

SOLUTION CATALOGUE

A comprehensive overview of Bi3 solutions



ABOUT BUSINESS INSIGHT 3

Founded in 2009, as a security solutions organisation, Bi3 rapidly evolved to go further, introducing Business Intelligence and Software development as core components of Bi3's operations. As early adopters, we have pushed the boundaries and collaborated with international suppliers to provide high-quality and high-performance analytics that surpass other available solutions.

ADDING VALUE WHERE OTHERS CAN'T

Business Insight 3 combines robust, out-of-the-box solutions with the flexibility to tailor technology around each client's operational reality. Unlike one-size-fits-all providers, we recognise that no two sites are the same. Via our in-house expertise, project management, and our wide range of technologies, we adapt solutions across sectors ensuring meaningful insights, measurable impact, and long-term value for our customers and partners.

EST. 2009

SPECIALIST DEPARTMENTS FOR...



SECURITY

A specialisation in high-quality security solutions that outperforms competitors, focused on perimeter security across video analytics, ANPR & secure room tailgating.



BUSINESS INTELLIGENCE

The art of the possible - Business Intelligence department's video analytics solutions extend beyond security, encompassing H&S, operations, behaviors, and much more.



SOFTWARE

A continuation of BI, Software adds an extra layer of features by incorporating dashboards and customisation at its core. The Bi3 Software Department provides more data and functionality to BI solutions, whilst delivering its own SaaS benefits.

BI3'S PHILOSOPHIES

Mitigate Risk | Improve Compliance | Deliver Data



Founded in 2009

Bi3 was established in 2009 with a forward-thinking philosophy and was an early adopter of video analytics. Since then, in addition to security analytics, Bi3 has broadened its offerings to include a wide array of Business Intelligence solutions.



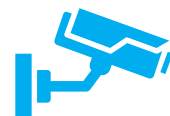
UK Based - Only High Quality Solutions

Bi3 is a UK-based company that manufactures much of the hardware our solutions use. This also extends to providing repair services and first-level technical support within the UK for rapid response.



Experts in AI

As we stay at the forefront of technology Bi3 is an early adopter of AI technology to mitigate risk, improve compliance, and deliver data using server based AI technologies.



Enhance your existing CCTV infrastructure

All Bi3 video analytics solutions are tailored to complement your current CCTV infrastructure, enhancing your security system's capabilities with advanced security and Business Intelligence technologies. This approach helps you avoid high initial infrastructure change costs, which adds value and improved ROI.



Best-of-breed International Partners

Bi3 is based in the UK; however, we collaborate with various technology providers from around the globe. We take pride in partnering exclusively with those who share our belief of the right solution for the right job.

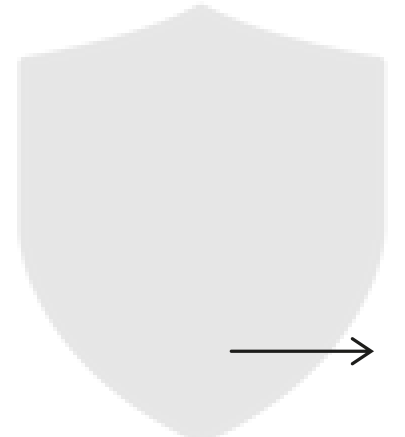


Adapting to clients' need

Different clients have unique requirements, Bi3 is flexible enough to meet those needs. With the right personnel and necessary skills, we can tailor solutions and technology to accommodate specific demands when required.



Security Solutions



SECURITY SOLUTIONS



Perimeter Intruder Detection VA

We combine our current market leading video analytics, with the most advanced Deep Learning technology for a comprehensive CCTV-agnostic solution. Our security analytics are the only NPSA-accredited, AI and Machine Learning combined intrusion detection solution in the UK. We accurately and reliably detect intruders and avoid common false alarm triggers.



Thermal Imaging

Enhance your detection range and reliability, particularly in low-light situations, by using thermal imaging CCTV. Bi3 provides a best-in-class intelligent thermal imaging CCTV & Sensing solutions. Ideal for complex applications as well as long and short distance security scenarios.



ALPR

High-performance video analytics, with a focus on License Plate Recognition in any scenario from any platform to count, log and manage vehicles efficiently via ALPR technology. We accurately identify license plates, automate barriers, alert on specific lists and provide the associated reports & data.

Bi3 security solutions are designed for high-security scenarios. Bi3 exclusively provides top-tier technology that meet the highest standards of accreditation, performance, and reliability. When utmost security is essential, our offerings are indispensable. With a focus on high-net-worth individuals, Data Centres, Solar Farms, and Critical National Infrastructure sites in the UK, however with applications for all industries & sectors.



Under Vehicle Scanner

Our Under Vehicle Scanner provides automatic identification of foreign objects or modification to a vehicle's undercarriage. We highlight these changes to assist for fast and safe inspection, using highly efficient scanning technology. Available for temporary, semi-permanent and permanent deployments.



Anti-Tailgating

Our award-winning anti-tailgating solution offers an additional and essential security layer to existing access control systems where authorised people only is mandatory. Complementing area restriction units such as doors, mantraps, airlocks, e-gates, or turnstiles.



CPIM

CPIM, a Centralised Platform for Integration & Monitoring, is a solution that consolidates all site sensors for both Security and Business Intelligence. It centralises alerts and management of technology on a platform designed for extensive integration capabilities.

MORE SECURITY



Intrusion



Vandalism



Fighting



Wrong detection



Climbing



Protesting



Camera tampering



Left object



Weapon detection



Running detection



Pose recognition



Crawling



Tailgating detection



Removed object detection



Throwing objects



Graffiti



Watchlist detection



License plate recognition



Business Intelligence
Solutions

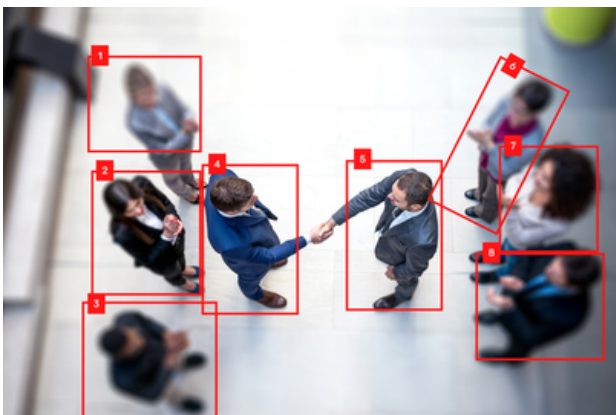
BI



Human Detection Solutions



Bi3's Human Detection solutions offer a comprehensive range of analytics designed to mitigate risk, enhance compliance, and deliver valuable operational data. This portfolio incorporates features that manage and track individuals, providing deeper insights whether they are on a high street or within a factory or warehouse setting. All Human Detection solutions function through CCTV infrastructure, ensuring seamless integration.



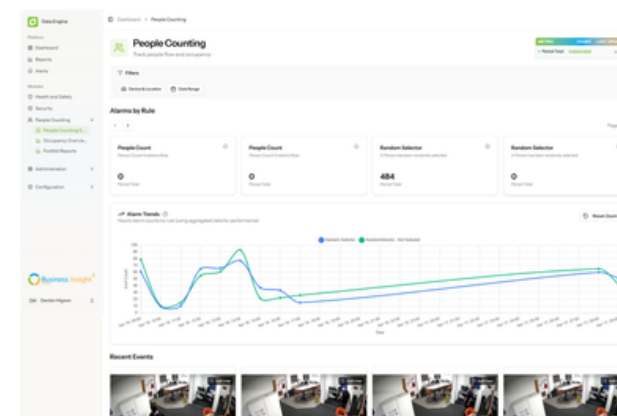
People Counting

People Counting is a critical detection model and serves as the basis for many other analytics solutions. Build a clear understanding of fluctuations and patterns of people flow.



Occupancy

Determine the occupancy levels of sites, zones, or rooms across multiple locations. Manage occupancy effectively by utilising verified data and set up alerts to notify when minimum or maximum occupancy thresholds are reached.



Bi3 People Counting Dashboard

Create a tailored dashboard that combines analytics and existing sensors, showcasing data through visual graphs and charts. This will allow users to export reports to gain insights into footfall, patterns, peaks, troughs, and more...

HUMAN DETECTION



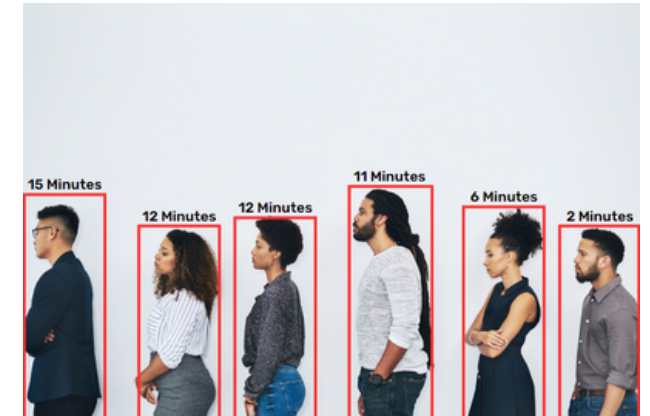
Transit Time Monitoring

Track and measure the travel time of individuals between two or more points. This data can provide valuable insights into movement patterns, helping to identify bottlenecks or areas where improvements can be made to enhance efficiency.



Dwell Time Monitoring

Measure the duration a person spends in a specific area, which can be defined by a site, room, or a section within a room. Create a visual heatmap to represent this data, enabling you to make informed decisions effectively.



Queue Time Monitoring

Keep an eye on queue lengths, a common practice in retail and cafeteria environments, to optimise the flow of customers and boost conversion rates.



Human/Vehicle Near Miss

Use CCTV to monitor instances when a vehicle and pedestrian come into close proximity, generating alerts to pinpoint locations of frequent near misses. This enables proactive measures to be taken before an incident occurs.



Anomaly Detection

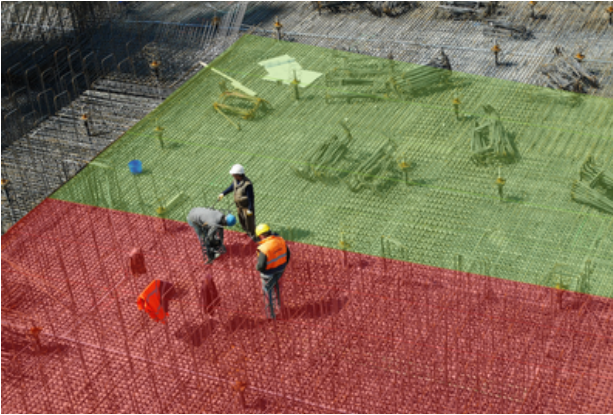
Detect and notify specific behaviours of individuals, such as person with hands up or Person on bicycle. Create datasets documenting these incidents, and set up alerts to notify you when an incident occurs.



Vape/Smoking Detection

Identify individuals vaping in unauthorised areas, such as warehouses. Trigger alerts and collect data on these incidents to strengthen on-site policy enforcement.

HUMAN DETECTION



Hazardous Zone Monitoring

Keep an eye on hazardous areas in warehouses, factories, and construction sites. Activate alerts when individuals enter these zones to enhance health and safety on-site, and establish maximum occupancy limits for dangerous areas.



PPE Detection

Monitor and notify regarding any breaches of your on-site PPE policy. Identify hard hats and vests, ensuring they meet compliance standards across the entire site.



Slip & Fall Detection

Utilise CCTV to detect when an individual falls and is unable to rise without assistance. Alerts will be triggered after a set period of time.



Vehicle Detection Solutions



VEHICLE DETECTION



Vehicle Counting

Examine vehicle data and leverage it to draw comparisons with other data points. This approach will help you uncover insights and improve data-driven decision-making.



Traffic Congestion

Utilise analytics to identify vehicle congestion and activate alerts as soon as congestion starts, allowing for timely response measures to alleviate the situation.



Traffic Light Compliance

Utilise analytics to connect vehicles with traffic lights, ensuring adherence to traffic regulations or on-site vehicle movement policies.

Bi3's vehicle detection solutions deliver extensive data and management capabilities for vehicles in various scenarios. Whether for highway applications or internal site management, Bi3 offers a range of solutions that improve oversight of vehicles entering or navigating the area. For many features within Bi3's portfolio, you can combine multiple solutions to create a comprehensive package that covers vehicle, human, and object detection analytics.



Wrong Way Detection

Detect when a vehicle is moving in the opposite direction of the approved path. This can be particularly effective on roadways or within sites as part of a comprehensive on-site vehicle management system.



Speed Detection

Identify the speed of vehicles either at a fixed location or as an average over a certain distance. Establish a data center focused on speed policy violations, and activate alerts and evidence when such violations take place.



Stopped Vehicle Detection

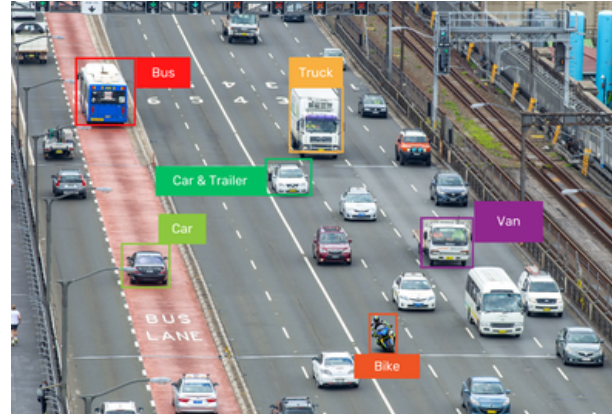
Monitor when a vehicle halts in an unauthorised area. Activate alerts for prompt action, or analyse vehicle stopping patterns to enhance decision-making.

VEHICLE DETECTION



ANPR & Barrier Control

Utilise ANPR beyond security measures
Implement Automatic Number Plate Recognition (ANPR) not just for controlling barriers and vehicle access, but also throughout the site to monitor vehicle movements and manage their locations.



Vehicle Categorisation

Identify various vehicle types such as buses, cars, bikes, vans, etc and create a comprehensive database of these vehicles. For instance, monitor delivery trucks within specific zones or prevent cars from accessing logistics hubs.



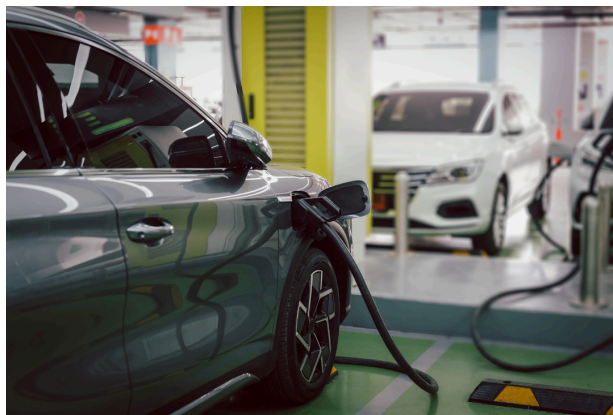
Car Park Usage Metrics

Completely oversee usage metrics for car parks, whether small or large. Integrate with booking systems to analyse the usage data, allowing for more informed decision-making regarding the site.



Unmanned PFS Solution

Implement comprehensive health and safety, along with security monitoring at unmanned petrol stations through a suite of video analytics solutions. This will help ensure the safety and security of both the infrastructure and the facility users.



EV Charging Point Monitoring

Monitor EV charging stations to collect data on their usage and occupancy, while also identifying instances when vehicles occupy these spaces without utilising the charging points. Additionally, integrate smoke detection systems for enhanced safety in the event of a potential fire at the charging stations.



On-Site Vehicle Logistics

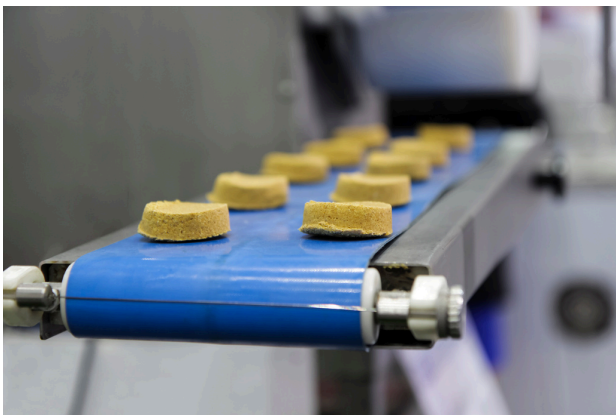
Develop a comprehensive vehicle logistics hub package that includes vehicle bay monitoring and on-site policies. Design and create an extensive analytics package to achieve a complete understanding and control of high-traffic vehicle areas.



Object Detection Solutions



Bi3's object detection solutions provide a versatile array of applications, ranging from warehouse production lines to health and safety detection features. Often, Bi3's object detection capabilities work seamlessly alongside human detection solutions to deliver comprehensive answers to the specific data needs of each site. Since every location is unique and requires different solutions, Bi3's object detection systems are designed for adaptability.



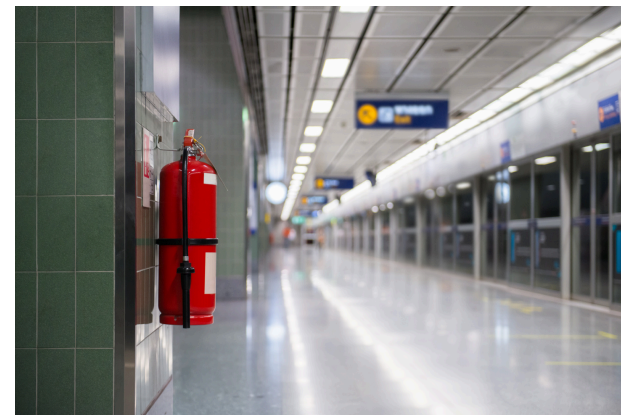
Custom Object Detection

To identify unique objects, implement a training algorithm that enables our analytics system to detect and count these items. This method has previously been applied to recognise items such as bread, fish, and more.



Left Object

Recognise when an object has been left behind, which may involve items like bags abandoned in safety-sensitive areas. In such cases, the system can notify security personnel about unattended objects, allowing for swift action to uphold safety and security.



Removed Object

Detect when an object is taken from its designated area. This includes monitoring items like art installations or recognising when safety equipment, such as fire extinguishers, are removed.

OBJECT DETECTION



Optical Character Recognition

OCR enables almost any visible text to be read clearly by a camera and logged within a system. It can be utilised to monitor materials by scanning labels or to check in individuals by reading their ID badges.



Smoke Detection

Detecting smoke serves as a warning that a fire has broken out. This system is often utilised as an early alert for vehicles, especially at electric charging stations or in tunnel fire incidents.



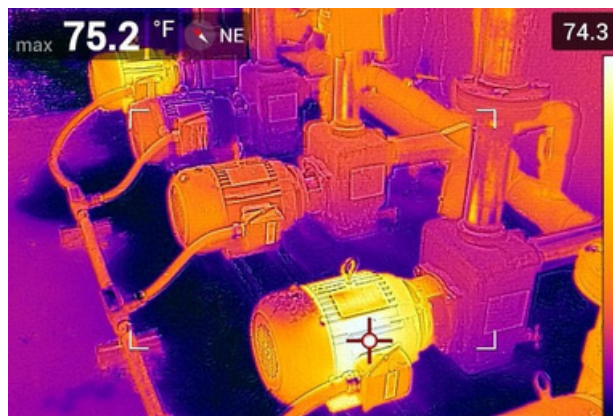
Portable Electronic Device Detection

Detect and notify when phones or other portable devices are utilised in unauthorised areas. Enhance safety measures and leverage CCTV analytics to support the enforcement of on-site safety policies.



Animal Detection & Counting

Identify and tally various types of animals, ranging from farm livestock to household pets. This process will help create a comprehensive dataset of different animals, making it especially effective for counting animals on large farms.



Early Fire Prevention Detection

Utilise thermal imaging CCTV to monitor essential components or areas with a high risk of combustion, and receive alerts when temperatures reach unsafe levels.

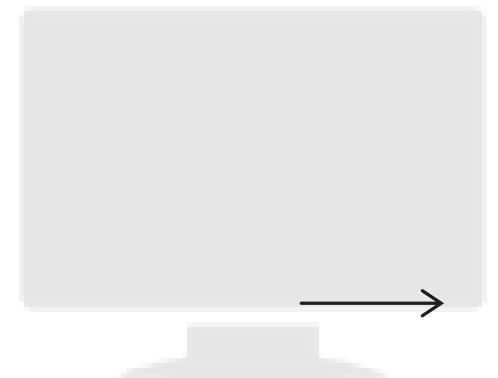


Dangerous Object Detection

Detect and notify when offensive weapons, including baseball bats, knives, or firearms, are spotted within the CCTV camera's view. Alert on-site security for immediate response actions.



Software Solutions



DASHBOARDS

Powered By Data Engine

All Your Data In One Place

Industries collect data from sources like sensors, CCTV, and machinery, leading to many data points. However, individual sensor dashboards often vary in design and may not meet specific industry needs, or may not exist at all. Bi3 Dashboards address this issue by consolidating data from multiple sensors into a unified, easy-to-use dashboard.

Everything in One View

Bi3 Dashboards can bring together data from multiple sources depending on the project, including:

- Sensors and IoT devices
- Energy, water, gas, and environmental systems
- Security, video analytics, and ANPR
- Behavioural Analytics - Counting, Occupancy, Usage etc...
- Health & Safety - PPE Usage, Hazardous Area, Near Miss, Etc...
- Existing and third-party platforms

This creates a single source of information, reducing the need for multiple dashboards, manual data collection, and lost or unused data.



Consolidate Data Into a
Single-Pane-of-Glass Solution



DASHB



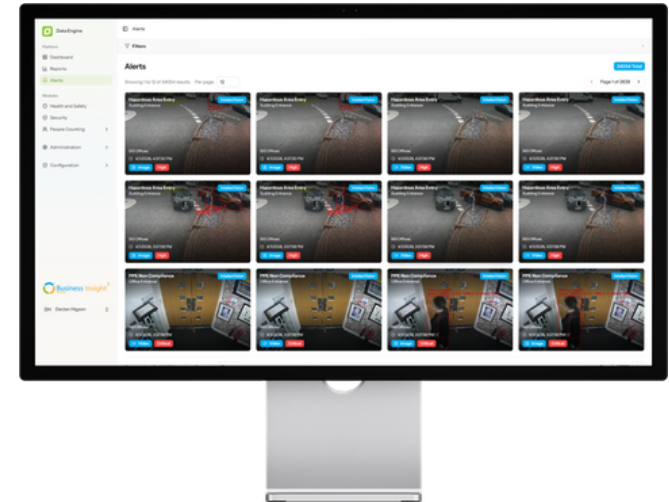
BI3 Integrated Solutions

All Bi3 Business Intelligence analytics solutions are fully integrated into our dashboards, enabling the seamless import of any analytics metrics and visuals to appear in your bespoke dashboard.



Third Party Sensors

Integrate third-party sensors into your dashboard or include new analytics solutions. The open nature of Bi3 Dashboards enables the visualisation of data from almost any sensors on a user-friendly and easy-to-navigate dashboard.



BOARDS



Brand As Your Own

Brand your dashboard as your own. Due to the customisable nature of Bi3 Dashboards. Change the colour, design, themes, and logos creating a unique look, bespoke to your brand and a cohesive user experience that aligns perfectly with your identity.



End User & Integrator Dashboards

Bi3's Dashboards provide user-friendly software tailored for end users, alongside a simple, intuitive dashboard that is easy to navigate and configure for integrator level control.



Integrated Widgets

Through the Bi3 Data Engine, your dashboard can feature integrated widgets for enhanced customisation, enabling easy comparison of data trends within the dashboard. These widgets may include live weather, DVLA data, calendars, maps, or a custom widget of your preference.



CORE FEATURES



Custom or Pre-made Dashboards Available

Bi3 provides pre-built dashboard frameworks that enable you to integrate your desired analytics or sensors into a standardised setup designed for that purpose. Alternatively, you can opt for a fully customised dashboard tailored to your specific needs.



Customised View By User levels

Set customised Dashboard access levels by user role. Enable managers to access their specific site while allowing regional managers to view an overview of all sites within their jurisdiction.



Compare Data Between Sites

Compare & contrast data points to identify trends and patterns between sites or across a single site. Set-up bespoke visuals to highlight this data and enable ongoing reporting.



Custom Output Triggers

Enable triggers to automatically set when data minimums or maximums are reached or a specific behaviour is identified, automatically triggering a response action.

Complete Control of your Dashboard

Bi3 Dashboard are designed with these features in mind. However, due to its remarkable customisability, the functions and capabilities of the dashboard can be tailored, removed, or added according to your specific use case.



Data Context with CCTV Integration

Connect data points with CCTV footage through the alerts page, where all visual alerts are displayed. This feature provides essential visual context and rationale for the data being collected.



Real-time & Historic Data Access

Keep meticulous records of incidents and view the historic data or in real-time, providing an audit ready data silo and on going reporting ability.



Industry Specific Reporting

Generate reports custom reports with industry specific data. Ensure that ongoing reports are useful to the users and comply with industry regulations and needs.



Device/Analytics/Sensor Lists

View all devices, sensors and analytics deployed on a site and view their health status to ensure optimal performance and avoid false data reporting and system failures from going unnoticed.

EXAMPLES



Delivering Data Insights:



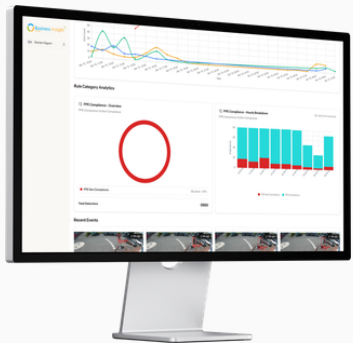
Commercial Kitchen Monitoring

- Energy consumption monitoring
- Improper appliance use
- Proactive maintenance
- Appliance error notifications
- Site efficiency comparisons
- Carbon reduction impact



Logistics Hub - Vehicle Management

- Management of traffic, speeds, loitering, traffic light compliance and vehicle flow throughout the site.
- Data collection on vehicle traffic.
- Enhancing safety measures.
- Automates traffic control systems



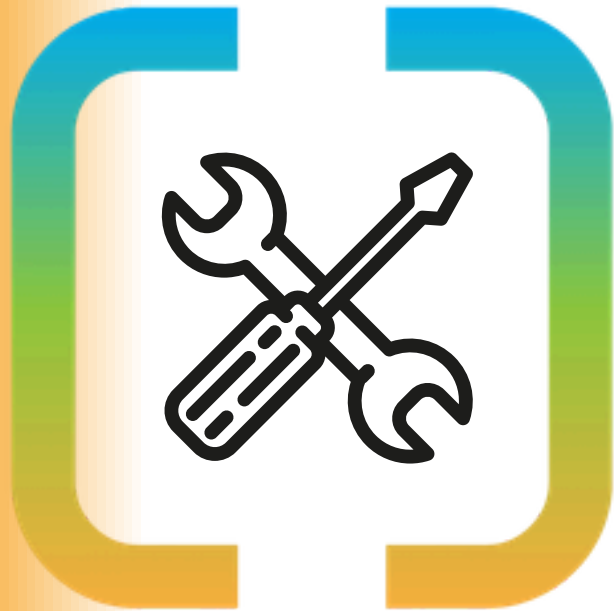
Health & Safety Package

- 3 Core Health & Safety Analytics Detections (PPE Compliance, Hazardous Area & Slip & Fall Detection)
- Pre-built H&S Dashboard
- Custom H&S report export
- Site comparisons
- Live & historical incident video & data



EnviroEye - Fly-tipping

- Oversight of Litter Detection incidents
- Manages litter and vehicle license plates from a single dashboard.
- Facilitates fines for incidents.
- Log incidents and create a data silo.
- Reportable data for Councils and stakeholders.
- Supports DVLA integration



Services & Bespoke Solutions

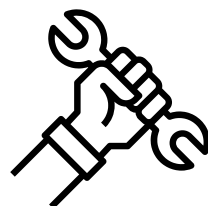


BI3 SERVICES



Technical Support

Bi3 provides comprehensive technical support for all our solutions. With a dedicated technical team based in the UK, you won't be left in the dark and can always reach out for expert advice and assistance.



Repair Service & Warranty

Bi3 provides repair services that facilitate quicker turnaround times by handling everything in-house, eliminating the need for lengthy international shipping delays for repairs.



Training

Gain a deeper understanding of the technology with Bi3's comprehensive training program. We offer extensive training on our solutions, covering everything from setup and commissioning to sales training for Bi3 technology.



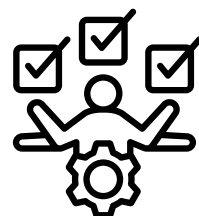
On Site/Remote Commissioning

Bi3 will assist with the final installation of our solutions whenever necessary, whether that involves remote setup or on-site support for your engineers to ensure the technology is installed most effectively.



Flexible Purchase Options

In addition to providing standard capital expenditure one-time payments for our solutions, we can assist in transforming technology into operational expenditure through rental models and flexible purchase options tailored to fit your needs and those of your organisation.



Project Management

Bi3 provides a comprehensive end-to-end project management system. For large-scale or complex projects, our management system guarantees that the entire process is meticulously tracked, ensuring clarity of results from conception to completion.

BESPOKE SOLUTIONS



Surface Deposit Detection

S.D.D. is a custom-developed detection algorithm. Surface Deposit Detection is designed to monitor and alert users about the accumulation of mud or other materials on road surfaces.



ANPR Route Compliance

ANPR Route Compliance utilises Automatic Number Plate Recognition (ANPR) to non-invasively monitor vehicle routes to and from various sites. This method is effective for both short and long distances, making it a valuable tool for efficient vehicle management.



WasteWatch Cam

WasteWatch Cam integrates ANPR and object detection to identify instances of fly-tipping. It captures evidence along with license plate information, enabling a streamlined fining process aimed at discouraging fly-tipping in car parks, recycling locations, and beyond.



Mitigate Risk



Improve Compliance



Deliver Data



Experts in Human, Vehicle
and Object Detection



Learn More



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