BotWay

TRAFFIC CONTROL & MONITORING
FOR MOBILE ROBOTS & IIOT DEVICES

FEATURES AND OVERVIEW

BotWay is a light-weight, multi-platform traffic control and extensible monitoring application designed to be used with mobile robots and Industrial Internet of Things (IIoT) devices, such as wireless pushbuttons, stacklights and foot pedals. BotWay is an adaptable, agile, modular software that will work on a wide range of operating systems and provides lightning fast set up for any size fleet. It offers traffic control, communications, monitoring, job queueing and more.

TRAFFIC CONTROL

- Easily define traffic stops, intersections & other features of your layout
- New stops easily added & tied to IIOT sensors for safety/manual controls
- Smart charge locations are definable and adjustable
- Job start & stops are adjustable & can be tied to a manual release button
- Conditional wait locations with time & traffic dependencies
- Release vehicle via GUI or BotWay wireless call & release button

MONITORING

- Connection status, vehicle speed, location, route, battery level, job status
- Live cycle-time metrics & historical log
- Color-coded status indication for vehicle state & traffic condition
- Vehicle alarm history
- Live communication display & historical log
- Job queue status display & log
- GUI featuring: path layout, tag placement, vehicle indicators, traffic stop status, list error, status & network logging for all vehicles connected

BotWay can be used to set up operational conditions for path layouts, route programs, traffic constraints, cycle definitions, & status monitoring.

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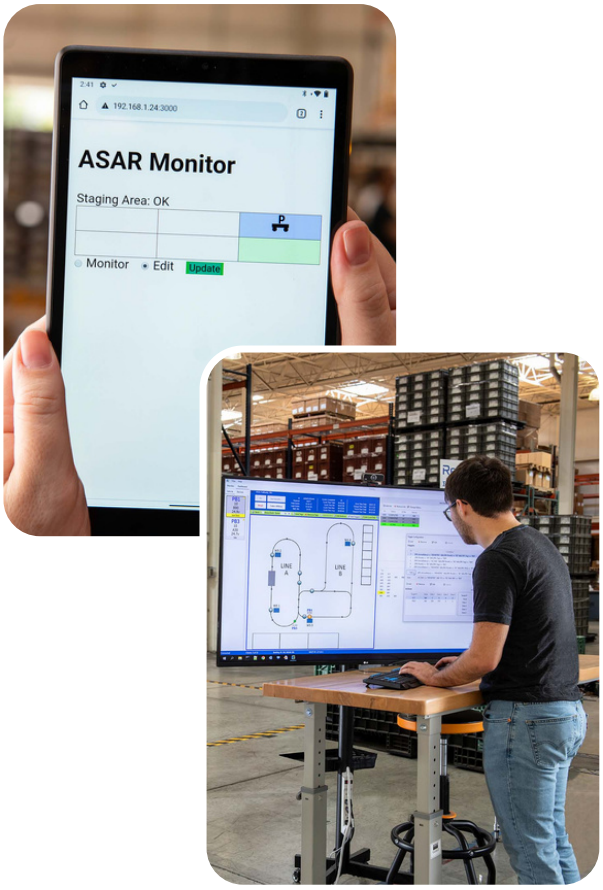
COMMUNICATIONS

- Standard wireless ethernet network connection
- Fast command & response protocol using small packets with delivery assurance
- Simple packet message easily produced via any on-board computer, embedded system, or PLC
- Expandable packet protocol to ensure adding of future AGVs, commands, or data collection
- Comprehensive transmission display & logs facilitate real-time error checking
- Data to & from Botway is double checked for integrity & safety
- Data transmission is adaptable for new hardware, accessories or monitoring



CONTROL

- Manual start, stop & route change
- Ability to take vehicle offline (remove from traffic control)
- Send & receive on-board route programs
- Virtual AGVs can be used for route planning & traffic testing
- IT sensors, push buttons, scissor lifts & other accessories easily controlled

JOB QUEUE

- Easy to use job stack
- Definable start & complete location & route
- Can define individual jobs as Consecutive, Concurrent, Exclusive
- Can limit specific jobs to specific vehicle types
- Real-time add/remove jobs
- Daily jobs archived for analysis

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