

VividCAN

Low-Cost CAN Display with Customizable Touchscreen

Intrepid's VividCAN is a versatile CAN tool with a customizable, full-color capacitive touchscreen. With the VividCAN you can create your own field service tool or driver's aid, or create a customized display tailored to engineers, managers or hobbyists.

Applications:

- Field service tool with a simple touchscreen
- Field diagnostics, such as factory resets, configurations and localizations
- Driver's aid for displaying drive profiles compared to actual values
- Management / executive display



Key Features:

- 60 fps highly responsive display
- Capacitive display technology for easy and reliable operation
- Simple to configure with Vehicle Spy software
- Very quick startup (under 500 ms) with auto wakeup and startup features
- Integrated IMU
- Less attractive to thieves than a tablet or laptop

Customizable Display Tool

Using Vehicle Spy you can create a custom display interface for the VividCAN. The Log Data Function Block allows for a list of strings to be displayed containing CAN message signal data. Graphical Panels can be ported from your Vehicle Spy setup right to the VividCAN screen! Choose from a subset of controls: Text, LED, Bargraph, Gauge, Start/Stop Buttons, Tx Buttons, and more. The controls and layout will be recreated on the smaller screen of the VividCAN. Now you can bring your VSpy setup with you in the car, with the low-cost, fast-booting VividCAN!



Customizable Touchscreen

The touchscreen can be customized by creating a Vehicle Spy Graphical Panel and downloading it into the VividCAN. The Graphical Panels and their controls are visible on the VividCAN screen. You can also display live CAN signal values. Additional functions – such as diagnostics, message decoding, and message transmitting – can also be included. The VividCAN supports at least eight graphical panels.



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VividCAN

Using VividCAN

The VividCAN can be used as a bench tool while connected to a PC running Vehicle Spy, allowing you to transmit and receive live on the CAN network. This allows you to live transmit and receive on the selectable CAN network. The device includes CAN switch support, allowing it to be configured to use HS CAN, LSFT CAN or SW CAN. Our customizable scripting engine, CoreMini, can run standalone on the VividCAN, allowing for advanced operations when you take the VividCAN in the car with you.

The two main methods of displaying customized information on the touchscreen are:

- Log Data: CoreMini Function Block action
- Graphical Panels: Set up in Vehicle Spy

Fast Boot!

Because the VividCAN runs without an operating system, the device starts up in firmware and even loads a CoreMini in less than one second. No more waiting for an expensive tool to start up while your CAN network already has messages being sent!

The VividCAN has a large internal flash memory that stores device settings and applies them at boot time. Parameters such as LCD brightness, color theme and the last viewed page are saved automatically. The next time the VividCAN boots up, it will pick up right where you were when you last used the device.

Features:

- Color display: 480x272, 16-bit color
- Capacitive touchscreen with 5-point multi-touch
- Instant feedback and interactivity
- HS CAN, LSFT CAN, or SW CAN, selectable via CAN switch
- Tx and Rx through Vehicle Spy or CoreMini
- CAN termination toggle, set in software
- DB-9 to OBD-II connector
- Micro-USB for PC connection to Vehicle Spy
- RAM mount compatible for in-car mounting
- Battery-backed real-time clock (RTC)
- Audible feedback from a 5V buzzer

Features integrated with Vehicle Spy:

- Connect to Vehicle Spy over USB
- Run CoreMini standalone on the device
- Show data from CoreMini Log Data function block on screen in real time
- Port VSpy's Graphical Panels to your VividCAN
- 4 on-screen switches for input to CoreMini
- 1 audio-buzzer as PWM Output 1

Device Specifications:

- Low power consumption: 175 - 225 mA during general use, dependent on LCD screen brightness setting
- Power supply: 5-40V operation
- Temperature range: -40°C to +70°C (with display)
- One-year limited warranty
- Field-upgradeable flash firmware
- Microsoft-certified USB drivers

Network Specifications:

- 1x HSCAN - TJA1043 transceiver, speeds up to 1 Mbps
- 1x LSFTCAN - TJA1055 transceiver, speeds up to 125 kbps
- 1x SWCAN - MC33897 transceiver, low or high speed modes (33 kbps or 83.33 kbps)
- CAN switch multiplexer - software-controlled selection of 1 CAN network

DB-9 Pinout:

1 - SWCAN	6 - GND
2 - HSCAN L	7 - HSCAN H
3 - GND	8 - LSFTCAN H
4 - LSFTCAN L	9 - VBAT
5 - GND	

Ordering Information:

Part Number	Description
VIVIDCAN	VividCAN device with touchscreen LCD

**Specifications subject to change. Please contact Intrepid for the latest information.*

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