

# 3D Scanning Systems for Ocean Marine

Envista utilizes Matterport Pro 3D scanning systems and drones to assist in the complete documentation of scenes following ocean marine claims. With a focus on minimizing business interruption losses and returning vessels to operation as quickly as possible, Envista's scanning technologies provide rapid archiving of a loss. This technology allows for clear and concise 3D scans of the interior and exterior of a vessel including ship structures, complex machinery rooms, and outfitting.

## Matterport Pro 3D Scanning

Matterport Pro scanning systems utilize 3D laser scanners and 360-degree panoramic images to convert images and laser measurements into a 3D model. This technology is successfully used in ships, buildings, and vehicles to capture full 360-degree views of a loss and has ability to produce high-definition photographs and diagrams from the scans. Measurements (accurate within 1%) may be taken within the 3D model by the user to aid in documentation and analysis. The 3D model is hosted on a secure server and can be shared virtually by a web-link.

## Benefits for the Marine Industry

Ocean marine scans using Matterport technology allow for a virtual walk through of vessels for easier access to the scene, statement clarification, and to discuss aspects of a loss which might arise during civil litigation. Matterport technology is often used to archive:

- » Fire and Explosion Damage (Compartments and on Deck)
- » Damaged Cargo in Situ
- » Damage from Collision/Allision
- » Structural Damage, Coatings, and Corrosion
- » As-Built Design to Document Marine Casualties/ Accidents (Slips, Trips, Falls)

**Using 3D scanning to minimize business interruption and return vessels to operation as quickly as possible.**

## Aerial Photography

Envista's ocean marine team is also equipped with FAA Part 107 licensed drone pilots available to assist with aerial photographic needs following a loss. Our engineers utilize drones to capture overall images of losses, physical damage to structures or vessels, and views of environmental impacts around the loss.

Our drone pilots provide marine footage including the documentation of:

- » Aerial Topside and Hull Inspections
- » Aerial Internal Inspections (Multi-Deck Tanks and Compartments)
- » Shore Structure Involved in Allisions
- » Navigation Channels Pertinent to Collision Investigations

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