



iBlue



Immobilizer



**Immobilizer**

User Guide

Congratulations on your purchase of the iBlue Immobilizer. Prior to using the product, please make sure you read these instructions carefully.


The package includes 1 pc. iBlue Immobilizer, 1 pc. plastic card containing the PUK code and 1 pc. booklet. If any of the components are missing from the box, please immediately contact the distributor by using any of the contact details that are outlined on the website of the product.



The iBlue Immobilizer conforms to related standards, normative documents and carries the **CE** marking. The full certificate of conformity can be found on the following website: [www.iblue.eu](http://www.iblue.eu).

The iBlue Immobilizer has EC type-approval number. The type-approval certificate issued by the

National Transport Authority and the related test results can be found on the following website: [www.iblue.eu](http://www.iblue.eu).

The  (crossed-out waste bin) means that at the end of its lifecycle and within the European Union the product must be thrown into a separate container. Please, make sure you do not dispose the product as household waste. The manufacturer undertakes to provide customers with information on chemical substances used in the devices that is necessary to ensure compliance with various acts and regulations. These pieces of information can be found on the following website: [www.iblue.eu](http://www.iblue.eu).

All trademarks and markings displayed in these use and installation instructions are the exclusive property of their respective proprietors.

**Technical data**

Operating input voltage range	<b>9-15 V</b>
Operating temperature range	<b>-40°C - +85°C</b>
Current consumption when armed	<b>19 mA</b>
Current consumption when disarmed	<b>105 mA</b>
Number of interrupted circuits	<b>2</b>
Delay before rearming after ignition is turned off	<b>30 sec</b>
Type of output	<b>relay output without fuse protection (NO)</b>
Max. load current on the output(s)	<b>15 A</b>
Short circuit protection of voltage supply input	<b>fuse (0.5A)</b>
Dimensions	<b>74x39.5x20 mm</b>
Wireless communication protocol	<b>Bluetooth® 4.0 LE</b>
RF carrier frequency	<b>2.4 GHz</b>
RF output power	<b>+3 dBm</b>

## General information

After turning the ignition key the iBlue Immobilizer prevents the engine from starting until the operator of the vehicle approves this on his/her smartphone using the mobile application specially designed to control the immobilizer.

The device can be installed in all vehicles equipped with a 12V nominal voltage battery and use common negative ground.

### WARNING!

The immobilizer can only be installed by a qualified automotive electrician expert, in line with these use and installation instructions as the proper installation of the product cannot be ensured in any other manner and that the meeting of this requirement does not represent a disproportionate burden for the consumer. The unprofessional installation or transformation of the immobilizer jeopardises the secure operation of the vehicle. The manufacturer

and distributor of the iBlue Immobilizer disclaim responsibility for any and all damage arising from improper, mistaken or unprofessional installation and commissioning. The installing expert must fully complete the attached installation certificate and hand it over to the operator of the vehicle after installation is completed. Please, take extra care to retain the installation certificate, as this is needed for enforcing possible consumer claims with regard to the immobilizer.



## Directions for installation

### WARNING!

The immobilizer can only be installed by a qualified automotive electrician expert, in line with these directions for installation. The immobilizer can only be installed in a vehicle with an intact electrical system that is in a good state of repair. When installing the immobilizer, the installing expert must verify that this is the case and if these conditions are not in place, he must reject the installation.

The immobilizer can be used to interrupt the circuits of two units needed to start the engine. The device must be installed within the passenger compartment of the vehicle when voltage is turned off. The place of installation must be protected in mechanical and electric terms, from both leaking liquids and vapours. The place must be free of moving parts and ambient temperature must be within the operating temperature range.

### BEWARE!

#### Risk of injury

It is recommended to install the immobilizer when voltage is turned off. When connecting to the vehicle's wires use welded joints for all wires. The wires must be insulated, as any rupture, dropping, decoupling or any other similar event can cause the vehicle to stop immediately representing an increased risk of accident. The improper, mistaken or unprofessional installation and commissioning of the immobilizer also represents an increased risk of accident.

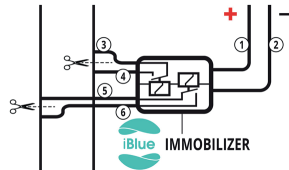
**WARNING!**

During installation the installing expert must verify that the circuit of which is interrupted by the immobilizer does not trigger an error code in the on-board computer of the vehicle that affects the operational capability of the vehicle. It is important to power the immobilizer from a wire that is controlled by the ignition switch and provides constant power during the start up procedure. Once installation is complete, after having become familiar with information outlined in the chapter on using the smartphone application, the operator of the vehicle should verify if it really is possible to prevent the starting of the engine.

**The wiring diagram of iBlue Immobilizer**

Wiring is summarised in the following table:

Wire number	Function
1	+12V (ACC)
2	Earth
3	Relay 1 output A
4	Relay 1 output B
5	Relay 2 output A
6	Relay 2 output B

**Maintenance**

The device does not require any maintenance.

**Functions of the iBlue Immobilizer**

If turned on/armed, the immobilizer prevents the starting of the engine after turning the ignition key. The device remains turned on/armed until we enter the proper PIN code. After entering the proper PIN code, the device is disconnected.

When disconnected, the immobilizer does not prevent the starting of the engine. It is only possible to terminate the disconnected status by turning ignition off. Within 30 seconds after ignition is turned off, the immobilizer gets armed automatically.

### Using the iBlue Immobilizer

The free smartphone application necessary to operate the immobilizer can be downloaded from AppStore (in case of smartphones with the iOS™ operating system), the Google Play Store™ (in case of smartphones with the Android system) or from the Windows Store™ (in case of smartphones with Windows) Look for the **iBlue Immobilizer** application!



### IMPORTANT!

The product can be operated only with the **iBlue Immobilizer** application. The manufacturer and distributor of the iBlue Immobilizer disclaim responsibility for any and all error or damage arising from operation in any other manner or from the use of any harmful codes.

### NORMAL MODE



### SERVICE MODE



Communication between the smartphone application and the device is encrypted. Strength of the encryption is 128 bit.

The immobilizer has two modes of operation.

In **normal mode**, entering the right PIN code enables the start up. The permission is valid until the ignition is turned off.

In **service mode** the immobilizer automatically enables starting when ignition is turned on, this time there is no need to use the PIN code.

The PUK code can be used to modify the PIN code. The card with the PUK code is included in the box of the device.

#### IMPORTANT!

Please, make sure you keep the plastic card with the PUK code at a secure place so that it cannot be accessed by unauthorised persons. The manufacturer and the distributor of the iBlue Immobilizer disclaim responsibility for any and all damage arising from access to the card by unauthorised persons.

During installation the mechanic does not need the card because the immobilizer automatically starts in service mode. When starting to use the device with the smartphone for the first time, it is mandatory to enter the PUK code. Subsequently, it is necessary to enter a 6 digit PIN code of Your choice for the immobilizer.

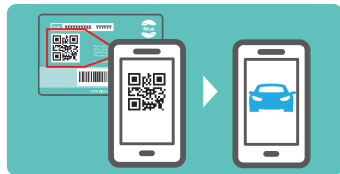
In case you forget the PIN code, you can use the PUK code to set up another PIN code. In case you register the product on our website, later on it will be possible to retrieve the PUK code electronically.

#### IMPORTANT!

In case you do not own a smartphone, or cannot access the PUK card, in order to operate the product the only option is to retrieve the PUK code of the previously registered product.

Please make sure you do not share the PIN code with unauthorised persons! The manufacturer and the distributor of the iBlue Immobilizer disclaim responsibility for any and all damage arising from the sharing of the code with unauthorised persons.

Use the PUK code to adjust the PIN code / Set up the new PIN code



**Important information!**

After you turn the ignition key, the signals of the Bluetooth® radio in the immobilizer can be detected only for 30 seconds. If during this time the smartphone cannot connect to the immobilizer, the ignition key must again be set to the 0 position and then turned on again. After quitting the application, the Bluetooth® connection is interrupted. For repeated connection, the ignition key must again be set to the 0 position and then turned on again.

After establishing a Bluetooth® connection between the smartphone and the immobilizer, 3 attempts can be made to enter the proper PIN code. After entering a wrong PIN code on three occasions, the device disconnects the Bluetooth® connection. In such a case, the repeated entering of the PIN code can be approved by turning the ignition off and on again. In case you would like the application to automatically enter the PIN code for you, approve this function in the 'Settings' panel that pops up after the successful entering of the PIN code.

**IMPORTANT!**

Be careful when approving the automatic entering of the PIN code (e.g. turn on a code protected screen lock) because in case your smartphone is used by unauthorised persons, your vehicle may become unprotected. The manufacturer and the distributor of the iBlue Immobilizer disclaim responsibility for any and all damage so arising.

The iBlue Immobilizer is compatible with all devices that use the iOS™ 8.0 (or newer), Android™ OS 4.3 (or newer) or Windows Phone™ 8.1 update 1 (or newer) operating system and features/operates Bluetooth® 4.0 wireless technology.

**WARNING!**

In case you have any questions regarding the installation or use of the iBlue immobilizer, please contact the distributor using any of the contact details outlined on the product's website.

Please make sure you always use the iBlue Immobilizer cautiously and keep security in mind. Similar to all other security devices, the iBlue Immobilizer can also not guarantee 100% safety for your properties. So the manufacturer and distributor of the iBlue Immobilizer disclaim any and all responsibility for damage arising from the theft of or physical damage done to your vehicle or properties left in it.

Furthermore, the manufacturer and distributor of the iBlue Immobilizer disclaim any and all responsibility for defects and/or damage arising from the following acts: use and handling other than described in these directions for use and installation, misuse, unprofessional installation and use, unprofessional repair or transformation, unauthorised tampering, improper storage, external impact (e.g. over-voltage, lightning), environmental impact (chemical impact, e.g. acidic rain, scale etc.), adverse environmental conditions (e.g. discolouration due to freezing or harmful solar radiation), natural disaster or any other reason (not listed above) arising after purchase.



**Descriptions and illustrations in these directions for use and installation may change. The manufacturer reserves the right to carry out any and all modifications it regards necessary to improve the product in technical, production or trading terms, while leaving the fundamental features of the product unchanged and may do so even without adjusting this documentation.**