



# WASTEWATCH CAM

The Fly-tipping Detection Solution

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## Wastewatch: The Fly-tipping Detection System

Fly-tipping is a serious issue in the UK that costs taxpayers millions of pounds each year. It involves the illegal dumping of waste on public or private land and can have a negative impact on the environment and local communities. The cost of cleaning up fly-tipping is significant, with local authorities spending over £57 million annually on removal and disposal. A Solution is needed...



### WHAT IS WASTEWATCH CAM?

Wastewatch Cam is a fly-tipping and litter-detection system. Bi3's Bespoke Detection algorithm sits on a Rapid deployment tower which is placed near the problem area. The CCTV camera will then identify why littering or fly-tipping occurs and associates that incident with the number plate of the vehicle used to transport the waste via Automatic Number Plate Recognition (ANPR)

### WHY WASTEWATCH CAM

Wastewatch Cam has proven itself to be an effective tool in the fight against fly-tipping, the solution has been installed in several county councils and has been able to achieve a reduction in fly-tipping where deployed by 99%. 16 fines were issued within the first 3 months of deployment which led to a massive reduction in fly-tipping.

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### WASTEWATCH CAM BENEFITS

- **Public health and safety:** Fly-tipping can pose significant risks to public health and safety, such as through the release of toxic substances, sharp objects or obstruction of pathways. Preventing or reducing fly-tipping can help to mitigate these risks.
- **Cost savings:** The cost of cleaning up fly-tipped waste can be significant. By preventing or reducing fly-tipping, local authorities and landowners can save money on cleanup costs.
- **Improved community well-being:** Fly-tipping can create eyesores and negatively impact the quality of life in local communities. Preventing or reducing fly-tipping can help to improve community well-being and create a more pleasant living environment.
- **Legal compliance:** Fly-tipping is illegal and can result in significant fines or other penalties. By preventing or reducing fly-tipping, individuals and organizations can remain compliant with the law and avoid legal consequences.



# FINEING & COVERT

## LOCAL AUTHORITY SUPPORT

Detecting fly-tipping is only the first step towards eradicating the problem. Fly-tipping incidents can be handled by the Local Authority Support (LAS) service. The LAS team is ready to operate and maintain the Wastewatch Cam solution, as well as respond to events. When a detection is made, the LAS fines the offenders, which is an effective method of preventing future incidents of fly-tipping.



### IDENTIFICATION & ALERT

The Wastewatch Cam actively monitors a defined area; when an incident of fly-tipping occurs, the AI algorithm detects the items left and reads the licence plate of the associated vehicle using ANPR. Alerts are sent to the responsible parties.

### FINE ISSUED

The vehicle's registration is cross-referenced against the DVLA database, and a fine is issued to the offender's address. This has a proven track record of generating revenue for councils while also reducing incidents dramatically.

Information Collected through Wastewatch Cam can be used to identify trends, criminal gangs and repeat offenders which can make up a large portion of fly -tipping occurrences .



### COVERT CAM

Cameras concealed in a variety of everyday objects provide the capability to observe the camera shy or capture unwelcome activity that may otherwise go undetected.

- **Site four cameras wirelessly up to 150 m from the concealed NVR**
- **4G connectivity for control room observation and recording**
- **Configure onsite using mobile device**
- **14 days NVR and 10 days camera battery life**

