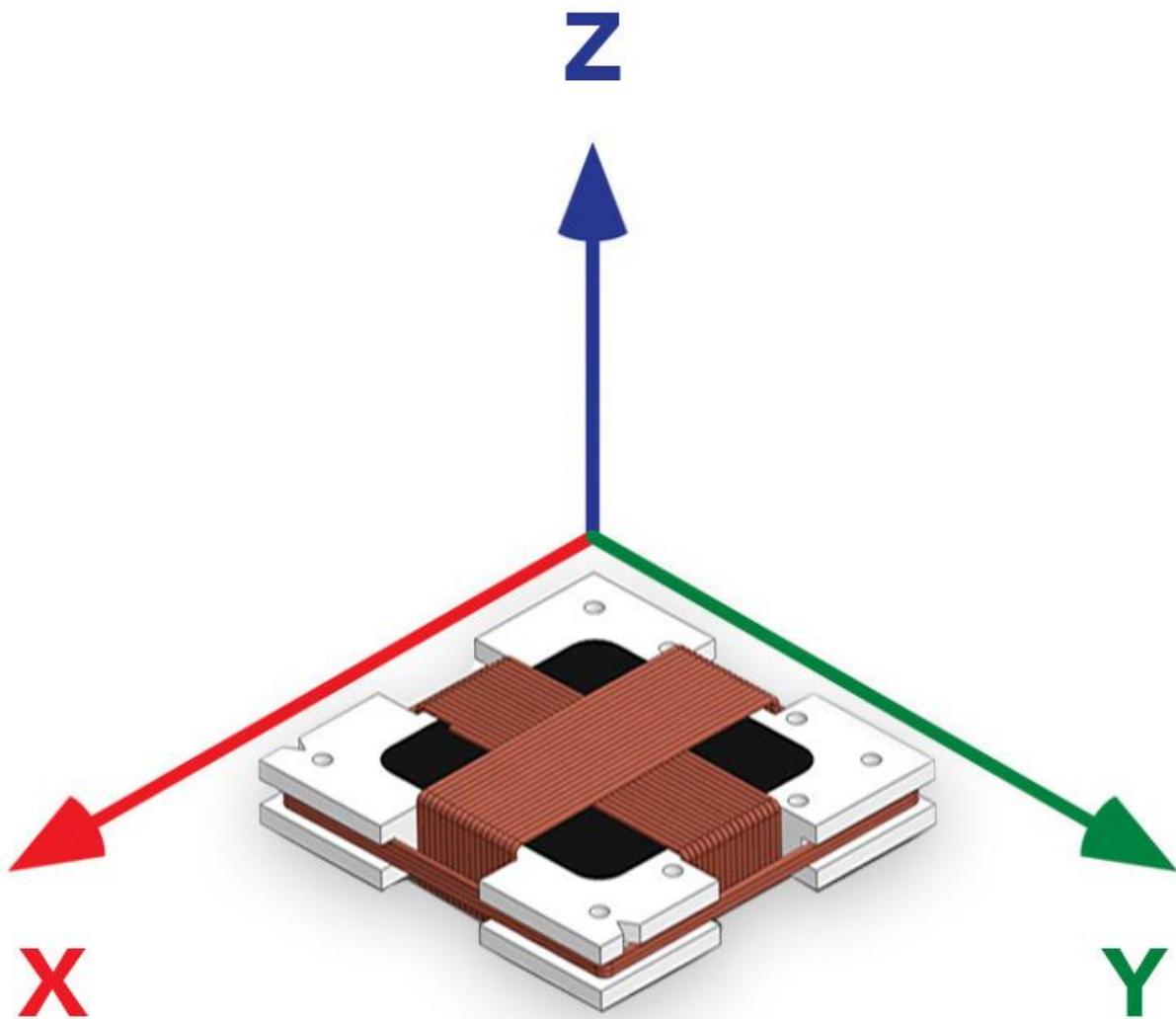


**WAVE-2 (3D)**  
**v.1.0**



**3D COIL INSIDE**

Unique technology of transmitting signal levels using 3D antenna available in "WAVE-2 (3D)" (in three directions in the same time - as used in the original key!) allowed to multiply the quantity and quality of actuations and raise the efficiency of the device to a completely new level!

The device is designed to transmit "requests" in one direction only - from the car to the key. Key "answers" to the car directly. The working distance from the car to the key is from 15m to 100m, depending on the type of key, condition of its battery and radio interferences. The device allows you to open the doors and start the car engine. Transmitter dimensions (car side): 25x90x150 mm; receiver dimensions (key side): 30x190x240 mm

To choose operating mode - turn one of the switches down (ON), all the others are turned up. Operation mode must be set only on a small translator (CAR), on a large translator (KEY) only switch Num. 1 must be enabled.

#### Designation of the switches:

1. Mode-1 «AUTOMATIC» (For modes 2, 3 or 4 only)
2. Mode-2 «20 kHz» - MERCEDES X166, X164, W222 (FBS-3 and FBS-4) or similar, also AUDI Q7
3. Mode-3 «125 kHz» - supports almost all keyless-go system based on 125 kHz:
  - AUDI (except Q7, it uses Mode-2)
  - BMW (all of 125 kHz)
  - CADILLAC (all of 125 kHz)
  - CITROEN (all of 125 kHz)
  - FORD (all of 125 kHz)
  - HYUNDAI (all of 125 kHz)
  - INFINITY (all of 125 kHz)
  - KIA (all of 125 kHz)
  - MAZDA (all of 125 kHz)
  - MERCEDES (221, old types of ML W164 and GL W166 - they use 125 kHz)
  - NISSAN (all of 125 kHz)
  - OPEL (all of 125 kHz)
  - PEUGEOT (all of 125 kHz)
  - PORSCHE (all of 125 kHz)
  - RENAULT (all of 125 kHz)
  - SEAT (all of 125 kHz)
  - SKODA (all of 125 kHz)
  - SUZUKI (all of 125 kHz)
  - TESLA (all of 125 kHz)
  - VOLKSWAGEN (all of 125 kHz)
4. Mode -4 «134 kHz» TOYOTA and SUBARU till 2015 m.y. (key types D4,94,98,88)
5. Mode -5 «R» only for RANGEROVER/LANDROVER/JAGUAR
6. Mode -6 «T» only for TOYOTA and LEXUS from 2015 m.y. (key type A8)

In the mode 1, device automatically selects algorithm when the first request from the car takes place. The LED on the receiving device flashes — it corresponds to the activated mode (modes 2, 3, or 4), and the binding to this mode is maintained for 10 seconds. If within 10 seconds there were no more key requests, the device goes into standby mode and the green LED starts flashing slowly. A new request from the car will restart the function of automatic selection of the operation mode.

If mode on small translator selected manually, large repeater, takes selected mode automatically, and the white LED will show the current mode. Modes can be switched "on the fly" without restarting the device.

#### Explanation of the LED colors:

WHITE – Device operation indicator, also interference indicator. When mode switched – mode number.

YELLOW (on big translator) connection between translators is available– (Yellow always lit on a small translator).

RED – Indicate "requests" from a car. When switched –shows mode number.

GREEN – slow flashing – awaiting for requests, fast flashing – translation of the requests.

**CHARGE DEVICE ONLY WHEN IT IS OFF.**

If the red LED is ON for a long time when the power is turned - the battery is discharged, then turn it off and charge the device.

A lithium polymer battery consists of three separate banks, therefore, there are 3 indicators on the charger. Charge until the all of 3 LEDs will light up GREEN.

Device not intended for criminal use.

If devices are not fully charged, unstable operation is possible. If you have fully charged both devices, but the performance has not recovered, replace the batteries.

Periodically inspect the batteries in each device, in the presence of traces of swelling - replace the battery.

When connecting the charger you must observe the correct position of the connector. The device uses powerful batteries, incorrect charging connection will lead to smoke and possible fire of the device, be careful and attentive.

Always visually monitor the charge process! Never leave the device connected to the charger without control - the risk of spontaneous ignition of the battery!