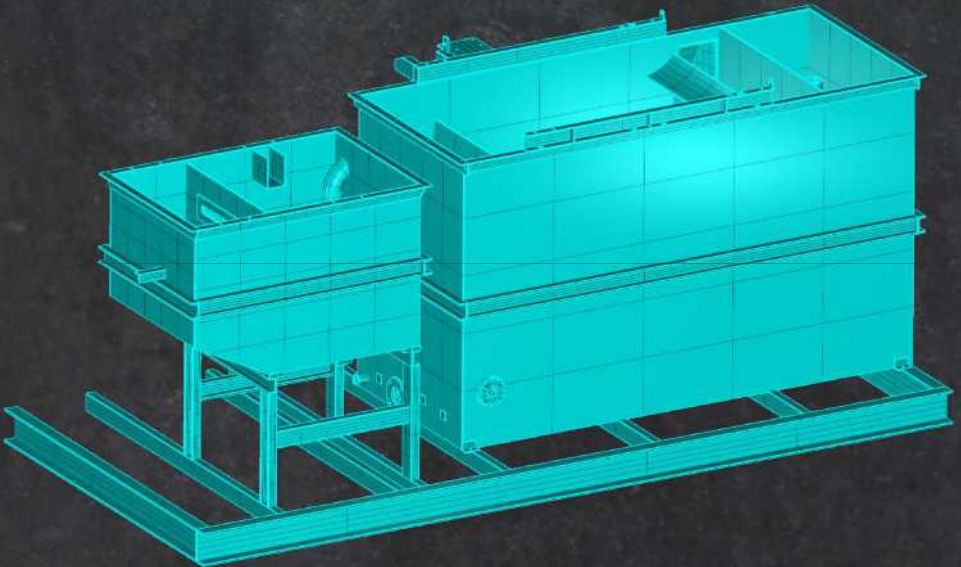




VIEWPORT3

# TOPSIDE SCAN FOR RETRO-FIT DESIGN



End-to-end dimensional problem solving

## WHO WE ARE

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For subsea and topside teams who cannot afford dimensional uncertainty, Viewport3 provides **Engineering Grade Dimensional Assurance** - not generic 3D scanning, delivering accurate, verifiable and **decision-ready data**, even in **complex, constrained or emergency scenarios**.

## WHAT WE DO

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Viewport3 combines industry leading, **ultra-high resolution 3D photogrammetry**, verifiable accuracy and **subsea project expertise** to produce high-value answers - not just point clouds.

## WHY DIMENSIONAL ASSURANCE MATTERS

Assumptions cost time and money. **Engineering Grade Dimensional Assurance** replaces uncertainty with verified dimensional data that engineers can rely on to make confident, **right-first-time decisions**.



## TOPSIDE SCAN-TO-CAD PROJECT

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**THE PURPOSE** - Replace ageing process equipment with a guaranteed fit-first-time replacement, whilst minimising operational shutdown.

**THE CHALLENGE** - A North Sea service company needed to replace an ageing liquid waste separator that remained in continuous service. Removing the unit for conventional measurement would have introduced unacceptable downtime, with the client advising a strict maximum out-of-service window of three days. This was not a scanning problem, it was a dimensional certainty problem.

**THE OPERATION** - Viewport3 was contracted to deliver engineering-grade dimensional assurance, capturing the asset in situ and converting it directly into fabrication-ready outputs. To ensure data quality and long-term auditability, the unit was prepared to expose the hardware surface and Viewport3 photogrammetry techniques were used to capture the scene using high-resolution still imagery.

**THE SOLUTION** - The photogrammetry dataset was processed into a high-fidelity 3D model and analysed using reverse-engineering techniques suited to fabricated process equipment.

**THE RESULT** - By delivering verifiable, workshop-ready 2D drawings, Viewport3 enabled:

- Minimal operational downtime.
- Elimination of manual site measurement errors.
- Confidence in a first-time-fit.

The project demonstrated how scan-to-CAD becomes dimensional assurance when accuracy, verification and engineering intent are treated as non-negotiable.



SCAN TO  
VIEW  
CASE STUDY



# SEE DIMENSIONAL ASSURANCE IN ACTION

Viewport3 delivers confidence where dimensional accuracy matters most - reducing risk, avoiding re-work and enabling 'right-first-time' decisions through engineering grade dimensional assurance.

Photogrammetry-led 3D inspection & assessment



SCAN TO VIEW OUR  
RANGE OF SERVICES

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