EVOA CARE

Device Name/Model	Low Power Wireless Device (for Wireless Data Communication Systems) / EV1000
Manufacturer	Nmotion Co.,Ltd.
Communication Standard	ISO 15765-4(CAN)
Performance	Nordic® Semiconductor nRF52840 SoC 솔루션 64 MHz ARM® Cortex-M4F CPU
Connection Method	Bluetooth 5.3
Compatible Devices	Android, IOS
Rated Voltage	12V
Manufacturing Date	2024.05
Product Features	

01. Function Explanation

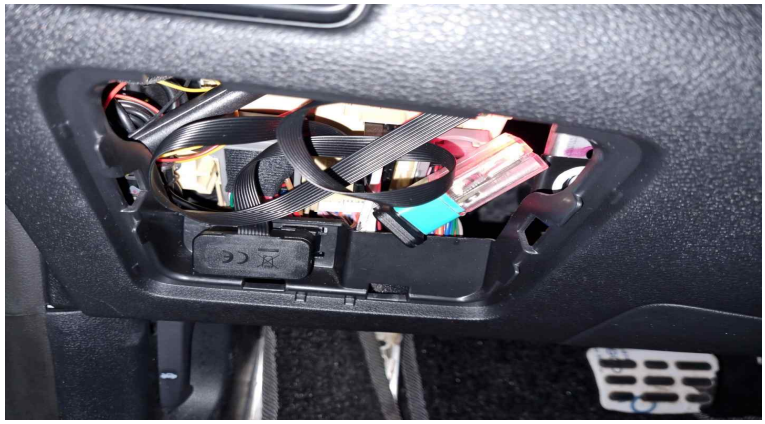
- A device for acquiring electric vehicle and battery status information through OBD (On-Board Diagnostics).
- Connects to the electric vehicle's OBD2 terminal (an interface port for vehicle diagnostics) to read data such as voltage, current, and temperature of the battery, and transmits this information to a dedicated app.
- Provides information such as battery life estimation, status diagnosis, and powertrain efficiency based on a deep learning-based algorithm.

02. Product Description

- Hardware design for low power and implementing features such as CAN, BLE.
- Supports data transmission and reception through BLE communication (Bluetooth 5.3) with the vehicle and mobile devices.
- Communication speed between the phone and device: more than 500 kB/sec.
- Displays and stores over 100 vehicle information types, including electric vehicle cell voltage, temperature, pack voltage, pack current, CCC, CDC, CEC, CDE, SoC, SoH, RPM.
- Computes important battery parameters such as DCIR.

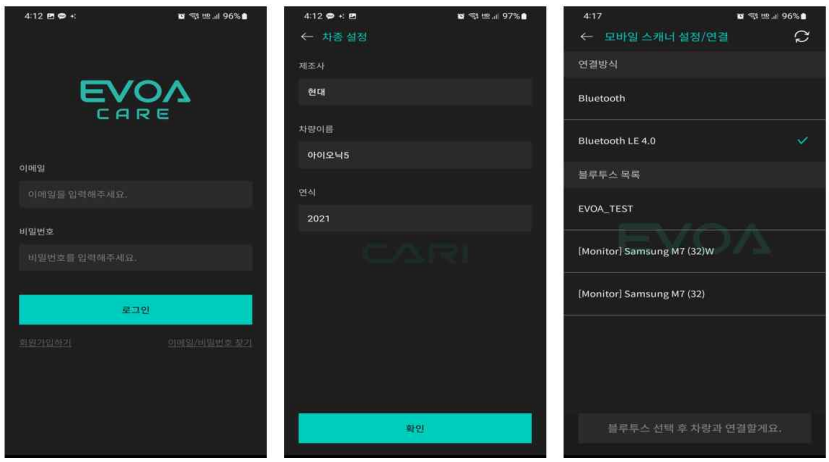
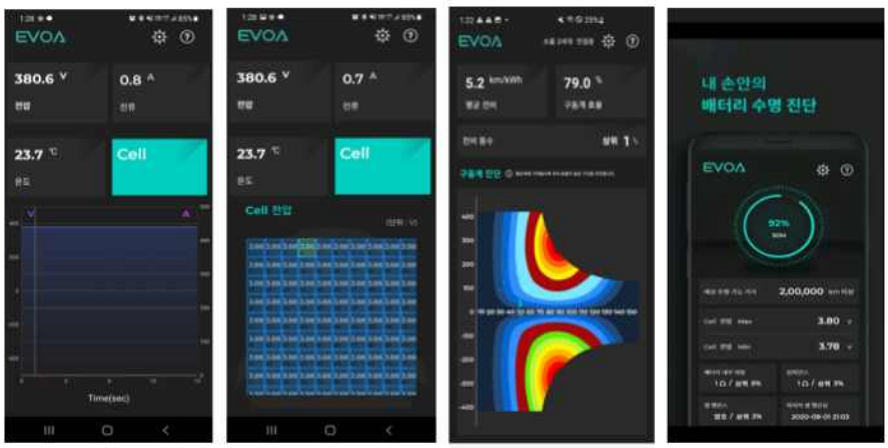
03. Installation Method

- Plug the device into the OBD port and start the vehicle.

Installation	

04. App Connection

- Turn on the dedicated app and start the registration process -> Enter the vehicle information and start Bluetooth connection with the dedicated terminal (EVOA_TEST).

APP Connection	
APP Display	

05. Caution

When connecting with the app, you can check the voltage, current, and individual cell data of the battery pack.

When disconnecting from the app, driving and charging logs will be saved on the SD card.

Please send the test product back to us after logging with the SD card, as we plan to upload the data to the server.

The test product logs data from the same vehicle model, so please ensure that the terminal is inserted after confirming the vehicle model to avoid data contamination.

LED Color	

06. FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC ID
2BK7I-EV1000