

AL PRIORITY®

User Guide

ed. 2015-01-07

# Important Safety Instructions

## READ BEFORE OPERATING

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of. Therefore read, keep and follow these guidelines during installation and use:

- Take special care while installing the sensor head. Damaging the cable or the factory installed connector on the cable may cause malfunction and will void warranty.
- While the sensor is water resistant and intended to be installed on the outside of the vehicle, the control box and it's connections must be made and kept in a dry area, preferably the passenger cabin. Warranty will be deemed invalid if failures are caused by improper installation.
- Do not plug more than five outer sensors into the control box. Do not plug any third party equipment into any of the sockets in the control box, unless it is allowed by this user guide or listed on our official website. Do not plug any part of the AL Priority into third party equipment. Doing so may cause fire or damage to the unit and voids warranty.
- AL Priority is not to be used with any other older AL components. Doing so may cause characteristic failure of the unit and voids warranty.
- It will take time to get acquainted with the range of the parking sensor, which can vary from 0 to 3 meters, from your car to the obstruction. Therefore rely on your personal judgment.
- AL Priority can NOT detect glass or other transparent objects.
- While driving, especially in winter months, dirt and filth can accumulate on the outer sensor lens, which can affect the sensor's performance. Wipe the lens periodically with a dry or moist cloth. Do not use cleaning solvents other than water.
- Laser signals emitted from AL Priority can cause interference to other laser equipment. If such case is detected by the system it will reset within a few seconds.
- If the vehicle where AL system is being installed to is already using another AL laser system (for instance laser cruiser control, or similar) in some cases it is possible that those two systems could interfere with each other. Check with your AL supplier if noise filtering is available for your vehicle type.
- Use of laser products may be regulated by your local laws. Check your local laws before using this product.

### **Special caution**

AL Priority laser sensor emits an invisible laser beam that can be harmful to sight. Never, under any circumstances look at the sensor while it is operating.

# Safety and Conformity

## Electromagnetic compatibility

The AL Priority is fully in conformity with the requirements of Council Directive 2004/108/EC Electromagnetic Compatibility (EMC), based on the full compliance of the product with the following European/International Standards:

Emissions: EN 61000-6-3 (IEC 61000-6-3)

Immunity: EN 61000-6-1 (IEC 61000-6-1)

The labeling of the AL Priority which is affixed on the Outer Sensor and the Control Box housing meets the requirements of the guideline 2004/108/EC:



The AL Priority is fully in conformity with the requirements of Automotive EMC Directive 2004/104/EC amended by directives 2005/49/EC, 2005/83/EC, 2006/28/EC, 2009/19/EC and duly approved and homologated by The Slovenian Roads Agency. Type -approval number is: e26\*2009/19\*1058\*00

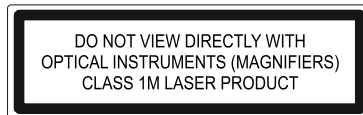
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## Laser safety

The AL Priority is tested and classified as Class 1M laser product in accordance to European and International Eye safety regulations EN 60825-1 and IEC 60825-1.

Definition: Class 1M-laser products are safe under reasonably foreseeable conditions of operation, but may be hazardous if the user employs optics within the beam.

An Outer Sensor unit of the AL Priority system is labeled in accordance to regulations:



For products delivered into the United States the following clause applies:

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

**RoHS:** The AL Priority is compliant with the requirements of RoHS Directive.

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# 1. Introduction

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Thank you for purchasing AL PRIORITY, successor to the Worlds' first multipurpose car parking sensor designed for your driving comfort. This product was developed and manufactured in our ISO 9001 certified factory in Croatia (EU) ensuring top quality of the product.

AL PRIORITY comprises parts fabricated to military standards and was designed to keep you and your vehicle safe by enabling effortless parking and greater confidence while driving. As opposed to classic infra-red sensors that use light emitting diodes AL PRIORITY is equipped with a laser diode that is used in military range-finders and police speed detectors, the power of which is one hundred times greater than that of a LED diode. In addition, it incorporates our patented laser technology that is a significant improvement in the industry, ensuring higher precision, extreme resistance to temperature changes and foreign light interferences, specifically Sun rays.

AL PRIORITY works on the 905 nm light frequency. It constantly emits laser signals and recognizes them when reflected from an obstacle, consequently warning the user. Thanks to the advanced program code the system will discriminate between laser signals coming from other laser sources.

AL PRIORITY is not just a parking sensor. Special sensor version is available that incorporate LED illumination intended to be used as fog lights (this option may be unavailable in your country, check with your local dealer). AL Priority is compatible with specific 3rd party radar sensors (in some countries radar use may be regulated by law, check availability with your local dealer).

AL PRIORITY is Industry's First laser sensor with user internet USB flash drive upgrades. The USB flash drive is also used to transfer custom system setup from the PC Priority setup application. Alternatively the Control set keyboard will enable you to set-up the system to your priorities directly in the vehicle.

Intellectual property within AL Priority is protected with registered and pending patents and designs, such as but not limited to: HR P20040769, HR PK20060340, DE202008018045U1, ZAP/2010/8418, US 8,309,926, AU2008355569, EP2277060, CA2723286, and others. All Rights Reserved.

AL, ALP and AL PRIORITY are trademarks or registered trademarks in the US, EU and other countries: US4123648, HR Z20091753, AU1423337, EM1073712, US 4280659, HR Z20120201, AUS 153306, ...

## AL PRIORITY Improvements

AL PRIORITY comes with the smallest sensor in its performance class. Superior laser detection is achieved by carefully designed hardware and firmware of the reception system, based on our patent protected invention. During design of the system our top priority was maintaining perfect functionality and ultimate performance in all conditions, fighting interferences caused by the Sun and foreign laser sources, increasing resistance to temperature changes and electromagnetic noise.

While the sensor is smaller, the control box has grown, offering new functions and add ons. The system can consist of up to five outer sensors with front and rear sensor discrimination.

AL PRIORITY is the first product in the industry that boasts upgradable firmware and custom set up using a USB flash drive.

The latest hardware revision brings more advancements:

- ✓ Dual Processor Design running at over 100 MHz
- ✓ new smaller sensor gives an even higher level of laser coverage (+20%)
- ✓ still holds the widest protection angle (up to  $\pm 15^{\circ}H \pm 15^{\circ}V$ )
- ✓ introduces the innovative rear&side sensor cable exit
- ✓ GPS and radar integration.

AL Priority brings Industry's First:

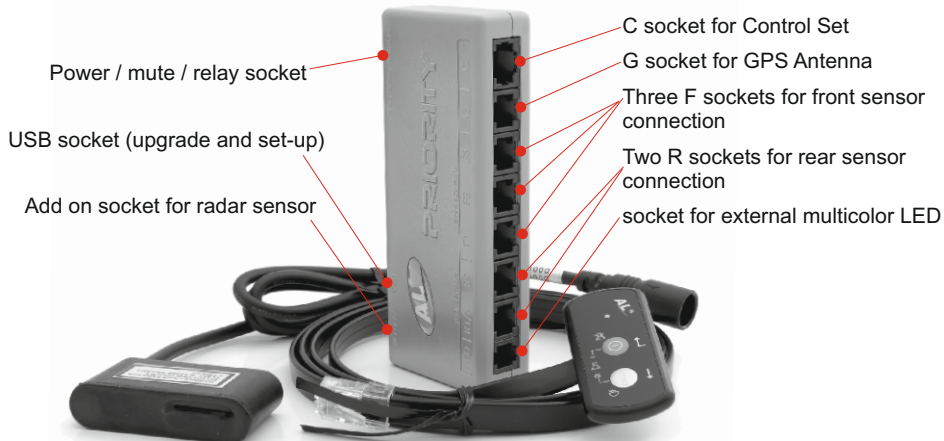
- ★ user friendly internet upgrades and USB flash drive set up
- ★ USB flash drive Theft protection Key
- ★ 5 sensor connection with front and rear sensor discrimination
- ★ advanced self-test function detects disconnection or malfunction
- ★ compatibility with specific third party devices.

## 2. Main parts of the Product

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### **Control Box**

The central part and the brain unit of the AL PRIORITY. It includes a Dual processor, an upgradeable flash memory, a complex power supply unit and the following sockets:



### **Outer Sensor**

Incorporates emitting and detection circuits: includes one emitting and four reception diodes.

As this unit is installed on the outside of the vehicle, it is specially protected from water and mechanical damage. The product set can consist of one up to five outer sensors.

### **Control Set**

It is connected to the C socket of the Control Box. It includes these controls:

- ◆ multi-color light diode
- ◆ power/ enter/ PDC mute key
- ◆ menu/ next/ fog lights key
- ◆ internal speaker\*.

\*Hi-Fi Control Set includes an audio plug for external speaker connection.

### 3. Installation

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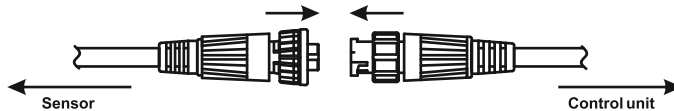
To obtain the best possible performance of your AL Priority and insure long service life, seek a professional installer to mount the product. To begin installation follow these steps and refer to the Installation diagram.

#### **OUTER SENSOR**

Can be mounted between the front grill partitions or above the rear bumper. Take care not to damage the cable or the factory installed connector on the cable during installation (cutting the cable or removing the factory installed connector voids warranty and may cause malfunction).

- ① Check if the cable is long enough to reach the desired position. The Priority sensor cable (1 meter) is to be connected with a connecting cable (4 meters), giving a total of 5 meters in cable length. Longer reach can be achieved with an Extension cable (2,5 meter; Optional).

The sensor cable comes with a new ringlock connector offering a more secure, waterproof cable connection.



Take care to lock the cable connector during cable installation as described here:



The plastic ring on the cable to the sensor (shown in red) must be rotated to the right and locked into position for maximum grip.



OPTION: 2,5 m Extension cable

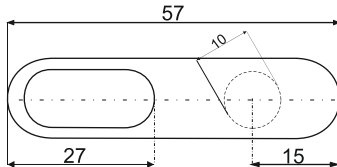


- ② Attach the sensor using double-sided adhesive tape and a mounting bracket to a position that offers a clear front (back) view.

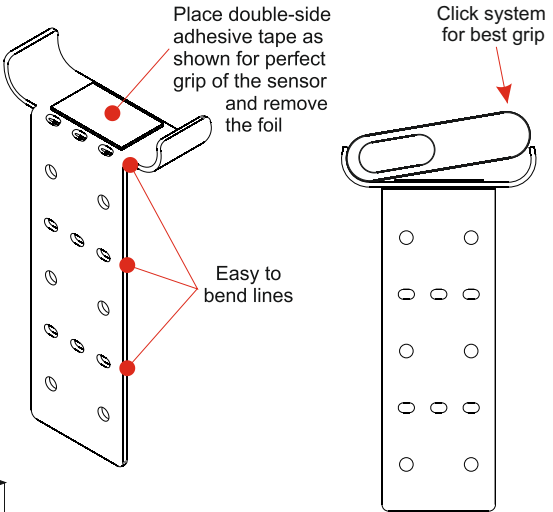
The mounting bracket can be bent as needed.

Fix the bracket with the screws (included).

Make sure the sensor is installed firmly in order to absorb vibrations that occur while driving, especially if mounted on a motorbike.



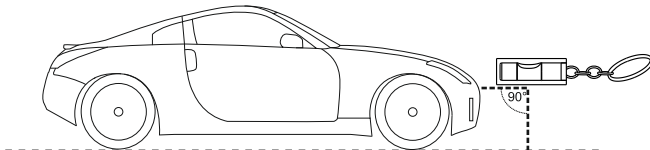
Sensor measurements in mm



If installing sensors behind flat surfaces (plastic bumpers, dense grills) it will be necessary to drill holes through which the sensor will have an unobstructed view of the road. A circle and an ellipse on the sketch of the sensor lens represent the area where receiving and emitting diodes are positioned.

These marks must be clear of obstruction while the rest of the lens can be covered if needed.

- ③ Make sure the sensor is levelled (use a level to check).



## **CONTROL BOX**

The Control Box is to be mounted in the interior of the vehicle at the place of your choice and it should not be exposed to water.

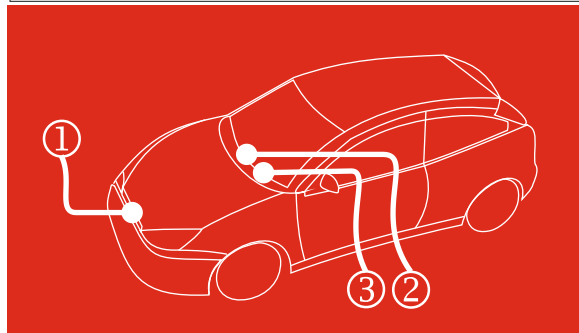
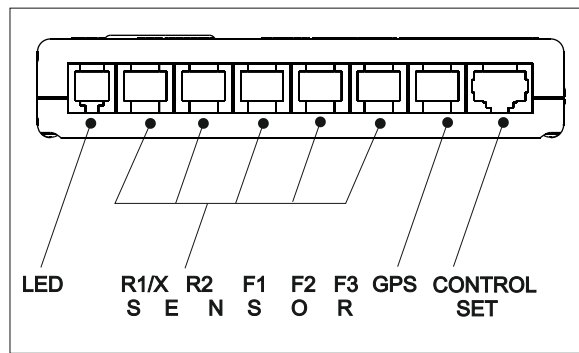
To avoid the possibility of draining your car battery by accidentally leaving your AL system on for a prolonged period of time, use the following connection method:

- \* Locate access to the power supply of the vehicle (+12 V)
- \* Connect the BLACK Control Box wire to the car chassis or to the negative ground power supply wire of your vehicle's system
- \* Connect the RED Control Box wire to the SWITCHED positive power supply wire usually found in the car radio power supply.
- \* Insure that the wires are properly locked and preferably wrap them with insulation tape afterwards.
- \* Connect the blue car radio mute wire to the corresponding audio mute input on the car radio, if it has one. \*Green relay wire in the Rev2 ALP control box can be connected to the coil of an automotive relay which is then pulled to the +12V car battery. By using this relay it is possible to switch off/on other vehicle circuits during an alert from the ALP. The relay wire pulls to the ground when active the same as the Mute wire.
- \* After the control box is connected to the power supply, plug the sensor into a sensor socket. If there are more than 1 sensor plug them all, front sensors to sockets marked with F, and rear sensors to sockets marked with R.

*2A fuse is factory installed inside the Control Box but if required additional fuses can be installed externally in the wiring.*

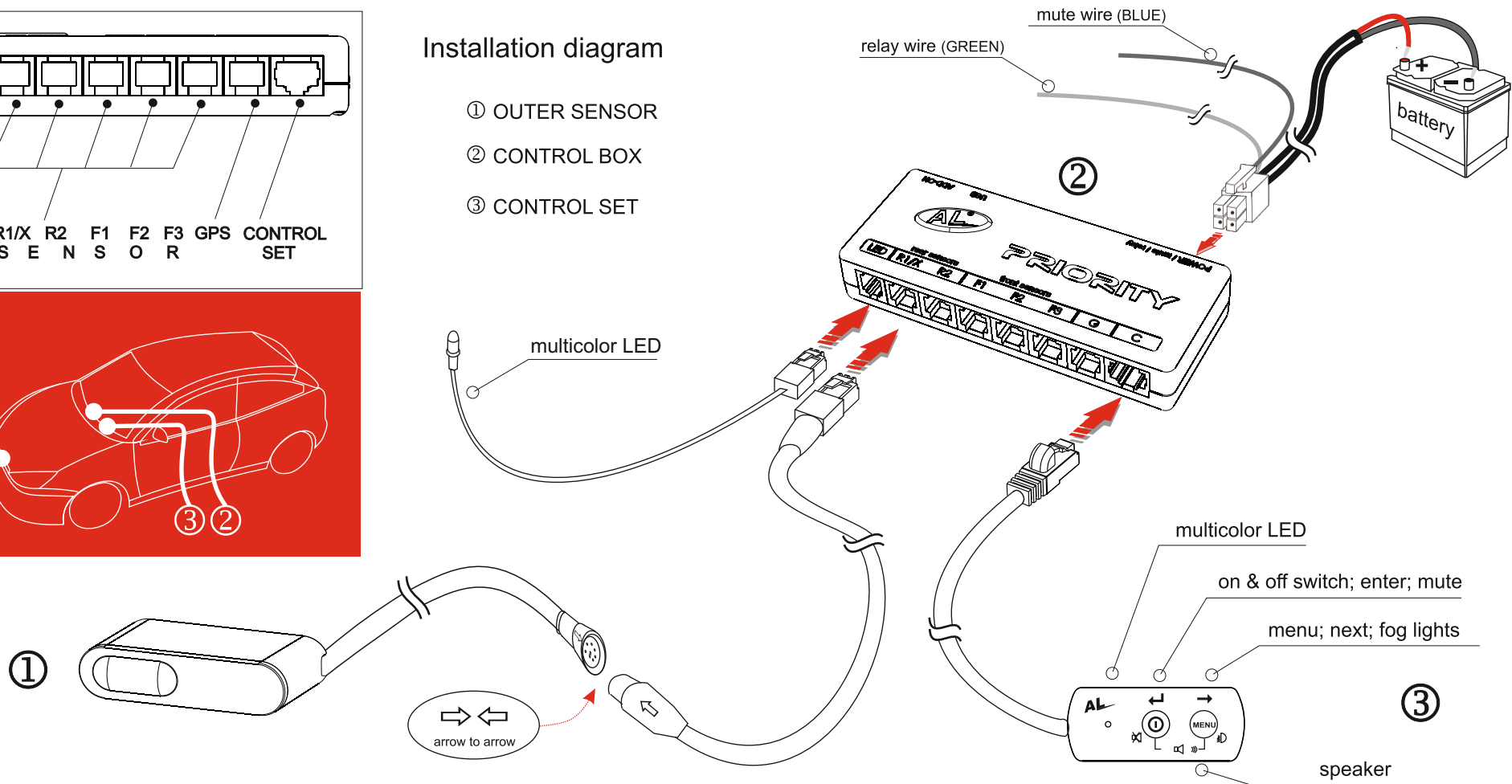
## **CONTROL SET, LED & USB CABLE**

- \* Determine where to install the Control Set in the vehicle interior while keeping in mind that the control buttons should be close at hand and that the multi-color light diode should be in sight. You can install a separate multi-color LED for easier visibility, in which case the control set needs not be visible. Use a LED holder supplied with the installation accessories when installing a multi-color LED diode.
- \* Connect the C connector to the C socket of the Control Box. Connect the USB extension cable to the USB socket of the Control Box. The USB plug on the other end of the cable should be close at hand so you can easily connect the USB memory drive to the system, when needed.
- \* **Option:** Connect the R/G Plugin to Add on socket, connect compatible radar sensor to R/G Plugin, connect GPS antenna to G socket of the Control Box or to the appropriate socket of the R/G Plugin.



### Installation diagram

- ① OUTER SENSOR
- ② CONTROL BOX
- ③ CONTROL SET



## 4. Usage

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Long press on the power button of the control set. The activation is followed by an intermittent sound and alternating red and green flashing diode lights. While operating the green light will flash once every second. On every activation the system runs a self-test: if the Control set has not been connected properly or has a malfunction the system will turn off; if the sensor(s) or other critical port(s) are not found or are malfunctioning the red diode will light up accompanied by a warning tone during operation. If an obstacle is detected your AL system will warn you with red diode flashes and audible signals that will become more rapid as the obstacle gets closer. More on operation modes and audio-visual signals can be found on page 14.


AL PRIORITY has several user selectable operating modes which are set to optimal default values but can be modified by the user at any time during operation. Following custom operating mode set, the new mode will remain permanently written in the memory of the processor. Several additional features are also available in the programming menu.

Note that while inside the menu regular working functions of the system are suspended. System will exit menu or each submenu after 5 seconds of inactivity.


If you are using a Hi-Fi Control Set with an external speaker, instead of the beeping sounds you will hear descriptive information about MENU settings selected.

### 4.1. LEARN TO USE CONTROL KEYS

long press for Power ON/OFF /  
 short press when inside menu for ENTER /  
short press while driving toogle mute parking


long press to enter menu /  
 short press when inside menu for NEXT /  
short press while driving for Fog lights on/off.

#### 4.1.1 Speaker mute





Short press of  button while the system is operating will toogle the speaker on/off and further parking sensor warnings will be given with red flashing lights only.

This setting lasts until you push the same button; the setting is kept in the system memory even after restarting. **NOTE: Only the parking alert is muted.**

#### 4.1.2 Fog lights on/off

Short press of  button while the system is operating will turn the fog lights on or off if the system has the special AL light sensors connected. Fog light activation will be signaled by a green LED flash and a sound, while deactivation of the fog light will be signaled with the sound only.






### 4.2. Audio volume set-up (Purple MENU)

At the same time long press  and  buttons. The LED will turn purple. Pressing  will lower the volume, while pressing  will increase the volume.

### 4.3 MAIN MENU MODES AND FEATURES (Yellow Menu)




#### 4.3.1 Parking distance control range - PDC (DEFAULT: LEVEL 3)

Before using it in driving conditions the parking sensor range should be tested by a piece of paper or another object. A warning tone will be heard, accompanied by the red flashing light as you bring the paper or object closer to the sensor. If needed, the detection range (which can vary from 0 to 3 meters) can be adjusted to eight different levels. Use the following sequence for reprogramming:

- Long press  button to enter menu. The LED will turn yellow, the color of the main menu.
- Press  once (1) and then press . The LED will turn white, the color of the PDC submenu.
- Press  once for shortest, twice for short, ... eight times for longest range detection.
- Then press .
- Selected setting is signalled by that number of white LED blinks and beeps from the speaker.

#### 4.3.2 Silent power-up (DEFAULT: OFF)



During activation, only the LED indicator lights will flash without sounds. Use the following sequence to activate/deactivate this mode:



- Long press  button to enter menu. The LED will turn yellow, the color of the main menu.
- Press  two (2) times and then press .
- Reprogramming will be signalled by a green blinking LED and three beeps from the speaker if this mode is turned ON, or a red LED light with long beep if this mode is turned OFF.

### 4.3.3 LED Dark mode (DEFAULT: Normal)

To prevent the green light from flashing every second during operation, you can activate the LED Dark mode. The green light will stop flashing 10 seconds after the power-up if this mode is activated.

Long press  button to enter menu. The LED will turn yellow, the color of the main menu.

Press  three (3) times and then press . The LED will turn white.

Press  1, 2, 3, 4, 5 or 6 times. (1 - normal, 2 - dim, 3 - dark, 4 - constant, 5 - constant dim, 6 - constant dark). Then press  .

### 4.3.4 Show firmware version

Firmware version consists of three digits (x.y.z). To check which firmware version the system is running follow the next sequence:

Long press  button to enter menu. The LED will turn yellow, the color of the main menu.

Press  four (4) times and then press  .

The number of red LED blinks and beeps from the speaker signals the first digit;

The number of white LED blinks and beeps from the speaker signals the second digit;

The number of blue LED blinks and beeps from the speaker signals the third digit.

### 4.3.5 Restore factory default settings and memorize number of installed sensors

Did you forget which features you programmed into your system? Use this simple programming sequence to restore factory default settings:

Long press  button to enter menu. The LED will turn yellow, the color of the main menu.

Press  five (5) times and then press  .

The system will restore settings and restart.

#### **Automatic sensor check**

While restoring factory default settings the unit will count and memorize the number of sensors connected to the system as well as their positions. On each subsequent power-up during the self-test process the unit will check if all memorized sensors are present and operational. If one or more are disconnected or not operational you will be warned by a constant red LED light and short beeps during first 5 seconds of operation.

NOTE: In order to memorize any change initiate this setting after installation of every new sensor.

### 4.3.6 Manual sensor check

To manually check the number of sensors connected and operating in the system use the following programming sequence:

Long press **MENU** button to enter menu. The LED will turn yellow, the color of the main menu.

Press **MENU** six (6) times and then press **1**.

The system will execute and the number of sensors that are found connected will be shown by the number of green LED blinks and beeps from the speaker.

## 4.4. Additional features

### 4.4.1 System Set-up and Upgrade using a USB flash drive

The system can be set up to your preferred options with a USB stick.

Only use high quality USB drives formatted to FAT32 or FAT16 (NTFS is not supported).

Install AL Priority set-up application on your computer and run it. Plug the USB stick and choose your preferred set-up. Save it to the USB drive by clicking on the Save icon.

Plug the USB drive into the USB socket of the AL Priority Control Box. AL system will upload your saved preference.

The AL Priority system can upgrade its firmware from the USB drive (download the new firmware to the USB drive on the internet and upgrade your AL Priority system by plugging it into the Control Box). Check for availability on our website [www.alpriority.com](http://www.alpriority.com).



### 4.4.2 Theft Protection USB Key (once activated it can not be turned off)

Once this feature is initiated, the system will not work unless a USB memory drive with your unique key is plugged into the USB socket. To create your USB Key, plug any USB memory drive into the USB socket of the Control Box (for easier handling use with the supplied USB extension cable).

Long press **MENU** button. Press **NEXT** 7 times and enter Service code menu (LED will turn white).

Press **NEXT** 8 times then **ENTER**. Wait for sound sequence to finish.

Press **NEXT** 4 times then **ENTER**. Wait for sound sequence to finish.

Press **NEXT** 8 times then **ENTER**. LED will blink blue and your Key is stored onto the USB drive.



**Please make a back-up of your key file on your PC. If you lose this key you will not be able to use your system!**

## 5. Specifications

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### **Dimensions:**

#### **Outer Sensor (LxHxW)**

30x14x57 mm (1.18 x 0.55 x 2.24 in)

Cable length: 1 m + 4 m (16.4 ft)

#### **Control Box (LxHxW)**

100x22x50 mm (4.8 x 0.86 x 1.97 in)

Power supply cable: 1 m (3.3 ft)

#### **Control Set (L)**

56x27x6 mm (2.2 x 1.06 x 0.24 in)

Cable: 1,5 m (4.5 ft)

### **Weight:**

#### **Outer Sensor + cable**

57 g + 160 g (0.13 lb + 0.35 lb)

#### **Control Box + cable**

93 g + 40 g (0.29 lb)

### **Working temperature:**

-20 °C to +60 °C (-4 °F to 140 °F)

### **Power supply:**

#### **Operational power supply**

10 V to 17 V

### **Current consumption**

1500 mA, max.

### **Speaker loudness:**

93 dB min SPL@10cm

### **Laser class:**

1M

### **Laser wavelength:**

905 nm

*Specifications are subject to change without notice.*



## 6. Operation description

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### **LED & sound signals:**

#### **POWER-UP SEQUENCE**

On each power up there is a 3 second long sequence of beeps and green and red LED flashes while the system performs a self-test and sensors are counted and checked.

#### **LED flashing green**

Normal operation, LED flashes green every second

#### **LED flashing red + beep**

Obstacle found

#### **ERRORS:\***

#### **LED constant red + 1 beep:**

Error 1; low voltage, check vehicle power supply

#### **LED constant red + 2 beeps**

Error 2; cables unplugged or defective sensor

#### **LED constant red + 3 beeps**

Error 3; Defective sensor, service required. Unplug all sensors, then connect one by one to find the faulty one. Remove it and contact support.

#### **LED constant red + 4 beeps**

Error 4; Control Box defective, service required. Contact support.

#### **LED constant red + 5 beeps**

Error 5; Control Box defective, service required. Unplug the power cord from the Control box and contact support.

#### **LED constant red + 6 beeps**

Error 6; Control Box defective, service required. Contact support.

#### **LED constant red + 7 beeps**

Error 7; Error during firmware update procedure - try again!

#### **LED constant red + 8 beeps**

Error 8; Error during firmware update procedure - try again!

#### **LED constant red + 9 beeps**

Error 9; Control Box defective, service required. Contact support.

#### **LED constant red + beeps during first 5 seconds of operation**

Automatic sensor check has failed, Restore defaults&memorize setup if any change to sensor setup occurred or check for defective sensor.

Should your AL system start to behave differently than what you are used to, before concluding that it might be malfunctioning, reset to factory defaults and check again.

\*If you are using a Hi-Fi Control Set with an external speaker, instead of error and warning tones you will hear descriptive information for each specific error.

## 7. Registration, warranty and service

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### Registration

To become a Registered owner of AL Priority please register at **www.ALPRIORITY.com** no later than 30 days from the date of purchase.

By registering you will gain website access to the latest firmware editions, you will receive our newsletters and the added bonus of subscribing to our special offers.

Visit us online to find out if there is a firmware upgrade available for your system.

### Warranty

The manufacturer guarantees that the product is fully functional. During production and before delivery it undergoes numerous quality checks. Nevertheless, a limited two year warranty will apply, valid from the date of the first purchase. If you have not registered your product in case of a warranty claim you are required to show an original receipt with a visible date of purchase and a warranty card authorized by the dealer. The warranty terms are defined in the warranty card included here.

### Servicing and Support

If uncertain whether your AL Priority is working correctly please first check Operation description on page 14 of this manual. If assistance is required contact your local dealer or our Service and Support centre at **support@ALPRIORITY.com**.

Worldwide exports and wholesales:

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Sesvete - Croatia

info@radikal.hr

[www.alpriority.com](http://www.alpriority.com)

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# Warranty card



## **Name of Customer**

Contact information

## **Product information**

Model ID

Serial numbers

Initial firmware version (F/W)

## **Date of Purchase**

**Dealer's signature and stamp**

### **PROGRAMMING CODES REMINDER**

- long press for ON/OFF/ short press inside menu for ENTER/ short press while driving to toggle mute PDC
- long press to enter menu/ short press inside menu for NEXT/ short press while driving for Fog lights on/off

Long to enter Yellow menu

PDC SETUP: Press 1 time, press . (LED will turn white). Press 1-8 times then

SILENT POWER-UP: Press 2 times press .

DARK MODE: Press 3 times press . (LED will turn white). Press 1-6 times then

SHOW FW VERSION: Press 4 times press .

RESTORE FACTORY DEFAULTS: Press 5 times press .

COUNT SENSORS: Press 6 times press .

SERVICE CODE ENTRY: Press 7 times press . Activate THEFT-LOCK by entering 8x4x8.

Long + to enter Purple menu - AUDIO VOLUME

Pressing will lower the volume, pressing will raise the volume.

## YOUR NOTES

## Warranty Terms and Conditions

The manufacturer - by means of its sales organization, representative or distributor - guarantees this product against manufacturing defects and guarantees after-sales servicing for two (2) years from the original purchase date.

Should the product fail to work or show a manufacturing defect within the warranty period A-ELEKTRONIK - by means of its sales organization, representative or distributor - will take the necessary actions to restore the perfect functioning of the product. To repair it or to replace is at discretion of A-ELEKTRONIK.

Should the product fail to work or show a manufacturing defect, the consumer shall contact A-ELEKTRONIK Service Centre or distributor for further service arrangement. When taken to a service company the product must be accompanied with the warranty card and the official purchase receipt.

It is necessary that the warranty card has been correctly and completely filled out at the time of the original purchase. If not, the warranty may not be in effect.

This warranty shall not apply for the following:

- 1) Normal wear and tear of the product and/or its parts.
  - 2) Accidents, which occur during shipping and handling, and damage resulting from such accidents.
  - 3) Malfunction or damage due to product misuse, or negligence by the customer, or any use of the product other than that described in the user's guide.
  - 4) Damage caused by incorrect installation.
  - 5) Product is rebuilt, repaired or adapted by a non-certified individual, as well as installed, modified and operated in a manner that violates the technical specifications and/or safety regulations.
  - 6) Product serial numbers have been changed, tampered with or removed.
  - 7) Any damage, failure or loss caused by accident, misuse, and any other failure not directly related to a defect of the product.
- The warranty does not cover installation and dismantling fees, nor shipping costs.

Note: This warranty shall not be applicable, if the required information in the warranty card is not completely filled in or if the content is revised or modified in any way.

For further information please visit [www.aipriority.com](http://www.aipriority.com), or write to [support@aipriority.com](mailto:support@aipriority.com).

### Manufacturer's Service and Support centre:

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