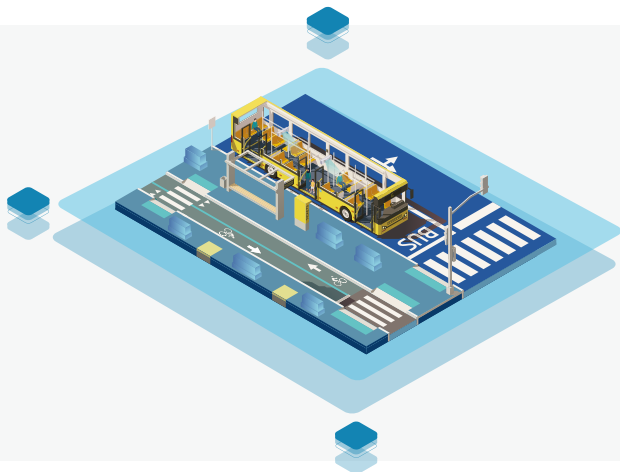# Automatic Passenger Counter Sensmode PCBot B40

Sensmode PCBot B40 Automatic Passenger Counter, based on stereoscopic vision technology, is specially developed for outdoor public transportation systems.

This product obtains environmental depth data through visual radar sensing technology, without involving personal identity privacy. It only uses the human head and shoulder feature extraction algorithm to achieve continuous crowd tracking and passenger counting in complex scenes, with an accuracy of over 95%.

Optimize bus routes

By analyzing historical passenger count data, bus routes can be adjusted to reduce operating costs.

Improve passenger experience

Properly configuring bus stops can shorten passenger waiting times.

Upgrade revenue model

Based on riding patterns, pricing models can be optimized to increase income levels.

Enhance operational security

Anticipate peak passenger periods and set protective measures in advance to avoid safety accidents.

Innovative Technology Enables Accurate Passenger Counting

We have exclusively solved the technical problem of binocular stereo imaging with a large viewing angle. The product has a large field of view of 140°x115° and can be installed at a minimum position of 1.7m, leading the industry.

Accuracy is stable over 95%

- Accurately excludes luggage and other objects
- Passengers getting on and off the bus can be counted separately

Both a counter and a camera

- Supports offline storage and continues transmission when the network is disconnected
- Support RTSP protocol to connect to NVR equipment

Multiple interface and protocol

- Configure rich application interfaces
- Data protocol can be flexibly customized

Adapt to both light and dark

- Adapt to dynamic changes in light during vehicle driving
- Adaptable to dim light and dark scenes

PERFORMANCE PARAMETERS

VISUAL PARAMETERS	
VISUAL FIELD	Horizontal 140°，Vertical 115°
FUNCTION PARAMETERS	
HEIGHT RANGE	1.9m~3.2m
COVERAGE RANGE	1.1m~7.0m
FILTER HEIGHT	0.5m~1.2m
TECHNICAL PARAMETERS	
POWER	3.2W~3.6W
POWER SUPPLY MODE	DC-（9V~36V）
DIM LIGHT COMPENSATION	Automatic infrared light on and off
ADDRESS	Static state IP / DHCP
OFFLINE CACHING	90 Days
DATA UPLOAD METHOD	HTTP POST / HTTPS POST
DATA EXTENSION INTERFACE/SIGNAL	485 interface x 1/ 6V～24V IO input x 1
DOOR OPENING AND CLOSING SIGNAL	Accessible
WORK ENVIROMENT	
WORK TEMPERATURE	-20°C ~ 70°C
WORK HUMIDITY	20% ~ 80 %
STORAGE TEMPERATURE	-20°C~80 °C
STORAGE HUMIDITY	20%~ 80%
PACKAGING	
STRUCTURE SIZE	143 x 70 x 40(mm)
WEIGHT	305g

SOLUTION ARCHITECTURE

Edge AI computing system, the overall system architecture is simple and reduces equipment cost investment.

Multi-service IoT Edge Gateways

IoT Integtation Platform

Alarm

Notify

Setting Parameters

Access Data

Export Data