



Creating Customer Success with 3D Digital Twins and Visualization Integrations for Security Design

3D Digital Twins Improves Visualization, Communication and Collaboration Throughout Project and Building Lifecycles.

Visual Plan is proud to be a strategic partner to Orion Entrance Control, Inc., implementing 3D Digital Twins into their customer success processes during pre-sales, design, collaboration, project management, commissioning and training of Orion SpeedGate and SpeedLane turnstiles, and the new line of Constellation Sensor products. **Visualization and collaboration through Visual Plan's platform is a key strategy to further enhance Orion's current customer success protocols, ensuring future performance, compatibility and implementation of security system design across their product lines.**

As a visual data hub, Visual Plan's SiteView platform is optimized for the level of enhanced collaboration and documentation necessary for ensuring project certainty and building customer satisfaction through comprehensive, secure and accessible site visualization.

- **Enhanced visibility of sensor and turnstile placement**
- **Interactive and documented record of installation details, including components behind walls or above ceiling tiles**
- **Improved communication throughout the project lifecycle, from design to implementation to maintenance**

- ✓ **EXPEDITED PROJECT & DESIGN PRE-PLANNING**
- ✓ **IMPROVED CUSTOMER, MANUFACTURER & INTEGRATOR COMMUNICATION**
- ✓ **REDUCED CHANGE ORDERS**
- ✓ **REDUCED TRAVEL TIME & COSTS**
- ✓ **AS-BUILT RECORD OF INSTALLATIONS**

"For larger security system design and sensor projects, Visual Plan provides an extra layer of oversight to ensure project success with limited rework or costly site visits, saving partners and customers money, decreasing turnaround time while gaining the best outcomes for Orion's projects."

– Kelly Watt, CEO, Visual Plan

PROVEN SUCCESS IN THE FIELD

3D Digital Twins for XK Sensor Series Installation

Orion's Constellation Sensors are powered by Xandar Kardan (XK) Technology. After the successful implementation of the sensors and gateway installation, Visual Plan brought our remotely-piloted 360 Rovers equipped with Ricoh Theta Z1 cameras to perform a 360 capture of the facility. The optical height on the 360 Rover was lowered to scan under desks and equipment while tripods were used to capture above ceiling panels, effectively creating an as-installed, walkable Digital Twin of the sensor and gateway system installation.

- Captured scans show existing sensor and gateway installations for on-site maintenance and remote troubleshooting with the manufacturer, integrator and building owners
- Annotated 360 scans serve as post-installation as-built conditions of the entire sensor and gateway system
- Full documentation of the sensors including spatially aligned 360 photos, annotations, uploaded documents and asset tagging information enable efficient operations management and security training for facility managers



ORION PRODUCT INSTALLATION

500+ XK sensors and a gateway security system

360 CAPTURE SPECS

camera Ricoh Theta Z1

capture method 360 Rover & tripod

capture sites Park Place in Downtown Vancouver, BC

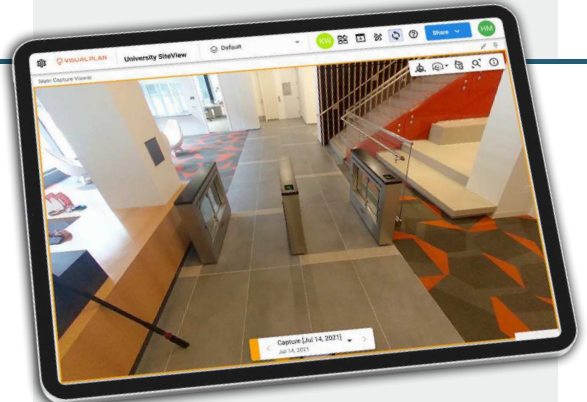
capture size 100k sq ft, 4 floors

capture time 1 day

Pre-Planning 360 Capture for Entrance Turnstiles Project Plan, Design & Manufacture in 1 Site Visit

Integration partner VIRSIG's Operations Department conducted the onsite capture utilizing the Ricoh Theta Z1, 360 Degree camera in unison with the Visual Plan Software and Capture Application to obtain a dynamic image of the construction field to determine conditions and variables which are often encountered. Steven McCorry, VIRSIG's Operations Manager, noted that the Visual Plan software is "user-friendly" within both the Capture Application and the Desktop version. Further, he said: "The captures associated with designated floor plans, levels, and multiple captures are impressive."

- The captures VIRSIG will receive, will facilitate them alongside Orion towards a successful Turnstile templating, core drilling, installation, programming and commissioning of the system.



ORION PRODUCT INSTALLATION

6-entrance turnstile installation

360 CAPTURE SPECS

camera Ricoh Theta Z1

capture sites 2-building campus in New York

capture size limited capture for 6 entrances

capture time <1 day

360 capture and turnstile installation completed by

VIRSIG 