

### Product Description

Nayana is an Instrumentation cluster made for Electric bikes including scooters and sports vehicle. This unit is based on Low cost Renesas microcontroller and 4.3" display. The Instrumentation cluster is a user dashboard displaying various vehicle parameters Like riding Mode, Battery status, motor speed, RPM, Range, trip status, and warning if any.

### Features

- 4.3" LCD display with intuitive GUI
- Powered by +12VDC (7V-16V) input.
- Isolated CAN Communication with BMS and MCU
- GPIOs for left and right wipers, high beam, and side stand
- All I/O's & CAN port with short circuit and over voltage protection.
- It has a rechargeable power backup system (4 Hours) using lithium polymer battery.
- Tricolor LED to display the charging status.
- Single LED to indicate the battery faults.
- Keypad for navigating through different screens.
- Inbuilt RTC
- IP67 Enclosure
- BT/BLE support for user mobile connectivity for
  - GPS Navigation (Through Android app)
  - Audio (Voice Navigation assist and play music from user mobile)
- FW upgrade through CAN
- Wi-Fi support for OTA
- LTE for
  - Vehicle data upload to server
  - FOTA (Firmware over the air)
- GPS to track the vehicle location.
- Personalized welcome messages.
- Incoming Call, SMS, Bluetooth connection alert.
- Dark and light theme for the Display



**NAYANA 1.0**  
**Instrumentation Cluster System**

