

A full-page background image of an offshore oil rig at sunset. The rig's derrick is illuminated with warm orange lights, and the sun is low on the horizon, creating a bright orange glow and reflecting on the dark blue water. A crane is visible to the left of the main derrick.

Custom video management solutions for  
**Marine, Oil & Gas industries**



VDG Security's solutions ensure continuous safety and security, protecting valuable assets and the people aboard.

## Harsh conditions provide unprecedented challenges

Marine, oil and gas industries rely heavily on video security systems to ensure safety and continuity. Safety for the people working in this industry, its surroundings and the environment. Continuity on the business process of the customer. We understand the importance of video security in this industry and provide tailor made solutions that ensure safety, security and reliability.

Continuous video security is essential in this industry. Cameras and additional systems have to be resistant to the extreme external conditions. High quality images are necessary to provide a clear view of what exactly is happening and prevent possible disasters from happening.

VDG Security is the right choice when it comes to video security systems in this industry. Our systems are designed to work in the harsh conditions and provide a continuous, pro-active and clear view on what exactly is going on. We have the solution.

## Increased situational awareness

For increased situational awareness, and to contribute in cost-reduction, we provide tailor made solutions for centralized monitoring. This enables you to keep a closer watch on all activities aboard a vessel or rig, and enhance the safety of people and valuable assets. VDG Sense enables you to keep track of all video channels at the same time, by showing you exactly the images that require your focus or need attention.



## About VDG Security and VDG Sense

VDG Security B.V. creates innovative video management solutions. VDG stands for Video Development Group. VDG Security develops tailor made, flexible and integrated video management solutions for customers worldwide. VDG Security

offers innovative solutions to every security need. VDG Security is part of the TKH Group and the TKH Security Solutions. TKH strives to improve public safety and mobility through high-quality, reliable, and innovative security solutions.



## Custom video management solutions with VDG Sense

Managing the large amount of video channels, up to hundreds of cameras on just one location, can be a big challenge. It is virtually impossible for anyone to keep track of all of them. With our custom layouts, event driven macros and intelligence such as ObjectR for perimeter intrusion detection, our system operates pro-actively. Together with integration of third party systems, VDG Sense ensures a reliable, easy manageable video security system for operators on location, as well as from a distance, such as in a centralized control room on the shore.

## Redundancy to ensure continuous operation

When safety and security rely on video images, interruptions or failure is not an option. Therefore we offer redundant solutions, such as a hot standby failover server and "hot-swappable" hard drives. These ensure a stable operation, 24/7, without the loss of important video data.



## Detailed images for optimal safety

For optimal security and safety, high quality images are essential. Our solutions consist out of only the highest quality components offering up to 4K-resolution video. We also offer the possibility to convert existing analogue video signals to digital images using industrialized encoders making sure all video data is captured and stored in our video management system.

VDG Sense is the video management software (VMS) of VDG Security. With VDG Sense users are in control of all live images and stored video data. It is based on an open platform, tailored to the specific needs and requirements of its users, and can be

fully integrated into any security solution. With its many features and intelligent add-ons, VDG Sense is the most innovative video management software available.



## CASE

### Boskalis

Royal Boskalis Westminster N.V. (Boskalis) is a leading global services provider operating in the dredging, maritime infrastructure and services sectors. VDG Security has provided the solution to their need for a stable and flexible video displaying system for their vessel 'The Constructor'

MARKET SEGMENT	CLIENT	LOCATION	TIMESPAN
Marine, Oil & Gas	Royal Boskalis Westminster N.V.	Rotterdam, The Netherlands	2015

## A stable foundation for a flexible solution

In the old situation, the ship's CCTV system worked purely based on COAX cables, with an inflexible network and varying image quality. Flexibility and stability were therefore the most important requirements for the new CCTV system. Our solution provided a set hardware environment where only adjustments in the software needed to be made.

## Simplified Management

The client container, which can be placed on various locations on the ship's deck, has the challenge of rerouting the its network each time it's relocated. To solve this challenge, we placed junction boxes on strategic points on the deck. A connection is now made simply and easily. In the software, the ship's Offshore Construction Manager can easily manage the rights of every client and viewer, without having to physically change the cables such as in the old situation. VDG Sense makes this possible with a simple click of the button.

"VDG Security has proven that its technology and software is suitable for the high demands we set. Their cooperation, creative solutions and flexibility were what made this project a great success."

OSAMA JALALAY - PROJECT ENGINEER AT ROYAL BOSKALIS WESTMINSTER N.V.

## Analogue input digitally displayed

The ship's current analogue camera signals are converted to digital signals using EVE encoders. Through multicasting, the signal is sent to the various servers, clients and viewers. This is essential to ensure virtually no latency in the live video streams. The same goes for a few HDSDI / HDMI input signals. By using specialized encoders and a custom made integration in VDG Sense, the high quality images can be displayed anywhere on board, on every viewer and client.

## Improved protection of valuable equipment

The Constructor is often deployed for projects where divers are involved. They carry cameras that can be monitored from the ship. The same goes for the Remotely Operated Vehicles the ship is equipped with. VDG Sense makes it possible to monitor these processes real time and with the highest quality. This is essential for the safety of these divers and the protection of valuable equipment.