SHIMANTO SYSTEMS **TransitView**

Smarter Passenger Information for Public Transport

Keep passengers informed. Help drivers stay focused.

TransitView is an affordable, GPS-based onboard passenger information system designed for public and private bus operators. It displays upcoming bus stops and their approximate distances in real time, helping passengers know where they are and what stop is coming next.

With offline operation, simple route selection and flexible installation, TransitView offers a practical way to improve the passenger experience without relying on continuous mobile internet connectivity.

1. Key Features

Real-Time Next-Stop Information

- Displays the next three (configurable) upcoming bus stops.
- Displays real-time bus location along the route
- Shows approximate distances to upcoming stops.
- Voice announcement of the next stop and the arrived stop.
- Automatically updates information based on the vehicle's GPS location.
- Provides clear, easy-to-read passenger information.

GPS-Based Operation

- Uses GPS positioning and preconfigured route data.
- Automatically identifies the vehicle's position along the selected route.
- Does not require a internet or mobile data connection.

Multiple Route Support

- Supports multiple preconfigured bus routes.
- Driver selects the required route before starting the journey.
- Suitable for buses operating across different routes.

Simple Route Updates

- Route and stop information can be updated through USB or local Wi-Fi.
- Allows operators to maintain route information as services change.

Cost-Effective Solution

- Uses readily available computing hardware.
- Designed to provide essential passenger information without the complexity and cost of larger integrated systems.

2. How TransitView Works

TransitView combines GPS positioning, stored route information and a passenger display to provide automatic next-stop updates.

1. Select a route: The driver selects the required route using the TransitView control unit positioned near the driver.
2. Track vehicle location: The GPS receiver continuously determines the bus's location.
3. Identify upcoming stops: TransitView matches the current location against the selected route.
4. Inform passengers: The passenger monitor displays the next three stops (configurable) and their approximate distances.

3. Installation and System Configuration

TransitView is designed around a simple onboard installation.

Driver-side control unit

- The TransitView computing unit is installed near the driver.
- Provides access to route selection before or during the journey.
- Houses the GPS interface and system electronics and software.

Passenger display

- A separate passenger monitor is connected to the TransitView unit through an HDMI cable.
- The monitor displays the passenger information interface.
- The monitor should be compatible with the system's HDMI output.

Passenger Audio

- Two 5 W speakers

GPS receiver

- An external GPS antenna/receiver provides vehicle location information.
- The antenna should be positioned to obtain a reliable GPS signal.

Power supply

- Requires a regulated 12/24 V DC power supply, with up to 2 A recommended for the computing unit.
- The passenger monitor requires its own compatible power supply.

4. Technical Specifications

Specification	Description
Computing platform	Embedded Linux
Positioning	GPS receiver
Passenger information	Next three stops (configurable)
Distance information	Approximate distance to upcoming stops
Route support	Multiple preconfigured routes
Route selection	Driver-side control unit
Passenger display connection	HDMI
Power requirement	Regulated 12/24 V DC, up to 2 A recommended
Internet requirement	Not required for core operation
Route updates	USB or local Wi-Fi
Application	Onboard bus passenger information

5. What Does the Bus Operator Need?

For a typical installation, the following are required:

- TransitView computing and control unit.
- Compatible HDMI passenger monitor.
- HDMI connection cable.
- GPS antenna/receiver.

- Two 5 W speakers
- Suitable 12/24 V DC power
- Appropriate mounting arrangements and cable installation.
- Bus route and stop information for initial configuration.

Monitor supply, installation and configuration arrangements can be agreed with the operator.

6. Who Can Benefit from TransitView?

TransitView is suitable for:

- Public bus operators.
- Private bus and coach operators.
- School and community transport providers.
- Shuttle and staff transport services.
- Small and medium-sized fleet operators.

It is particularly useful for operators seeking an affordable onboard next-stop information solution without requiring a complex internet-connected infrastructure.

7. Why Choose TransitView?

- Better passenger experience: Passengers can see and hear upcoming stops and approximate distances.
- Driver convenience: Simple route selection through a dedicated unit near the driver.
- Offline operation: No continuous mobile data connection required.
- Flexible deployment: Supports multiple routes and compatible HDMI monitors.
- Affordable technology: Focuses on essential passenger information with a practical hardware design.

8. Contact

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Website: www.shimanto-systems.com

Enquire about a demonstration or pilot installation.