

VISION ANALYTICS /



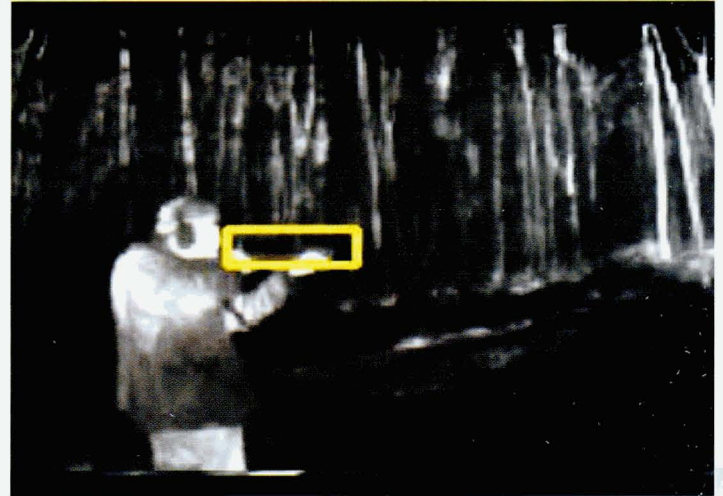
AiSolve has a range of innovative products ready for immediate installation as seen in this brochure. In addition to this, our core expertise and business track record is in developing bespoke solutions from R&D through development to operational deployment.

interactive, immersive, 3D technologies



A.i.Solve

Ai Advanced Analytics – Surveillance & Alert System (AAA-SAS)



This automatic real-time video surveillance and tracking software has an extensive range of capabilities, which can be easily fine-tuned to meet a client's exact surveillance requirements. At the core of this system's innovation and adaptability are our advanced surveillance tracking algorithms. In addition to the ease of customisation our product can be integrated with exiting CCTV hardware and run in conjunction with other surveillance software applications. The AAA-SAS integrated visual and object analytical function provides a comprehensive and reliable surveillance system as follows:

Visual and Object Analytics:

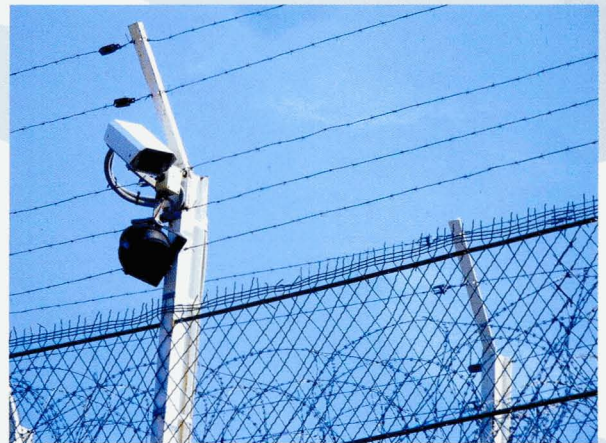
- Identifies and tracks individuals and multiple people and objects.
- Identifies and tracks people and objects that are partially obscured.
- Identifies and tracks people and objects that pass in and out of camera coverage.
- Keeps track of individuals and objects in complex and dynamic environments, such as crowds.

General surveillance features:

- Customisable inclusions and exclusions within multiple monitored areas, (e.g. automatically alerted when an exception enters a monitored area and or something is removed).
- Tracks multiple individuals and objects.
- Automatic exception reporting and security alerts and alarms
- Configurable tolerances for setting variable levels of security alerts and alarms.

General system features:

- Operates with both indoor and outdoor cameras.
- Functions in all natural and artificial lighting conditions.
- Operates with infrared, colour band, and image intensifier cameras.
- Operates on multi-camera networks.
- Can be upgraded with the addition of our facial recognition surveillance system.



Our system will recognise objects of a different size, colour, orientation, rotation, scale and velocity. These objects can range from weapons through museum artefacts to manufactured goods and live animals. This accurate analytical recognition assist in preventing predetermined objects from entering a monitored area, and those objects that should remain such as valuable artefacts do so.

Typical users of these products, who are concerned with security and safety, include:

- Law enforcement agencies
- Military
- Museums
- Zoo's
- Manufacturers
- Transport hubs
- Public spaces such as shopping malls and streets
- Secure government and commercial zones

Ai – Facial Recognition Tracking (AFRT)

Our AFRT software application can identify and monitor persons from preloaded records or once they have been observed by the live system and tagged for ongoing surveillance. For example:

- the system will issue an alert when a known person for surveillance enters a monitored zone
- a person or persons first observed in a monitored zone can be tagged for ongoing surveillance even when they move in and out of monitored zones

The robustness of the system is based on facial geometry and feature statistics. The quality of our facial recognition functionality assists a number of demographic computations such as:

- people counting
- people profiling
- gender recognition
- and other classifications that can be easily programmed

The software enables live and historical analysis of dynamic people interactions such as crowded streets and public gatherings and it supports:

- Tracking of multiple people
- Tracking people over multiple cameras
- Recording and storing images and their associated data
- Colour, infra red and image intensifier cameras



Ai – Moving Vehicle Tracking System (AMVTS)

Our fast moving vehicle tracking system can be deployed on a number of platforms, (manned or unmanned aircraft and helicopters), to track fast moving vehicles. The systems algorithms ensure reliable functionality in complex surveillance situations such as:

- Immediate change of direction by either the camera platform and or the target vehicle.
- Partial visual obstruction of the target vehicle.
- Target vehicle momentarily off camera, (e.g. entering a tunnel or dense trees).
- Remaining locked on the target vehicle even when a similar vehicle enters the frame.
- Tracking multiple vehicles.

This system is designed to accommodate the demanding rigors of operational use by both law enforcement and military operatives. It can be quickly deployed and customised for specific tasks; and the quality of its operation is not adversely affected by rain or by platform and weather induced noise and vibration.

The system can be deployed in both overt and covert operations, and in all weather and lighting conditions, due to its compatibility with colour, infra red and image intensifier cameras.



About Us

AiSolve Ltd is an innovative award-winning R&D and technology product delivery company. Our core expertise is developing cost effective 3D Simulations and Vision Analytics for the mass market and specialist end-users. We have delivered inventive hard and software solutions to leading high street brands such as Tesco Digital , Coca Cola, and Autoglass; and educators like University of Bedfordshire, Coventry University, Apprenticeship Training Limited and Train4trade Skills.

At the core of our business is a co-located team of specialists in Image Processing, Artificial Intelligence, Game Development, Mechanical and Embedded Systems Engineering, Augmented Reality, Human Computer Interaction, and Computer Graphics. This system of technical collaborative working, in conjunction with our dedicated customer and sector engagement, ensure that our turnkey products meet sector, organisational and individual end-user requirements.

Our proven R&D and technical development work is managed within a rigorous and visible project management environment. This ensures that initial high-level business requirements can be progressed with confidence, in collaboration with our informed clients, to develop and deliver an innovative technical solution that is the hallmark of our work. It also ensures that risks inherent in R&D are minimised and that development work remains within the agreed budget.

While AiSolve has a range of innovative products ready for immediate installation, our core expertise and business track record is developing bespoke solutions from R&D through development to operational deployment.

Head Office

AiSolve Limited
Courtney House
12 Dudley Street
Luton, Bedfordshire
LU2 0NT, UK

E: contactus@aisolve.com
T: +44 (0) 1582 851690
F: +44 (0) 1582 725158

Development Studio

AiSolve Limited
Clody House
90-100 Collingdon Street
Luton, Bedfordshire
LU1 1RX, UK

E: contactus@aisolve.com
T: +44 (0) 1582 851690
F: +44 (0) 1582 725158

www.aisolve.com