



Automatic Passenger Counting CCTV Based Video Analyser



Why implement the Retail Sensing Limited Video turnstile System?

Provides Reliable and Accurate rider ship figures automatically without human intervention

Provides an IN and OUT Count of Passengers per Bus Stop as people get ON and OFF

Provides a TOTAL IN and TOTAL OUT Count for the duration of the bus route

Eliminates the risk of false counting whilst the bus is in transit

Allows live remote log-in feature to the units for Accuracy Validation and Set up purposes

Data collection process allows backdated counts to be generated as bus transits through black spots

Expandable and Integrable system capable of linking Passenger Counting Data with other data from the bus developing them into a full complete transportation management system

Allows improved planning and scheduling across the full fleet of buses

Allows the monitoring of trends in usage and ridership of buses

Allows the reallocation of resources to fit actual demand for bus services in towns and cities

Allows the automatic counts to be compared VS actual ticket allocation and sales

Helps protect income revenue on buses

Allows costing to be reduced by saving on manual counters and training

Allows key performance indicators to be analysed such as passengers per mile and cost per passenger

Helps monitor passenger numbers over time and identifies busy bus stops and specific locations throughout the town / city

Helps monitor and identify the busiest times of the day, busiest routes throughout the town and city

Specifies actual times & GPS coordinates of passengers boarding and alighting at stops

Integrate with existing engine management systems



The RSL algorithm monitoring passengers boarding a bus



Unit	Video Turnstile single unit (1 VT unit for each people counting camera)
Weight	0.145 kg
Size	150 x 80 x 30 mm

Unit	Digital I/O Module single unit
Weight	0.145 kg
Size	150 x 80 x 30 mm

Unit	Ethernet Logging Video Turnstile single unit (one logger unit for upto 16 VT units)
Weight	0.285 kg
Size	150 x 80 x 30 mm

Digital I/O	Uses contact closure to limit counts to events (such as door opening)
GPS (Optional)	Where GPS data is not already available the optional GPS add-on identifies each bus stop
Data Collection	The logger queues each bus stop so that intermittent connection to the infrastructure are supported. Use either WiFi or cellular data to communicate with the IT infrastructure
Units	One Logger door indicator (with optional GPS), one digital I/O module per bus and one VT analyser per bus door
Data Communication	Uses MQTT to transmit to broker (IOT)

