

Avial 3001L

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Owner s Guide



## Limited consumer warranty

For a period of one calendar year from the date of purchase of this auto-security device, Directed Electronics, (Directed) promises to the ORIGINAL PURCHASER to repair or replace (at Directed's election) with a comparable reconditioned model, any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories which proves to be defective in workmanship or material under reasonable use, provided the following conditions (herein "Conditions") are met: the unit was purchased from an authorized Directed dealer; the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealer's name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. ALL UNITS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE WILL BE DENIED.

After the first calendar year, from the date of purchase of the unit, Directed, promises to the ORIGINAL PURCHASER to repair or replace, (at Directed's sole and absolute discretion) with a comparable reconditioned model any unit which proves to be defective in workmanship or material under reasonable use FOR A CHARGE OF \$45.00, SO LONG AS THE AFOREMENTIONED CONDITIONS HAVE BEEN MET. The unit must be returned to Directed, postage pre-paid, along with a legible copy of the receipt (including the information below) and a cashier's check or money order made payable to Directed Electronics in the amount of \$45.00. This warranty is non-transferable and is automatically void if the unit has been modified or used in a manner contrary to its intended purpose, or if the unit has been damaged by accident, unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction. This warranty does not cover damage to the unit caused by installation or removal of the unit. This warranty does not cover labor costs for the removal, diagnosis, troubleshooting or reinstallation of the unit. For service on an out-of-warranty product a flat rate fee by model is charged. Contact your authorized dealer to obtain the service charge for your unit. These security systems are a deterrent against possible theft. Directed is not offering a guarantee or insuring against vandalism, damage or theft of the automobile or its parts or contents and Directed hereby disclaims any liability whatsoever, including without limitation, liability for damage, vandalism and/or theft of the vehicle, parts and/or its contents. Directed neither assumes nor authorizes any person or entity to assume for it any duty, obligation or liability in connection with its products. Directed disclaims and has absolutely no liability for any and all acts of third parties, including its authorized dealers or installers. In the event of a claim or a dispute involving Directed or its subsidiary, the venue shall be in San Diego, California. California state laws and applicable federal law shall apply and govern the dispute. TO THE MAXIMUM EXTENT ALLOWED BY

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IMPORTANT NOTE: This product warranty is automatically void if its date code or serial number is defaced, missing, or altered. This warranty will not be valid unless you have completed the warranty card and mailed it to Directed, within 10 days after purchase to the address listed on the warranty registration card. Make sure you have all of the following information from your authorized Directed dealer:

A clear copy of the sales receipt, showing the following:

- o Date of purchase
- o Your full name and address
- o Authorized dealer's company name and address
- o Type of system installed
- o Year, make, model and color of the automobile
- o Automobile license number
- o Vehicle identification number
- o All security options installed on automobile 920-0004 06-06

## Contents

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Limited consumer warranty . . . . .	i	Nuisance prevention circuitry® . . . . .	8
Trademarks and copyrights . . . . .	1	Diagnostics . . . . .	9
What is included . . . . .	2	Arming diagnostics . . . . .	9
Important information . . . . .	2	Disarming diagnostics . . . . .	9
Using your system . . . . .	3	Table of zones . . . . .	10
Manual (active) arming . . . . .	3	Rapid resume logic . . . . .	10
Automatic (passive) arming . . . . .	3	Programming options . . . . .	11
Armed protection . . . . .	4	Programming settings . . . . .	11
Disarming . . . . .	5	Glossary of terms . . . . .	13
Disarming without a transmitter . . . . .	5	Notes . . . . .	15
Valet mode . . . . .	6	Quick Reference Guide . . . . .	17
Remote valet . . . . .	6		
Panic mode . . . . .	7		

## Trademarks and copyrights

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Code-Hopping , Directed<sup>®</sup>, Doubleguard<sup>®</sup>, FailSafe<sup>®</sup>, Nuisance Prevention Circuitry<sup>®</sup>, NPC<sup>®</sup>, Silent Mode , Soft Chirp<sup>®</sup>, Stings<sup>®</sup>, and Wan Away<sup>®</sup> are all Trademarks or Registered Trademarks of Directed Electronics.

## What is included

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- Control module and harness
- A Stinger<sup>®</sup> dual stage shock sensor (on-board the control module)
- Pre-wired Valet switch
- Status LED
- Failsafe<sup>®</sup> Starter Kill relay (if equipped)

## Important information

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Congratulations on the purchase of your security system. Due to the complexity of this system, it must be installed by an authorized dealer only. Installation of this product by anyone other than an authorized dealer voids the warranty. All dealers are provided with a preprinted dealer certificate to verify that they are authorized.

By carefully reading this Owner's Guide prior to using your system, you will maximize the use of this system and its features.

You can print additional or replacement copies of this manual by accessing the Directed web site at **[www.avital.com](http://www.avital.com)**

## Using your system

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### Manual (active) arming

The factory default is active arming. You can activate or arm the system by locking the doors with your factory keyless entry transmitter. When the system arms, you will hear a short siren chirp and see the parking lights flash once.

**Note:** The system can be programmed to sound horn honks or siren chirps. The horn is optional and may require additional labor.

While the system is armed the status LED flashes about twice a second, to show that the system is actively protecting your vehicle. If you hear a second short siren chirp after arming, and the status LED is flashing in groups, then go to Diagnostics section (page 9). This extra short siren chirp is called Bypass Notification.

**Note:** If the ignition is turned on within 60 seconds of arming the system, the system will automatically disarm.

### Automatic (passive) arming

The system also can be programmed to arm itself automatically (called passive arming). If the system is programmed for passive arming, it will automatically arm 30 seconds after the ignition is turned off and the system sees you leave the vehicle by opening and closing a door. Whenever the system is in its 30-second passive-arming countdown, the status LED will flash twice as fast as it does when the system is armed. When the system arms, you will hear a short siren chirp and the parking lights will flash once. The doors lock (if connected and programmed for passive locking).

If any protected entry point (such as a door or a switch-protected trunk or hood) is open, the system will not passively arm. Additionally, each time a sensor is triggered during the arming countdown, the 30-second countdown starts over.

**Note:** Passive arming may qualify for a higher insurance discount. Check with your insurance agent.

## Armed protection

When armed, your vehicle is protected as follows:

- Light impacts to your vehicle trigger the warn away signal. The system chirps the siren and flashes the parking lights for a few seconds.
- Heavy impacts trigger the system. The triggered sequence is 30 or 60 seconds of the siren sounding continuously and flashing parking lights.
- If a door is opened the system immediately starts short chirps of the siren and flashes the parking lights. Three seconds later the siren output changes to a continuous blast. This progressive response gives you time to disarm the system with your transmitter while providing instant response if you inadvertently open a door while the system is armed. (even if the door is immediately closed).

**Note:** If programmed for instant trigger, the siren sounds a full trigger response after the door has been opened (see *Programming Options* section of this guide)

- Turning on the ignition key triggers the same progressive response as opening a door.
- If the starter kill relay is installed, the starter interrupt prevents the vehicle's starter from cranking.



## Disarming

To disarm the system, unlock the doors using your factory keyless transmitter. The siren sounds twice, and the parking lights flash twice. If the siren sounds either four or five times when disarming, refer to the Diagnostics section of this guide. This is called Tamper Alert.

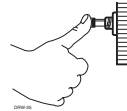
### Disarming without a transmitter

This feature allows you to override the system without the transmitter should it be lost, damaged or disabled. To do this, you must have the vehicle's ignition key and know where the Valet switch is located.



Turn the ignition to the run position.

**Press and Release** the Valet switch, within 10 seconds.



After a few seconds the LED will stop flashing and the vehicle should start. If it does not, you may have waited too long. Turn the ignition off and try again.

**Note:** Your installer can program the number of times to **Press** and **Release** the Valet Switch. See *Programming Options* section of this guide.

## Valet mode

You can prevent your system from arming, by using Valet Mode. This is very useful when washing the vehicle or having it serviced. In Valet Mode the system will not arm, but all convenience functions (door locks, trunk release, etc.) will work normally.

### To enter or exit Valet® Mode with the Valet switch:



Turn ignition to on position,  
then turn to off position.  
Press and release the Valet  
switch within 10 seconds.



The status LED will light steady if you have entered Valet Mode. To exit Valet Mode, repeat the steps above. The LED turns off when exiting Valet Mode.

## Remote valet

Remote Valet is a convenient feature that makes bypassing the security system easier. This feature makes it possible to exit or enter Valet Mode using your factory keyless transmitter.

1. Open any door.
2. Press LOCK on the transmitter.
3. Press UNLOCK on the transmitter.
4. Press LOCK on the transmitter.

The status LED will stay on if you have entered Valet Mode, and it will go out if you exited Valet Mode.

The remote Valet feature will not work with all factory Keyless system. Some keyless entry systems do not work with a door open.

## Panic mode

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your transmitter! If your factory keyless transmitter does not have a panic button, this system can be programmed by your installer to enable a panic feature (refer to the Programming Options).

If enabled, just press the lock button on your factory keyless transmitter twice within three seconds to enter Panic Mode. The siren sounds and the parking lights flash for 30 seconds. To stop Panic Mode at any time, press the unlock button on your factory transmitter.

**Note:** The system can also be programmed so that pressing the lock button twice within three seconds will activate an optional accessory. If the unit is programmed to activate an optional accessory, Panic Mode will not be operational.

## Nuisance prevention circuitry<sup>fi</sup>

Your system has Nuisance Prevention Circuitry (NPC). This circuitry prevents annoying repetitive trigger sequences due to faulty door pin switches or environmental conditions such as thunder, jackhammers, airport noise, etc.

### **Here's how it works:**

The alarm triggers three times. Each time, the same sensor or switch is triggering the alarm. The three triggers are within 60 minutes of each other. Your system will interpret this pattern of triggers as false alarms. After the third trigger, your system ignores, or bypasses that sensor or switch (along with any other sensors or switches sharing the same zone) for 60 minutes.

If the bypassed sensor tries to trigger the system while it is being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that is continuously triggering will remain bypassed.

Doors are covered differently: If the alarm is triggered by an open door for three full cycles (one-and-one-half minutes), the doors will be bypassed until the door is closed.

**Important:** Arming and disarming the system does not reset the bypass feature. The bypass zone is reset by not triggering for 60 minutes or by turning the ignition On. When testing your system remember the bypass circuitry can cause zones to appear to stop working. If five chips are heard when disarming, NPC has engaged. If you wish to clear the memory, turn the ignition key on.

## Diagnostics

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The microprocessor at the heart of your system is constantly monitoring the switches and sensors connected to it. It detects any faulty switches and sensors and prevents them from disabling the entire system. The microprocessor also records and reports any triggers that occurred during your absence.

### Arming diagnostics

If the system is armed with an input active (door open, sensor triggering, etc.) the unit will chirp once when arming and then one more time a few seconds later. This is called bypass notification.

**Note:** Bypass notification will not occur if chirps have been programmed OFF.

The system will ignore the input that was active when it was armed until the input is no longer active. Three seconds later it will monitor that input normally. For example, if your car has interior light exit delay, and you arm the system before the interior light goes out, you may get bypass notification. Once the light goes out, however, the doors are monitored normally.

### Disarming diagnostics

Extra disarm chirps are the tamper alert. If four chirps are heard when disarming, the system was triggered in your absence. If five chirps are heard, a zone was triggered so many times that NPC has bypassed that zone. In either case, the status LED will indicate which zone was involved (see Table of Zones section). The system will retain this information in its memory, and chirp four or five times each time it is disarmed, until the next time the ignition key is turned on.

## Table of zones

The number of LED flashes the system uses to identify inputs is represented by a Zone. The standard Input assignments for zones are described below.

<b>Zone/LED Flashes</b>	<b>Input description</b>
<b>1</b>	Instant trigger - often used for hood/trunk pin switches
<b>2</b>	Instant trigger - a heavier impact detected by the shock sensor
<b>3</b>	Door switch trigger
<b>4</b>	Optional sensor
<b>5</b>	Ignition trigger

The LED will not report if the Warn Away response is triggered.

## Rapid resume logic

This system will store its current state to non-volatile memory. If power is lost and then reconnected the system will recall the stored state from memory. This means if the unit is in Valet Mode and the battery is disconnected for any reason, such as servicing the car, when the battery is reconnected the unit will still be in Valet Mode. This applies to all states of the system including arm, disarm, and Valet Mode.

## Programming options

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Programming options control your system's normal, operational set-up. Most options do not require additional parts, but some may require additional labor. All programming options must be set by your installer.

### Programming settings

The following is a list of the program settings that can be set by your installer.

**Note:** Factory default setting is shown in **bold**.

1. **Active** or passive arming (automatic arming 30-seconds after closing the last door).
2. Arming/disarming confirmation chirps **on** or off.
3. Door Trigger Error Chirp **on** or off.
4. Ignition-controlled dome light **on** or off.
5. Panic/**Auxiliary Channel**: This unit has the ability to control an optional accessory by pressing the door lock button twice. If the auxiliary feature is activated and optional accessories are not installed, the system will not respond to pressing the lock button twice. In panic mode pressing the lock button twice will activate panic mode.
6. **Auxiliary Output** or Delayed Auxiliary Output.

7. Door Trigger **delayed** or instant: In the **delayed** configuration the unit will provide a progressive response if the door is opened while the system is armed. The system will chirp and the parking lights will flash for a few seconds followed by a full trigger response when the door is opened. In the instant mode, the system will trigger the full trigger response.
8. Sensor shunt zones **2** and **4** or All zones.
9. Siren duration - **30** seconds or 60 seconds.
10. Valet Pulse Count: The number of pulses of the Valet switch required to disarm the security system are programmable from one to five pulses. The default setting is **one pulse**.
11. Horn pulse duration.

**Note:** The horn is optional and may require additional labor.



## Glossary of terms

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**Control Module:** The brain of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the alarm's functions.

**Failsafe® Starter Kill** (if equipped): An automatic switch controlled by the security system which prevents the vehicle's starter from cranking whenever the system is armed. The vehicle is never prevented from cranking when the system is disarmed, in Valet<sup>®</sup> Mode, or should the starter kill switch itself fail. Your system is ready for this feature, however installation of this feature may require additional labor.

**Input:** Any physical connection to the security system. An input can be provided through a sensor, pinswitch or by existing systems in the vehicle, such as ignition or courtesy lights.

**LED:** The LED indicates the status of your system. It is also used to report triggers and faults in the system or sensors.

**Valet Switch:** A small push-button switch mounted somewhere in the vehicle. The switch is used to override the alarm when a transmitter is lost or damaged, or to put it into Valet Mode.

**Warn Away Response:** Light impacts to the vehicle generate the Warn Away Response, which consists of several seconds of siren chirps and flashing parking lights.

**Zone:** A zone is a separate input that the alarm can recognize as unique. Each input to the system is connected to a particular zone. Often, two or more inputs may share the same zone such as hood and trunk if connected.







## ✂ QUICK REFERENCE GUIDE

Cut along dotted line and fold for a quick and easy reference to keep in your purse or wallet.

### To arm the system

- You can arm the system by locking the doors with your factory keyless entry transmitter. When the system arms, you will hear a short siren chirp, and see the parking lights flash once.

### To disarm the system

- To disarm the system, unlock the doors using your factory keyless transmitter. You will hear two siren chirps, and the parking lights will flash twice. If the siren chirps more than twice when disarming, your system may have triggered while you were away. See Table of Zones information on back.

### Disarming without a transmitter

- Turn on the ignition. **Press** and **Release** the Valet switch the programmed number of times within 10 seconds. Default is 1. Possible settings are from 1 to 5. The system should now disarm. If it does not, you may have waited too long. Turn the ignition off and on and try again.

### To enter or exit Valet Mode

- Turn ignition to “run” position, then turn to “off” position. **Press** and **Release** the Valet switch within 10 seconds. The status LED will light solid if you are entering Valet Mode, and it will go out if you are exiting Valet Mode.

**Note:** System must be disarmed to enter Valet mode.

### Remote Valet®

- Open any door. **Press** the lock button on your transmitter. Within one second, **Press** the unlock button on your transmitter. Within one second, **Press** the lock button on your transmitter again. The status LED will stay on if you have entered Valet Mode, and it will go out when exiting Valet Mode.

### Table of Zones

<b>Zone/LED Flashes</b>	<b>Input description</b>
<b>1</b>	Instant trigger - often used for hood/trunk pin switches
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<b>4</b>	Optional sensor
<b>5</b>	Ignition trigger

The IED will not report if the Warn Away response is triggered.



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The company behind this system is Directed Electronics.

Since its inception, Directed Electronics has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology, DIRECTED is ISO 9001 registered.

Quality Directed Electronics products are sold and serviced throughout North America and around the world.

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