World’s Best CCTV Security and Surveillance

Automated remote detection and following of incidents

More coverage from fewer camera installations

More convictions using more video evidence

Optimising the key human element of surveillance security

Intelligent CCTV

FOR THE HIGHEST LEVELS OF CCTV SURVEILLANCE

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Any non-Viseum branded IMC system will be noticeably inferior and an illegal copy in breach of international law.

Viseum IMCs have been granted 20 years' patent protection.

One camera deployment covers up to the size of 4 Olympic stadiums.

The world's best CCTV security and surveillance camera

The world's only long range analytics 360° panoramic security camera

Britain's largest police force: "Our best crime deterrent." Described by them as a virtual gigapixel camera, a virtual CCTV operator and a virtual guard.

- Operates completely automatically covering vast areas – identifying, confirming and following incidents close up and in every direction.
- Multi-HD-Camera view of each incident – PTZ Camera close-up view and wide contextual views.

Customised software technology services:

- Making people's faces the world's greatest security weapon against crime and terrorism.
- Automatic detection, capture and processing of traffic violations for the world's safest roads.

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Made in Great Britain

CCTV Camera Installations

There are numerous common obstacles in delivering conventional CCTV surveillance cameras as part of a safety campaign, to provide any given area the security it needs. Lack of street furniture in suitable locations, lengthy civil works to run cables for communications and power, and concerns over privacy, are just a few barriers.

CCTV Camera Monitoring

Until now CCTV surveillance and security in complex and challenging environments, has always been the most technically problematic to deliver, and this puts the greatest strain on resources to support. Each year, security organisations throughout the world waste millions of dollars, and many thousands of man-hours, attempting to find just a few seconds of crucial video evidence, from days, or months, of recorded video. The vast majority of these efforts result, daily, in lengthy reports on why the CCTV evidence was not available or could not be used. This is usually because the incident was too far from a working CCTV camera, or was missed completely because the camera was pointing in the wrong direction.

Results from Legacy CCTV Systems

Criminals commit their offence within just a few carefully planned seconds, and are already making their escape before security staff notice. This means that even if the criminals are apprehended, on many occasions they cannot be brought to justice due to the lack of CCTV video evidence. The event will be classified as unsolved and the value of a client’s security infrastructure can be openly seen as worthless.

Other CCTV Technologies

CCTV security and surveillance professionals have not been able to solve these long standing problems. The world’s current technology solutions have proven unsophisticated - providing the human operator with “information overload” and often absolute saturation of “false positives”.

>> See public endorsements from as far back as 2004 where Viseum overcame these many constraints <<

The technical performance and reliability of Viseum’s Intelligent surveillance camera monitoring solutions, gives the most effective, easily set up and used security services available.

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Long Range 360° Panoramic Security Camera - Intelligent Moving Camera (Viseum IMC)

The only CCTV camera to automatically detect multiple incidents at long range and in all directions at the same time. It operates completely automatically controlling a moving PTZ (Pan, Tilt, Zoom) Camera to follow the required action and confirm incidents. With high quality close-up video evidence of even before the alarm is raised, it automatically reports incidents for rapid response and investigations.

At the heart of all our intelligent surveillance solutions is the internationally patented Viseum IMC panoramic security camera. This uses multiple fixed and one moving PTZ surveillance camera in a single unit, with advanced video analytics software called Intelligent Virtual Operator Software or “Viseum iVOS”. This delivers complete security control with constant visual verification and monitoring surveillance, to automatically follow suspects no matter where they each enter, circulate, or leave the remote site.

Rapid Effective Remote Site Installation

Rapid deployments for immediate vast coverage, Viseum IMC cameras quickly replace large numbers of ordinary CCTV cameras and cabling. The immediate result is a significant boost in security awareness and a vast reduction in support burden. Even at the most challenging remote sites lacking in all supporting infrastructure - our secure wireless communication and solar power modules deliver the best available security and surveillance.

World’s Best Security Value

This camera system is modular in design with Viseum’s Fixed Contextual View Cameras easily configured to cover specific areas of concern, or provide full simultaneous 360° panoramic coverage of vast areas. Depending on the camera hardware, and the optical or thermal sensors specified, each Viseum IMC can produce surveillance security from close range, out to any area up to the size of an airport, to automatically detect threats and with greater reliability than a human.

The Viseum IMC optical camera system has been independently endorsed to automatically secure an area the size of 4 Olympic Stadiums from just one camera installation. To achieve similar levels of surveillance coverage, it would typically need at least 6 human-operated advanced PTZ Camera solutions, more than 10 of the next best wide area megapixel cameras, or 200 ordinary fixed camera installations. The Viseum IMC thermal camera delivers high security for an area the size of New York City.

Long Term Security Deterrent

Criminals fear being observed and criminals are always deterred where they can see surveillance cameras actively watching their every move. Viseum’s overt camera models deliver the best deterrent effect by convincing would-be offenders that a proactive keen-eyed human operator has already spotted them. This is well proven to deter the criminal threat, more effectively than any other crime reduction initiative short of flooding the area with many security staff on high alert.

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When dealing with live emergencies and critical high-stakes investigations - time is of the essence and accurate information is essential. Even for the most advanced conventional command control technologies, an incident could be incorrectly classified or missed completely, because of CCTV camera operator availability, fatigue, infrastructure down times, or there is simply no camera located close enough to see the incident. This major weakness in an organisation's security enterprise could lead to emergency responses being too late, or the wrong response option being deployed.
**TODAY’S FUTURE-PROOF CCTV MONITORING**

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**World’s Best Situational Awareness**

The World’s Best Video Management System and Physical Security Information Management (PSIM) Software, operating independently from the command control, the Viseum IMC camera provides full visibility and control of the area under protection, and it does not need to rely on any surveillance infrastructure in order to proactively detect and capture incidents.

**Unique Extended Dual Video Evidence**

Easily positioned to cover more required areas, Viseum PTZ Cameras are trained to point, zoom into and follow events of interest, and Viseum’s Contextual View Cameras are highly valuable during live incidents and rapid investigations. This shows complete situational awareness and can rapidly recreate the event e.g. what else is happening in the area and who else is witnessing the incident.

**Greater Quantity and Quality of Live Video Information and Recordings**

Viseum surveillance camera products are designed to deliver the highest quality video information using the lowest bandwidth communications. For when a remote site’s communications speed may temporarily fluctuate, Viseum has also perfected the video image transmission technique called Real-Time Auto-Balancing Broadcast.

As well as the PTZ camera’s video typically being recorded centrally, its images and all Viseum’s wide contextual view cameras can also be stored locally, and of greater quality than can be transmitted over a typical wireless network. This makes them invaluable for primary evidential use or for distributed backup storage, for resilience against loss of evidence by removing any single point of failure.

**Viseum IMC Digital Integration to Command Control Video Surveillance Systems**

Digital Integration of the Viseum IMC camera into your command control, eliminates the need for operator training on the basic use of Viseum cameras. This delivers a higher level of security surveillance service with fewer CCTV operators. Only when relevant activity occurs at the camera installation, images from Viseum’s moving PTZ camera and wide contextual camera views can be displayed on the video wall and/or spot monitors. This reduces operator fatigue and maximises alertness, to prime the human response.

[www.viseum.co.uk](http://www.viseum.co.uk)
THE WORLD'S BEST CCTV SECURITY & SURVEILLANCE SERVICE
The fastest and most accurate complete end-to-end security and surveillance service.

The most advanced surveillance cameras in the world working hand-in-hand with leading remote surveillance monitoring services, results in the best of both worlds, where intelligent automation interplays with human vigilance. For the complete ground truth and situational awareness, this new partnership optimises the key human element of security, by not depending on it to detect and capture incidents and index its evidence. Incidents are reported in sufficient detail to be dealt with in the most rapid and effective way, and your security personnel have more time to react in making the key decisions for responding.

24/7/365 Constantly Vigilant Security Control

This future-proofed security system optimises a remote site’s first responder services. Crucially, Viseum solutions can also give the customer complete situational awareness and control over many types of security threat, development and outcome. Security staff can be confident of an early security alarm and can be well 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 conviction.

Rapid Crime Clear-up

Once the security breach is confirmed and the response alarm is raised by remote monitoring services, the relevant local authorities will be given information that somebody has entered the area. They can also be shown a detailed description of the person(s) committing the incident, where the suspect can be located, where else they have been throughout the site and what else they have been doing.

If the suspects are apprehended during the incident - even if they were wearing hoods or any type of facial mask, the detailed forensic video information of their particular clothing (brand logos, material, etc), usually encourages a confession. Even if suspects escape the scene, this detailed video evidence is proven to help authorities investigate, recognise, identify and convict.

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Intelligent Virtual Operator Software (iVOS)

The CCTV industry standard remote site deterrent for automated security and situational awareness, Viseum iVOS has set the security industry’s gold standard for advanced intelligent video analytics software and digital image processing techniques. It analyses live and recorded video with greater accuracy and reliability than security personnel, to remotely detect threats, and exploiting our cutting-edge automated face, person, vehicle detection, recognition, indexing and re-identification methods.

Viseum iVOS F3 (Find, Fix and Follow) early prototypes known as “tag & track”

Geospatial Information System - Giving you the highest available levels of Situational Awareness, security staff and first responders can be given clear information of a live incident and made aware of what already happened. Management and judiciary can also be presented for the first time with an unbroken thread of high quality video evidence with which to convict:

Find - During a live security incident, or in post-event analysis, the ability to automatically identify a target (vehicle or person) by Viseum iVOS, or manually “tagged” by a CCTV surveillance operator.

Fix - F3 then automatically secures a locational “fix” on the identified target before locking onto and automatically re-identifying it, as it appears in various security cameras throughout the surveillance network.

Follow - F3 also calculates the target’s route, predicts its destination and primes other cameras and security staff with the right information at the right time to follow further or to intercept.

Viseum Face Recognition Software (iVOS FaceRec)

Independently proven to be the world’s most effective weapon against crime and terrorism, the Viseum face recognition system has overcome the many long-standing problems associated with camera-to-camera input and storage device compatibility. Now, many cameras and recording devices can be used in conjunction with our FaceRec software for person profiling. Perfectly complemented by other unique Viseum iVOS features, FaceRec has countless security applications from counter-crime, homeland & border security, access control to employee management.

Viseum Automatic Number Plate Recognition (iVOS ANPR Ingenuity)

Viseum’s data manipulation expertise has again overcome the numerous compatibility issues associated with ANPR technology. Usually, specific ANPR cameras are a pre-requisite. However Viseum ANPR Ingenuity now allows non ANPR-specific, analogue and digital cameras to be used to detect and recognise vehicle number plates with greater confidence than ever before.

Viseum ANPR’s wide-ranging utility and applicability is a key strength. It already integrates with many security and business-related systems, and our strong software integration capabilities and resource, allow us to customise it very specifically to meet each customer’s requirements. People and vehicles are automatically allocated to and checked against security Watch Lists, for alerting security staff and to be followed automatically. Example - a VIP or a suspect can be followed through a city, and live reports of incidents and events are sent to the security staff as either alarms or simply as situation awareness.

Highway safety and security cameras are another example of the many legacy units that Viseum systems enhance and advance. Working together in harmony with any number of other digital systems, Viseum can automatically detect and flag traffic flow, road safety violations, access contraventions and vehicle accidents, so that they can be managed in the most efficient way.

Viseum iVOS
Designed to control the long term deterrent for each particular remote site.

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Viseum Central Intelligent Video Management System (CiVMS)

The Viseum CiVMS is the world’s only all-in-one intuitively setup and operated video management system, for the most accurate and informative PSIM Software for Physical Security Information Management. It harmonises all hardware security assets and software processes, from Viseum iVOS advanced central video analytics software, PSIM command control, scalable NVR/DVR systems, virtual matrix, to client work stations and Smart Phone devices.

Viseum CiVMS F3 Command Control User Interface

An important strength of Viseum’s iVOS F3 functionality is the optimised user interface of its Geospatial Information System, using flexible intelligent algorithms. The surveillance operator’s interface changes dynamically based on geospatial information of an event and threat level e.g. terrorist, theft or misdemeanour, escaping on foot or by car. Also, operational maps of assets, galleries of faces, people and vehicles can be presented either based on predefined red, black and green Watch Lists, or dependent on each security personnel’s particular emergency control requirements.

Optimising Legacy Security System Architecture

The modern security practitioner recognises that Viseum represents a paradigm shift in security, surveillance and video analytics capability. With much already invested in sub-optimal legacy systems, potential customers will fear that there is no realistic prospect of a complete refit and upgrade to an all-Viseum intelligent camera and management system. However, Viseum software is hardware independent. Viseum iVOS and CiVMS Software Technology Services and Viseum cameras are designed to be retro-compatible with a customer’s legacy systems and any other camera. Once Viseum software is commissioned, security professionals can be assured their legacy camera installations are also future proofed with our intelligent analytics, their video wall will spring to life for the very first time.

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