanner into a complete surveying solution. Point it at a raw scan and it reconstructs a fully colorized point cloud and trajectory — level, georeferenced, and ready to work. From there, everything happens in a single modern interface.

- **100% local desktop app** — runs entirely on your machine, fully offline; your data stays private.
- **Built on the Potree octree engine** — streams hundred-million-point datasets smoothly.
- **11 built-in languages** — productive on day one, anywhere in the world.

1 CAPTURE → 2 SOLVE → 3 CLEAN & CLASSIFY → 4 MEASURE → 5 EXTRACT TO CAD →
6 TRANSFORM → 7 DELIVER

Every stage feeds the next — no re-importing, no format juggling, no lost coordinates.



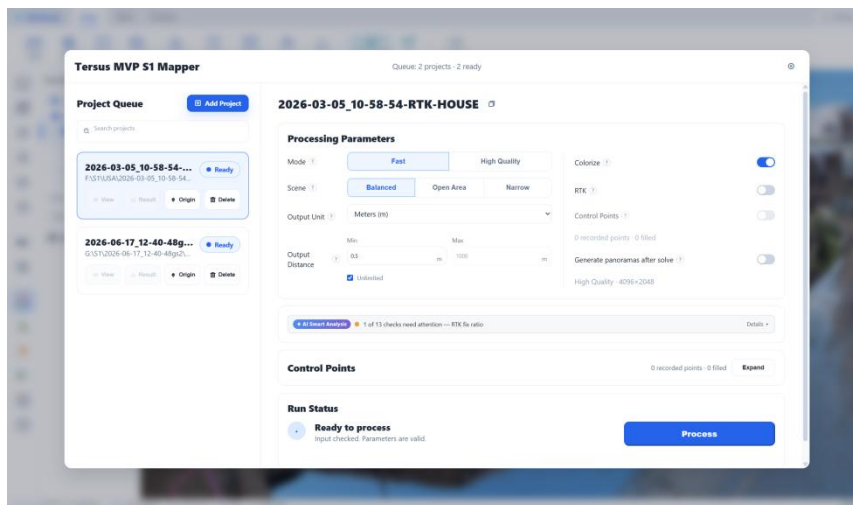
Raw Scan In. Beautiful Point Cloud Out.

Automatic solving, then visualization that is as clear as it is gorgeous.

Capture & Solve

The built-in MVP S1 Mapper solves raw scan data into a colored point cloud and trajectory through a guided four-step workbench — Select → Configure → Monitor → Results — with a multi-project queue for overnight batches.

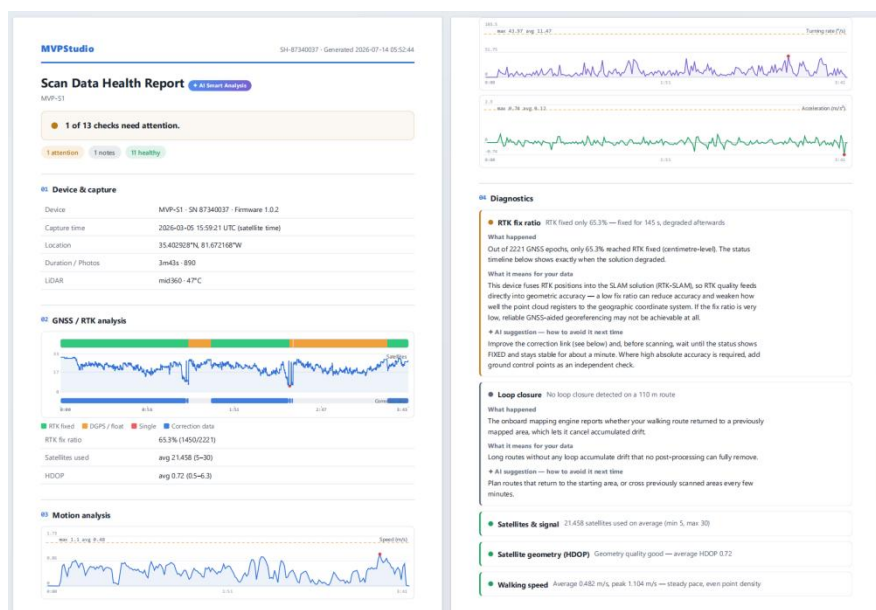
- **Scene & quality presets** — Balanced / Open Area / Narrow, Fast Preview → High Quality.
- **Automatic localization** — your cloud lands level and georeferenced, not tilted and adrift.
- **Control points & RTK** — anchored, checkable accuracy, plus one-click 360° panorama in the same solve.



Scan Doctor — AI Smart Analysis of Your Raw Data

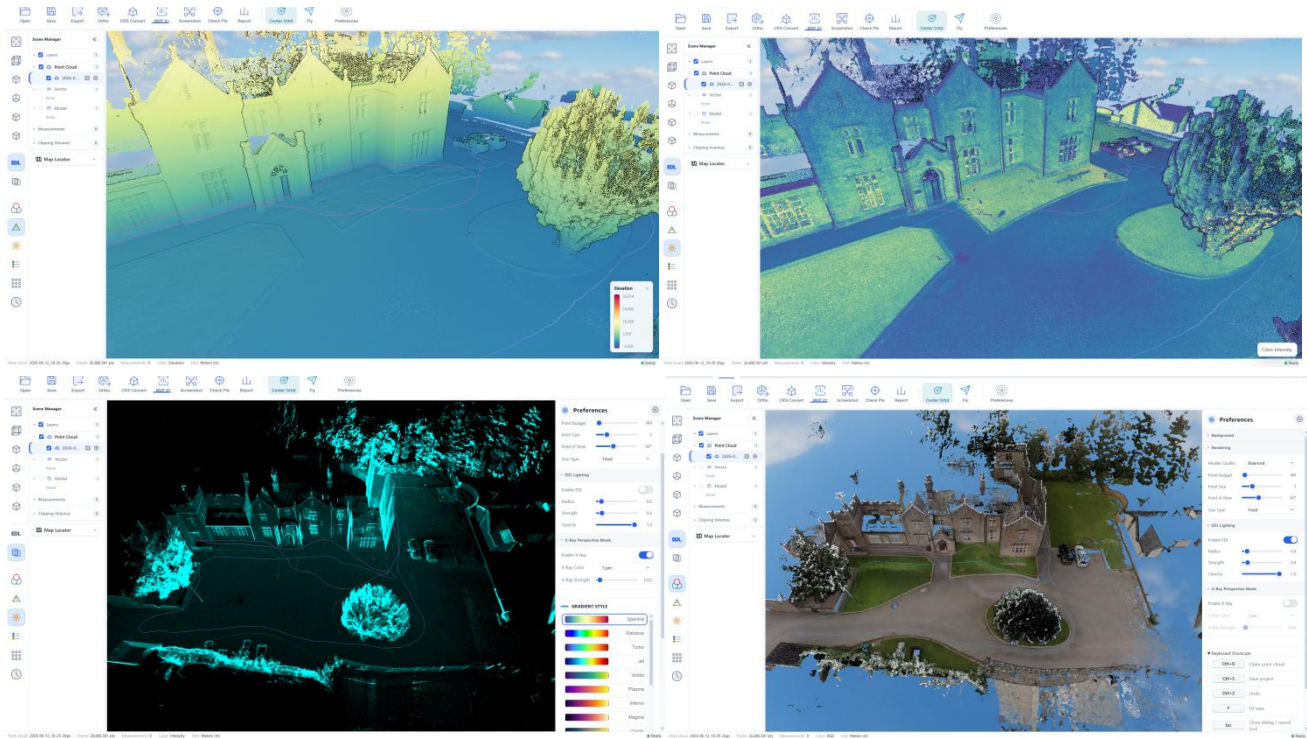
Drop in a raw scan and, in about ten seconds, Scan Doctor's AI Smart Analysis returns a plain-language health report — so you catch a bad capture before you ever process it.

- **Automatic data check** — every issue explains what happened, what it means for your data, and how to avoid it next time.
- **Plain-language diagnostics** — your cloud lands level and georeferenced, not tilted and adrift.
- **Proof you can act on** — an RTK-colored trajectory (green fixed / yellow float / red single) plus a self-contained PDF report to archive or send.

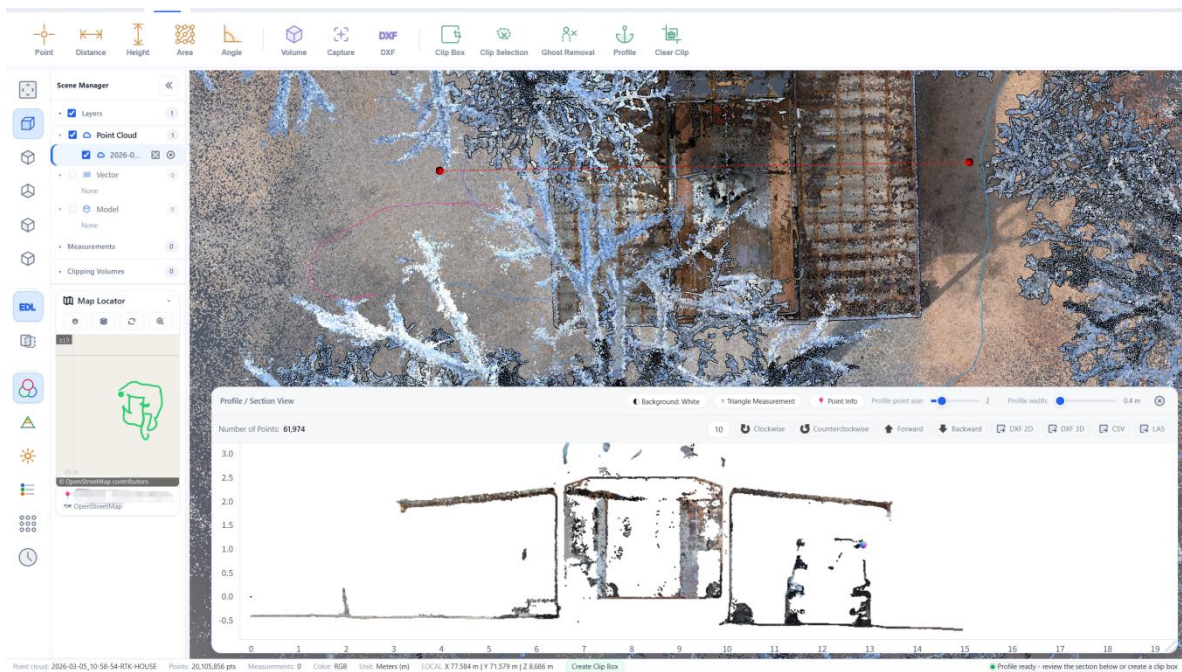


See Everything, Beautifully

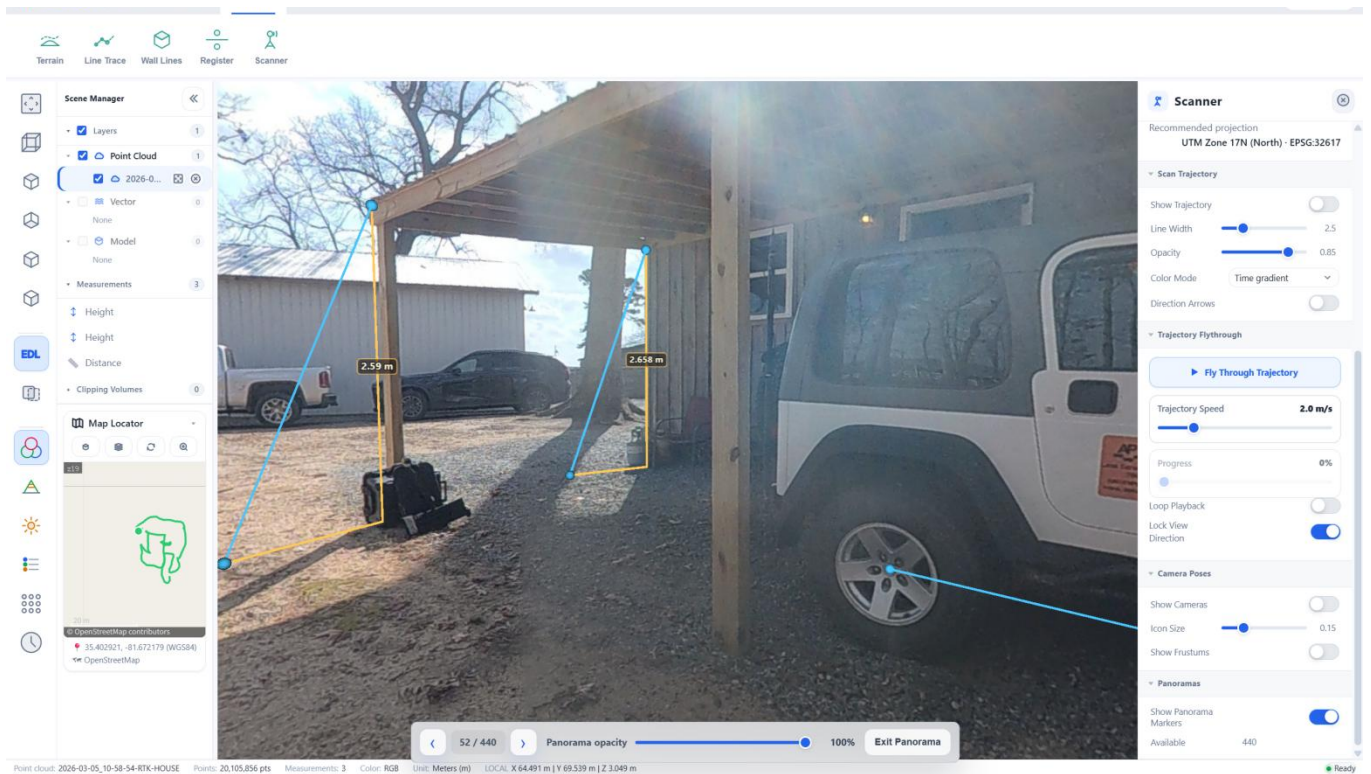
- **Multi-mode coloring** — RGB, Elevation, Intensity, Classification, LOD, Time and Return number.
- **15 elevation ramps, EDL & X-Ray** — crisp depth and see-through inspection for presentation-ready views.
- **Immersive backgrounds & basemap** — skybox, sunset, starfield, and street / satellite tiles draped under your cloud.



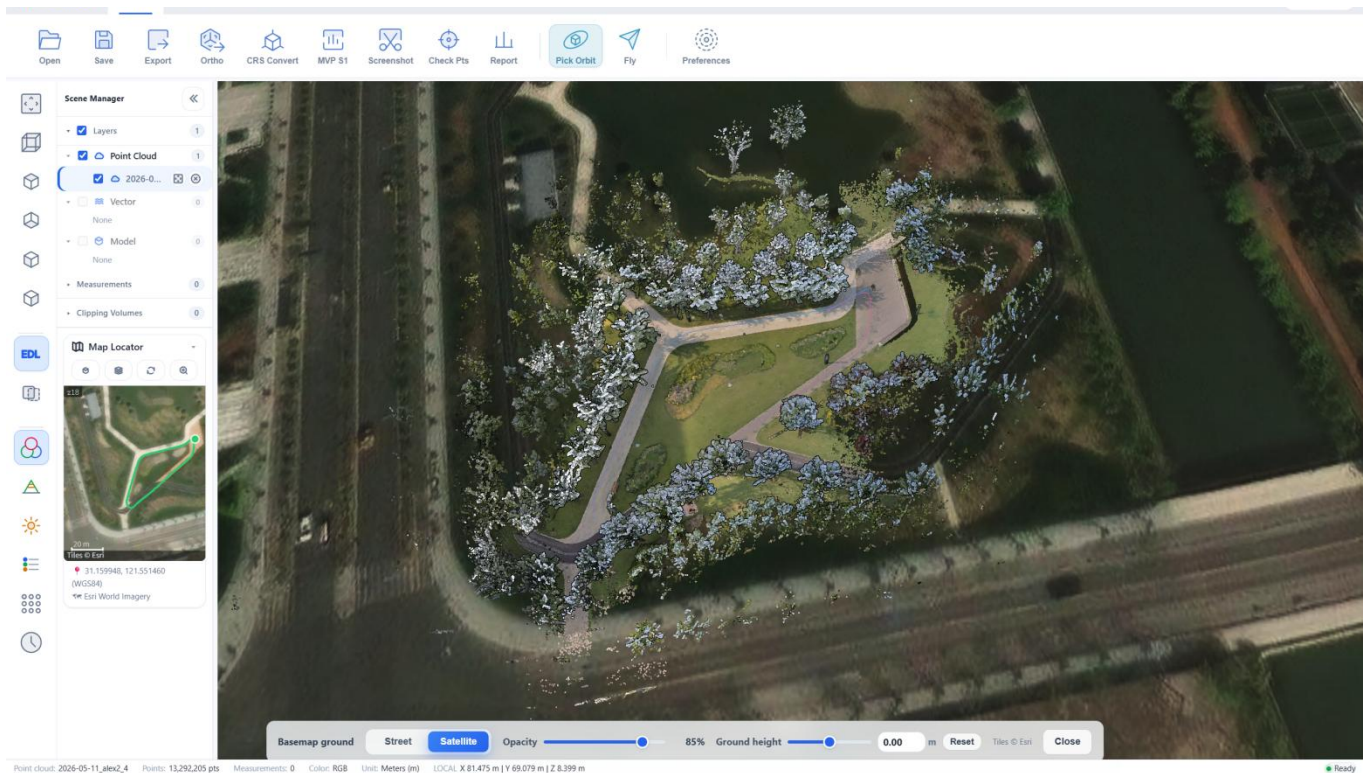
- **Simple and easy-to-use profile feature.** — Capture point clouds anywhere and export the profile.



- **Panoramic photo measurement overlay feature** — Measure directly on the photo: what you see is what you get.



- **Satellite imagery overlay feature** - Easy and intuitive to locate your scans and overlay them directly onto the satellite map.



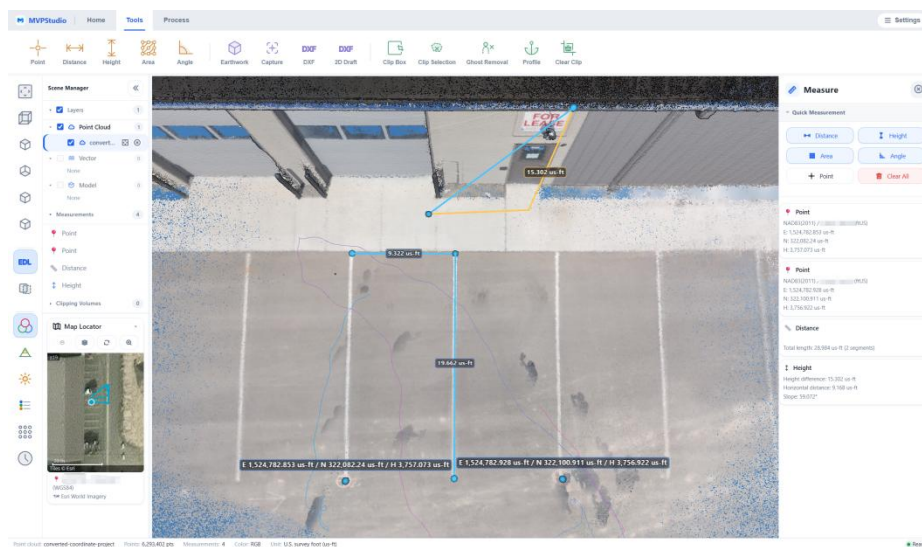
Measure With Confidence. Prove It on Paper.

Precision measurement with zero jitter — and a report your client can file.

Precision measurement, zero jitter

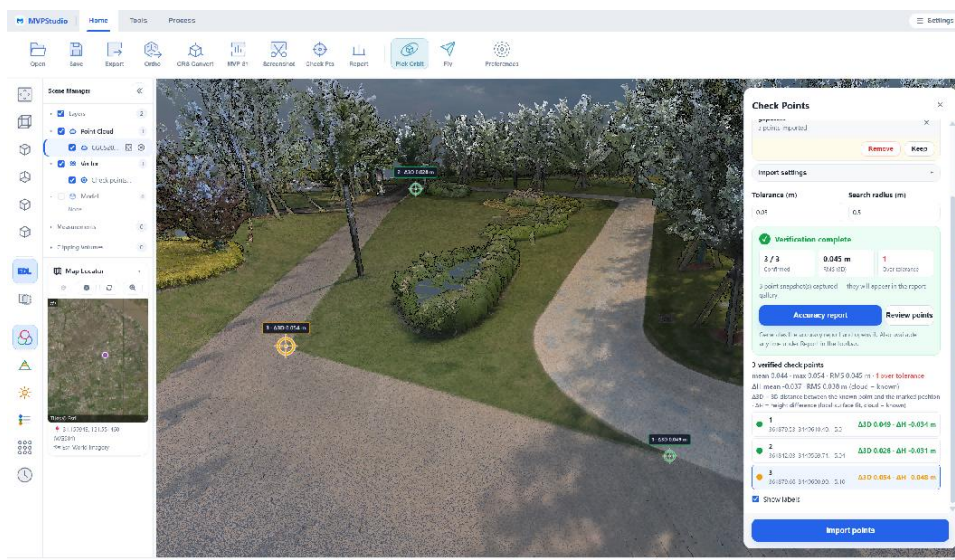
Point, distance, height, area, angle and volume — measured directly on the cloud with real-time floating result cards, in any unit your client needs (m, ft, US-ft).

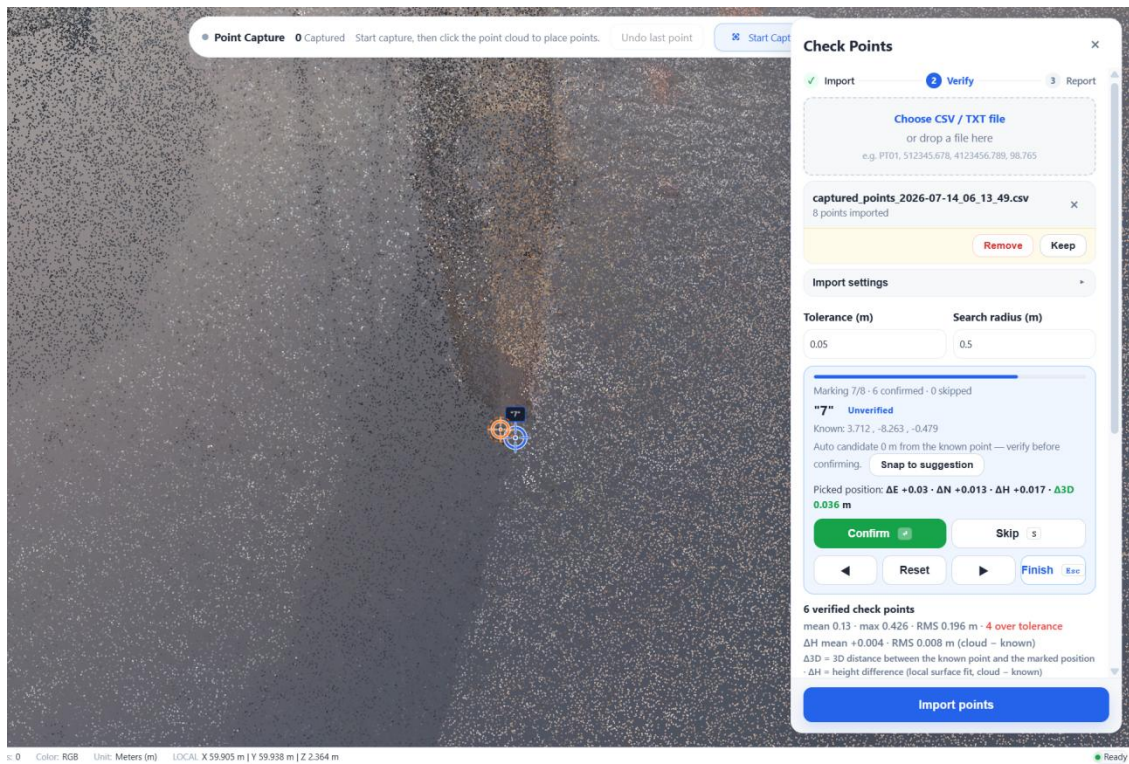
- **Stable measurement at large coordinates** — a floating-origin technique sidesteps WebGL single-precision limits, so measurements stay rock-steady even in billion-scale coordinate systems.
- **Point Capture to CSV** — click to collect named, auto-incrementing survey points and export them.
- **Global unit switching** — updates every label, card and coordinate instantly.



Do not just claim accuracy — certify it

Import known survey points (CSV / TXT) and MVPStudio checks the cloud against them, GCP-style: fly to each point, click its true position, confirm. Every confirmed point feeds live RMS statistics and per-point deviation ($\Delta 3D$, ΔH) — and one click turns it into a client-ready Accuracy Report.





Survey Accuracy Report

PROJECT
2026-03-05_10-58-54-RTK-
HOUSE

GENERATED
07/14/2026, 02:19 PM

SOFTWARE
MVPStudio V1.0.7 RC1

01 PROJECT OVERVIEW

Dataset	2026-03-05_10-58-54-RTK-HOUSE
Point clouds	2026-03-05_10-58-54-RTK-HOUSE (20,105,856 pts)
Total points	20,105,856
Display unit	m
Extent (E × N × H)	126.5 m × 126.5 m × 126.5 m
Avg. density (bounding-box estimate)	1,257 pts/m ³

02 CHECK POINT VERIFICATION

Check point file	captured_points_2026-07-14_06_13_49.csv
Points checked	8
Verified points	8 / 8
Search radius	0.5 m
Tolerance (3D)	0.05 m
Mean deviation	0.103 m
Max deviation	0.426 m
RMS deviation	0.17 m
ΔH mean (cloud - known)	+0.005 m
ΔH RMS	0.009 m

Acceptance criteria applied

ACCEPTANCE CRITERIA APPLIED

RMS deviation	pass ≤ 0.05 m, review ≤ 0.1 m
Max deviation	pass ≤ 0.1 m, review ≤ 0.2 m

Matched ratio

at least 80% of imported points matched

POINT	EASTING	NORTHING	HEIGHT	ΔE (m)	ΔN (m)	ΔH (m)	Δ3D (m)	METHOD	STATUS
"1"	10.563	-14.973	-0.399	+0.056	-0.007	-0.006	0.057	Marked	FAIL
"2"	16.584	-1.197	-0.526	-0.01	-0.199	+0.008	0.2	Marked	FAIL
"3"	12.865	3.993	-0.596	+0.253	-0.342	+0.017	0.426	Marked	FAIL
"4"	2.696	5.367	-0.770	+0.042	+0.016	+0	0.045	Marked	PASS
"5"	-2.383	-1.715	-0.735	+0	+0	-0	0	Marked	PASS
"6"	-4.068	-9.815	-0.550	-0.05	+0.023	+0.004	0.055	Marked	FAIL



"3"

FAIL

Δ3D (m)

0.426

	EASTING	NORTHING	HEIGHT
Known (imported)	12.865	3.993	-0.596
Marked (measured)	13.118	3.651	-0.579
Δ (m)	+0.253	-0.342	+0.017



"4"

PASS

Δ3D (m)

0.045

	EASTING	NORTHING	HEIGHT
Known (imported)	2.696	5.367	-0.770
Marked (measured)	2.738	5.384	-0.770
Δ (m)	+0.042	+0.016	+0



"5"

PASS

Δ3D (m)

0

	EASTING	NORTHING	HEIGHT
Known (imported)	-2.383	-1.715	-0.735
Marked (measured)	-2.383	-1.715	-0.735
Δ (m)	+0	+0	-0



"6"

FAIL

Δ3D (m)

0.055

	EASTING	NORTHING	HEIGHT
Known (imported)	-4.068	-9.815	-0.550
Marked (measured)	-4.118	-9.791	-0.546
Δ (m)	-0.05	+0.023	+0.004



"7"

PASS

Δ3D (m)

0.036

	EASTING	NORTHING	HEIGHT
Known (imported)	3.712	-8.263	-0.479
Marked (measured)	3.741	-8.250	-0.462
Δ (m)	+0.03	+0.013	+0.017



"8"

PASS

Δ3D (m)

0.007

	EASTING	NORTHING	HEIGHT
Known (imported)	11.901	1.131	-0.543
Marked (measured)	11.895	1.134	-0.544
Δ (m)	-0.006	+0.003	-0

04 COORDINATE REFERENCE

"Every measurement in the coordinate frame your client expects — and the paperwork to back it up."

SIGNATURE WORKFLOW

From Point Cloud to CAD

The work you actually get paid for: point cloud → clean, coordinate-true CAD.

Slice a section, trace the linework, and export R12 DXF with real survey coordinates and proper layers — line-work that drops straight into AutoCAD and Tersus 3D-Win and opens correctly, every time.

Section Trace

Lock a flat 2D sheet at any cut height and trace directly on the cloud; a height histogram picks the perfect slice.

Full DXF drafting panel

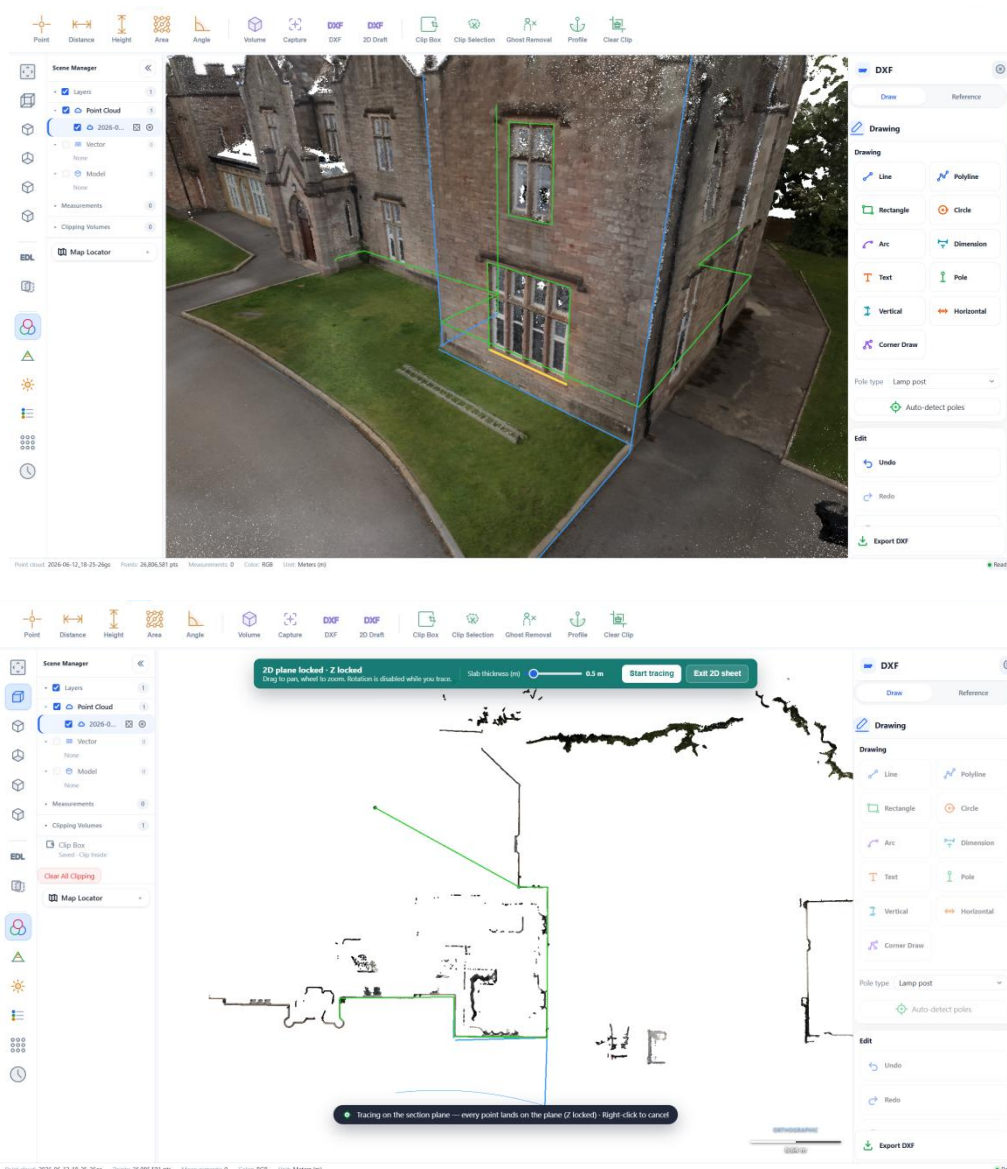
Line, polyline, rectangle, circle, arc, dimensions, text, offset, corner-draw and snap-to-endpoint, with unified undo / redo.

Layer-based, 2D or 3D

Organized by layer; export 2D flattened or 3D with elevation retained.

GIS ready

Also exports ESRI Shapefile for GIS and mobile-mapping pipelines.



“This is our home turf — the survey-to-CAD job clients pay a premium for, built right in.”

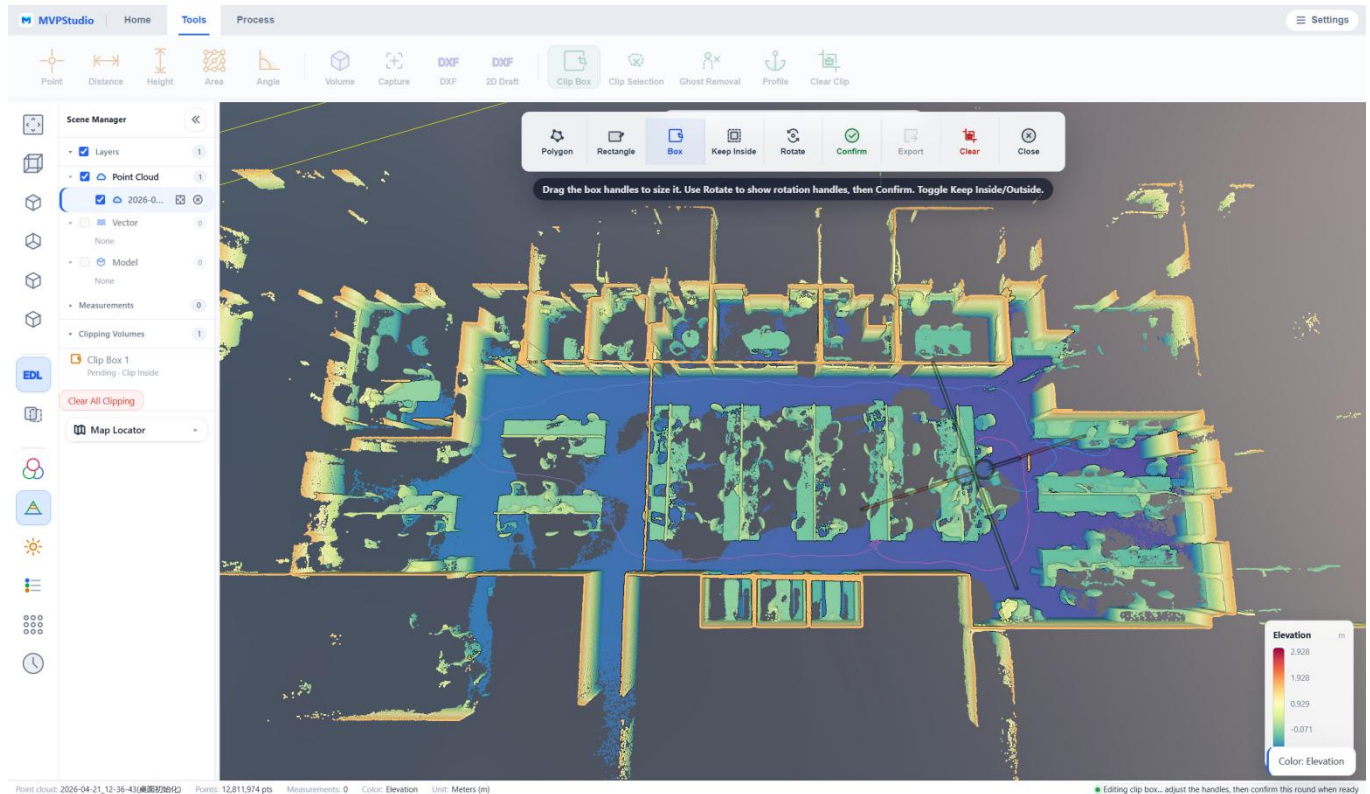
EXTRACTION

Floor Plans & Terrain, Automatically

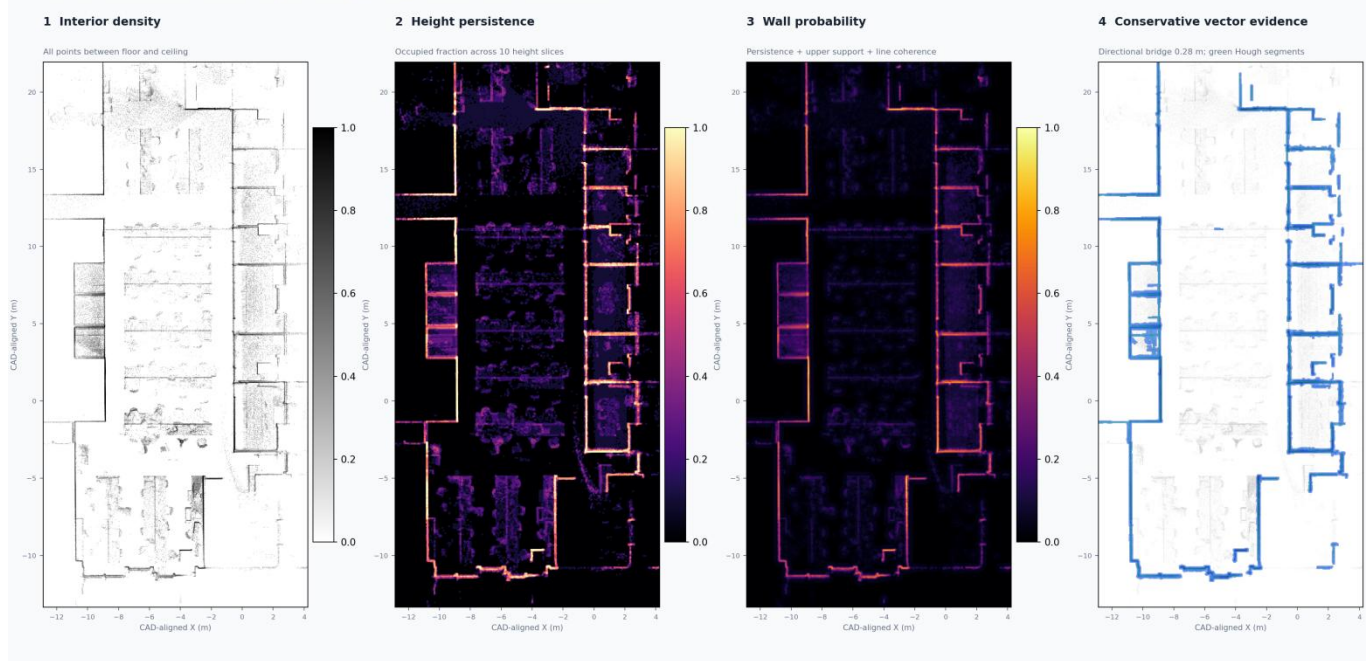
Indoor scans become plans; earthwork becomes billable numbers — defensibly.

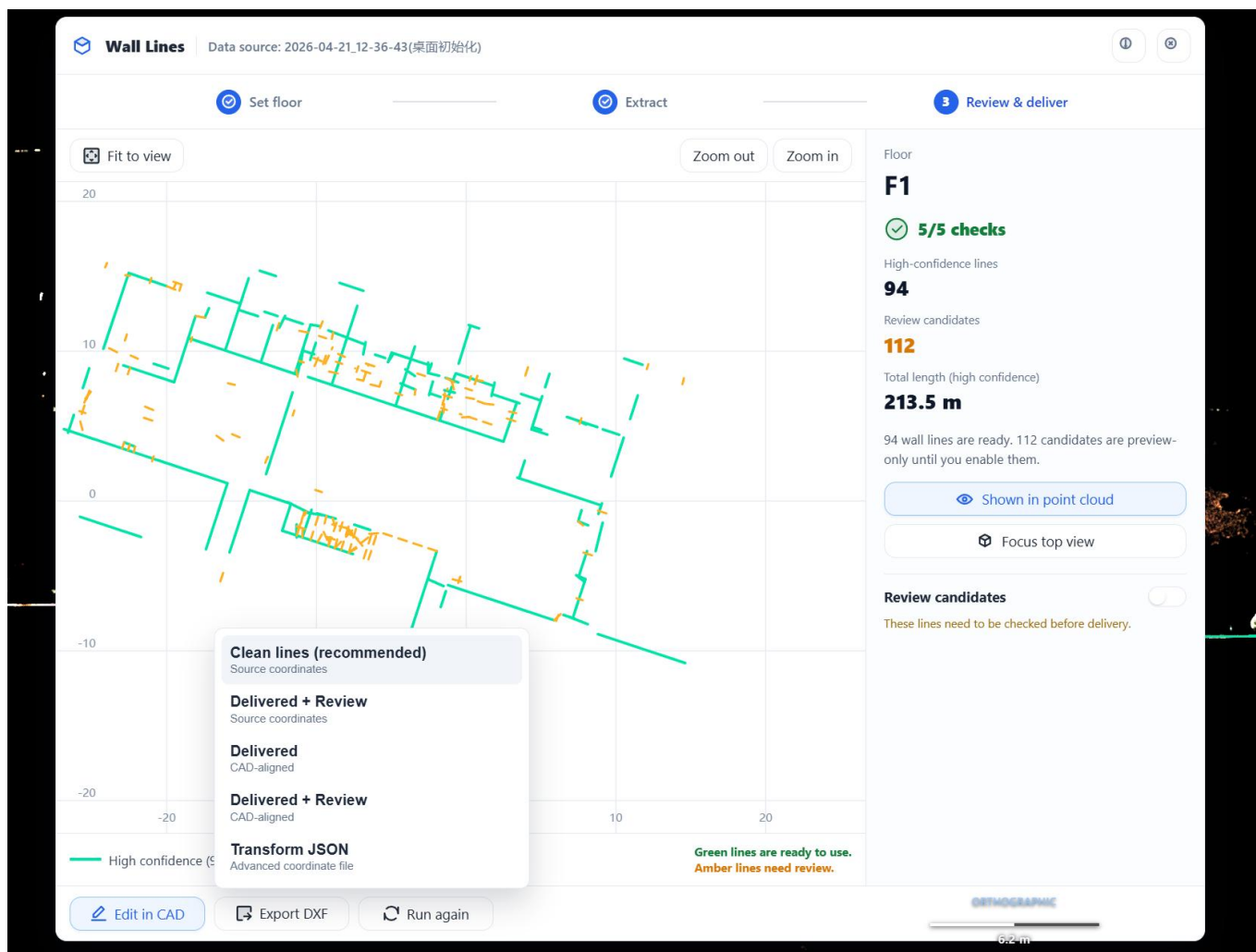
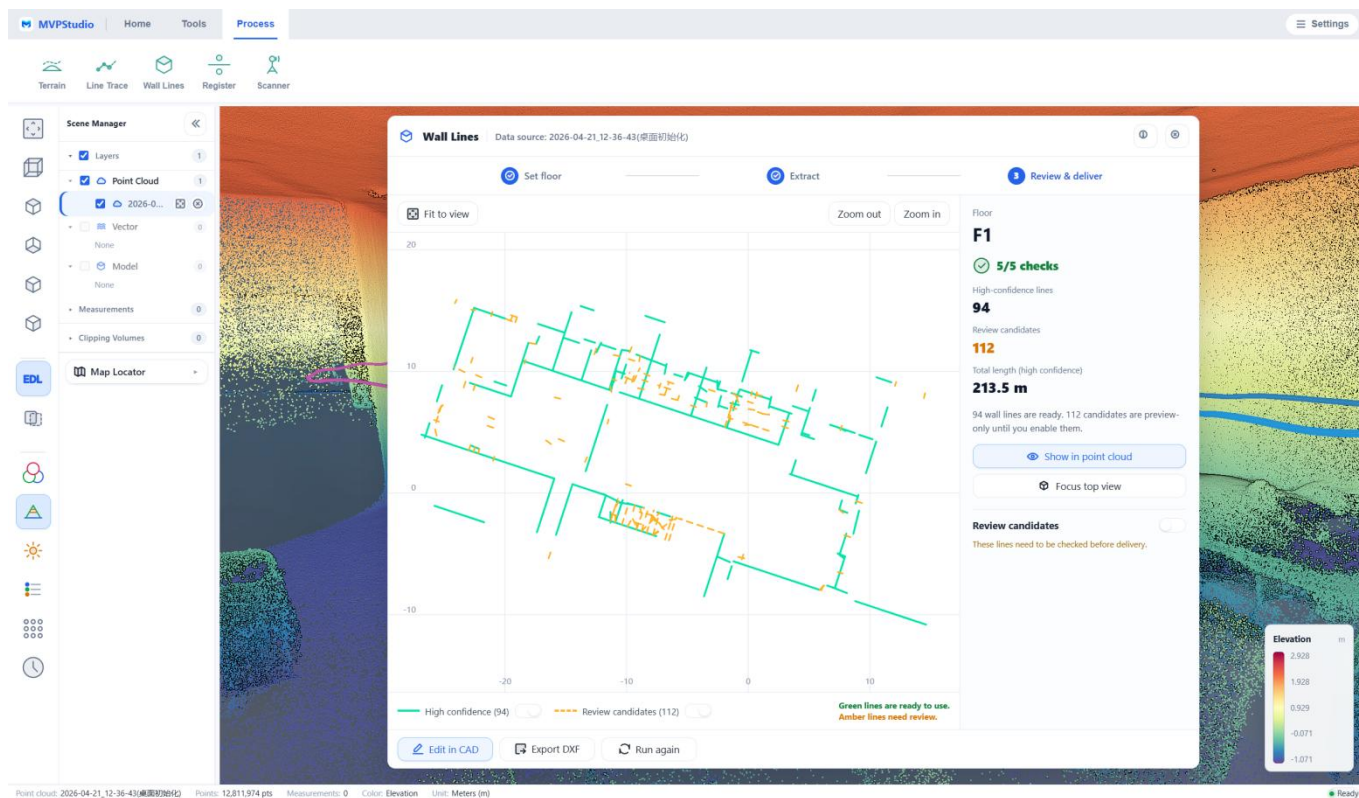
Floorplan Studio — indoor scans → floor plans

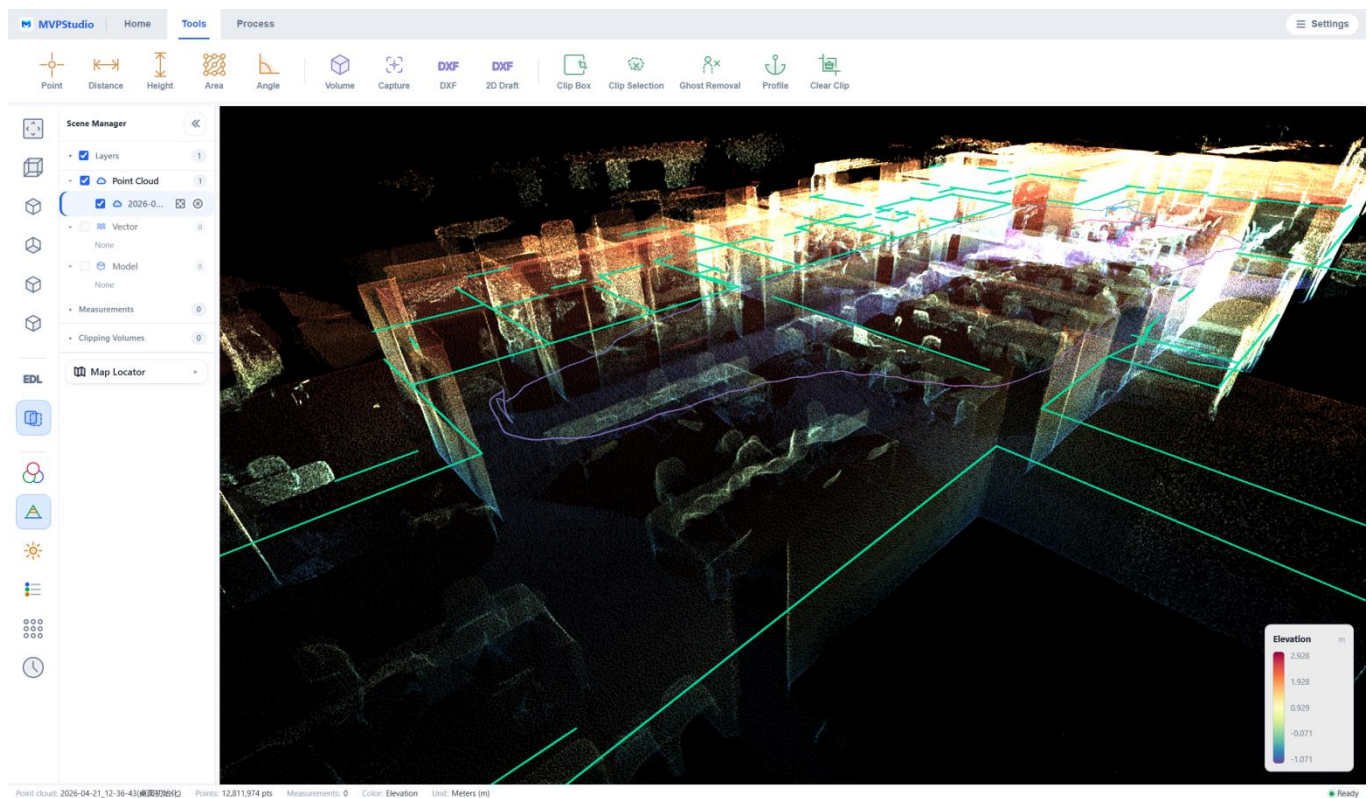
Select the building region, confirm floors from a Z-histogram, and MVPStudio extracts double-line walls with centerlines, door and window openings and room annotations — organized into four honest confidence tiers. Then a human-in-the-loop review workbench lets you accept, reject, re-thickness or re-hinge each element; every decision is saved with the project and fully reversible.



Point cloud as a multi-height image: real-data wall extraction

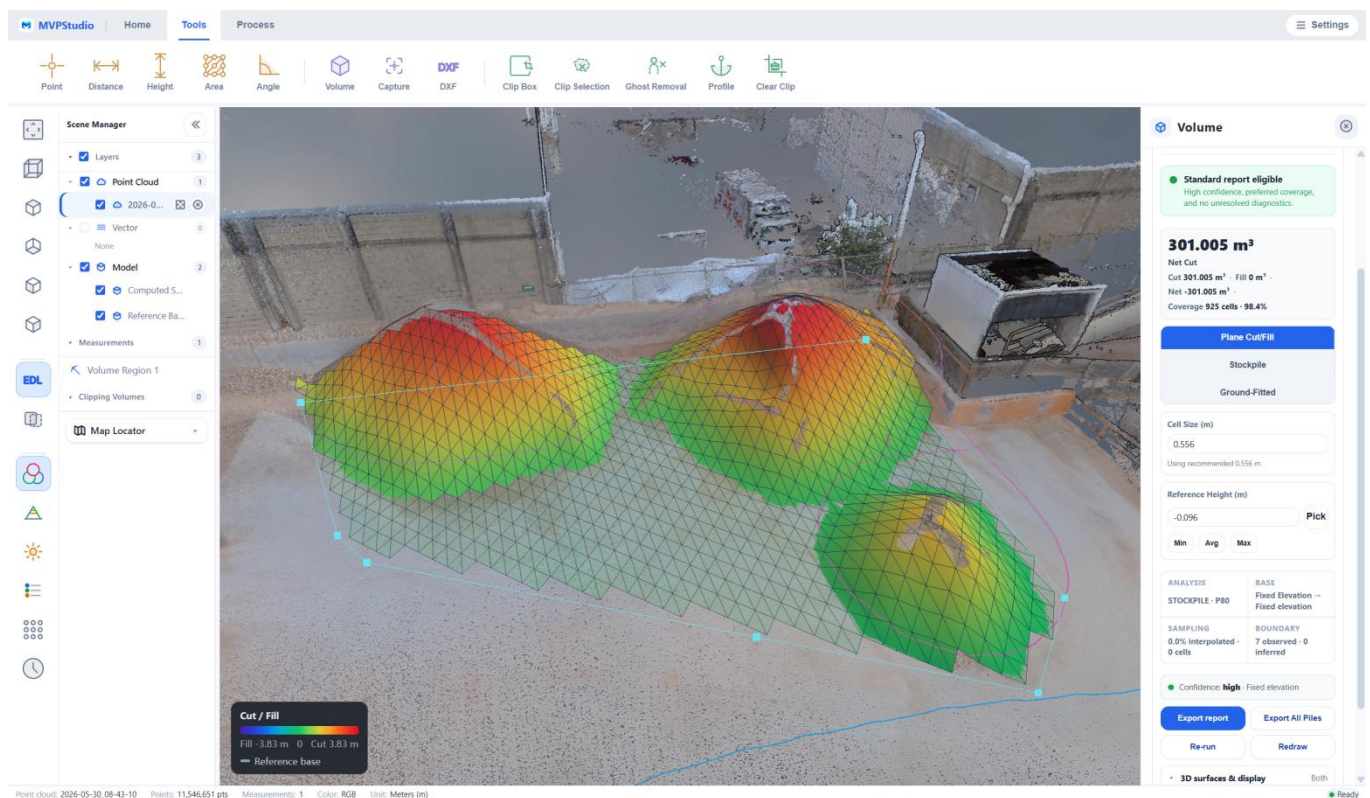


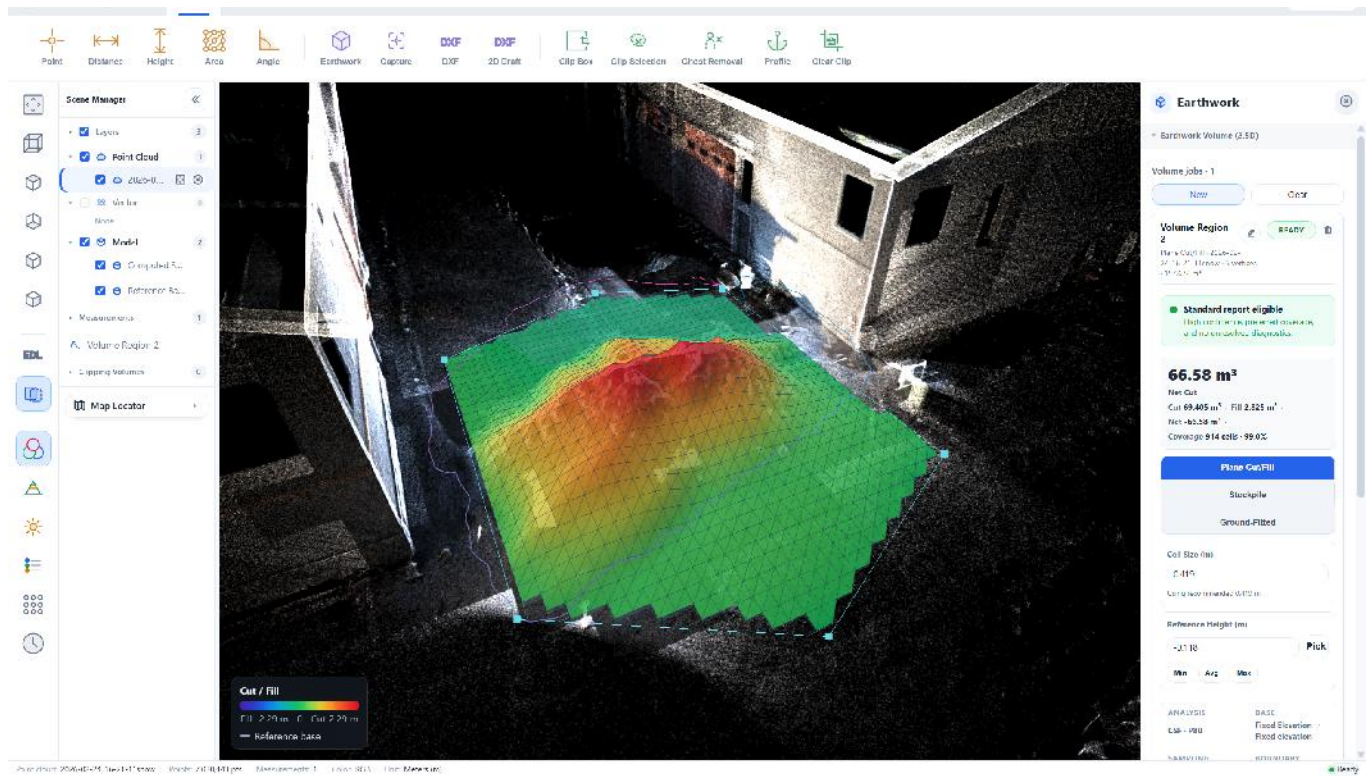




Terrain & Volume — earthwork in minutes

- **Ground Classification** — a Cloth-Simulation-Filter separates ground from everything else, with terrain presets and object removal.
- **Earthwork Volume** — 2.5D grid integration returns cut / fill / net with a colored heatmap; a diagnostic engine auto-recommends grid and cell size and flags gaps.
- **DTM / DSM, contours & billing** — export GeoTIFF terrain and DXF contours, and generate a Volume & Billing Report PDF.





Intelligent Automation

The software carries the expertise, so the grind takes minutes, not hours.

Some jobs are pure attrition: tracing a curb vertex by vertex, scrubbing pedestrians out of a scan, tallying trees and poles one by one, second-guessing which grid size a volume really needs. MVPStudio's Intelligence Suite takes over the grind — you supply the intent, one seed, one confirmation, one cut height, and the software does the repetitive labor at machine speed. Work that used to eat an afternoon closes in minutes.

Be clear about what this is. There is no chatbot, no opaque model guessing at your data, no black box you have to trust on faith. Every capability here is a concrete, algorithm running entirely on your own machine, offline. The automation proposes; you stay in command — results are measured, graded, and reversible.

Assisted Line Trace

Drop a single seed on a curb or edge and the trace extends along it while the view follows the track — a long manual polyline becomes a guided sweep, and you stay in control of where it goes.

One-pass cleanup & inventory

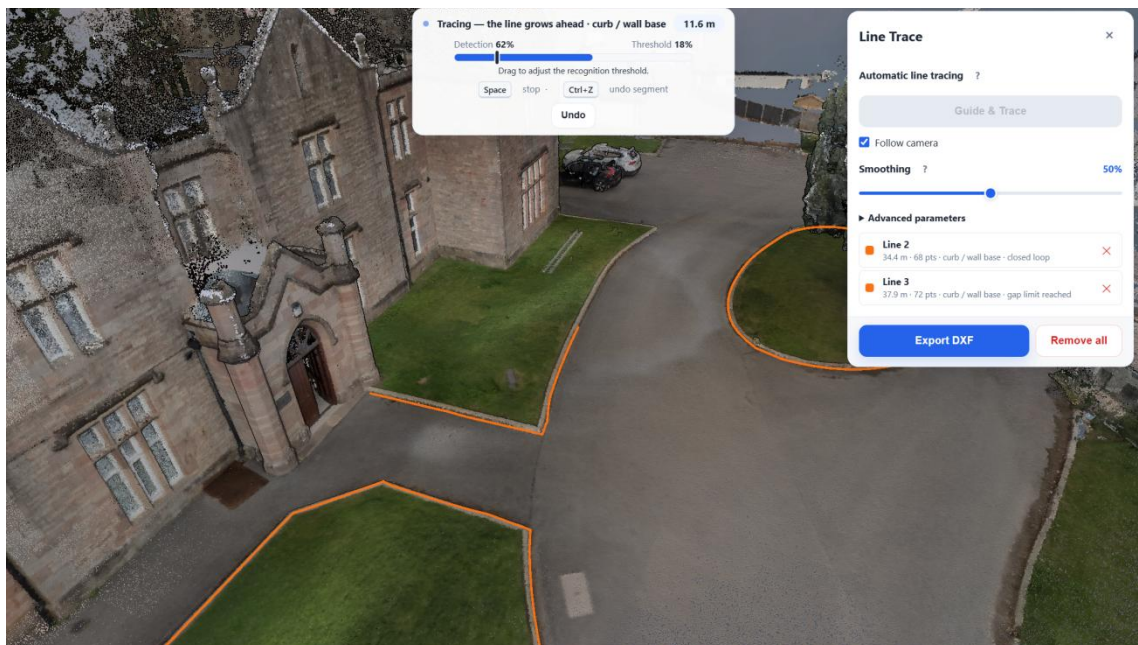
Ghost Removal strips out people and stray vehicles in one pass; pole extraction reads height from one base click or auto-detects pole.

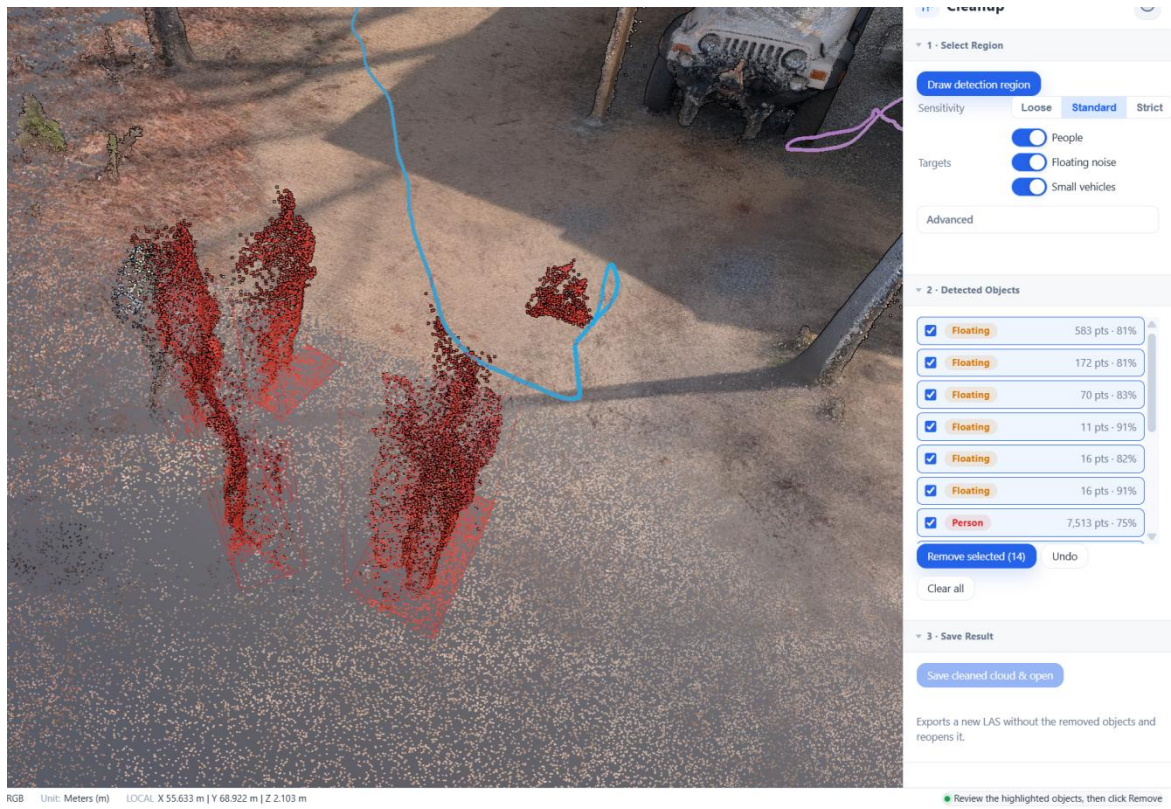
Floorplan review workbench

Walls are found and every wall graded stable / conditional / fragile — you accept, reject or edit, and every decision is saved, reversible, and Reviewed-badged.

Auto-recommended parameters

The volume engine recommends grid and cell size and flags gaps; the coordinate engine suggests a CRS with a live preview — you start from an informed default, not a blank field.





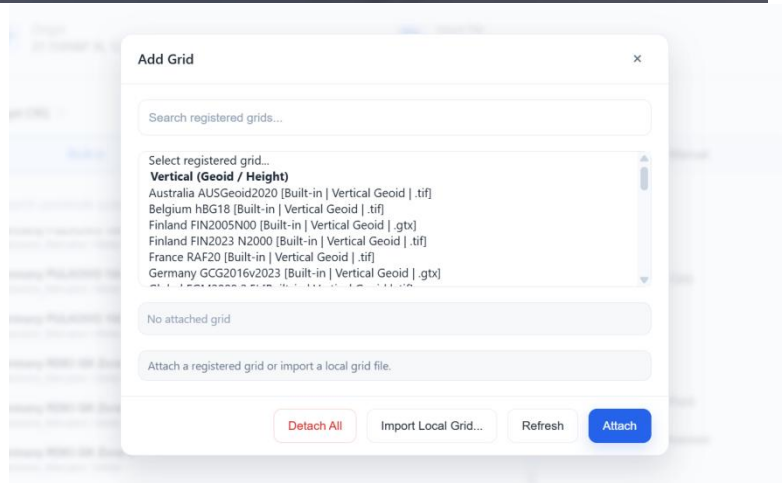
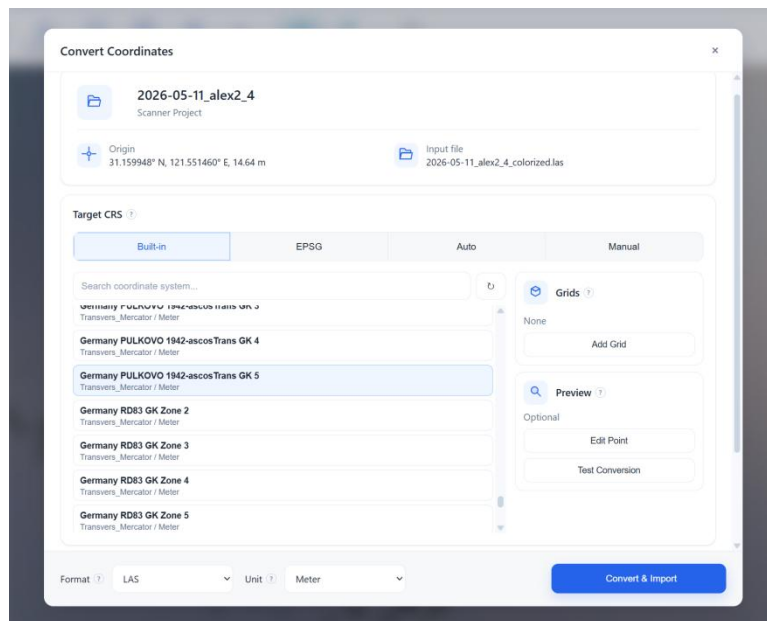
"The software suggests, you confirm. Intelligent, assisted, accountable automation — never a black box."

Coordinates Done Right. Every Scan Health-Checked.

Coordinate-system pain turned into a certificate — and raw-data insight built in.

Coordinates done right

- **A professional PROJ-based engine** — international projected systems, custom EPSG / PROJ / WKT, and imported .prj / .gsb / .gtx / .tif parameter and grid files.
- **Vertical datums & geoid models** — including bundled national geoids (e.g. Korea KNGeoid2026) — so heights are right, not just plausible.
- **Auto CRS suggestion & a certificate** — live conversion preview, plus a Transformation Report of source / target CRS, method, parameters, geoid and software fingerprint.



Built for the Road Ahead. Delivered in Standard Formats.

Purpose-built MLS features shipping now — and output your client can open.

Built for Mobile Laser Scanning (MLS)

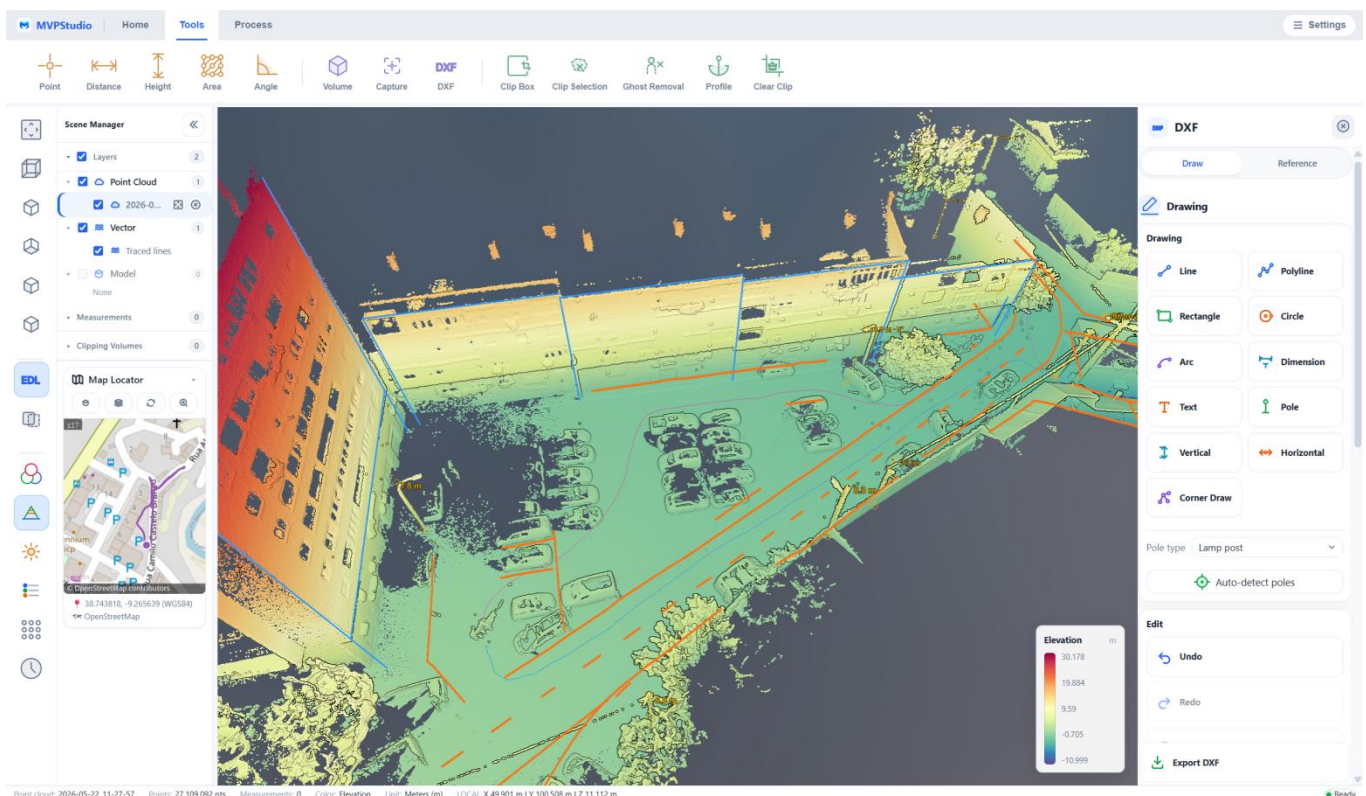
MVPStudio is expanding fast into mobile laser scanning — the vehicle- and backpack-mounted mapping reshaping road, rail and city surveying.

- **Shipping now** — pole extraction with automatic height, tilt fitting, batch auto-detection and overhead-wire-resistant hardening; curb & structure-line tracing; ground classification and intensity rasters; one-click ESRI Shapefile export.
- **Coming next (roadmap)** — one-click lane-line → centerline extraction and expanding semantic feature libraries.

Deliverables your client can open

LAS / LAZ POINT CLOUD	E57 POINT CLOUD	PLY · XYZ · PTS POINT CLOUD	CSV POINTS
R12 DXF CAD · REAL COORDS	Shapefile GIS	GeoTIFF DTM / DSM	Orthophoto RASTER
OBJ MESH	PDF Reports ACCURACY · VOLUME	Panorama 360°	Deliverable Pack ONE CLICK

Everything carries the coordinate frame it should. What you export is what your client opens.



EASE OF USE

Built to Liberate Your Team

Powerful without being complicated — so a smaller crew delivers more, faster.

MVPStudio opens on a clean, modern ribbon that any surveyor recognizes from the first minute — the complexity lives under the surface, in the algorithms, not on the screen. When the software carries the expertise, a smaller crew delivers more, and delivers it faster.

Guided wizards walk each person through solving, check-point verification and registration, while auto-recommended parameters, automatic CRS suggestion and inline help offer the right choice before anyone has to hunt for it. And because MVPStudio is non-destructive by default, every decision is reversible — originals are never overwritten.

Familiar from minute one

A clean, modern ribbon organized around real surveying tasks — an experienced operator is productive immediately, no manual required.

Guided, not guesswork

Step-by-step wizards plus auto-recommended parameters, automatic CRS suggestion and inline help put the right setting one click away.

Nothing you can't take back

Non-destructive by default: unlimited undo / redo, drag-and-drop import, one-click screenshots, edits saved with the project.

Ready in any language

Eleven built-in languages and live unit switching (m / ft / US-ft) let any team, in any region, work at full speed from the first scan.

English

中文

日本語

한국어

Français

Deutsch

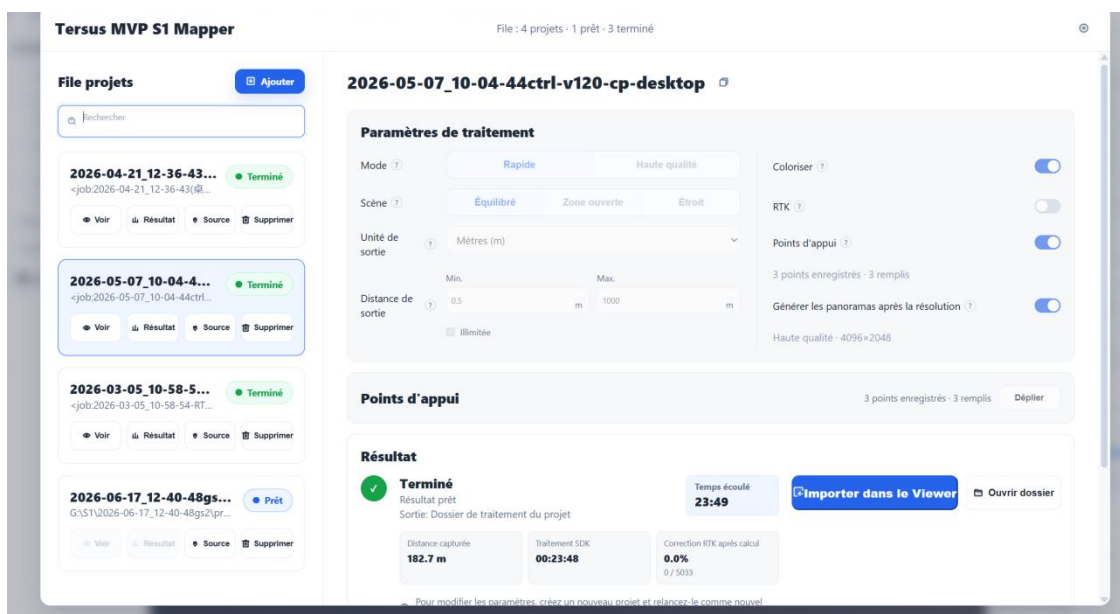
Español

Português

Italiano

Suomi

Svenska



“The software carries the expertise, so your team carries the project.”

ROADMAP

The Road Ahead

Buy today, grow with us — two strategic lines, years of momentum.

Two parallel lines — Bridge-to-BIM and Mobile Mapping — keep MVPStudio at the table for years.

SHIPPING NOW In the build

- Scan Doctor health checks
- Accuracy & Transformation certificates
- Volume & billing reports
- One-click deliverable package
- Floorplan Studio review workbench
- First MLS features — poles, curbs, Shapefile

NEXT Bridging to BIM & scaling MLS

- IFC / BIM export
- Component semantics — true wall & opening objects
- One-click lane-line → centerline
- Full 3 / 4 / 7-parameter datum transformation
- Scan Replay

HORIZON The frontier

- Change detection
- Point-cloud semantic segmentation
- CAD-plugin object injection
- Photorealistic 3D Gaussian Splatting
- (adjacent R&D track)

“Next” and “Horizon” items are planned roadmap features, not yet shipping.

FOR DISTRIBUTORS

For Our Partners

The software your MVP S1 customers need to turn raw scans into deliverables they can sell.

Handheld and mobile laser scanning are reshaping how roads, rail corridors, cities and interiors get surveyed. The MVP S1 makes the capture fast, but a raw point cloud is not a deliverable. Every scanner you place needs software that carries the job all the way to a colorized cloud, a certified accuracy report, a CAD-ready DXF or a finished volume — and that is exactly the gap MVPStudio fills.

It is easy to represent because it produces output your clients can actually open and use — the CAD, GIS, terrain and report formats that drop straight into the tools they already run. It runs 100% offline on Windows, ships in 11 languages for any territory, and is licensed perpetually: a permanent activation code with continuous updates, so you sell a lasting asset, not a subscription your customer can walk away from.

A deliverable, not a demo

Every workflow ends in something a client can use — DXF, Shapefile, GeoTIFF, LAS/LAZ/E57 and PDF reports in one package. That is what makes a repeat customer.

Perpetual license, easy to close

A permanent activation code with updates included means you sell an owned asset, not a recurring bill. Fully offline, 11 languages — it fits secure sites and any territory.

Depth where the money is

Point-cloud-to-CAD, accuracy certification, terrain volume and floor plans. Viewers show points; MVPStudio finishes the job.

A roadmap customers can see moving

MLS is shipping now, with MLS expansion, datum transformation and IFC / BIM export on the roadmap — a clear reason for customers to stay current, and for you to call again.

“It does not just show the point cloud. It hands your client the deliverable — and it opens where they work.”



Own It. Forever.

A perpetual license — pay once, keep updating.

-  **Permanent activation code** — buy once, it is yours. No recurring subscription hanging over your projects.
-  **Built for professional delivery** — clean-machine install, private local processing, enterprise-ready data governance.

The scanner is the hardware. MVPStudio is what makes it pay for itself.

Talk to your Tersus representative today to lock in a perpetual license.

www.tersus-gnss.com

sales@tersus-gnss.com

support@tersus-gnss.com

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MVPStudio · Powered by Tersus · MVP S1 Mobile Mapping System

Visualize · Measure · Extract · Deliver

A perpetual license allows you to use the licensed software version indefinitely. One year of software maintenance is included, covering updates, version upgrades, and technical support. After the maintenance period expires, you may continue using your existing version permanently, while access to future releases and newly introduced premium features requires an active maintenance plan or a separate license.

Feature availability depends on software version, license configuration, dataset type and system hardware. Measurement, transformation and automated extraction results depend on source-data quality and processing settings and should be independently reviewed where required. Roadmap items are plans only and may change in scope, timing or availability. Perpetual-use and update entitlements are governed by the applicable quotation and license agreement.