

### Smart Key Box (CMS-KBX)

The CMS-KBX is a device that allows remote control and management of a vehicle using its smart key, in conjunction with a smartphone and the CMS-KC2 device. The smartphone connects via Bluetooth to control various functions, such as locking and unlocking the vehicle, while it communicates with the CMS-KC2 device through UART, enabling the administrator to manage the vehicle more intuitively. This system enhances vehicle security and provides more efficient and convenient management.

#### specifications

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Input Power           | DC 5V                                                   |
| External Interface    | Uart, Bluetooth                                         |
| Connection Method     | Direct Connection                                       |
| Key Features          | Smartphone, Remote Control for Vehicle Doors open/close |
| Size                  | 95mm x 60mm x 35mm                                      |
| Smartphone Support    | iOS, Android                                            |
| Operating Temperature | -10 °C ~ +50 °C                                         |
| Frequency             | BT(LE 1M/LE 2M) : 2 402 MHz ~ 2 480 MHz (TRX)           |

#### External Connector PIN MAP

|   |              |
|---|--------------|
| 1 | DC 5V        |
| 2 | RS232_TXD    |
| 3 | RS232_RXD    |
| 4 | GPIO         |
| 5 | GPIO/KB_WKUP |
| 6 | GND          |

#### <Conformity Assessment Markings>

Company Name: Kyungwoo System Tech Co., Ltd.

Equipment Name: FOB Control Device

Model Name: CMS-KBX

Date of Manufacture: Specified Separately

Manufacturer: Kyungwoo System Tech Co., Ltd.

Country of Manufacture: South Korea

Certification Number: R-R-KWO-CMS-KBX

A/S Inquiries: Kyungwoo System Tech Co., Ltd.

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### 1. 스마트폰 애플리케이션 설치 및 연결

- 1) App Store 또는 Google Play Store에서 "CMS-KBX" 앱을 다운로드합니다.
- 2) 스마트폰의 Bluetooth 기능을 활성화합니다.
- 3) 앱을 실행하고 "장치 검색" 버튼을 눌러 CMS-KBX를 검색합니다.
- 4) 검색된 CMS-KBX 장치를 선택하고 페어링합니다.
- 5) 최초 연결 시 제품 기본 비밀번호를 입력하여 인증합니다. (기본 비밀번호: 0000, 변경 가능)
- 6) 연결이 완료되면 장치의 상태를 확인할 수 있습니다.

### 2. 원격 제어 기능

- 1) 앱 내 "원격 제어" 메뉴로 이동합니다.
- 2) 원격으로 스마트 키를 잠금 또는 해제할 수 있습니다.
- 3) 일정 거리 내에서만 작동하며, 연결 상태를 유지해야 합니다.

### 3. 장치 상태 확인

- 1) CMS-KBX 앱을 실행합니다.
- 2) "장치 상태" 메뉴에서 현재 스마트 키 상태(잠금/해제)를 확인 할수 있습니다.

### 1. Installing and Connecting the Smartphone Application

- 1) Download the "CMS-KBX" app from the **App Store** or **Google Play Store**.
- 2) Enable the **Bluetooth** function on your smartphone.
- 3) Open the app and tap the "**Device Search**" button to find **CMS-KBX**.
- 4) Select the detected **CMS-KBX** device and pair it.
- 5) When connecting for the first time, enter the default password to authenticate. (**Default password: 0000**, can be changed later.)
- 6) Once connected, you can check the device status.

### 2. Remote Control Function

- 1) Navigate to the "**Remote Control**" menu in the app.
- 2) You can **lock** or **unlock** the smart key remotely.
- 3) This function works only within a certain range and requires a stable connection.

### 3. Checking Device Status

- 1) Open the **CMS-KBX** app.
- 2) Go to the "**Device Status**" menu to check the current state of the smart key (**Locked/Unlocked**).

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with RF exposure requirement.