

•• VUE

Human Form Recognition Kit

Combining cameras, telematics and AI to
improve site safety and asset visibility



vuegroup.org/construction

Human Form Recognition Cameras

AI technology created to improve site safety and protect site workers

VUE's Human Detection System employs Human Form Recognition (HFR) cameras with integrated AI technology to detect humans around plant machinery and vehicles. The algorithm utilised by these cameras is exclusive to VUE and continuously refined by machine learning.

When a human has been detected by the system, **audio** and **visual** alerts notify the vehicle operator, pedestrian, and fleet manager of the detection. By bringing the driver's attention to someone in an area of risk around their machine, there is a considerable decrease in the likelihood of an accident occurring.

All alerts are reported in **real-time** to VUEhub, enabling proactive and reactive measures that enhance safety and improve cost efficiency on-site.



95% Accuracy

AI algorithms designed to accurately and reliably detect humans around construction vehicles, with as little as a hand or leg setting off alerts.



All Vehicles, All Environments

The system is suitable for all types of construction machinery including telehandlers, rollers, tracked excavators and articulated dumper trucks. It also remains accurate in a range of conditions including dark lighting, rain, snow and wind.

What is the makes up the HFR kit?



Recording Unit

Records footage and data to storage and sends it to VUEhub for review.



HFR Cameras x3

All cameras recording and detecting workers in areas of risk around a machine.



Forward Camera

Standard camera recording footage at the front of the machine.



7" Monitor

Displays visuals in-cab of the cameras fitted to the machine, and highlights any triggered camera alerts.



Speaker

An external speaker to alert workers and pedestrians who have triggered one of the HFR cameras that they are in an area of risk.



Safe Approach LED

An LED signal controlled by the machine operator to indicate when the machine is safe to approach. Lights Green when safe and Red when not safe.



Panic Button

For the machine operator to manually send recordings for review to VUEhub i.e. a situation happening that may not have triggered the cameras.

How does it alert?

Amber zone

- Standard detection area **1m**
- External alerts; audible message via external speaker
- Internal alerts; visualised on in-cab monitor, **low-intensity** beep

Red zone

- Standard detection area **0.8m**
- External alerts; audible message via external speaker
- Internal alerts; visualised on in-cab monitor, **high-intensity** beep
- Alert sent to **VUEhub** along with event footage to view

Zone sizes are completely configurable, though the above are what we recommend as standard.



Forklift Solutions

Forklifts play a **crucial role** in workplace productivity, but their benefits depend on **safe operation**.

What are the benefits?



Defends against false claims

Forklift camera footage protects drivers from false claims and allows direct file sharing with insurers, reducing costs.



Improves safety

A monitor enhances forklift visibility, helping drivers manoeuvre safely and spot pedestrians.



Provides a tool for training

Accident and near-miss footage helps train drivers in safe forklift operation.



Prevents theft

Cameras deter crime, and if a forklift is stolen, fleet managers can track its location and review events.



Tiny Camera

A smaller sized camera that can be easily installed in more intricate areas.



HFR Camera

AI camera recording and detecting workers in areas of risk around a machine.

VUEhub platform

An online platform to view and manage HFR camera alerts and data

VUEhub is an online platform to view and manage all of VUE's tools and services. It allows users to request and manage footage retrieved from their construction machinery.

All alerts and footage are accessible in real-time, and can be downloaded and stored safely on VUEcloud. The filter and alert severity classification system facilitates the prioritisation of incidents and increases operational efficiency.



Severity Scoring

Display to instantly know how severe an alert triggered by HFR cameras is, for more efficient and proactive risk management



Real Time Visualisation

Live view HFR cameras remotely to get an instant understanding of a situation





•• VUE

If you would like to learn more about our products and services, give us a call on **0161 877 2257**, email **hello@vue-cctv.co.uk** or visit **vuegroup.org**

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