

Rapid response: Detecting those infected and reducing transmission



The challenge: Due to the extraordinary situation of the COVID-19 pandemic, governments around the world are seeking measures to detect those infected and reduce transmission rates. The first case of COVID-19 identified in Thailand was on 8 January 2020 and was detected by a thermal camera used to screen inbound passengers from China. This thermal camera was a residual asset from the 2002-2004 SARS epidemic in Thailand.

Our solution: Thermal imaging and control room technology

As part of our rapid response service, we can offer thermal camera solutions and a management system for multiple cameras that can help detect those infected and reduce transmission rates.

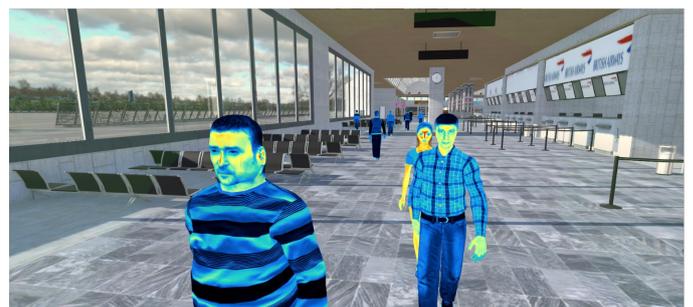
A thermal imaging solution provides an opportunity for law enforcement and asset operators to ensure those entering transport hubs and other critical infrastructure sites are monitored for people with elevated body temperature.

We can simply provide one or a few thermal cameras for critical locations or provide a whole system of cameras. We can develop the integrated control room technology for managing large areas.

Thermal imaging cameras can instantly detect body temperatures to within +/- 0.3C in an individual or group at distances of around five metres, including inside vehicles with windows down. This solution can be manufactured in the UK and installed within two to three weeks.

Benefits

- Detects body temperatures to within +/- 0.3C in an individual or group at distances of around five metres, including inside vehicles with windows down
- Accelerates detection in individuals or groups, either at a specific location or over a larger area
- Minimises risk of exposure as operators can maintain a safe distance
- Rapid design, testing and deployment
- Through-life support including 24/7 service desk to support operators
- Data management system reduces the analysis work for operators
- Ability to switch views at times of reduced risk, ensuring availability for future needs.



We have also begun to develop the software necessary to integrate an entire network of these thermal cameras and provide a 'control room' perspective which would monitor and analyse the data from these cameras if required.

Our team's capability includes software design, installation, commissioning, testing and through-life service support to these systems, including the provision of a 24/7 service desk.

We have been delivering integrated leading edge smart infrastructure solutions to meet critical national needs across the UK's energy, water, transportation and defence markets for more than 150 years.

Our purpose is to improve people's lives by keeping water clean and flowing, powering communities sustainably, keeping the nation moving and our people safe.

Our teams of engineers and technologists have been working hard since the threat from COVID-19 was first identified to support the huge national effort of our emergency services and critical national infrastructure operators.

To help the UK manage the impact of the COVID-19 pandemic, we are here to help you respond rapidly to the disruption, build resilience and adapt your operations to be able to emerge quickly and strongly when more stable conditions resume.

Our three core COVID-19 support services are:

1. **Rapid response**
2. **Building resilience**
3. **Critical national infrastructure support.**

For further information please visit www.costain.com/covid-19supportservices or to speak to one of our experts contact covid19support@costain.com