

INNOVATIVE TECHNOLOGY



WILLMOTT DIXON
INTERIORS

[Willmott Dixon Interiors](#) have worked together with Ripley Communications to install new state-of-the-art CCTV technology for the refurbishment and remodelling of the eighth floor at [Quarry House](#), Leeds for the Department of Health and Social Care Offices.

The CCTV system which has been installed on the operational area, alerts the site team when safety and security events happen during the project. Real time notifications are sent to a laptop, tablet, or smart device so that the project team can react immediately to any of the following events that the system detects:

- **Hard hat detection:** If no hard hat is detected on an operative then a notification with the image of event is instantly sent to the team.
- **Face mask detection:** This detects if an individual is wearing a face covering or mask when entering a zone, alerting the team when a mask is not present. This can be set so the individual is refused entry or exit through the zone until a face mask has been put on.
- **Fall down detection:** This detects when a lone worker or an individual has fallen or collapsed to the ground and not moved for at least 5 seconds, the system notifies the site team instantly that something may be wrong with the operative. This includes sending a high priority text message to all registered first aiders.
- **Fighting detection:** This can detect up to 8 individuals fighting or engaging in rough behaviour sending a notification instantly to help the team diffuse a situation quickly.
- **Mobile phone detection:** If an operative is seen using a mobile phone in a restricted area then the team will be notified.
- **Running:** If the zone is marked as a no running zone, then any person running will create an event that is sent to the site team.
- **Restricted area:** If a virtual line or box is breached by an operative than an alert will be sent to the site team.
- **Fire detection:** The system monitors site conditions continuously and will notify the site team and our monitoring station if a fire is detected.
- **Flood detection:** Just like the fire detection this module is never deactivated, and should the unit detect a flood then the site team and the appropriate contractor can be notified of the event.

The Facial recognition technology developed and installed by Ripley communications for Willmott Dixon on the Quarry House project has also been implemented by the Willmott Dixon Interiors project team for the control of the security turnstiles with facial recognition and thermal cameras upon entry which:

- Refuses Entry/Exit if a face mask is not worn.
- Records forehead temperatures.
- Refuses entry if someone has a temperature and emails the site team.
- Links in with Willmott Dixon's Mi pre-enrolment system.
- Verifies not only against the CSCS card system but also against 14 other card systems.
- Denies entry to persons who's certificate or verification has expired.
- Denies entry to persons that have been red carded on a Willmott Dixon site.
- Records first aiders on site.
- Records managers/supervisors on site
- Records apprentices on site.
- Records entry exit logs.
- Records temperatures of personnel.
- Records CO2 and mileage logs of all site attendees.

Willmott Dixon Interiors are proud to be leading the way to revolutionise site safety and efficiency for all future projects. This technology resulted in an innovation point being awarded from the Considerate Constructors Scheme. A CCS innovation point is awarded to sites and companies who go above and beyond to increase standards of best practice, and is awarded only for initiatives that have not been seen anywhere else in the industry. The point helped our Quarry House project to achieve 45/50, which is Willmott Dixon Interior's top overall score this year to date.

The Project team of Senior Build manager Brian Cole, Build manager Stephen Smith, TSM Phil Green and Project surveyor Eoghan Moriarty are proud to have been issued the innovation for this system which is being pioneered on The Department for Health and Social Care, on the Eighth Floor of Quarry House in Leeds.

A huge thank you to Oliver Ripley of Ripley Communications for working closely with the team and installing this ground-breaking technology on this project.

[Find out more about the project here.](#)