

Viseum's Virtual CCTV Operator Assistant is the world's leading Intelligent Moving Camera (IMC) CCTV software and Viseum's international patent is testament to this. Operating inside Viseum's CCTV Camera Controllers, this software is at the heart of all Viseum-driven IMC products.

It is an advanced video content analysis software system providing line of sight CCTV surveillance coverage from high resolution fixed analogue contextual view cameras, automatically driving the industry's leading brands of PTZ camera, to provide the highest level of CCTV protection for open space areas environments.

Working completely standalone or integrated with remote CCTV monitoring control rooms, Viseum IMCs are well proven to provide 25 times more court quality evidence than any other camera solution, by giving greater coverage than multiple fixed camera installations and better performance than intermittently manned PTZ moving cameras.

Base Software

By automatically learning its environments, and ignoring rain and other movements such as trees and bushes blowing in the wind, the Virtual CCTV Operator Assistant software permits effective monitoring night and day in all types of weather (subject to available ambient light).

Incident detection and behavioural recognition capabilities are based on the study of objects in real-time environments to meet specific salient surveillance requirements for populated and unpopulated open areas that generate random crimes. It measures and compares various parameters relating to the basic laws of physics, such as size, shape, time, speed, and location, and then applies decision rules based on local knowledge of the environment to recognize particular types of activity in particular areas.

Automated Detection/Reaction

To achieve its excellent day and night detection performance and the quality of contextual evidence required, the Viseum software uses fixed analogue cameras to the highest specification available. These cameras detect activity just as well as the human eye in low light conditions, and combined with its disciplined automation in maintaining vigilance, the VOA software is well proven to detect activity further than the CCTV operator can, day and night.

Matching the performance of the detection system, the fully automated reaction system uses the industry's highest specification PTZ cameras to maintain greater accuracy at distance and provide consistent high quality close-up evidence.

Automated Activity Selection (Pedestrian or Traffic)

Developed through listening and watching many UK CCTV operators, by default this software uses a points system to select targets based on where they are and what they are doing. This means that if there are several activities meeting the same surveillance profile, the system will target the activity with the most points.

Where several events occur simultaneously, it can be instructed switch the PTZ between events using this points system and the activities' location. This allows close up evidence to be captured of everything and has the added benefit of ignoring potential diversion tactics.

Automated Optical Zoom Control

Key functionality of Viseum's Virtual CCTV Operator software is its ability to automatically meet UK Home Office Guidelines for zoom levels required for court evidence. The method of selecting the appropriate zoom level is easily adjusted to meet operational policies or individual user requirements.

Manual PTZ Control

Using Viseum's Graphical User interface (GUI) the PTZ can be manually moved to where needed at any time. For rapid manned response, Viseum's advanced "Point and Go" functionality can be used to have the PTZ go to wherever needed in just one click of the screen.

Proactive Alert Options

User specified triggers are set by Viseum's RMS to proactively alert manned response unit using the following central control room and mobile phone based options:

- Audio Alert
- SMS Text
- Images of the trigger sent via MMS



"This is something our industry has long been waiting for and its scope for deployment is immense" (Major Installer)

Want to know more?

Contact us on +44 (0)1322 405724 or visit www.viseum.co.uk

Viseum IMCs have been granted 20 years patent protection

Any non-Viseum branded IMC system is either noticeably inferior or an illegal copy and in breach of International Law

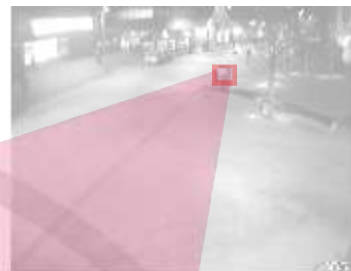
European Patent 1579399, International Patent Pending: PCT/GB 03/04691, PCT/GB2006/001414 Canadian Patent Pending CA2505340

Surveillance Profiles Scheduling

Libraries of standard surveillance profiles are available to fit the majority of real-life environments, and new profiles are produced for bespoke applications.

Viseum's Remote Managed Support (RMS) services are on-hand to help ensure the profiles are optimised for each area under surveillance.

These profiles are easily selected from a drop-down menu and any number of different profiles for any number of specific areas can be set for different times of the day over a seven day period.



Hot Spot Prioritisation

Any number of areas are easily given 1 of 3 levels of priority. For example, areas where you are expecting certain activity can be given relevant priority:

- Fly tipping – catch people in the act and see where they come from and go to
- Focal points for illegal street drinking – catch close up evidence of offenders and brands of drinks
- ATM Machines – catch PIN skimming devices being attached and cash robberies
- Drug dealing – focus on regular meeting points and catch transactions



Viseum Graphical User Interface (GUI)

Many end users may never need to use the Viseum Graphical User Interface (GUI) because this will be left to their installers to manage. However for those who want to benefit from Viseum's online remote camera control or post-event video retrieval, all that is needed to get started is to be familiar with browsing the internet.

This browser based GUI was developed through listening to end user needs, to be very familiar and easy to use. Using your PC, or laptop, using any operating system with any web browser software, you can securely access the Viseum GUI.



Multiple Modes of Operation

- Passive - fully automated scouting for long term deterrent and post event analysis
- Reactive - automated scouting to trigger alerts for fixed or mobile manned response
- Manual override - web browser interface

Standard Graphical User Interface

- HTTP or HTTPS access depending on security level required
- Remote or local secure access from any fixed or mobile IP communications
- Remote Commissioning
- Supports home and mobile working

User Administration

- Easy and secure Single or Group user access and permission management
- User Profiles - each user or group can be given different permissions to administer and use the Viseum system
- Adaptive GUI - the Viseum GUI automatically adapts its presentation to match the user's profile



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Providing unrivalled DVR and CCTV camera solutions for open space CCTV surveillance, the Viseum DVR runs directly with the Viseum Virtual CCTV Operator software inside the range of Viseum's CCTV DVR Camera Controller products.

Optimised to be used remotely via entry level wireless or wired TCP/IP broadband services, using any web browser. Viseum's CCTV Camera Controllers use industry-leading UK Home Office compliant evidence authentication, audit trail and communications security features to ensure the integrity of the evidence gathered.



- Court quality evidence - JPG frames time-stamped, watermarked, and can be encrypted for authentication.
- Synchronised extended dual evidence recordings - Close up recordings from the PTZ matched to the wide contextual view recordings
- Archived video interrogation optimised for rapid remote investigations:
 - Optimised internet video streaming (secure YouTube techniques)
 - Colour coded event thumbnail presentation
 - Activity overview graphs
 - One-touch event navigation
 - Bookmarks – for rapid event reference
- Recordings are downloadable in user selectable movie player formats, and at various qualities to suite available investigation time, e.g. from rapid low quality images for local intelligence, up to the highest the quality court evidence.
 - Windows Media Player or SMPlayer
 - Windows SiraView player - play all camera views at once
- Advanced encryption privacy - Option for images to not be viewed by any unauthorised persons.



(The Advanced DVR Software is sold as part of the Virtual CCTV Operator Assistant software.)



Advanced Add-On Functionality

The Viseum software can be further enhanced with value add features and functionality:

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ Virtual CCTV Operator Assistant <ul style="list-style-type: none"> ■ Scenario based surveillance profiles ■ ANPR surveillance profiles ■ Colour profile suspect recognition ■ Sound recognition | <ul style="list-style-type: none"> ■ Advanced DVR Software <ul style="list-style-type: none"> ■ Smart searching (Viseum Videosweeper) ■ One-touch burn to DVD |
|--|---|

- Enhanced central control room integration
- Touch Screen Functionality
 - PTZ "point & track or go"
 - 'Hot Spot' management
 - Optimised human-machine interplay
- Privacy - management records (suspect selection)



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The Virtual CCTV Operator Assistant software operating system is based on the highly robust Linux platform. This robust software package is now available to support the many different hardware architectures available today. This makes hardware procurement both easier and more cost effective, and encourages the integration of the Viseum IMC technology with more third party products.

Hardware Manufacture & Quality Control Management

The Viseum software system is future proofed by providing single pixel definition from its fixed analogue cameras and matching PTZ camera control accuracy. As camera hardware technologies improve, the Viseum system's detection and evidence gathering range and performance will increase with them.

To ensure quality control and legal production of any product using Viseum software, an advanced licensing encryption system is implemented during the build process of any system using Viseum software, using a variety of hardware certification processes.

Hardware Maintenance

Immediate or potential hardware problems are dealt with as they occur using Viseum's Remote Managed Support watchdog and self-repair services. For ease and efficiency of maintenance, the unique local application configuration and certification is securely backed up on the AiSU's Compact Flash card.

Third Party Product Integration

The built-in Viseum protocol analyser enables integration with any command control equipment using major brand PTZ protocols to enhance the performance of any control room operations. Using the Viseum SDK and API, third-party products can be integrated with and benefit from enhanced Viseum software functionality.

Bespoke Viseum Developments on Request

A custom GUI can be built. Any PTZ protocols can be supported following quality control and patent licensing.



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