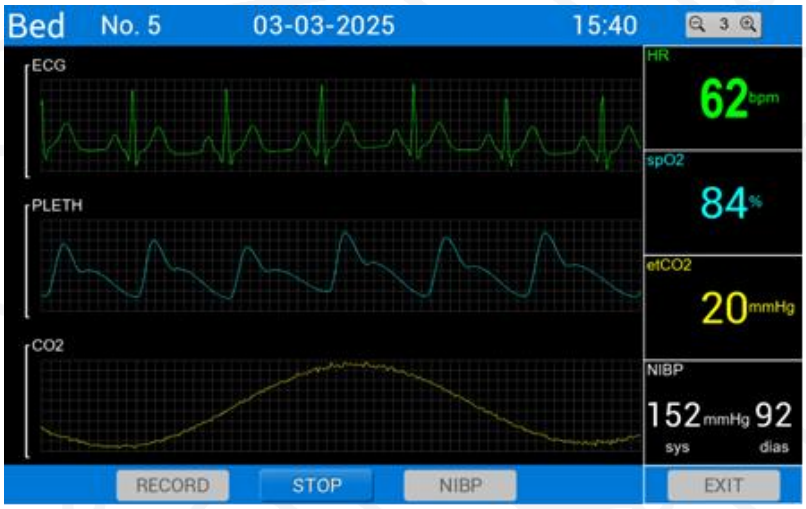
Bedside Patient Monitor

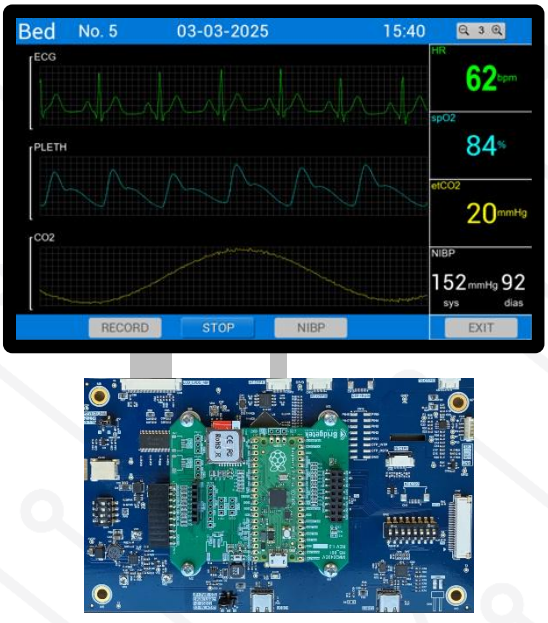


Description:

This demo illustrates the key Graphical User Interface (GUI) functions for a bedside patient monitor, focusing on the **Vital Signs Display**, **Waveform Visualization**, **Patient Information**, and **Touchscreen Controls**. It showcases the powerful capabilities of the **automotive-grade (AEC-Q100 qualified) Embedded Video Engine (EVE) BT817A** in visualizing real-time graphical data and ensuring responsive user interfaces when used in conjuction with a cost-effective MCU such as the **Raspberry Pi RP2040**. In addition to automotive use cases, the BT817A is ideal for a range of applications including Medical Equipment, Industrial Monitoring and Data Visualization.

Technical Specification:

- **LCD Resolution:** 1280 x 800 pixels (10.1” display)
- **MCU:** Raspberry Pi RP2040
- **GPU:** Bridgetek BT817A
- **Increased Temperature Range:** -40°C to 105°C
- **Touch Control:** Capacitive touch screen
- **Demo Hardware:** ME817EV with MM2040EV



ME817EV with MM2040EV

Key Features:

- **Graph Rendering:** Smooth, high-resolution graph visualization
- **Real-time Updates:** Dynamic data changes in the graph display
- **UI Responsiveness:** Quick transitions and fluid animations
- **Performance:** Efficient handling of graphical computations
- **Custom Font Support:** Enhanced UI styling and large readouts
- **Touch Engine:** Easy implementation of touch-screen controls