SMART KEY EMULATOR “ISKRA - 2” v.22.11

PURPOSE OF THE DEVICE:

The **ISKRA-2** SMART-key emulator is intended for government agents, key locksmiths and collection agencies. ***Device is not designed for criminal use!***

CAPABILITIES OF THE DEVICE:

- The **ISKRA-2** device can open, close or start a car engine even if all the keys are lost!
- The device displays the calculated PIN-code for key programming via the diagnostic connector.
- Intelligent data calculation algorithm (usually about 1 minute).
- Software for calculating data for new models of cars.
- 3D antenna for high-quality signal reception from the car.
- 40 memory cells.
- Unique PIN code to turn on the device.
- Powered by two AA batteries.

SUPPORTED CAR LIST IN MODE “KIA/HYUNDAI/GENESIS”:

PACKAGE M1:
1. MITSUBISHI ASX (2016-2020)
2. MITSUBISHI OUTLANDER 3G (2015-2021)

PACKAGE M2 (UNDER CONSTRUCTION):
1. PAJERO SPORT (2016-2020)
2. ECLIPSE CROSS (2017-2020)
3. L200 (2015-2020)

PACKAGE KR-1 [LIC #1]:
1. KIA STINGER 1G (2017-2021)
2. KIA SPORTAGE 4G (2018-2021)
3. KIA SPORTAGE 4 (2016-2018)
4. KIA SORENTO 3G FL (2017-2020, PRIME)
5. KIA SORENTO 3G (2014-2017, PRIME)
6. HYUNDAI TUCSON 3G FL (2018-2021)
7. HYUNDAI TUSCON 3G (2015-2018)
8. HYUNDAI SANTA FE 4G (2018-2021)
9. GENESIS G70

PACKAGE KR-2 [LIC #2]:
1. KIA NIRO (2016-2021)
2. HYUNDAI KONA HYBRID
3. HYUNDAI KONA ELECTRIC
4. HYUNDAI KONA
5. HYUNDAI IONIQ HYBRIDE

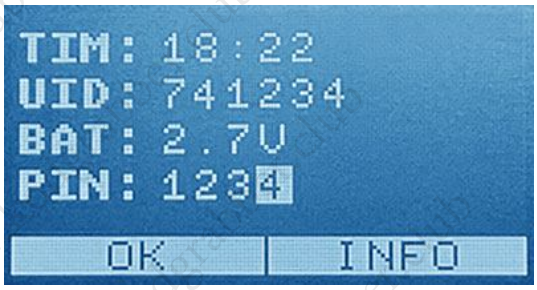
PACKAGE KR-3 [LIC #3] (*):
1. HYUNDAI PALISADE (2018-2021)
2. HYUNDAI SANTA FE 4G FL (2020-2021)
3. HYUNDAI SONATA 8G (2019-2021)
4. HYUNDAI TUCSON 4G (2020-2021)
5. KIA K900 2G (2018-2021)

PACKAGE KR-4 (EUROPACK) [LIC #4]:
1. KIA STINGER 1G (2017-2021)
2. KIA SPORTAGE 4G (2018-2021)
3. KIA SPORTAGE 4 (2016-2018)
4. KIA NIRO (2016-2021)
5. HYUNDAI TUCSON 3G FL (2018-2021)
6. HYUNDAI TUSCON 3G (2015-2018)
7. HYUNDAI SANTA FE 4G (2018-2021)
8. HYUNDAI SANTA FE 4G FL(*) (2020-2021)
9. HYUNDAI KONA HYBRID
10. HYUNDAI KONA ELECTRIC
11. HYUNDAI KONA
12. HYUNDAI IONIQ HYBRID
13. IONQ

(*) – *About of 20% of the cars got new complicated algorithms of PIN-calculation. If device cannot calculate PIN from the car, you must obtain PIN code by VIN (using any suitable calculation software) and then use **“UpdaterApp”** to calculate data for ISKRA.*

MODE "KIA/HYUNDAI":

1. Turn on the device by holding the **"X"** button for about 2 seconds. You will see a screen for entering a PIN.



2. Enter the device PIN using the arrows and confirm with the **"O"** button. Please do not try to guess the PIN code - the device will be blocked and will stop responding even to the correct PIN.

3. If the PIN-code is entered correctly, you will see the **"SELECT"** menu for selecting the operating mode of the device.

4. Select the **"KIA / HYUNDAI"** mode and confirm with the **"O"** button and you will go to the memory cell operation menu.

5. Use the **"<"** and **">"** arrows to select a cell. If the cell is empty, it will say **"EMPTY"**, if it is already in use – there's will be the PIN code visible.

6. The list of supported vehicles is located under the cell number. Use the arrow buttons to select the make and model of the vehicle. Click **"SCAN"** to scan the vehicle.

7. The device enters scan mode. Press the button of any door or trunk from 2 to 4 times until the scale is full. After scanning, the device will switch to the data calculation mode for key emulation.

- If the vehicle was selected incorrectly, the scan will not be performed!
- It is not necessary to stand near the vehicle while calculating.

8. At the end of the calculation, you will see the PIN code and available operating modes.

9. To emulate the SMART key, select **"EMULATION"** in the menu. The device will switch to key emulation mode, and you can open, close or start the car like with original SMART key. When the device is triggered, **"@"** will appear on the screen. Press the **"X"** button to complete the emulation.

10. Use the **"DELETE"** function to delete a cell.

11. To turn off the device, press and hold the **"X"** button.

MODE "MITSUBISHI":

1. Turn on the device and enter the PIN.
2. Select **"MITSUBISHI"** from the menu.
3. This mode does not require preliminary scanning and immediately switches to the SMART key emulation mode.
4. The data used for emulation is not saved to the cells.
5. Press the **"X"** button to complete the emulation.
6. Press and hold the **"X"** button to turn off the device.

MODE "MITSUBISHI-2" (UNDER CONSTRUCTION):

1. Turn on the device and enter the PIN.
2. Select **"MITSUBISHI-2"** from the menu.
3. In this mode, the data for emulating the SMART key can only be obtained from the radio exchange between key and car, by pressing the buttons on the key.
4. To receive such data, the device blocks the **KeylessGo** response and waits for the close or open buttons on the key to be pressed.
5. When the necessary data is received from the key, the device will switch to the SMART key emulation mode.
6. The data used for emulation is not saved to the cells.
7. Press the **"X"** button to complete the emulation.
8. Press and hold the **"X"** button to turn off the device.

BATTERY REPLACEMENT:

1. The device runs on two **AA** batteries.
2. When the device is turned on, the **BAT** column displays the status of the batteries. For example:
   a. **BAT: 3.0V** - batteries fully charged
   b. **BAT: REPLACE** - replace discharged batteries.
3. Use only good batteries.
4. Install the batteries according to the diagram indicated under the cover of the device.

LICENSES AND THEIR ACTIVATIONS:

1. The functionality of the device and the supported model range depends on the activated licenses.
2. Licenses are activated by entering a 4-digit activation PIN.

WARNING!

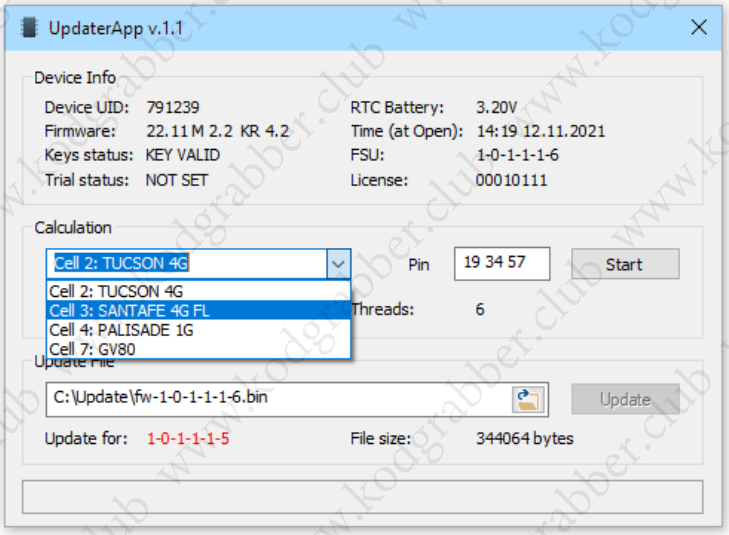
Please do not try to guess the PIN code - the device will be blocked and will stop responding even to the correct PIN.

DATA CALCULATING FROM PIN CODE:

In brand new or dealer-updated cars, a vulnerability that allowed calculating the PIN-code and the data necessary for key emulation was eliminated.

1. If after performing the calculation instead of the PIN-code you see **"------"**, in this case, you will need to find out the PIN-code from this car by its VIN number (using VIN-PIN calculator software, etc.).
2. Unlock your device by entering your PIN and connect it to your Windows 10 computer.
3. Run the "**UpdaterApp"** utility. The program will establish a connection and display the device information in the **"Device info"** field.
4. In the **"Calculate"** field, select the cell for which you want to calculate the data.
5. Enter the PIN-code from this car and press the **"Start"** button.
6. After successful execution of the calculation, the **UpdaterApp** utility will update the data in the device. PIN-code and the data is required to emulate the key will be written into the cell for which the calculation was performed.

- *It is recommended to use a powerful computer, because the data calculation time depends on the processor power. On a laptop with a 4-core Intel i5 CPU, the calculation takes up to 30 minutes.*
- *The PIN code must be from exact vehicle, otherwise the data cannot be calculated.*
- *Do not disconnect the device from the computer until the end of the calculation.*
- *Some antiviruses may not accept the **"UpdateApp"** utility, and must be switched off.*



DEVICE UPDATING:

1. Format the device's memory by holding the down arrow and turning on the device.
2. Unlock your device by entering your PIN and connect it to your Windows 10 computer.
3. Run the **UpdaterApp** utility. Utility will establish a connection and display the device information in the **"Device info"** field.
4. Click on the **"Folder"** icon next to the **"Update"** button and select the file to update. If the update file is suitable for this device, the **"Update"** button will become available.

***Attention!** Do not disconnect the device during the update.*