



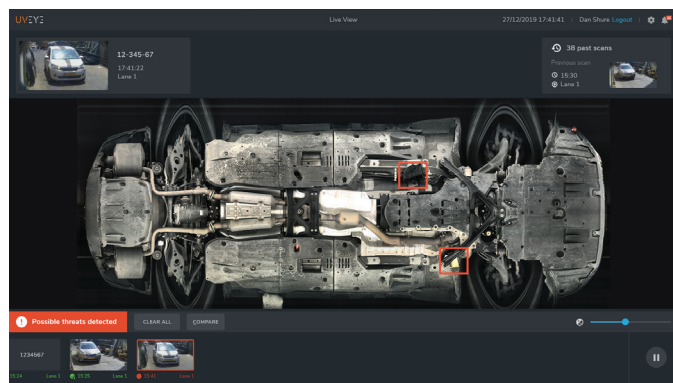
# Bank Case Study

## Background

One of the leading banks in Africa, which is situated in Kenya, has been a customer of UVeye for over 4 years. The bank employs several hundred personnel and has a vehicle access point which needs to inspect over 300 vehicles driving in and out of the premises daily.

Due to economic cyber threats in the last few years, banks have become a sensitive target for major data theft, and a crucial element that needed to be addressed was the ability to check recurring vehicles leaving the facility and trying to conceal external storage devices in the undercarriage of a vehicle. With that threat being addressed, there are also scenarios of armed robbery and weapon smuggling into the site.

Before installing UVeye's intelligent vehicle screening solution, the bank trained its personnel to manually inspect every vehicle entering or leaving the facility with a hand-held mirror. This measure could compromise their safety and relied on the limited visual ability of a person looking through a mirror at different angles.



## The Challenge

Given the scale of vehicles and the need to compare existing cars coming in and out, the average holding time at the access point could vary from 3-4 minutes per vehicle. The facility was in urgent need of improving the objectivity of its inspections, but just as importantly, of increasing the speed of its inspections to reduce the wait times for cars entering or exiting.

Inspection time  
**210**sec  
causing long queues

During all working hours, there were two full-time guards inspecting every single vehicle while obviously not being able to spot smaller external storage devices such as USB sticks that might be stuck or hidden in different areas of the undercarriage.

Understanding that the quality of inspection and streamlining the entry and exit process was a top priority, the security chiefs of the bank contacted UVeye. They asked for an automatic solution that can compare every vehicle entering or leaving the bank, and that is able to detect any modifications, smuggled devices or illegal weapons entering the facility and increase the personal satisfaction of visitors while reducing their waiting time.

### UVeye Facilitates:

- Scanning 9K private & armored vehicles a month
- Compare threat detection for recurring vehicles
- Comprehensive inspections

# The Solution

Helios by UVeye is setting the global standard for under-vehicle inspection. Equipped with five high-resolution cameras, the system can be installed at the access lane of the bank and automatically detect any illicit materials entering the bank.

Offering both single- and multi-lane stationary as well as mobile units, Helios has a feature called UVcompare that enables it to recognise vehicles by their license plate or unique undercarriage fingerprint ID and compare the vehicle to a previous scan. This feature can assist in detecting tiny objects such as USB sticks and external hard drives visitors are attempting to smuggle outside of the bank.

Advanced deep learning algorithms that were developed through training with millions of vehicles allow UVeye to offer its first pass solution, UV Inspect. Built on a truly intimate understanding of what a wide range of vehicles are supposed to look like in a variety of environmental conditions, UV Inspect can be used for vehicles that have not been previously scanned by a system. UVeye is the only under-vehicle inspection system (UVIS) vendor to offer a first verified, first pass solution that greatly increases the effectiveness of security teams.

## The Impact

After two site visits, the specifications and integration with bollards, arm barriers and a traffic light system have been planned, and two stationary undercarriage systems have been installed in a multi-lane of incoming and outgoing traffic.

The local staff was trained within several weeks of the installation, and the two guards who previously scanned with mirrors were now inspecting the undercarriages through a high-resolution image on a modern tablet while doing other tasks and approaching only suspicious vehicles that required the attention and care of the staff.

As a pass-through system that scans vehicles as they drive over the device at up to 30km/h, the bank's security team is now able to keep traffic flowing without compromising the quality of their inspections. One of the most important things for the bank was to increase the speed of entry and exit, and they achieved that, **reducing the wait time from an average of 210 seconds to just 10 seconds per vehicle, which is 21 times faster and increased the satisfaction of the regular personnel entering and leaving the premises.**

**50%**  
guard time  
saved for other tasks



In 2019, the local security chiefs tested the system several times. In one incident, the system detected a tiny hard disk device hidden by a vehicle's exhaust pipe. This event could have ended badly in a real-life scenario.

**21** times  
faster  
X access control



UVeye has simplified the documentation of inspections for the leadership, providing centralized, detailed reports of every vehicle, with the ability to compare past scans, which is often used for different purposes.

## Conclusions

Adopting UVeye's automated UVIS technology has given the bank's security team a set of objective tools to better manage and inspect any vehicle coming in and out of the facility. In a world where economic cyber crime is a big challenge, banks, data centers and other facilities need to adopt new technologies to keep the information they possess safe. Adopting an automatic solution to inspect the undercarriage of all vehicles coming in and out can ensure the safety of that information while not compromising personnel and employees' comfort when they enter and leave the facility.

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