Simplified instructions for installing and using the bikeAngel device - for monitoring motorcycles, scooters, quads **EN**

MOTO

1. The monitoring system consisting of the bike**Angel** GPS device and the bike**Angel** mobile application for smartphones is designed to protect against unauthorized manipulation and theft of the monitored (guarded) device, to detect and inform about a fall or accident, and to precisely locate the guarded device 24/7. This GPS tracker uses both **2G** and **4G** networks.

2. Package content:
Bike**Angel** GPS device with connecting cables with waterproof connectors, backup battery, quick connectors, velcro.

3. System assembly procedure
3.1 Install the bike**Angel** app from Google Play or the App Store (*see point* **4. Installing the mobile app**)
3.2 Add a new monitored device in the bike**Angel** app (*follow the in-app instructions*)
3.3 install the bike**Angel** device in the guarded motorcycle, scooter, … (*see point* **5. Assembly of the bikeAngel device**)
3.4 Make sure that you have Bluetooth communication turned on on your mobile. Make sure that the device is in an open area for a few minutes after installation so that it is correctly focused by the satellites. Check the functionality of the bike**Angel** device and the app.

Google Play App Store

4. Installing the mobile app and log-in for the first time
After installing the bike**Angel** app, register according to the instructions, i.e. enter **Name** (user ID), **E-mail address** (must be real), **Password** (at least a 6-digit alphanumeric string; the system is case sensitive). Finally, confirm your **acceptance of the terms and conditions.**

5. Assembly of the bikeAngel device
5. 1 Find on the guarded motorcycle the most hidden place for connecting the bike**Angel**, so that this device is not inside the metal frame and there are as few metal motorcycle components as possible between the device and the sky; The bike**Angel** device must be placed with the printed side facing the sky.
5.2 Disconnect the battery of the guarded vehicle (quad, scooter). Attach the bike**Angel** device and the back-up battery to the selected location using the included adhesive velcro.
5.3 Bring the wires of the **bikeAngel** to the wiring of the guarded vehicle, which is permanently live, i.e. even when the ignition is off or vehicle is not in motion.
5.4 Connect the **blue** wire to **the minus** (**-**) **pole** and the **black** wire to **the plus** (**+**) **pole** using the included quick clutches. Re-connect the battery of the monitored motorcycle.
5.5 The bike**Angel** device starts flashing in the window in the middle of the box, i.e. the connecting to the server is ongoing. After approx. 60 sec. the LED blink turns into double, which confirms the successful data connection with the server. In order to save battery power, the LED stops flashing cca. 15 minutes after the power is connected, and the device continues to indicate its activity only in the app.

6. Turning the guard on and off
You can activate the guard immediately at any time by clicking on "**Turn on guard**" (so-called manual mode indicated by the “key” icon). Or you can click on "**Turn on automatic mode**", which means that your device will not be guarded when you are near it (within the range of your mobile phone's Bluetooth signal). When you move away from the device, the guard will turn on independently. When you return to the device and make a minimal movement of the device, the guard will automatically deactivate, and you can comfortably leave with it without an alarm. You can monitor the current guard status in the top window of the bike**Angel** application.

7. Guarding statuses
Guarding on - in this state, any movement of the guarded vehicle triggers an alarm
Guarding off – the guarded vehicle can be used freely, the alarm will not be triggered
Alarm state - the movement of the vehicle was recorded in the guarded state
Unknown status - the bike**Angel** device has lost connection to the central server. Reasons may be different, such as a disconnected or discharged battery of the guarded vehicle, loss of GSM signal or its low intensity (e.g. in a locality with no or weak GSM coverage or in the underground garages).
Power Saving Mode - the device was switched to the "stand-by" regime and went into a mode with minimal energy consumption (for long-term or off-season parking).

8. Types of alarm
Hand on motorcycle - indicates touch or shock of the vehicle during guarding; The vehicle, however, does not move permanently.
Motorcycle in motion - the motorcycle is currently moving during the alarm *(high probability of theft).*
Fall of motorcycle - indicates that there was a large mechanical overload of the vehicle during the ride due to a fall or impact.

The alarm status is announced by the mobile with regular push notifications, even acoustically when the bike**Angel** app is inactive. By confirming the notification, the acoustic indication goes silent, but the alarm state remains in the application until it is canceled by tapping on the status bar of the device and selecting the item "**Turn off the alarm**" in the context menu.

9. Assistance in the event of a crash/fall of the monitored device
If there is a large mechanical overload of the device while driving due to a fall or impact, this information is displayed on your mobile using a push notification. In the right part of the status bar of the device, the "**Fall of the motorcycle**" icon will also appear. After tapping on the status bar of the device, you can call up the "**Fall Information**" function from the context menu, where you can view the location of the guarded device on the map (the notification will not be canceled).
Note: If you want another person (close to you) to receive a message about the fall and be able to help you or at least call you to be sure if you need help, this person must install the bike**Angel** application and add your motorcycle to the list of monitored devices. After that, he/she becomes a full-fledged user of the bike**Angel** system and will also receive all the notifications about each device that he/she has added to the list.

10. Power saving mode

Turn on by pressing the **Power saving mode** button. The device switches to power saving mode, which means it stops communicating with the server and switches to battery saving mode. The guarding functionality is still available. The device is "waked up" by movement, shaking the motorcycle or turning it off directly in the application. It is recommended to turn on this mode during any prolonged period of non-use of the motorcycle, especially when the motorcycle is parked out off-season.

11. Transport mode

Switching on is done by pressing the **Turn on transport** mode button. It is used to transfer the motorcycle when you do not want the route to be recorded in the ride list during the move (e.g. transporting the motorcycle on a trailer). Motorcycle monitoring is still available in this mode. The current location of the device can also be found in the application at any time. Switching on is indicated by the icon:

12. Control of external devices

Switching on is done by pressing the **Turn on external device** button. It is used to remotely control various external devices (horn, turn signals) or to turn on the seat or handle heating via the bike**Angel** mobile application. This output is designed for low power, so it is necessary to install and connect a relay with control contacts. Switching on is indicated by the icon:

13. Locating devices indoors

This function allows you to locate the device more precisely even in places where the GPS signal is no longer available (e.g. in apartment buildings, underground and shared garages). *Bluetooth* must be turned on on your mobile phone. The approximate location of the device is indicated by both sound and graphic signals. There are 4 levels of distance indication. Grey background indicates that device is out of range of your mobile. Red background indicates signal acquisition, and orange followed by yellow background indicates signal strengthening and approaching the device. The green background indicates the shortest distance to the device being searched. Approaching the device is also accompanied by an increasing frequency of the sound signal. When searching for the device, try to rotate your mobile phone so that you can pick up a possible signal from any direction. We then recommend moving slowly, stopping every few steps and waiting for the signal to stabilize. If you pick up the signal, step slowly in that direction. If the signal weakens, return to the place where you last measured the signal and repeat the search in a slightly different direction. This feature may be limited in areas with RF interference, a large number of Wi-Fi and microwave devices.

14. Location and ride information

By using the context menu, you can find out more detailed information and statistics about all your trips (including their display on the map), the current or last recorded location of your monitored device, and the best navigation to this location.

15. Information about the charge status of the main and backup batteries

12,3V This icon shows the voltage of the motorcycle's main battery in volts. When power is lost, the device switches to the backup battery.

71% This icon shows the status of the backup battery in percentage. When its voltage drops below 20%, you will receive a notification in the bike**Angel** application.

16. Assembly diagram

Backup battery (3-pin orange connector)

Pin 1	Plus pole of the backup battery
Pin 2	Temperature sensor of the backup battery
Pin 3	Minus pole of the backup battery

Main power supply (2-pin black connector)

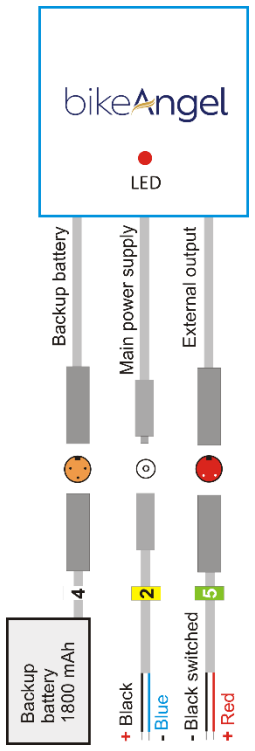
Blue **-**	Minus pole of the main battery of the motorcycle
Black **+**	Plus pole of the main battery of the motorcycle

Output for switching an external device (2-pin red connector)

Red **+**	Permanent plus pole of an external device
Black switched **-**	Switched negative pole of an external device

17. Technical specification

Parameter	**Value**
Supply voltage	5V – 48V
Current consumption	6mA
Transmission frequency	2,4 GHz
Backup battery	3,7V, 1800mAh, lithium-ion



Place for sticker
with serial number (SN/UID)
and device code (CODE)

We wish you many safe kilometres!
Your Team bike**Angel**