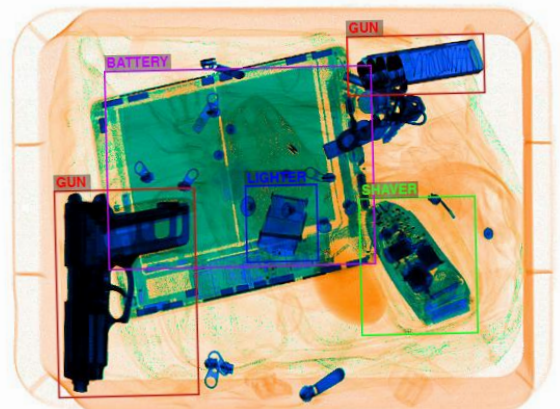


Vita Detection : Driving Efficiency and Reliability in Security Technology



Company Background

Headquartered in Canada, Vita Detection has been a pioneer in 3D Perspective X-Ray security systems since 2005. Renowned for innovation, quality, and reliability, Vita Detection has consistently set the standard in global security. The company introduced several industry firsts, from integrating precious metal detection with X-Ray systems to launching the world's first machine-learning-powered electronic media detection solution for loss prevention. Its proprietary XR-AI™ and VITA Sentinel™ software, combined with remote monitoring and servicing capabilities, continue to set new benchmarks in threat detection.



Today, Vita Detection's scanners serve airports, railways, and other critical environments worldwide, delivering sharper imaging, faster assessments, and smarter analytics.

Engineering for Growth and Scalability

As Vita Detection expanded across Asia and other global markets, customer demand grew rapidly. At the same time, the increasing complexity of new products required faster workflows and more efficient design management.

With multiple projects running at the same time, engineers initially relied on PDF drawings to review assemblies. While workable at first, this approach became limiting as products grew more sophisticated. A single design issue could take up to a week to resolve, slowing progress and making it difficult to manage projects at scale. To keep pace with growth, the team needed a more effective way to visualise components in 3D, collaborate seamlessly, and refine designs with greater speed and accuracy.

Streamlining Design with SOLIDWORKS

Vita Detection implemented SOLIDWORKS to move from static PDF drawings to an interactive 3D CAD platform. The shift enabled engineers to review and refine complex components more efficiently, keeping projects on track and accelerating delivery.

The platform's intuitive, user-friendly interface made it easy for the team to adapt, even for those without extensive CAD backgrounds. This lowered barriers to adoption and ensured that everyone could contribute effectively from the start. At the same time, SOLIDWORKS enabled designs to be created with manufacturing in mind, allowing products to transition smoothly from concept to production without unnecessary rework.

By improving coordination across teams and streamlining workflows, SOLIDWORKS has already helped Vita Detection enhance product performance, shorten development cycles, and strengthen its ability to scale operations effectively—all within the first year of adoption.

Delivering Measurable Results

The switch to SOLIDWORKS has brought clear improvements. Product quality has **increased by more than 40%**, with potential to reach 75% through continued optimisation. Development cycles are shorter, enabling the team to introduce innovations more efficiently and respond quickly to customer needs.

One of the most notable gains has been in problem resolution: design issues that previously delayed progress for a week can now be **addressed within a single day**. This agility allows Vita Detection to manage multiple projects simultaneously without compromising quality. Customers benefit from smarter, more reliable scanners, while internal teams experience higher productivity and innovation. By achieving these results in such a short time, Vita Detection has **established** a solid foundation for **sustained growth**, demonstrating how the right tools and partnerships can **accelerate transformation** at scale.



IME is friendly and approachable, with more than one person available to help at the same time. Working with them feels like a casual conversation, making complex solutions easy to understand.

Mr. Yogeswaran
Mechanical Engineer

