



Vehant Technologies is a pioneer in Artificial Intelligence based Physical Security, Surveillance, Traffic Monitoring & COVID safety Solutions. Our newly launched product 'FebriEye', an AI based temperature monitoring system, is deployed in Central Railways in order to reduce the possible spread of this COVID-19 pandemic.

## INTRODUCTION

After facing a lengthy suspension due to COVID-19, the Railway services were finally resumed in mid-May. According to the World Health Organization (WHO), the virus is transferred mainly from one person to another. Keeping in mind the need to the hour Central Railways decided to deploy AI-based thermal temperature screening system around the stations to maintain the safety of passengers from the ongoing pandemic. Apart from temperature screening, social distancing & face mask also play a vital role in reducing the multiplication of the virus. Hence to ensure complete safety, FebriEye has been designed with optional additional analytics - face mask detection & social distancing monitoring system.

## PROBLEM

COVID-19 pandemic has been crippling economies by paralyzing economic activities. After airlines, Indian railways is the second to suffer due to this pandemic. Post the government-imposed lockdown, Indian Railways resumed their services after nearly two months.

Due to the lockdown guidelines laid down by the government keeping in mind the increasing number of COVID-19 positive patients in India, the railway services were suspended. It was necessary to do so, as, trains are the most extensive network and it is the only transportation that could reach to many far-flung areas of our country, and hence, many people are dependent on it. Thus, this proposed a higher multiplication rate of the virus due to the rush at the stations.

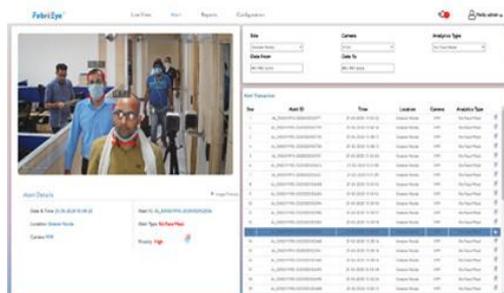
## PROPOSED SOLUTION

An advance creation by Vehant Technologies, FebriEye™ is an AI-based Thermal Temperature Screening system. The system was chosen by Central Railways for monitoring people with high body temperature at various railway stations in light of the current global COVID-19 pandemic.

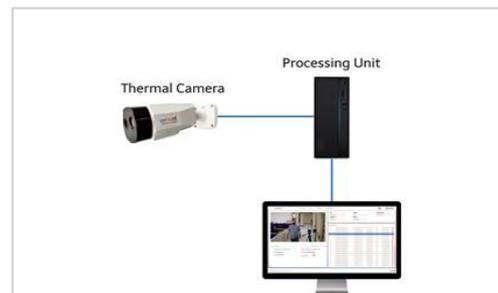
FebriEye™, with the facility of the addition of supplementary analytics such as face mask detection and social distancing monitoring, proved to be highly useful for indoor/covered areas such as railway stations. Its cameras can cover large areas, which in turn resulted in real-time checking and monitoring of a large sum of people entering the railway station.

The live-stream from the cameras generated alerts for whenever someone was caught violating the COVID-19 norms. The user-friendly monitoring system gave access to those alerts. The deployed contact less thermal temperature screening system 'FebriEye' in railways have the following features -

- Measures Forehead Temperature
- AI based Face Mask Detection
- Social Distance Monitoring
- Real time alerts
- Dual (Thermal + Vision) Camera
- High Throughput



GUI SCREEN



DEPLOYMENT

## MEDIA COVERAGE

The testimonial given by the Central Railways goes on to validate and confirm the technological sanctity and user-friendly ergonomics of the system, which have been wholly developed in India [#VocalforLocal](#). Vehant Technologies strives to provide best-in-the-world products here in India & globally.

### News Article -

<https://timesofindia.indiatimes.com/city/mumbai/50-passengers-with-fever-not-allow-ed-to-board-central-railway-special-trains/articleshow/77604966.cms>

## 50 passengers with fever not allowed to board Central Railway special trains

Manthan K Mehta | TNN | Updated: Aug 18, 2020, 09:33 IST



Central Railway

MUMBAI: Fifty passengers showing fever symptoms were prevented from boarding special long distance trains on Central Railway (CR) departing from Mumbai to parts of the country since June 1. Per standard operation procedure, passengers are screened with thermal cameras and thermal guns before they are allowed to board.

Till date, over 5 lakh passengers have been screened departing from Mumbai on CR. CR set up a AI-based body screening system, FebriEye, at CSMT and LTT for checking passengers' health. FebriEye is an automated, real-time, non-intrusive monitoring system that checks for fever. Its cameras can cover large areas, thus enabling it to check for fever among multiple people entering the station at the same time. Western Railway undertook similar measures, but no passengers were stopped as none showed fever symptoms.

### REFERENCES

<https://timesofindia.indiatimes.com/travel/destinations/covid-19-impact-india-railways-cancels-155-trains-loss-of-inr-450-crore-in-a-week/as74710362.cms>

<https://economictimes.indiatimes.com/topic/coronavirus-impact-on-indian-railways>

<https://www.prsindia.org/theprsblog/impact-covid-19-railway%E2%80%99s-finances>