| 8L | 8L^SMART | 8CL | 8HCL | 8XL | 8GL | 8GLX |

PRIZRAK

GSM CAR SECURITY SYSTEM

LIMITED AUTOMOBILE CONTROL

Make sure the protective films located on the plastic card are intact

Check with your installer and make a note about a button which has been assigned as the "Programming button" in your vehicle. The most frequently used buttons are:

☐ The driver's door front right power window control button (pull up).

☐ **VOL** «Volume down» button on the steering wheel.

☐ **CANCEL** "Cancel" button of the "Cruise control" system.

Other _____

Thank you for intrusting your vehicle's security to the GSM car-alarm system Prizrak – the cutting edge security system. We hope it will give you peace of mind and make the vehicle exploitation more comfortable.

When developing this product we tried to create a trouble free in daily use car-alarm system with convenient and easy understandable user interface. At your disposal – the mobile app «Prizrak» that is cost free and available for download from Google Play or App store, the telematic service «Prizrak monitoring» that can be accessed at www.tecel.ru and the intelligent voice menu containing voice instructions, the plastic card with brief instructions on basic features. This user's guide provides more detailed information on the system's functionality. Please refer to it when needed.

While using the alarm system we recommend you to obey the following rule: never tell anybody your secret PIN code combination and never hand your radio tags to unauthorized persons. When leaving your vehicle at a maintenance centre for servicing, it is hghly advized to activate the special mode which is called «Service/Valet mode». When activated, the mode temporarily disables all alerts from the system as well as all anti-theft and comfort features.

We wish you enjoy all the advantages of your alarm system for many years to come!

The intended purpose and advantages

The concealed vehicle security system «Prizrak» (hereinafter-the alarm) – was designed for protecting your vehicle from theft while it is at parking and while operating it on the road hassling the would-be thieves into abandoning your vehicle.

The alarm should only be installed by a professional installer in a certified service center in accordance with the «Technical manual» that can be found on the website: www.tecel.ru/en/. The given user guide is universal for GSM car-alarms of the following modifications: Prizrak 8L, 8L/Smart, 8CL, 8HCL, 8XL, 8GL, 8GLX. The differences in various alarm modifications are described on page 43.

Main alarm features

The alarm system is fully compatible with the vehicle's electronics (supports vehicle's CAN-bus factory protocols).

- The alarm may be controlled with the vehicle's original remote, Key ID tag, Slim tag, mobile phone and with the vehicle's original buttons.
- Remote and automatic engine start.
- There is no need to hide a spare key inside the vehicle to remote start it (not available for all cars, see Integrator to find out the feature availability for a specific vehicle).
- Webasto and Eberspächer engine heaters control*.
- Key ID-tag and tiny elegant Slim-tag based on Bluetooth Smart.
- Possibility to use a smarthone as an authentication tag**.
- The KeyID tag technology allows authenticating the vehicle's owner via Bluetooth Smart (radio channel 2,4 GHz based on Bluetooth 4.2) that was specially developed for convenient use in combination with OEM smart key and is securely protected from intellectual hacking.

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* The feature is not available for Prizrak 8L.
** A smartphone must support Bluetooth 4.2 with BLE technology. The The OS of a smartphone shouldn't be lower then Android 6.0 or iOS 12.

Basic terms

GSM car alarm system..
  The car-alarm doesn't require supplementary key fobs. The alarm management is carried out via vehicle's factory remote key, Key ID tag or a mobile phone.

Radio tag (Key ID tag and Slim tag)...
  An electronic key that must always be carried within the vehicle while using it (must be in range of the alarm). The Key ID tag was specially developed for convenient use in combination with OEM smart key. The Slim tag has miniature dimensions, can be kept with vehicle's documents.

Smartphone tag..
  A mobile device (smartphone) with already installed application Prizrak ID that can be used instead of a regular radio tag (KeyID tag or Slim tag) for authentication of an authorized vehicle user.

Three-circuit vehicle security..
  This is the maximum security level that may be achieved after enabling all of the protective contours. A security contour is a vehicle's user (driver) authentication method. It is required to disable each of the three security contours separately: the first contour is disengaged with the vehicle's OEM remote key — «Slave» technology, the second contour-after the alarm detects the user's radio tag, the third contour — by entering the PIN-code with the vehicle's interior factory buttons.

Programming button (PB)...
  This is one of the vehicle's interior buttons that is used for navigating through the system settings. It is assigned by a specialist while installing the alarm. It is also used to enable/disable the «Service/valet» mode and to enter PUK code.

Immobilizer (PINTODrive®)..
  Immobilizer – the feature is designed to protect a vehicle from theft while it is parked. The immobilizer feature prevents a vehicle from being driven away if an authentication procedure is not complete.

AntiHiJack...
  The anti-theft feature designed to protect a vehicle from hijacking while being operated on the road. If the vehicle is hijacked the system will stall the vehicle's engine at a safe distance from the car owner.

Table of contents

Getting started

Prior to exploitation:

1. *Please ask your installer to show you a button in your vehicle that has been assigned as the programming button and make a note on page 2.*
2. *Register your vehicle in the mobile application "Prizrak" and web service "Prizrak monitoring".*
3. *It is not obligatory to use the telematic mobile application and the web service "Prizrak monitoring", however, they can significantly enhance the functionality of the alarm.*
4. *Set your phone number in mobile app «Prizrak» or in the voice menu as «User 1»* in order to get various notifications (voice or SMS) from the alarm, this will allow you to stay cognizant about the vehicle state (e.g. always receive notifications on time if one of the sensors has triggered and etc.). You can also set two more additional users' numbers: "User2" and "User3", and customize individual notification settings for each user.

GSM code

To register your vehicle in the mobile app "Prizrak" or telematic web service "Prizrak Monitoring", use the GSM code located under the protective film of the plastic card which is supplied with the alarm system. After registering the vehicle, you can change this GSM code at any time and as many times as needed either in the mobile app or via the intelligent voice menu.

The temporary GSM-code "1111" allows the installation specialist to register in the app, perform additional settings and check the alarm functionality.

The GSM-code "1111" is valid until the vehicle travels 10 km after installing the alarm system. Once 10 km are passed, the system will request to enter a unique user's GSM code which can be found under the protective film of the plastic card supplied with the device.

Basic mobile app Prizrak 2.0

The mobile application Prizrak 2.0 — is a software designed for managing and controlling the vehicle security system «Prizrak». The software allows to obtain all important information about the vehicle state from the display of your smartphone and to conveniently control the security system; to remote start the engine, to lock/unlock the vehicle, to adjust the shock and tilt/displacement sensors and etc. The mobile app «Prizrak» is available for download from the App Store and Google Play.
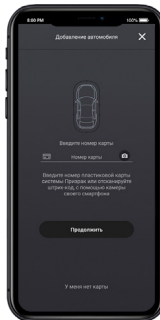

In case your smarthone is not equipped with a QR code scanner — type in the search bar (Google Play or App Store) application name — Prizrak.
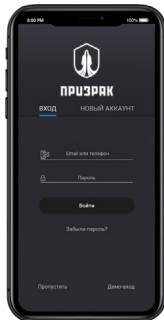
1. Authorization

Log into an exisiting account of the Prizrak system or web service Prizrak monitoring.
You can create a new account if you don't have one yet using your cellphone number or an e-mail.
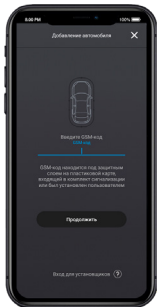
2. Registration

Type in the number located under the bar code of the plastic card supplied with the Prizrak device or scan the bar code using your smartphone's camera.
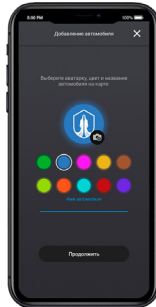
Tap «I don't have a card» at the button of the screen if you don't have one.

3. Confirmation

Scratch off the protective slip on the plastic card supplied with the Prizrak system to reveal the secret GSM code, enter the four-digit code in the app to register your vehicle.

4. Completing the registration

Give your vehicle a name (any name).

You may select a color for the app interface and upload a photo.
Press the button «Continue» to complete vehicle registration.

Supplementary mobile app «Prizrak ID»

   The application «Prizrak ID» was designed only to provide the alarm user a possibility to use a smartphone as a tag. The more detailed description is given below on page 20 of this manual.
   The optional app is able to properly operate either independently or simultaneously with the basic Prizrak app, thus extending the standard functionality of a smartphone.

Type in the app name «Prizrak ID» in the search bar of Google Play or App Store, download and install the app.

Exploitation

Telematic web service «Prizrak Monitoring»

The telematic web service «Prizrak monitoring» allows analyzing your driving history during a selected period of time or in a real-time mode: viewing the vehicle routes, fuel consumption, monitoring various events (arming/disarming, parking events, quick stops, alarm triggers and etc). You can also control and customize the system settings.

Controlling the alarm via SMS

It is possible to control your alarm via text messages of the following format:
Access code*Command№#Parameter.
Access code – a code to access the system.
Command№ – a number of a command in the voice menu.
Parameter – it is used as an option for some commands (visit: www.tecel.ru/en).
For example: 1111*822# (this is the command to disarm the alarm; in this example the access code is the factory code «1111»).

Controlling the alarm via phone call

The alarm functions can be managed via phone call. Simply dial the system's phone number and follow the voice menu instructions. Ability to control the alarm via the voice menu may be very helpful in case if the system temporarily loses the internet connection and it is not possible to use the mobile app as well as if you don't use smartphones at all. You can call the alarm from any phone.

The alarm system

Arming/Disarming

To arm the alarm press the lock (замочек закрытый) button on the original remote or lock the doors with keyless entry system, or twist the car's key in the driver's door lock barrel into «lock» position. The alarm system will emit one siren chirp and LED will start flashing once the alarm is armed.

After a while the LED flashes will become less frequent in order to save car's battery energy. To disarm the alarm press the «unlock» (открытый замочек) button on the original remote, or unlock the vehicle with keyless entry system. The alarm will emit 2 siren chirps, the LED will fade. Arming/disarming the system can be carried out by pressing on the built-in button of the Key ID tag.

Warning about an open compartment

If you have left a door, hood or trunk opened and armed the alarm, it will warn you with 3 siren chirps. The external LED light will inform you of what exactly you have forgotten to close by a certain number of flashes:

- Two flashes – the hood is opened.
- Three flashes – the trunk is opened.
- Four flashes – the door (doors) opened.

❗ The alarm can not monitor penetration into a car through an open compartment (hood, trunk, doors). You may simply close that compartment without disarming and re-arming the vehicle; the alarm will automatically take it under control.

Alarm triggering

The alarm is equipped with two integrated digital sensors: shock and tilt/displacement sensors. Through these sensors the alarm reacts to such external impacts as shocks, bumps and vibrations or attempts to tow a car away. An optional sensor may be connected to the alarm if needed (multiplex or standard one).

While in armed mode the alarm responds to external impacts in two ways: warning and alert. The warning triggers if the shock sensor is slightly impacted. As a result, the siren chirps several times.

The alert triggers if, while in armed mode, any door, hood or trunk is opened, the tilt/displacement and/or shock sensor is strongly impacted. As a result, the siren sets off for 30 seconds.

❗ The sensors sensitivity can be adjusted in the mobile app or via phone call.

Automatic annoyance override

In case the alert triggers 3 times from one of the sensors within an hour – the alarm starts ignoring the signals from that sensor. The alarm will start responding to the signals from the sensor if only there is no any impact on the sensor within the next hour. This feature cancels the siren alerts, but doesn't cancel the siren warning chirps.

Exploitation

Monitoring the alarm triggering when disarmng

The alarm will send you an SMS message or call you (depending on the chosen setting) to notify you about the reason why the alarm set off.

The trigger history is also available in the mobile app "Prizrak", web-service "Prizrak monitoring" and via call.

There will be 4 siren chirps when disarming and the external LED light will start indicating the alarm trigger causes in case of triggering while parked. (see Table 1).

Table 1. Alarm trigger memory

LED flashes	Alarm trigger reason	LED flashes	Alarm trigger reason
x1	«Automatic annoyance override» feature triggered	**x6**	Shock sensor triggered (alert)
x2	Hood opened	**x7**	Shock sensor triggered (warning)
x3	Trunk opened	**x8**	Additional sensor triggered (alert)
x4	Door (doors) opened	**x9**	Additional sensor triggered (warning)
x5	Shock sensor triggered (alert)		

Arming with sensors exclusion

There are situations when it is necessary to temporarily disable the siren sounds triggered from sensors. The sensors can be disabled using the mobile app, voice menu or the car's original remote.

To disable the sensors:
1. Arm the alarm.
2. No later than in the next 3 seconds press and release the OEM remote lock 🔒, button , the siren will emit a long intermittent sound then after a pause — one chirp — the warning mode is disabled. The alarm will no longer be reacting to slight impacts on the vehicle.
3. No later than in the next 3 seconds press and release the OEM remote lock 🔒 button — the siren will emit a long intermittent sound then after a pause — 2 chirps — all sensors are disabled.

Releasing the trunk lid without disarming

The trunk lid can be opened using the OEM remote or keyless entry system while the alarm is armed without disarmng it. While the trunk is being opened, the alarm stops reacting to the signals from the sensors, but still keeps monitoring the vehicle's perimeter to protect the interior from intrusion. As soon as the trunk is closed, the system takes it under control and re-enables all the sensors.

«Beach mode» function

The function is convenient in summer time when the car owner is having rest at the beach and is afraid to carry around the car key, radio tag and smartphone because they may be stolen or lost.

A car owner may leave all those belongings inside the car. For vehicle locking/unlocking is used a secret code which is not set by default and is subject for assigning by an installer. The code has to be entered with one of the doors buttons, trunk lid buttons or with an additionally installed button. The secret code can be changed virtually unlimited number of times either by technicians upon installation or by the vehicle owner during daily exploitation.

! It will not be possible to unlock the vehicle by using the «Beach mode» secret code if it's been locked with factory remote key, keyless entry system, driver's door lock cylinder or a mobile phone.

It is strongly recommended to set up the authentication method «PIN code» prior to locking the vehile with the secret code as the radio tag remains inside the vehicle (see page 24).

Protection from code-grabbers and relay attacks

The features described below provide an extra security contour in case if would-be thieves use a code-grabber or a relay station (that extends the signal from the OEM keyless entry system). The feature is also useful in case the factory remote key is lost. Check with an installation technician if the feature is available for your vehicle.

Vehicle's CDL unlocking blockage if a tag is not in range*

The alarm searches for a tag each time it receives an unlock signal from the vehicle's OEM remote or keyless entry system, the doors will only unlock if the tag is detected by the sytem.

The feature can operate constantly: the tag search is performed each time the vehicle is unlocked; and it can also be activated for only one armed cycle if the feature №4 of the option №21 (Menu1) –"Disable vehicle unlocking with OEM remote key in dangerous places until a tag is detected" is activated – you have to engage this feature every time in dangerous places if desired (see page 24).

! It is always possible to unlock the car via a phone in case if a tag is lost or is left somewhere (e,g, at home, at work).

* Except of Prizrak 8L and 8L/Smart.

Exploitation

Tag search for disarm confirmation*

The alarm system can be configured the way that it will only disarm after a tag is detected. If you don't have a tag with you, the alarm system will set off the siren 10 seconds after opening any door hood or trunk.

! Radio tag search begins 30 seconds after arming the alarm system.

Forbidding disarming the alarm system with the original remote**

After enabling this feature the alarm system can only be disarmed by pushing on the built-in button of the Key ID tag or using a phone (mobile application Prizrak or a phone call). Arming is possible by any available means.

When trying to disarm the alarm system using the original remote or the keyless entry system - the vehicle's doors will unlock, but after opening any door, hood or trunk - the siren will set off.

! The alarm system can be disarmed by any available means during 30 seconds after arming.

* Except Prizrak 8L and Prizrak 8L/Smart.
** Only Prizrak 8L and Prizrak 8L/Smart.

Exploitation

Anti-theft sytem

Immobilizer and PINᴛᴏDrive®

Immobilizer — the feature is designed to protect a vehicle from theft while it is parked. The immobilizer feature enters the "Guard" mode 3 seconds after switching the ignition off. Once the feature entered the "Guard» mode — it is required to complete an authentication procedure (see Table 3 "Authentication methods") otherwise the vehicle will be immobilized.

The PINᴛᴏDrive® feature requires PIN code to be entered with vehicle's interior buttons every time before driving. Select the authentication method "PIN code", "Tag or PIN code", "Tag and PIN code", to enable the PINᴛᴏDrive® feature. If you don't carry out an authentication procedure before driving, the vehicle will be immobilized.

PINᴛᴏDrive®: no PIN — no drive.

You may disable the Immobilizer and PINᴛᴏDrive® feature if desired by simply deactivating it in the "User's features menu". If the feature is disabled — you don't have to carry out authentication every time after cycling the ignition OFF and ON, but the anti-theft level of the alarm system will be greatly decreased.

AntiHiJack[*]

AntiHiJack - it is a feature designed to protect a vehicle from hijacking while it is being operated on the road and while it is parked.

Once triggered, the AntiHijack immobilizes the vehicle unexpectedly for criminals after travelling a preset distance. The distance may be adjusted within range from 100 to 1000 meters (see page 34). The alarm counts down the travelled distance to trigger the AntiHiJack feature starting from the moment of opening the driver's door with the ignition ON.

It is necessary to complete an authentication procedure to deactivate the AntiHiJack and to cancel the forthcoming immobilization of the vehicle. There is a special feature allowing to make the AntiHiJack much safer, the feature name is: «Engine blocking at a safe speed», the feature determines the engine blocking algorithm if AntiHiJack is triggered, i.e. at low vehicle speed; when the vehicle is completely stopped; upon the next engine start. Check with the installer to find out whether the feature can be implemented on your vehicle.

A special AntiHiJack operating mode - vehicle theft prevention from parking

A vehicle will be immobilized unexpectedly for would-be thieves at a certain distance when attempting to drive away without authentication. Such an element of surprize sufficiently increases the anti-theft resistebility of the alarm system; the criminals have nothing else to do, but leave the vehicle. To activate the special AntiHiJack mode — disable the Immobilizer feature and leave the AntiHiJack feature ON.

[*] Except Prizrak -8L/Smart.

Deactivating the AntiHiJack feature with a tag

Three-circuit vehicle security requires a tag to be detected and PIN code to be entered to authenticate an authorized owner of the vehicle. For your convenience you may adjust the alarm so it would deactivate the AntiHiJack feature as soon as a registered tag is detected and there will be no need to enter a PIN code combination while driving the vehicle, thus you may keep your eyes on the road while the authentication is performed automatically. In case the tag is not possible to use (the battery is discharged or it is lost) you can always enter your PIN code combination.

GSM engine blocking

GSM-engine blocking: it is a feature allowing to remotely immobilize a vehicle. The GSM-engine blocking can be engaged using the basic mobile app «Prizrak» or by calling the system's phone number and dialing the voice menu command «825». In case the vehicle is being operated at the moment when the engine blocking command is sent, the driver will be warned of the forthcoming vehicle immobilization with the buzzer warning beeps and the other traffic participants will be warned with the hazard lights flashes which will activate 10 seconds prior to the vehicle immobilization. The siren will sound and the hazard lights will continue to flash. The warning beeps and hazard lights will deactivate in 15 seconds.

You can either use a phone to deactivate the engine blocking or you can enter PUK code (page 27). It will not be possible to start the engine until the GSM engine blocking is deactivated.

> Please, exercise caution when using the GSM engine blocking. You should only use the GSM engine blocking for the designed purpose. Apply this feature in an urgent need only. Keep in mind that immobilizing a vehicle while it is in motion can very dangerous!

Exploitation

RFID tags (Key ID tag and Slim tag)

RFID tag — is an electronic key that a vehicle owner should always carry when operating the vehicle. The alarm will automatically detect a tag before the vehicle motion begins. There will be a confirmation sound when the tag is detected.

There are two types of RFID tags the system can operate with: Slim tag — designed only for authentication and Key ID tag with an extended functionality (e.g. authentication, vehicle locking/unlocking thanks to the integrated button). A smartphone can be used as a tag as well (page 20).

The built-in button of the Key ID tag may be used as the programming button in order to make settings, enable/disable valet mode, enter a secret PUK code. The security level of a vehicle can be enhanced if the alarm is adjusted as follows: the vehicle's locks are locked and unlocked with the Key ID tag and the vehicle owner authentication is performed with the Slim-tag. Ask your installer to activate this feature if desired.
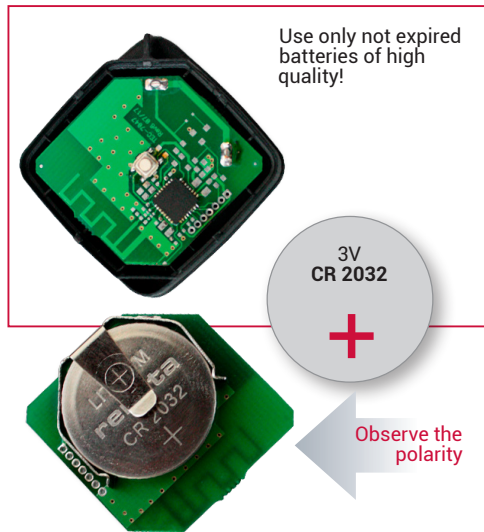
Slim tag

Key ID tag

Five short beeps following after the system has detected a tag mean that the battery inside the tag shall be replaced. CR-2032 battery type is used in the Key ID tag and CR-2025 is used in the Slim-tag. Visit a workshop to have the radio tag battery replaced by an installer or do it yourself.

If a radio tag has been exposed to the cold for a long time it might not be recognized by the system. Just warm up the tag to restore its functionality.
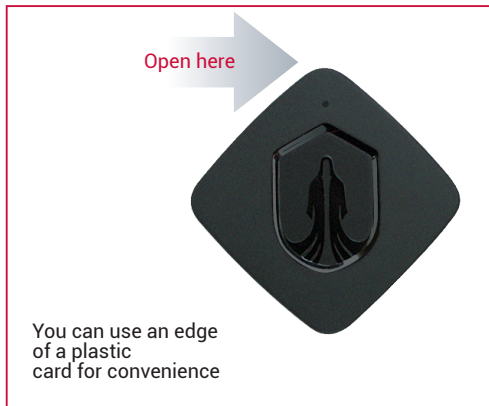
Key ID tag

Open here

You can use an edge
of a plastic
card for convenience

Use only not expired
batteries of high
quality!

3V
CR 2032

Observe the
polarity

Exploitation

Slim tag

Open here

You can use an edge of a
plastic card
for convenience

Observe the
polarity

3V
CR 2025
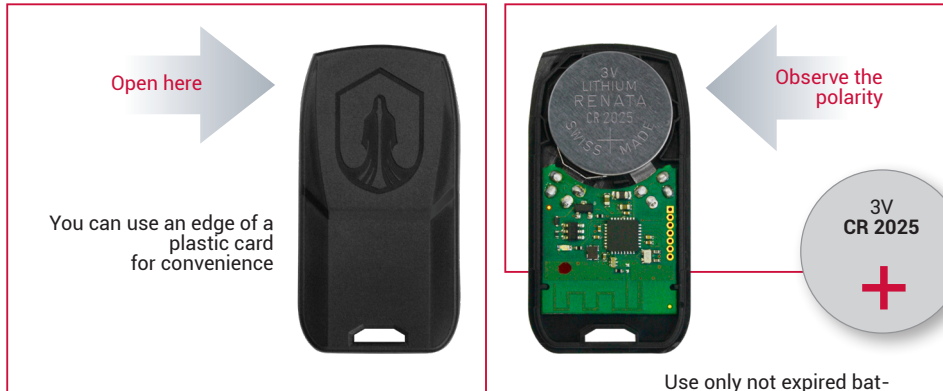
Use only not expired bat-
teries of high quality!

Using a smartphone as a tag

The alarm has a feature allowing to use a smartphone∗ as a tag. To be able to use your smartphone as a tag, install the mobile application «Prizrak ID» and register your vehicle. The app may be downloaded from an official app platform depending on the operating system of your smartphone (IOS or Android). A smartphone that is going to be used as a tag has to be paired with the alarm system via the application «Prizrak ID».

You may use your smartphone as the primary authentication method or as a backup method (e.g., if a radio tag is damaged, lost or forgotten somewhere). The authentication process using the smartphone is carried out the same way as the authentication with a regular radio tag.

The mobile application has a useful feature: «Prizrak deactivation via smartphone only active when smartphone screen is unlocked» that is designed to keep the vehicle protected in case the smartphone has been stolen. If enabled, this feature will prevent authentication using the stolen smartphone until the smartphone screen is unlocked (e.g., graphical key, fingerprint, Face-ID). The operating system of a smartphone may cancel activity of some applications (e.g. for energy saving reasons). If the smartphone has quit out of the app, or you have quit out of the app manually, tap on the Prizrak ID icon to reactivate it. This may not be convenient when AntiHiJack feature is triggered. It is recommended that you always have a regular radio tag with you.

Pairing a smartphone with the alarm system

Pairing is carried out via the mobile application Prizrak ID. The entire pairing (registration) process is accompanied with pop-up instructions. A secret Bluetooth code is required in order to pair (register) a smartphone with the alarm. The code is located under the protective film of the plastic card which is supplied with the alarm.

An installer is not allowed to scratch off the protective film of the Bluetooth code. However, the functionality of the smartphone tag mode can be tested during the installation process by using the temporary code which allows to register the vehicle in the mobile application Prizrak ID. The temporary code is valid until the vehicle travels 10 km after fitting the alarm sytem to the vehicle. The "Prizrak ID" app will remind the car owner to delete a smartphone that has been registered with the temporary code.

Pairing (registration) sequence

Download and install the mobile app "Prizrak ID" on your smartphone. All further actions have to be performed inside the car.
1. Switch the vehicle's ignition ON. Carry out authentication (page 22).
2. Run the mobile app «Prizrak ID».
3. Give your vehicle a name (any name).

∗ A smartphone must support Bluetooth 4.2 with (BLE) technology. The software version of the smartphone shouldn't be lower than 6.0 for Android and 12 for IOS.

4. Enter Bluetooth code located on the plastic card and tap the button "Continue".
5. The list of all Key ID tags, Slim tags and smartphones paired with the alarm system will appear on the screen (including smartphone tags with the temporary access). You may delete all smartphone tags you are not planning to use in the future. Tap the button «Continue».
6. The Prizrak logo on your smartphone's screen means that the smartphone has been successfully paired.
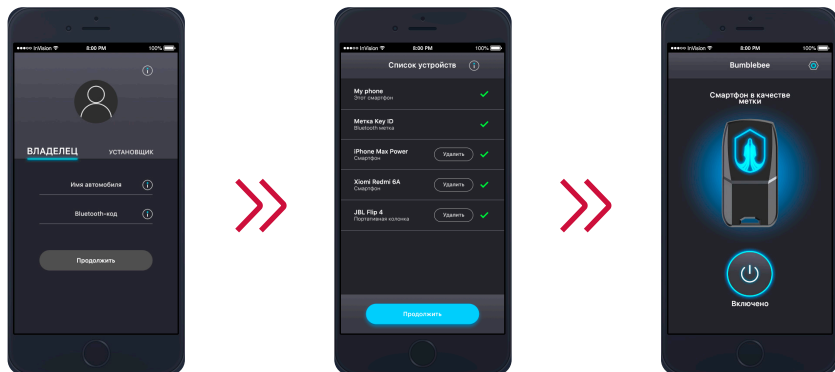
Deleting smartphone tags from memory

Proceed to the "List of registered tags" in the mobile app Prizrak ID in order to selectively delete the smart¬phone tags you're not planning to use in the future.

In case you don't use the mobile app "Prizrak ID" and you are not able to view the "List of registered tags" in the app, you may delete all paired smartphone tags from the alarm's memory in the special programming menu (page 38).

Exploitation

Authentication

Authentication is a procedure for verifying whether a driver is authorized to drive the vehicle or not. Every time prior to driving, the authorized vehicle driver should have a special radio tag within the vehicle and/or enter a secret PIN code combination using the dash buttons, or steering wheel buttons. If the authentication is completed successfully, the alarm's external LED turns off and the built-in buzzer emits the confirmation sound.

You can choose a preffered authentication method out of four available (Table 2). It is required to enter PUK code to be able to change the authentication method (page 27). The sequence for changing the authentication method is describe in chapter «Adjustment» (page 34).

A preferred authentication method can be easily set by an installer during the installation process without having to enter a secret PUK code. As soon as the vehicle travels 10 km after installing the alarm system, the authentication method can only be changed after entering the secret PUK code located on the plastic card supplied with the device. A professional installer is able to adjust an authentication method that is the most suitable for you until the vehicle travells 10 km after installing the alarm saystem without having to use the secret PUK code, but if the vehicle has already travelled 10 km after the installation — it will not be possible to change the authentication method until the PUK code is entered.

Futhermore, a long warning beep will sound every time after completing the authentication if duaring the installation of the alarm the authentication method has been changed to «PIN code or tag». To disable the long warning beep, enter PIN code to confirm that you are familiar with it and are able to use it when needed (page 25). After entering the PIN code combination, the long beep will not sound anymore.

Exploitation

Table 2. Authentication methods

Authentication method	Authentication procedure description	
Tag	You should have a tag with you	Wait for confirmation trill. The LED will fade
PIN code*	Enter PIN code	
Tag or PIN code	Tag must be in range	
	If a tag is not available-enter PIN code	
Tag and PIN code (three-circuit authentication)	Tag must be in range. Enter PIN code	There should be two confirmation trills. The LED will fade

* This authentication method is useful in case it is necessary to exclude the possibility of using the stolen or lost tags by criminals until new tags are purchased and registered.

Warning beeps following after authentication

Sometimes you may here some additional beeps following after the authentication. The Table 3 describes their meaning and the actions recommended to take.

Table 3. Additional beeps following after authentication

Sound	The reason	Recommended actions
Long beep	The default PIN code hasn't been changed	Change the default PIN code (page 39)
	The service mode has been turned on	Deactivate the Valet/service mode off
	The default authentication method has been changed during the installation for "Tag or PIN code"	Enter PIN code (to confirm that the authentication method has been changed under your will)
Five short beeps	Replace the discharged battery of the radio tag with a new one	Replace the discharged battery

Quickly engaging the three-circuit protection mode[*]

The three-circuit security mode increases the anti-theft possebilities of the system in case if a tag is stolen or lost. Engage the third security circuit when parking your vehicle in a potantialy dangerous place (e.g. at the hypermarket parking lot), thus the authentication method "Tag or PIN code" will change to "Tag and PIN code" just only for one armed cycle. This method provides the maximum anti-theft protection as after engaging the feature "Maximum security in dangerous places" you will have to enter PIN code and wait until a tag is aknowl-edged by the system prior to driving.

> **!** Engaging the «Maximum security in dangerous places» by following the steps described below will automatically activate the feature «Disable vehicle unlocking with OEM remote key in dangerous places until a tag is detected» (page 13) if it was properly adjusted during the installation.

1. Switch the ignition to the "ON" position, wait until a tag is detected.
2. Then within 20 sec:
   - Open and close the driver's door.
   - Enter PIN code, wait until the confirmatiory trill sounds.
   - Switch the ignition OFF.
   - The alarm will emit two confirmation trills to confirm that the authentication method «Tag and PIN code» has been engaged.

[*] Except Prizrak-8L, Prizrak-8L/Smart, Prizrak-8CL.

Exploitation

PIN code*

PIN code is a secret combination of pressings on one or multiple original vehicle buttons. Please consult with your installer to find out the list of buttons available for use in your vehicle. PIN code should be entered prior to driving while the ignition is ON or the engine is running.

PIN code is a one-, two-, three- or four-digit number. Each digit may consist of figures from 1 to 9.

PIN code may be easily changed as many times as needed either by an installer during installation or by an end alarm user at any time.

PIN code is a one-, two-, three- or four-digit number. Each digit may consist of figures from 1 to 9.

PIN code may be easily changed as many times as needed either by an installer while fitting the alarm system to the vehicle or by an end alarm user at any time (page 39).

In order to ensure an adequate security level, the factory-set PIN code (two presses on the programming button) should be changed. The alarm emits a long warning beep each time after entering the factory-set PIN code to remind the user of necessity to change it.

! The default PIN code is «2». It is entered by using the Programming button (refer to the Integrator).

PIN code entering sequence:
1. Switch the ignition ON or start the engine.
2. Enter PIN code.
3. Wait until the confirmation trill sounds.

! The PIN code will reset to the default value after changing any current authentication method to the authentication method «Tag».

* Except Prizrak-8L, Prizrak-8L/Smart, Prizrak-8CL.

Exploitation

Possible PIN code combinations

Buttons ◁, ▷, ⊕, ⊖, ⊟ are used as an example.
Consult with your installation specialist to find out the list of available buttons for your vehicle.
The buttons should be pressed evenly, when entering a PIN code combination.
While entering one of the PIN-digits, keep in mind that pressings duration and pauses between figures within one digit shouldn't exceed 1 second. Pauses between the digits have to be approximately 2 seconds.

Entering PIN code with a single button
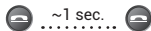
One-digit PIN code «2»:   Two-digit PIN code «11»:
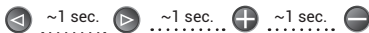
⊟ ....~1 sec... ⊟   ⊟ .....~2 sec...... ⊟
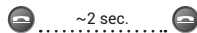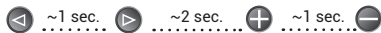
Entering PIN code with multiple buttons
Obey the pressing sequence on the buttons while entering the PIN code.

One-digit PIN code «4»:   Two-digit PIN code "22":

◁ ...~1 sec... ▷ ...~1 sec... ⊕ ...~1 sec... ⊖   ◁ ...~1 sec... ▷ ...~2 sec... ⊕ ...~1 sec... ⊖

PUK code

The PUK code is used:
- to change an authentication method (if the vehicle has travelled 10 km after installing the alarm).
- to deactivate the system in case the PIN code is forgotten and a tag is lost or damaged.

PUK code is a 4 digit number located under the protective film of the plastic card which is supplied with the alarm system. PUK code disables all anti-theft features of the alarm no matter what authentication method is set.

PUK code is entered with the programming button making a two second pause after entering each digit of the PUK code. The ignition can be switched off if the PUK code is entered using a Key ID tag.

PUK code entering sequence:
1. Switch ON the ignition or start the engine.
2. Enter PUK code.
3. Wait for confirmation beeps (trill).

If you made a mistake while entering PUK code, wait 3 seconds and re-enter the PUK code.

After PUK code is successfully entered, it is possible to set up a new PIN code cobination. If you are intended to temporary disable all anti-theft and comfort features of the alarm system (to activate service/valet mode) — press the programming button 6 times within 10 seconds after entering the PUK code, press the programming button 6 times.

! The PUK code may be entered using the integrated button of the Key ID tag while the ignition is OFF. This will disarm the system if it is armed (the doors will also unlock).

! The central door locking system might lock and unlock while entering the PUK code using the built-in button of the Key ID tag. You don't have to pay attention to that, keep entering the PUK code digits — the alarm will still recognize your actions as an attempt to enter the PUK code.

Service/Valet mode

The mode was designed for situations when necessary to conceal the fact that the alarm is equipped with an anti-theft device.

Service (valet) is the operating mode that temporarily disables all anti-theft and comfort features of the system (automatic windows closure, Immobilizer, AntiHiJack, control of an additional electro-mechanical hood lock, remote engine start, and etc.).

If the «Service/Valet mode» is ON, the alarm emits a long warning beep after every authentication to remind the alarm user that the anti-theft and comfort features are disabled.

There are two ways to enable/disable the «Service/Valet» mode.

1st way:

The service mode can be enbled/disabled remotely via phone by either using the mobile app or by calling the alarm and dialling the command «829».

! It is required to enter PUK code using a phone (page 27).

2nd way:

In order to activate or deactivate the valet mode:
1. Switch ON the ignition.
2. Complete an authentication procedure.
3. No later than in 10 seconds, press the programming button 6 times.
4. Wait for the confirmation:
   - if the mode has been enabled there will be 1 short beep, one LED flash and one confirmation trill;
   - if the mode has been disabled — 2 short beeps, two LED flashes and confirmation trill.

Service/valet mode automatic deactivation

The service mode will automatically turn off as soon as the vehicle travels 10 km after activating it. Thanks to this feature, you don't have to warry that your vehicle will be unguarded if you forget to disable the service mode. The alarm system automatically enables all the security features after travelling 10 km and the vehicle remains protected.

You can disable the service mode automatic deactivation if you don't need the service mode to deactivate automatically after 10 km, (e.g. the vehicle's chassis is planned to be long tested at the service centre, the vehicle is going to be moved to another service centre).

You can disable the «Service/valet mode automatic deactivation» in two ways:

• by changing the corresponding setting of the alarm system (page 34). The service mode will not automatically deactivate until the setting is changed back to «ON»;

• by entering PUK code before activating the service/valet mode:

1. Switch ON the ignition.
2. Enter the PUK code.
3. Within the next 10 seconds, press the programming button 6 times.

The «Service/Valet mode» will not automatically deactivate, until you do it yourself, regardless of distance the vehicle travels after enabling it.

Exploitation

Remote starting the engine and controlling the engine heater[*]

The alarm system provides the possibility for remote starting a vehicle and the engine heater.

This features make vehicle exploitation more comfortable as you are always able to warm up or cool down the vehicle's cabin before your ride. Starting the ride with the warm engine decreases the engine wear and extends its service life.

> **!** The alarm is capable to control a factory-fit engine preheater (installed by the vehicle's manufacturer) as well as an aftermarket engine heater.

It is possible to remote start the engine by the command sent via phone and automatically - depending on the engine temperature or vehicle's battery voltage.

There are four methods to remote start the engine or the engine heater: via mobile app, via phone call, via SMS message, with the vehicle's factory remote key. as well as automatically (e.g. for 15 minutes every 3 hours) or by schedule setting the time and days of the week.

It is possible to remote start a vehicle and an engine heater using the vehicle's remote key. In order to remote start the vehicle or engine heater press on the «lock» 🔒 , button 3 times on the vehicle's smart key. Time interval between presses on the button shouldn't exceed 3 seconds. The feature is available 15 seconds after arming. If you made a mistake — take a 5-second break and try again.

To shut down the engine or engine heater with vehicle's remote, repeat the same «3x lock» 🔒 procedure.

The alarm will flash the vehicle's hazard lights 4 times in the beginning of the remote start cycle and 3 times in the end of the remote start cycle.

Preparing a vehicle for the remote start

1. Park your vehicle in an open-air parking lot.
2. Choose the most convenient operating mode of the climate system to warm up or cool down the vehicle's interrior.
3. Set the gear shift lever to P (Parking) if your vehicle equipped with AT (Automatic) transmission and shut down the engine. If it has MT (Manual transmission) — enable the «Remote start ready» mode.
4. Arm the vehicle.

[*] Not available for Prizrak-8L.
[**] Consult with your installation specialist to find out whether this feature is available for your vehicle.

Enabling the remote start ready mode (only for MT vehicles)

1. When the vehicle is completely stationary and the engine is running press and hold the brake pedal.
2. Engage the parking brake.
3. Release the brake pedal.
4. Take the car's key out of the ignition switch, the engine should keep running.

!   Skip the step №4 if the vehicle is equipped with the engine start/stop button.

5. Depending on the settings for enabling the Remote start ready mode*:
   - exit the car and close the driver's door (all other doors as well as the hood and trunk should remain closed), the engine will shut down;
   - arm the vehicle, the engine will shut down.

!   The «Remote start ready mde» will be cancelled if after enabling it, any door, hood or trunk is opened. The remote start ready mode should be re-enabled to be able to remote start the vehicle.

Unlocking/Locking while the vehicle is running via remote start

Some vehicles don't react to the factory smart key commands when the engine is running. In such cases to unlock and lock the vehicle you can use:
- the Key-ID Tag's integrated button;
- the «Free hands» feature** — vehicle automatic unlocking/locking when a tag is in range;
- mobile app «Prizrak»;
- control via phone call or SMS.

* Consult with the installer to find out if the feature is available for your vehicle.

** Ask your installer to activate this feature if desired.

Starting the ride while the engine is running via remote start*

Perform the following actions depending on the vehicle you have:
Vehicles equipped with the engine start/stop button

Automatic transmission
1. Open the driver's door while the engine is running via remote start:
2. Press and hold the brake pedal (if you release the brake pedal — the engine will shutdown).
3. Shift the gear lever to «D», «R» or «N». Hazard lights will flash 3 times.
4. Complete an authentication procedure. Wait for the confirmation sound and start driving.

Manual transmission:
1. Unlock the vehicle while it is running via remote vehicle start.
2. Press and hold the brake pedal (if you release the brake pedal, the engine will shut down).
3. Release the parking brake. Hazard lights will flash 3 times.
4. Complete authentication procedure. Wait for the confirmation sound and start driving.

! If you have shutdown the engine by releasing the brake pedal before shifting the gear lever/releasing the parking brake, wait until the remote start ready mode is cancelled (in approximately 5 seconds the hazard lights will flash 3 times), turn on the ignition by pushing the Start/Stop button, carry out authentication and start driving.

Vehicles with classic ignition switch (a transmission type is not important)
1. Unlock the vehicle while the remote start mode is running:
2. Insert the car's key into the ignition switch without applying on the brake pedal and twist the key to the «IGN» position.
3. Press the brake pedal. Hazard lights will flash 3 times.
4. Complete authentication procedure. Wait for the confirmation sound and start driving.

* Consult with the installer to find out if the feature is available for your vehicle.

Optional features

The optional features described below can enhance the level of vehicle comfort and security.

Vehicle tracking

The location of a vehicle can be easily viewed at any moment in the smartphone application «Prizrak» or at the web service «Prizrak monitoring». For accurate location a GPS/GLONASS-270 module required. Prizrak-8GLX and Prizrak-8GL are equipped with the built-in GPS/GLONASS antenna. In any case (even without the GPS/GLONASS-270 module) the alarm system is able to locate a vehicle thanks to the LBS technology - location based services which use the cell towers of cellular service providers to determine the location of a device, however, the GPS/GLONASS-270 provides more accurate location.

Electro-mechanical hood lock control

The alarm is capable to latch an aftermarket hood lock after arming a vehicle and unlatch it when authentication is complete.

Power door locks control

If you'd like your vehicle's power door locks to latch as soon as you start driving and unlatch as soon as you switch the ignition to OFF position — the car-alarm Prizrak is able to provide such a possibility. Consult with your installer to find out whether this feature is available for your vehicle.

Microphone

The external microphone of the alarm system allows you to hear what is happening inside the car at any time. Dial the alarm's phone number and follow the voice menu tips to turn on the microphone. The external microphone is included in the standard alarm set of Prizrak-8GLX and Prizrak-8GL.

Aftermarket parking sensors control

The alarm system is designed with flexible algorithms which allow to control aftermarket parking sensors. There are three operating modes and algorithms available, the sensors can be controlled using the original vehicle interior buttons and vehicle speed data.

Aftermarket door blockers control (exxcept Prizrak-8L and 8L/Smart)

To increase the security level of your vehicle you can equip it with aftermarket electro-mechanical door blockers. The electro-mechanical door blockers latch the vehicle's doors after arming and unlatch the doors after disarming and detecting a tag in range of the alarm system. If a tag is not available for some reason (e.g. lost or damaged) — you can unlock the doors of the vehicle using a phone.

Adjusting the alrm settings

Table 4. User features

№	Feature description	Default	Enabled		Disabled	
			LED	Number of beeps	LED	Number of beeps
1	Immobilizer* (anti-theft protection while a vehicle is parked)	En-abled	ON	1	OFF	2
2	AntiHiJack (anti-theft protection while a vehicle is being operated)*					
3	Travel distance until the AntiHiJack triggers*	1	Range from 1 to 10			
4	Siren operation after the alert triggering	4	Range from 1 to 4			
5	Tag search audible indication for disarming confirmation*	En-abled	ON	1	OFF	2
6	Audible indication after authentication is complete and a tag is detected when disarming					
7	Service mode automatic deactivation					
8	Auto door lock	Выкл.				
9	Auto door unlock					
10	Automatic windows, side mirrors, sungroof closure («Comfort»)	4	Range from 1 to 5			
11	Siren chirps loudness when arming/disarming	4	Range from 1 to 4			
12	Authentication methods (entering PUK code required)**	1/3***	Range from 1 to 4			
13	Over speeding alert threshold	4	Range from 1 to 10			
14	New radio tags registration*	–	Range from 0 to 8			
15	Radio tags detection quality test	Allows to determine the zones where radio tags are best detected				
16	AntiHiJack feature automatic deactivation with a tag**	Dis-abled	ON	1	OFF	2
17	Automatic rearming					
18	Deleting all smartphone tags from memory*	–	Range from 1 to 4			
19	Deleting all radio tags from memory*	–	Range from 1 to 8			

* Except Prizrak-8L and Prizrak-8L/Smart. **Except Prizrak-8L, Prizrak-8L/Smart and Prizrak-8CL. ***Prizrak-8XL/Smart.

Adjustment

Annotation to the table

Option №1. «Immobilizer». Disable this feature if you don't think your car might be stolen from a parking lot.

Option №2. «AntiHiJack». Disable this feature if you don't think that somebody will hijack your car while you are driving it.

Option №3. «Travel distance before AntiHiJack triggers». The travel distance is set up by 100 meters intervals. For example, if you set up the value 3 then the distance the vehicle will trevel before the engne locking triggers is 300 meters.

Option №4. «Siren operation after the alert has triggered». This option allows to adjust the siren operation mode: 1 — siren is OFF; 2 — siren will not sound when the alarm warning triggers; 3 — the siren sound volume when warning triggers is equal to the sound volume when arming/disarming the alarm (see option №11); 4 — siren is ON the maximum loudness.

Option №5. «Radio tag search sonic indication for disarming confirmtion».
You may disable audible indication while waiting until the radio tag is detected if you are using the feature «radio tag search for disarming confirmation from vehicle's OEM remote».

Option №6. «Sonic confirmation after authentication and radio tag detection when disarming». You may disable audible confirmation.

Option №7. «Service/Valet» mode automatic deactivation». Allows to disable automatic deactivation of the valet mode after the vehicle travels 10 km distance.

Option №8. «Auto door lock». You may engage the feature of automatic power door locks latching after you start driving the vehicle.

Option №9. «Auto door unlock». You may engage the feature of automatic power door locks unlatching when the ignition is turned off after you finish the ride.

Option №10. «Autoimatic windows, side mirrors, power sunroof closure («Comfort»).
1 — Windows closure; 2 — windows and side mirrors closure; 3 — windows and sunroof closure; 4 — windows, sunroof closure, side morrors folding; 5 — OFF (closure is not performed).

Option №11. «Siren chirps loudness when arming/disarming». Values range from 1 to 4: 1 — silent arming/disarming; 2 — minimum loudness; 3 — medium; 4 — maximum.

Option №12. «Authentication method». You may select one of 4 authentication methods which most suits your needs. Values range from 1 to 4: 1 — Radio tag; 2 — PIN code; 3 — Radio tag or PIN code; 4 — Radio-tag and PIN code.

> **!**
> • PUK code must be entered with the programming button to be able to change the authentication method. PUK code is located under the protective layer on the plastic card (quick reference card).
> • There will be no audible or light indication untill you enter PUK code, the alarm will emit the confiramtion trill and will start indicating the current option value after entering PUK cod.

Option №13. «Over speeding alert». Allows to adjust speed monitoring threshold, you will receive a warning message if a certain speed threshold exceeded.
1 — speeding is not monitored; 2 — 110 km/h; ... 10 — 190 km/h.
Option №14. «New radio tags registration». Allows to register new radio tags. It is possible to register up to 8 radio tags into one alarm unit (page 37).
Option №15. «Radio tags detection quality test» (page 38).
Option №16. «AntiHiJack feature automatic deactivation with a radio tag» (page 16).
Option №17. «Automatic rearming». This feature will atomaticallyt rearm the system in 1 minute after disarming from a phone, or Key ID tag if all doors, hood or trunk remain closed. The automatic rearming operates according to the vehicle maufacturer algorithm if it is disarmed from the factory remote key.
Option №18 and №19. «Delete smartphone tags from the alarm memory». This option allows to delete all previously paired smartphone tags from the alarm memory (see page 39).

Adjusting the alarm settings with the programming button

1. Switch the vehicle's ignition to the ON position.
2. Complete an authentication procedure. (see page 22).
3. Within 10 sec enter the features programming menu by pressing and releasing the programming button 12 times. The alarm will emit 4 beeps and LED light signals if you've done everything right.
4. Select a desired option within the programming menu by pressing and releasing the programming menu a number of times that corresponds to the desired option number. After that the alarm will inform you on the selected option number with a series of beeps and LED light flashes. If the option number is a two digit number: tens – a long beep, ones – a short beep, i.e.: indication of the option №10 – one long beep;
5. indication of the option №11 – one long beep, 1 sec pause then one short beep.
6. Press and release the programming button the number of times required to advance from the current option value to a desired one. Keep in mind that after the last option value goes the first one.

Adjustment

7. Release the brake pedal. Now you may proceed to the next option or exit the programming menu.

To change the value of another option within the menu, press and release the programming button the number of times required to advance to the desired option number. E.g. in order to advance form the option №1 "Immobilizer" to the option №8 "Auto door lock", press and release the programming button 7 times. You can quit the programming process at any moment by turning the ignition OFF, thereupon the confirmation trill will sound.

The alarm will automatically exit the programming menu if no action is performed within 60 seconds and the brake pedal is not pressed.

Registering new tags

Register all desired radio tags within one procedure. The radio tags that are not taking part in the registration process will be erased form the alarm's memory.

- it is not possible to register a new tag if the current authentication method is «PIN code».
- one alarm system allows to register up to 8 radio tags. It is not possible to register one radio tag into two or more alarm systems.

Registration sequence

1. Use one of the radio tags for authentication. Disassemble all the other radio tags and take the batteries out of them beforehand. In case if for authentication a tag is not required (For authentication is used PIN code (page 25) or PUK code (page 27)) — take the batteries out of each radio tag.
2. Perform the authentication procedure(page 22). The alarm will emit the confirmatory trill indicating that the authentication is successful.
3. Press and release the programming button 12 times, the alarm will emit 4 short beeps and 4 LED blinks.
4. Press and release the programming button 14 times, the alarm will emit series of 1 long and 4 short beeps.
5. Press and hold the brake pedal. the alarm will indicate the number of already registered radio tags by series of beeps and LED flashes. The number of emitted beeps indicates the number of stored tags in the system's memory.
6. Place a battery into one of the radio tags. Wait for short intermittent beeps signifying that the radio tag registration procedure has started. After a radio tag has been successfully registered the alarm will indicate the total number of radio tags programmed into the system's memory by series of beeps and LED flashes. Make sure the number of indicated beeps and LED flashes matches the number of all radio tags registered into the system.

Adjustment

7. Insert the battery into the next radio tag, wait until the tag is registered, repeat the steps described above if more radio tags are planned to be registered.
8. Release the brake pedal and turn the vehicle's ignition OFF after the last radio tag has been registered, the confirmation trill will sound.

Testing radio tags detection quality

Perform this procedure when the engine is running. It is recommended to slightly increase and decrease the engine's RPM while testing the tags.

Testing procedure

1. Complete authentication. The alarm will emit the confirmatory trill indicating that the authentication is successful.
2. Press and release the programming button 12 times, the alarm will emit 4 short beeps and 4 LED blinks.
3. Press and release the programming button 15 times, the alarm will emit 1 long and 5 short beeps to indicate that the option №15 of the programming memu has been successfully selected.
4. Press and release the brake pedal during 10 seconds until a sonic signal is sounded. Release the brake pedal the alarm will turn on the constant radio tag search mode.
5. Verify the radio tag detection quality by moving the radio tag to different places of the vehicle's interior. The confirmatory trill emitted every 3 seconds indicates the reliable radio tag detection.
6. To exit the option «Radio tag detection quality test» press the brake pedal or simply turn the ignition OFF.

Deleting tags from memory of the system

There are two ways to delete the smartphone tags from the alarm's memory:
Selectively – in the mobile app Prizrak ID (see page 21). All at once — using a special programming menu.

Deleting sequence

1. Switch the vehicle's ignition to the ON position. Complete authentication: enter PIN code or wait until the Key ID tag, or Slim tag is detected.
2. Within ten seconds enter the programming menu by pressing and releasing the programming button 12 times. The alarm emits 4 beeps and LED light flashes to confirm that your actions are correct.
3. Press and release the programming button 18* (19**) times in order to enter the option «Deleting smartphone tags from the alarm's memory». The alarm will emit a series of one long and 8*(9**) short beeps and LED light flashes.
4. Press and hold the brake pedal. The alarm will start indicating the number of smartphone tags already registered into the system with a corresponding number of beeps.
5. Still keeping your foot on the brake pedal, press the programming button one time to erase all radio tags from the alarm's memory. Wait until the confirmation trill sounds.
6. Release the brake pedal and switch the ignition to OFF position to finish the programming procedure.

Changing PIN code

1. Turn the vehicle's ignition off.
2. Complete authentication.
3. Within 10 seconds after the authentication press and release the programming button 14 times. The alarm will emit one beep and LED flash to confirm that the «PIN code change» mode has been successfully entered.
4. Set up the new PIN code. Any button of the vehicle that responds with beep when being pressed can be used to set up the new PIN code dial combination.
5. Wait for confirmation: 1 beep and LED flash.
6. Repeat the new PIN code.
7. Wait for confirmation:
   - 2 short beeps and LED flashes and confirmatory trill mean that the PIN code has been changed and the alarm exits the programming mode.
   - one long warning beep means that the PIN code hasn't changed due to a mistake was made while setting a new PIN code. Repeat the «PIN code change» procedure, starting from the step №4.

You can exit the programming mode and leave all previous settings unchanged by turning the vehicle's ignition OFF.

!
- It is not possible to change or set up a new PIN code if the authentication method is «Radio tag».
- It is not allowed to set up the PIN code «1» — one push of one button.

* To erase smartphone tags. ** To erase radio tags.

Adjustment

Defining buttons suitable for entering PIN code

Complete the sequence listed above including the step №3. After performing the step №3 one short beep will sound signifying that you have entered the PIN code changing menu. Press each vehicle button shortly and only one time. A short beep following after pressing a button means that this button is available for entering a PIN code combination. Switch the vehicles ignition OFF after all available buttons are checked.

Programming examples — changing the loudness of siren chirps

Task: You'd like to adjust the siren chirps loudness when arming/disarming to a minimum level by selecting the value 2 in the option №11 (page 4).

Sequence:
1. Carry out authentication.
2. Within 10 seconds after carrying out the authentication press and release the programming button 12 times to enter the «User settings» menu (Table 5).
3. Select the option №11 by pressing and releasing the programming button 11 times. The alarm will confirm that the correct option number has been selected by a corresponding number of beeps: 1 long beep and 1 short beep acomponiede with LED light flashes.
4. Press and hold the brake pedal, the alarm will indicate the current option value by 4 beeps and LED light flashes (the default value is «4»).
5. Press and release the programming button 2 times to change the current option value. Keep in mind that after the last value of the option goes the first one. In our example it is 4 → 1 → 2.
6. To exit the programming menu: release the brake pedal, you will hear a series of one long and one short beep (the option №11) indicating that you've returned to the menu options list. Now you may proceed to another menu option or to leave the programming menu bv turning the ignition OFF.

Customize the security of your vehicle

❶ Maximum anti-theft protection

Authentication method	Immobilizer	AntiHiJack	Tag search when disarming
Tag and PIN code**	ON	ON	ON

All of the security contours are engaged. The alarm is able to deter the would-be car thieves even in case the tags and vehicle's original remote are stolen. PIN code should be entered before driving. It is also recommended to enable the feature «AntiHiJack feature automatic deactivation with a tag» (page 16).

❷ Increased comfort (default setting)

Authentication method	Immobilizer	AntiHiJack	Tag search when disarming
Tag	ON	ON	OFF

All of the anti-theft features of the integrated immobilizer are engaged. You have to always carry a tag with you when operating the vehicle. Simply disarm the vehicle with the original remote and start driving, no additional actions required.

❸ Universal protection for any situation

Authentication method	Immobilizer	AntiHiJack	Tag search when disarming
Tag or PIN code	ON	ON	ON

The perfect balance between convenience and vehicle security. A tag and PIN code authentication methods are interchangeable if the authentication method «PIN code or tag» is programmed. Enjoy the convenience of authentication flexibility by authenticating yourself with a tag, always being sure that you can enter PIN code in case if the tag isn't available. Engage the «Maximum security in dangerous places» by activating the second security contour «PIN code» just for one armed cycle when parking your car in potentially dangerous places.

❹ Confusing effect

Authentication method	Immobilizer	AntiHiJack	Tag search when disarming
Any	OFF	ON	OFF

The car-thieves' target is to bypass all the vehicle security contours, start the engine and drive your car away as quick as possible. Even if criminals have succeded in bypassing the original vehicle immobilizer, started the engine and drove away, the alarm will count down the travel distance (the distance is adjusted in the User settings menu) and will suddenly immobilize the vehicle in an unexpected place. The thieves have nothing alse to do but leave the vehicle and run away.

* Except Prizrak 8L and 8L/Smart. ** Changing authentication methods is not available for Prizrak-8CL.

Enhance the protection efficiency

❺ **Personal safety**

Set a distance in meters that a vehicle should travel until it will be immobilized (from 100 to 1000 meters) in case of violent seizure while being operated on the road (except Prizrak-8L and Prizrak-8L/Smart).

❻ **Extra secrecy**

- Turn off "Audible indication after authentication is complete and a tag is detected when disarming". Set a complicated multiple button PIN code (the most important thing is to remember it).
- Program the alarm so as the Key ID tag would be used to lock/unlock the vehicle's doors and the Slim-tag would be used for authentication. With such settings the vehicle remains protected even if you loose your car keys together with the Key ID tag. It is very convenient to keep the Slim tag in a purse or together with the vehicle's documents.

❼ **Don't tell anybody. Vigilance — is the guarantee of your tranquillity**

- Never hand your tags to anybody or tell the secret PIN code combination. You should always turn on the "Service/valet" mode prior to leaving your car at a service station or at a car wash and etc.
- Change the PIN code combination if it becomes known to an unauthorized person.
- Reregister a spare radio tag in case if you lost one of them until you purchase a new one (this will not allow a would-be thief to use the lost radio tag).

Notification system

The alarm system has two basic user notification methods SMS messages, voice alerts (phone calls to users' phone numbers). Receiving various alerts from the alarm system is available after adding users' phone numbers to the system's memory (no more then 3 phone numbers). This can be done using the mobile app Prizrak (page) or the intelligent voice menu.

After adding a phone number to the system's memory the **«Standard»** notification profile will be applied to it. There are five standard notification profiles. Each of them has it's own name which reveals the designated purpose of a profile (see table below). A user can choose any profile for any phone number registered in the system's memory and set preferable notification methods. Thus, it is possible to configure a custom notification profile based on a standard profile. Selecting and configuring the notification profiles is possible using either the mobile application Prizrak ID or the intelligent voice menu by making a call to the alarm system.

I – «Standard»
The default setting. The profile includes an optimal set of alerts for various events.

II – «Carefree»
A user with «Carefree» notification profile simply exploits the vehicle equipped with the alarm system while a user with «Caretaker» profile takes care of the car and receives all alerts and notifications from the system.

III – «Rescuer»
This profile is designed for a reliable person an alarm user can count on. The alarm will notify the «Rescuer» if AntiHiJack triggers.

IV – «Rescuer»
This profile is designed for a reliable person the main alarm user can count on. The alarm will only notify a user with the «Rescuer» profile if AntiHiJack triggers.

V – «Parental control»
 Is perfect for parents. The alarm will notify a user with this profile if AntiHiJack triggers and if a certain speed threshold is exceeded.

Table 5. Standard notification profiles

Event	Profile				
	I	II	III	IV	V
Alerts from the alarm and anti-theft systems					
Alarm triggering when perimeter is violated	📞	📞	📞	–	–
Alarm triggering after an attempt to start the engine	📞	📞	📞	–	–
Alarm triggering from shock/tilt sensors	–	📞	SMS	–	–
Warning from shock/tilt sensors	SMS	–	SMS	–	–
AntiHiJack triggering	–	–	📞	📞	📞
AntiHiJack triggering	–	–	SMS	–	–
Alerts form the remote start sytem					
Remote engine start	SMS	SMS	–	–	–
Alert about the forthcoming engine shutdown	SMS	SMS	–	–	–
Engine shutdown by the remote start system	SMS	SMS	–	–	–
Engine start failure or engine emergency shutdown by the remote start system	SMS	SMS	SMS	–	–
Warning about switched ON windows wipers when getting out of a car (for the remote start)	SMS	SMS	–	–	–
Warning about switched ON window wipers when the remote start mode is running	SMS	SMS	SMS	–	–
Starting the engine heater by the alarm system	SMS	SMS	–	–	–
Alert about the forthcoming engine heater shutdown	SMS	SMS	–	–	–
Shutting down the engine heater by the alarm system	SMS	SMS	–	–	–
Engine heater failer or abnormal engine heater shutdown	SMS	SMS	SMS	–	–

Notification system

Event	Profile				
	I	II	III	IV	V
Alerts from the measuring system					
Over speeding	–	–	SMS	–	SMS
Low battery voltage	📞	–	📞	–	–
Low voltage of the radio tag's battery	SMS	–	SMS	–	–
Low fuel level in tank warning	SMS	–	SMS	–	–
Engine overheating warning	📞	–	📞	–	–
Low SIM card balance	SMS	SMS	SMS	–	–
Other alerts and notifications					
Date and time are not set	SMS	–	SMS	–	–
Warning about factory PIN code	SMS	–	SMS	–	–
Service mode (activating/deactivating, driving while the service mode is active)	SMS	–	SMS	–	–
Wrong access code (GSM code)	SMS	–	SMS	–	–
Acces code (GSM-code) entry is blocked	SMS	–	SMS	–	–
Changing the system settings	SMS	–	SMS	–	–
Deleting a user's phone number	SMS	–	SMS	–	–
Enabling/disabling roaming	SMS	SMS	–	–	SMS

The alarm set depends on the model of the alarm system

Prizrak	8L/Smart	8L 8CL	8CL/2Slim	8HCL	8XL	8XL/Smart	8XL/P/Slim	8XL/Slim 8XL/A/Slim	8XL/AS/Slim	8GL	8GLX	8GLX/2Slim
Slim tag			2 pcs	●			●	●	●	●	●	2 pcs
Key ID tag		●			●					●	●	
Siren									●	●	●	●
Microphone TEC-4120									●	●	●	●
Relay module for the remote start		●			●			●		●	●	
Underhood module HCU-230				●								
Main alarm module	●	●	●	●	●	●	●	●	●	●	●	●
LED	●	●	●	●	●	●	●	●	●	●	●	●
Wire harness for connections	●	●	●	●	●	●	●	●	●	●	●	●
Temperature sensor	●	●	●	●	●	●	●	●	●	●	●	●
SIM card	●	●	●	●	●	●	●	●	●	●	●	●
Reference card	●	●	●	●	●	●	●	●	●	●	●	●
User guide	●	●	●	●	●	●	●	●	●	●	●	●
Equipment technical passport	●	●	●	●	●	●	●	●	●	●	●	●
Wiring diagram	●	●	●	●	●	●	●	●	●	●	●	●
Package	●	●	●	●	●	●	●	●	●	●	●	●

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