



Vontas OnRoute Vehicle Simulator

Driver training and maintenance hardware you can customize to your unique solution.

Strong training programs are needed to effectively recruit and retain bus operators, especially at a time when many current drivers are retiring. Vontas helps equip your bus operators with the critical skills to adapt to changing Intelligent Transportation Systems (ITS) technology with the Vontas OnRoute Vehicle Simulator. Compact and durable, the Vehicle Simulator will enhance your driver training experience and provide an in-vehicle simulated testing environment.

Built specifically for each customer, the Vehicle Simulator encompasses the Generation 8 (V8) Integrated Vehicle Logic Unit (IVLU) and the Color Touch Mobile Data Terminal (MDT) to enhance your training and testing environment. It is configured to mimic your in-vehicle configuration including integrating to your voice or data radios, cellular modem or router, internal text sign, and internal, external, and driver speakers for audio announcements. External connections are available for use with fareboxes, destinations signs, and passenger counters.

Overview



Integrate On-Board Systems

- Supports significantly upgraded user experience with Vontas' latest touchscreen MDT and Mobile Enriched UI
- Mimics the vehicle for optimized training and testing
- Supports training for drivers, diagnostic, maintenance and system administrators



Make Driver Training Easier and More Effective

- Simulated environment ensures that drivers can navigate and familiarize with MDT
- Optimizes training with MDT Touch screen



Vehicle Simulator - Front



Vehicle Simulator - Back

Agency Benefits



Robust Operator Training

The Vehicle Simulator enhances driver training by facilitating hands-on practice in the classroom for operators to familiarize themselves with the features and capabilities of the vehicle Intelligent Transportation System (ITS) prior to operation. Each unit deployed at an agency is programmed to be an individually separated operating mobile vehicle in the agency's vehicle test fleet. This allows transit trainers to operate multiple units simultaneously in a classroom setting with student operators.



Streamlined Vehicle Testing

Before commissioning a new bus into your fleet, you can utilize the Vehicle Simulator to map out the correct vehicle assignment information to the Electrically Erasable Programmable Read Only Memory (EEPROM). This saves the vehicle installation team valuable test time prior to vehicle introduction by ruling out any operational deficiencies due to configuration settings.



Faster Maintenance Times

Mobile vehicle maintenance staff can use the Vehicle Simulator as a troubleshooting tool to test suspected defective parts and swap them back if confirmed to be working, instead of having to pull out the part for testing later at the maintenance facility.

Passenger Benefits



Safer Journeys

- Effectively trained operators and optimized maintenance procedures help ensure the safe, reliable service your passengers expect



Fewer Delays

- Parts testing on the Vehicle Simulator to quickly identify defective items reduces bus repair times on vehicles, increasing vehicle availability



Rider Comfort

- EEPROM testing on the Vehicle Simulator prior to IVLU deployment on a vehicle ensures correct operation of the IVLU, so passengers enjoy a smooth ride without noticing any system quirks

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TECHNICAL SPECS FOR

Vontas OnRoute Vehicle Simulator

TOUCHSCREEN DISPLAY

- 10.1" TFT WSVGA (1024 x 600) Color LCD w/LED Backlight
- Aspect Ratio: 16:9
- Contrast Ratio: 600:1 Min.:800:1 Typ.
- Luminance: 500 cd/m2 Min.; 560 cd/m2 Typ.
- Viewing Angle: 80°
- 3H Hardness 5-wire Resistive Touchscreen
- Anti-glare coating
- Glove and Polarize Lens Compatible
- Ambient Light Sensor with Automatic Day/Night Modes
- Daylight Readable with User Configurable Brightness

CPU AND HARD DRIVE

- Standardized SOM CPU provides future upgrade path
- CFast hard drive is easily replaceable and expandable
- Ethernet – V8 IVLU
- 4 x 10/100 Ethernet Ports (RJ-45)
- Integrated 4-Port UnManaged, Layer 2 Ethernet Switch
- Up to three of the V8 IVLU Ethernet ports are made available externally for your peripheral devices

PRIVATE RADIO INTERFACE

- Supports Data and/or Voice Radios
- 1x RS-232 or TTL Serial Comm. Port

- 1x RS-232 or LVTTTL Serial Comm. Port
- 2x RS-485 or SB9600 Serial Comm. Ports
- 1x USB 2.0 Port
- Discrete I/O Interface, including Outputs, Inputs, Power Control and Key Lines

AUDIO INTERFACE

- 3x Integrated Power Amplifiers
- 2x Audio Lineouts
- 2x Covert Microphone Inputs
- 1x Handset Interface
- 1x Auxiliary Mic. Input, including PTT
- 3x +12 VDC Control Outputs
- Hands Free Microphone Support (Optional)
- Software Configurable Audio Pathing and volume control
- Automatic Volume Control compensates for ambient noise

SERIAL INTERFACES

- 2x USB 2.0 Ports
- 5x RS-232 Serial Comm. Ports

MDT POWER

- Powered by IVLU (via MDT cable)
- Operating System Voltage: +12 VDC
- Nominal Power Consumption: -5 W

IVLU POWER

- Operating System Voltage Range: +8 - +36 VDC

- Nominal Power Consumption: ~15 W (1.1 A @ +13.7 VDC)
- Standby Power Consumption: ~0.2 W (0.015 A @ +13.7 VDC)

TDMA DATA MODEM

- Embedded TDMA Modem provides patented data communications compatible with a wide variety of conventional private radio systems.

VEHICLE SIMULATOR SIZE AND WEIGHT

- 28.83 in. W x 21.33 in. D x 18.63 in. H
- Weight: 55 lbs + your specific components (router, radios, etc)

POWER

- 115 VAC, 6A Max

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