



## Passenger Counting

# eyeTrain™

... passenger counting

eyeTrain Passenger Counting is a comprehensive package of statistical gathering and analysis, designed especially for rail applications.

The eyeTrain range offers digital (IP) technology matched to the harsh environment of rolling stock applications, providing the highest performance and resilience on the market.

petards

Door by Door Passenger  
Counting System

## Counting Overview



The use of passenger counting data allows train operators to optimise their fleet deployment to match the profile of passengers across the vehicle diagram.

Over and under occupancy journeys can be avoided by setting timetables and routes that match the measured passenger demand.

## Counting Technology

Vertical infra red detectors are situated at all vehicle doors to determine passenger flow in both directions - the detector can recognise movement both 'in to' and separately 'out of' the detection area.



## Data Gathering

Data is compiled for each vehicle door, allowing the movement of passengers (on/off) to be measured and studied on a car by car and door by door basis. Vehicle name / number, station location and time and date fields are combined with the passenger load data.

## System Communications

Each vehicle will 'push' the passenger counting data after each door cycle via the cellular network. The data is collected at a central data server, (this may be hosted by Petards, or alternatively by the end user) and may be made available to a specialist 3rd party data analyst.

Count data collected on door by door basis and cached locally on vehicle.

Data transmitted via cellular network, or depot download.

Data is validated and collated and hosted on data server.

FTP/Web access.

Data available as import to data management system or 3rd party analysis tools.



**The detector contains a local intelligence, operating proven detection algorithms which can determine flow of people to an accuracy exceeding 98%**

**petards**

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