



Safe Cities Infrastructure Security Report

A security industry shake-up with atrocities that could have been avoided

Viseum UK leads a report, strongly reflecting today's security climate, and issued only a short time after the company's announcement of its role for the international Safe Cities Initiative, shows that the world is now preparing for security risks that were previously assumed "would never happen to us". Following the many atrocities in recent global news, governments now have to accept "this could happen anywhere at any time".

This change in strategic planning is what Viseum UK has been preparing for since as far back as the year 2000. Put simply, its founder knew that procuring the cheapest CCTV cameras, and installing them in as many places as possible, simply didn't work. This strategy did, in fact, make things worse and has been proven to be severely flawed, because too many standard CCTV cameras need too many skilled people to watch and use them all, but too many criminals already knew this and will disregard them. Viseum UK's business mission was set out to make us all aware of these undeniable facts:

1. The security of an estate is usually a low priority consideration for the vast majority of the world's construction projects. The budget for security is rarely planned and the main contractor is usually left with the burden of installing the cheapest security products.
2. To meet these budgetary constraints, the vast majority of CCTV cameras in operation throughout the world today are of poor quality and have been built to inadequate standards.

Viseum UK is known for introducing Disruptive Technology, where its surveillance cameras and software solutions not only disrupt and deter criminals, but are changing how the CCTV security industry is evolving commercially. Buying cultures vary from region to region, but until now, favourite brand names and vendor relationships had often proved to be more important differentiators than a security solution's actual performance and reliability. However, demonstrations of Viseum solutions show such superiority that using any competing technology may compromise the customer entire security enterprise. This message is delivered to Viseum UK's international customers through its growing network of trusted government security advisers, and on occasions where appropriate, hand-in-hand with the UK's Government representatives.

This report shows how the International Safe Cities Initiative has started to save \$billions of financial losses and security operational cost overheads, and has also begun to prevent such incidents that could have resulted in catastrophic consequences.

Viseum UK is managing an increasing number of Safe City projects throughout the world, for countries who have already judged their security risks to be unacceptably high. Central to this are Viseum Red Team Services which are extensively used to identify ways in which a country's security defences could be penetrated. Hand-in-hand with this is the Viseum Blue Team Services, which then put the appropriate countermeasures in place for each customer's security and CCTV design.





Today the biggest problem that we all face is the risk of **Terrorism**. Places where people gather are now considered likely targets for mass killings, yet have always been the most technically problematic areas to deliver security.

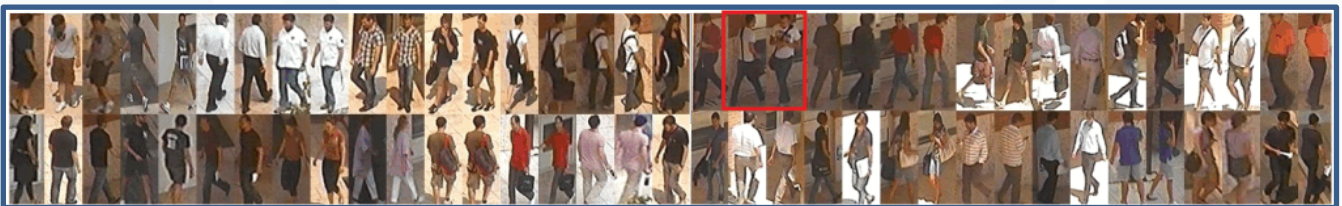
When criminals have intent they will carefully choose their moment to break through access control systems; they will outwit manned guarding patrols, and will evade the many different types of “high-security” standalone and surveillance operator monitored CCTV systems.

The following report shows just some of the serious security threats surrounding a City. Viseum UK is now helping mitigate these risks as part of **Safe City** initiatives:

[Airport Security](#)

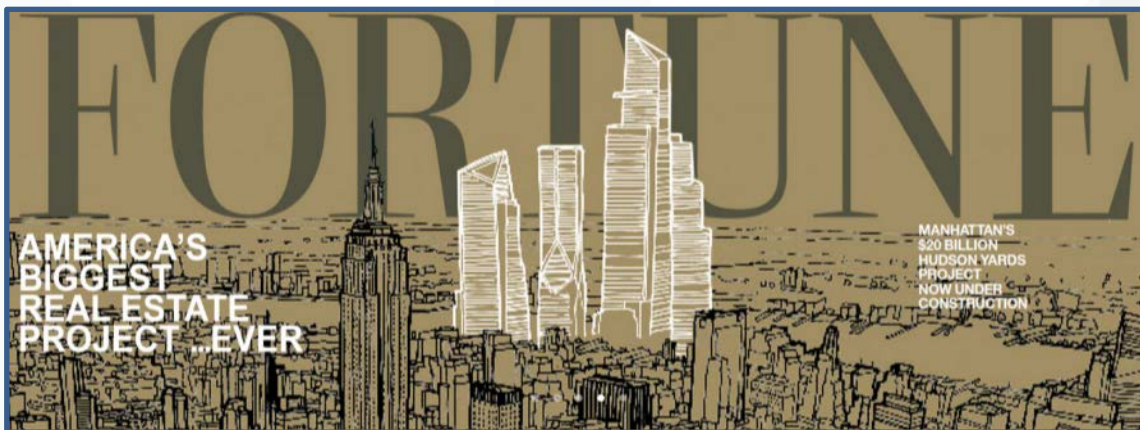
Airport Security is one of Viseum UK's strongest growth markets. The entire airport site is protected with the higher level of security as always, but using the Viseum iVOS F3 (Find, Fix and Follow) and Viseum iVOS FacRec software, each person's location and actions can be found and followed in both real time and retrospectively, delivering the safest available travel. Viseum demonstrations convince customers that they can not only save the significant staff training costs from a high turnover of personnel, but they can also improve the performance of their entire security operation.

Security risk – Until Viseum UK Red Team Services have been used, many international airports have not considered all aspects of terrorism and still only expect locally experienced low-level security threats. This could have catastrophic consequences.



Construction Site Security

This market grew from Viseum's involvement in the UK's construction industry, and in particular the protection of asset storage facilities. Another was for the new \$20 billion project in Hudson Yards in Manhattan USA. This construction project urgently needed extensive security coverage for its rapidly expanding real estate perimeter. The Viseum solution was a natural choice and once the capabilities of Viseum IMC cameras are understood, an additional requirement will be included for them to confirm and count the number of people and vehicles entering in the vicinity.



One example of Viseum's new markets in the USA

Perimeter CCTV Surveillance and Security

Our perimeter surveillance security solutions are superior because unlike all other perimeter security systems, criminals are unable to detect or locate a weak point across the whole boundary. This is because all Viseum camera points operate as if they are constantly manned. The technical performance and reliability of Viseum Intelligent CCTV security solutions produce the most effective surveillance equipment and software to deter, warn and defend against the threat of security breaches.

Security risk – The cost of construction plant theft was around £1.5 million a week in the UK alone, and construction site theft in general cost builders in the USA a staggering \$1 billion a year. Construction sites were inadequately protected but this loss has started to drop significantly and is expected to at least half over the next 3 years.





Critical Infrastructure Security

Power Plant Security

One of Viseum UK's first security projects to protect a national power infrastructure was for a nation in the Middle East. The first remote site was a newly built gas turbine power plant where heightened security was needed from the outset to protect the site's perimeter, and watch approaches to the perimeter from all directions at extreme distances, as well as surveillance of all activities inside the plant. The ideal solution was to use Viseum's Thermal and Radar IMC cameras operating in conjunction with Viseum's standard optical camera range.

Water Services

A water supply organisation in the eastern hemisphere, with 2 million customers and over \$12 billion worth of assets, is using Viseum to help protect its water supply, water quality and sewerage system. With over 400 remote locations, each with multiple access points and very few with any onsite infrastructure, Viseum technology, with its tailored solar power modules and secure long-range wireless broadband was the only feasible solution. The initial inspection of these remote sites revealed obvious signs of illegal trespassing and contamination, with meter boxes at many sites having been vandalised, and with water valve damage each costing \$15,000 to repair. The head of security for this organisation said "The Viseum camera is an exciting product and something we have long been looking for."

Security risk – Until Viseum Red Team Services have been used, some water service organisations throughout the world do not have sufficient security protection in place, where water contamination could have catastrophic consequences for entire populations.

[> Download Viseum Water Infrastructure Security Questionnaire <](#)

Situational Awareness

Viseum's overt cameras are the strongest available deterrent for criminal activity at any remote site. This is because they appear to be constantly manned by ever-alert surveillance operators. Crucially, Viseum solutions can also give the customer complete situational awareness and control over each individual security threat, as well as each scenario's development and outcome. Security staff can be confident of an early security alarm and can be fully primed to intervene and warn off a suspect or, at a moment of their choosing, to apprehend the perpetrator, whilst collecting high-quality video evidence to secure a conviction.



Temporary Public Events

Another strength of the Viseum camera technology is its rapid deployment capability, and Viseum **Intelligent CCTV Trailers** regularly protect events such as concerts and major public events. For example, Saint Patrick's Day Parade is Ireland's main annual public event. Seventy thousand people come to celebrate this festival and watch the parade. Just 5 trailer-deployed Viseum cameras protect this event and people who watch it.

Security risk – This event's organizers prepare for potential trouble, but the only suspicious activity reported is the presence of a number of suspicious looking people, who spend the majority of their time during this event, watching and studying the Viseum cameras looking back at them as well as actively protecting the parade.



Prisons

One of our first installations for the prisons sector was for the Irish Prisons Service. This prisons' primary security requirement is to keep prisoners inside the compound perimeter (fences and walls) with better CCTV coverage, giving greater accuracy and earlier warning of inmates approaching too close to the boundary.



The primary requirement for this was a cost saving and security improvement exercise, but as with all Viseum installations, the customer quickly realised that Viseum solutions can do more than just one security task at a time. This customer now also uses Viseum cameras for surveillance of inmates' circulation within the compound, as well as looking out for "perimeter pass through" where the smuggling of drugs and cigarettes is the biggest growing problem for all correction facilities.

Access Control Systems

Viseum's integration of access control systems can automatically allow permitted people/vehicles to move about protected areas relatively freely, and can automatically disallow others. Security staff can remotely open, close and lock doors and be aware of all access events as they occur in real time. All such events can be automatically date/time logged against relevant CCTV recordings, in order to present a coherent chain of events and provide evidence for any investigations needed.



> [Viseum Technology and Support Strengths](#) < This is a brochure presentation of our technical support and capabilities. It is very successful for Viseum sales training and provides our customers with confidence in our project support and delivery.



Legal Statement

We have invested heavily in the protection and policing of our intellectual property rights (IPR). Central to our business is the commercial protection we provide our partners in sharing these secured markets. We commit to the policing of this IPR in the following way: As with any infringement, its trade reseller is the primary target for legal action, which is, in turn, followed up by making the potential user aware of the infringing product's recall due to its illegal use. This is then followed up with full and complete legal action with the suppliers of such goods. This policy of proactive policing our markets in this way since 2002 has proven so successful that we have only ever identified one infringing party. A PLC entity was found to be trading with infringing goods and they can now no longer sell such goods into our international territories, nor can they secure investment due to this breach.

Viseum technology and software is protected by a number of intellectual property rights. Purchase of a Viseum-driven product from an authorized Viseum[®] supplier guarantees that it contains authentic Viseum[®] software, and carries with it a licence giving the purchaser permission to use the Viseum technology. Attempted use of Viseum[®] software without a valid license is in breach of international law.

Patents Granted European Patent > [EP 1 579 399](#) <, United States of America > [US 7,952,608 B2](#) <.

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