

# VIPER<sup>®</sup>

**NO ONE DARES  
COME CLOSE™**



**OWNER'S GUIDE  
& INSTALL GUIDE**

**MODEL  
3121V**

# **Table of Contents**

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Congratulations .....	1
Standard Remote Configuration .....	2
2-Button Transmitter .....	2
Remote Learning .....	2
Arming .....	3
Disarming .....	4
Aux .....	5
Auto Re-Arming .....	5
Panic .....	5
Anti Motorcycle-Jacking .....	6
Emergency Override .....	6
Pin Number Setting .....	7
Valet Mode .....	7
Memory Function .....	8
Feature Settings .....	8
Power Saving (Sleep) Mode .....	11
System Maintenance .....	12
Battery Replacement .....	12
Battery Disposal .....	12
Installation Guide .....	13
Government Regulations .....	17
Limited Lifetime Consumer Warranty .....	19











## **Congratulations**

Congratulations on the purchase of your state-of-the-art Power Sports Alarm System. Reading this Installer and Owner's Guide prior to using your system will help maximize the use of its many features. For more information please visit us online (see back cover for URL). For any additional questions please contact your authorized Directed dealer or Directed at 1-800-753-0600. Additional support is also available at: <http://support.directed.com>.

**Note:** This system is equipped with a sleep mode to lower current draw. After 96 hours of no activity, the system's sleep mode turns on and RF communication shuts down. If your system is not responding to remotes, you may need to cycle ignition to wake the unit up before remotes will control the system again.



## Standard Remote Configuration

Function	Button	Action
Arm		Press and release
Disarm		Press and release
Panic		Press and hold (any system state)
Aux Output	 + 	Press and release (any system state)
Tilt bypass		Press and release within 5 seconds of arming system
All Sensor Bypass		Press and release 2 times within 5 seconds of arming system
Anti-Jacking (On & Off)		Press and hold (ignition on & system disarmed)
Valet mode	 + 	Cycle ignition on & off twice, then press and release

## 2-Button Transmitter

### Remote Learning

In case the remote is lost, or you want to add another remote (up to 4 max), perform the following procedure:


1. With the system disarmed, **turn** the ignition ON & OFF 5 times within 15 seconds, and **stay** in the ON position on the fifth time you turn the ignition ON. 3 seconds later the Siren will chirp 3 times to indicate the system entered remote learning mode.
2. **Press** any button on the remote. The siren will chirp the number of times corresponding to the sequence of the remote location in the system. For example, the first remote learned

to the system will chirp once, the second two times, and so on, until a total of 4 remotes are learned to the system.

3. Up to 4 remotes can be learned to the system. If you want to learn a 5th remote, the 1st remote will be cleared from the system, and when you learn a 6th remote, the 2nd remote will be cleared, and so on.
4. To exit learn mode – The system will exit learn mode automatically after 8 seconds or you can manually exit learn mode by turning the ignition OFF. The siren will emit one long chirp to indicate that learn mode has been exited.

**Note:** If your remote is lost or stolen, you can clear old remotes from the system by simply learning the remaining remotes up to 4 times.

## Arming

With the system disarmed and the ignition OFF, **press** the  button once. The siren will chirp once, parking lights will flash once, and LED will flash quickly. After 8 seconds, the system will fully arm, and LED will flash slowly and engine will be disabled and all trigger zones will be active.

## Ignition Trigger


In armed mode, if the ignition is turned on, the system will be triggered and the siren will sound, and the parking lights will flash 30 seconds. The system will repeat this 30 second-cycle of siren and parking light flashes until the ignition is turned OFF. After the ignition is turned to OFF, the system will complete the current 30 second cycle before the siren and parking lights stop.

## Tilt/Shock Sensor Trigger

1. Sensitivity for Tilt/Shock sensors are adjustable, see FUNCTION SELECT MENU 1&2.
2. If the motorcycle is tilted/moved:
  - **If the system is in Sleep mode:** At first, the siren will chirp and parking lights will flash 10 times, then the siren will sound continuously for 30 seconds with parking light flashes.
  - **If the system is in Wake mode:** The siren and parking lights will trigger continuously for 30 seconds.

**Note:** Any alarm zone can be triggered up to 8 times per arming cycle.


## Arming and Bypassing Tilt Sensor

After arming the system, **press**  once within 5 seconds. The system will emit one long chirp to indicate that the Tilt sensor is bypassed. In this mode, the LED will flash twice every 2 seconds.

## Arming and Bypassing Tilt and Shock Sensor

After arming the system, **press**  twice within 5 seconds, The system will emit one long chirp to indicate that the Tilt sensor is bypassed and then will chirp three more times to indicate that shock sensor is also bypassed. In this mode, the LED will flash twice every 2 seconds.

## Disarming

In armed mode, **press**  once. The siren will chirp twice, the parking lights will flash twice, and the system will be disarmed.

If the alarm was triggered during armed mode, the siren will chirp 4 times when disarming. The parking lights will flash a number of





times to indicate the last zone that was triggered when the system was armed.

## Table of Zones

Parking Light Flash	System Triggered Zone
4 times	Tilt/Shock sensor triggered
5 times	Instant triggered
6 times	Loop wire triggered
7 times	Ignition triggered

## Aux


**Press** and **release**  and . An optional auxiliary function, such as lighting or radio turn on, can be controlled by pressing these buttons. By default, the aux channel sends a 1-second pulse on the aux wire. This can change to a latched output that stays on when the command is sent, and then turns off when the command is sent again.

## Auto Re-Arming

**Note:** This is an optional feature that needs to be turned on. See "Feature Settings" on page 8 for more information.

After disarming and no ignition activity, the system will re-arm after 60 seconds. During the 60 second countdown, the LED will flash quickly. When the system re-arms, the siren will chirp and the parking lights will flash once.



## Panic

If you are threatened near your motorcycle, you can attract attention by triggering the system with your transmitter. Just **press**  for 2 seconds to enter panic mode. The siren will sound for 10

second, and the parking lights will flash for 10 seconds. **Press**  to stop panic.

## Anti Motorcycle-Jacking

**Note:** This is an optional feature that needs to be turned on. See "Feature Settings" on page 8 for more information.

1. With the ignition ON, **press** and **hold**  for 2 seconds. The LED will flash quickly indicating that motorcycle-jacking mode is activated. The siren will chirp once every 3 seconds. After chirping 5 times, the siren will chirp once every 1.5 second. After chirping 8 times, the siren will sound continuously; the parking lights will continuously flash and the engine will be disabled. (**Press** and **hold**  for 2 seconds to exit motorcycle-jacking mode). During anti motorcycle-jacking mode, the siren will long chirp, when the key turns to OFF, the siren will stop, and the parking lights will stop flashing as long as the ignition turns OFF. If key has been turned to ON again, the siren will sound and engine will not be able to start.
2. To exit anti motorcycle jacking: EMERGENCY OVERRIDE.

## Emergency Override

In armed mode or motorcycle-jacking mode, if the remote is not working or lost, refer to following step for Emergency Override:

1. **Turn** the ignition to ON/OFF 5 times within 10 second and stay in ON position on the fifth turn on. The LED will turn solid for 2 seconds.
2. Once the LED turns OFF, **turn** the ignition OFF, and the LED will start flashing.
3. Once the LED flashes the number of times corresponding to the digit of your PIN code, **turn** the ignition ON. The Siren will chirp 4 times, and the parking lights will flash 7 times to indicate the system is disarmed.



## Pin Number Setting

### Factory Preset Pin Number: 1 (Led Blinks One Time)

In disarming mode, **turn** ignition ON/OFF 8 times within 15 second, and end in ON position on the eighth time. The LED will stay solid for 2 seconds, then the system enters into PIN setting mode:

1. **Confirm the original (preset) PIN Number**  
Turn the ignition OFF within 10 second, LED will start blinking slowly to confirm the preset PIN Number. **Turn** the ignition ON once the LED blinks the number of times corresponding to the original preset PIN number. If correct, the siren will chirp once (if siren does not chirp, it means the preset PIN number confirmation failed. Start the process over again if this happens);
2. **Input the new PIN NUMBER**  
Right after the siren chirp once, **turn** the ignition Off, and the system enters into new PIN number setting, and LED starts to flash. When the LED flashes the number of times wanted for the new PIN number, **turn** the ignition ON then OFF. The LED will flash the new PIN number once, and then exit PIN NUMBER setting mode.





### Exit Pin Number Setting

If no operation is performed or the wrong initial password was entered within 30 seconds, the system will exit PIN NUMBER setting mode.

## Valet Mode

You can prevent your security system from automatically arming by using valet mode, this is very useful when washing the motorcycle, for example. In valet mode, the security system will not arm, even with the transmitter, but any accessory functions will continue to work normally.

## Enter Valet Mode






**Turn** the ignition ON and then OFF 2 times, and **press** and **hold**  and  within 5 seconds. The siren will chirp once, and the system will enter valet mode. In valet mode, the LED will stay on solid for 1 hour, and then will shut off to reduce current draw. In valet mode if you press the  button, the siren will chirp 3 times. Once the 1-hour solid LED cycle ends, the LED will also flash 3 times when the  button is pressed.


**Note:** Use the same method to exit valet mode.

## Memory Function

This security system will store its current status to non-volatile memory. If power is lost then reconnected, the system will recall the stored status from memory. This means if the unit is in valet mode and the battery is disconnected for any reason, such as servicing the motorcycle, when the battery is reconnected the unit will still be in valet mode. This applies to all statuses of the system including disarm, and valet mode. If the system is armed and the battery is reconnected, the system will trigger.

## Feature Settings

1. With system disarmed, **turn** the ignition to ON, and **press** and **hold**  and . Within 5 seconds siren will chirp once, LED will flash once per second to indicate system entered feature settings.
2. **Press**  once, siren will chirp once to indicate unit entered feature number 1. **Press**  twice, siren will chirp twice to indicate unit entered feature number 2. **Press**  three times, and siren will chirp three times to indicate unit entered feature number 3.

3. After unit has entered the proper feature number you want to change, **press** the  button toggle through the options. The siren chirps according to its current setting.
4. **Turn** the ignition OFF to exit feature settings. The siren will emit one long chirp.
5. Inside the menu setting, if without any operation within 10 seconds, the siren will emit one long chirp and exit feature settings.



No.	Feature Name	Default Setting	Number of Siren Chirps							
			1	2	3	4	5	6	7	8
1	AUTO REARMING	OFF	ON	OFF						
2	ANTI MOTORCYCLE-JACKING	OFF	OFF	ON						
3	Tilt SENSOR sensitivity	5(°)	1(°)	5(°)	15(°)	30(°)				
4	Silent/chirp mode	Chirp mode	Silent mode	Chirp mode						
5	Siren (+) / Horn (-) output	Positive	Positive	Negative						
6	Flash lamp arm/disarm	ON	ON	OFF						
7	Shock Sensitivity	LEVEL 3	1	2	3	4	5	6	7	8
8	Aux Output	Momentary Output	Momentary Output	Latched Output	Latched Reset w/IGN					
9	Reset all to Default		ON							

## Power Saving (Sleep) Mode

- After 24 hours in the armed status, the LED will flash at a slower rate at once every 4 seconds, and after 48 hours, it will flash once every 8 seconds.
- After 96 hours of no activity (arm or alarm trigger) the alarm enters sleep mode. The alarm receiver and LED turn off to save as much battery power as possible. The system is drawing next to no current in this mode. Cycling the ignition will wake the unit up.
- If any other input is activated when in sleep mode, the system will wake up, and the siren will chirp 10 times.

**Note:** This system is equipped with a sleep mode to lower current draw. After 96 hours of no activity, the system's sleep mode turns on and RF communication shuts down. If your system is not responding to remotes, you may need to cycle ignition to wake the unit up before remotes will control the system again.

## System Maintenance

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This system needs no specific maintenance beyond remote control battery replacement. The remote is powered by one 3V CR2032 battery.

### Battery Replacement

1. Using a small slotted (flat-head) screwdriver, **insert** into the slot located along the edge of the remote control and carefully **pry** the unit open.
2. **Turn** unit over and carefully **remove** rear housing. **Remove** the battery from holder and **replace** with a new one.
3. **Reassemble** all parts and snap together.

**Note:** Verify that the battery polarity is correct when replacing.

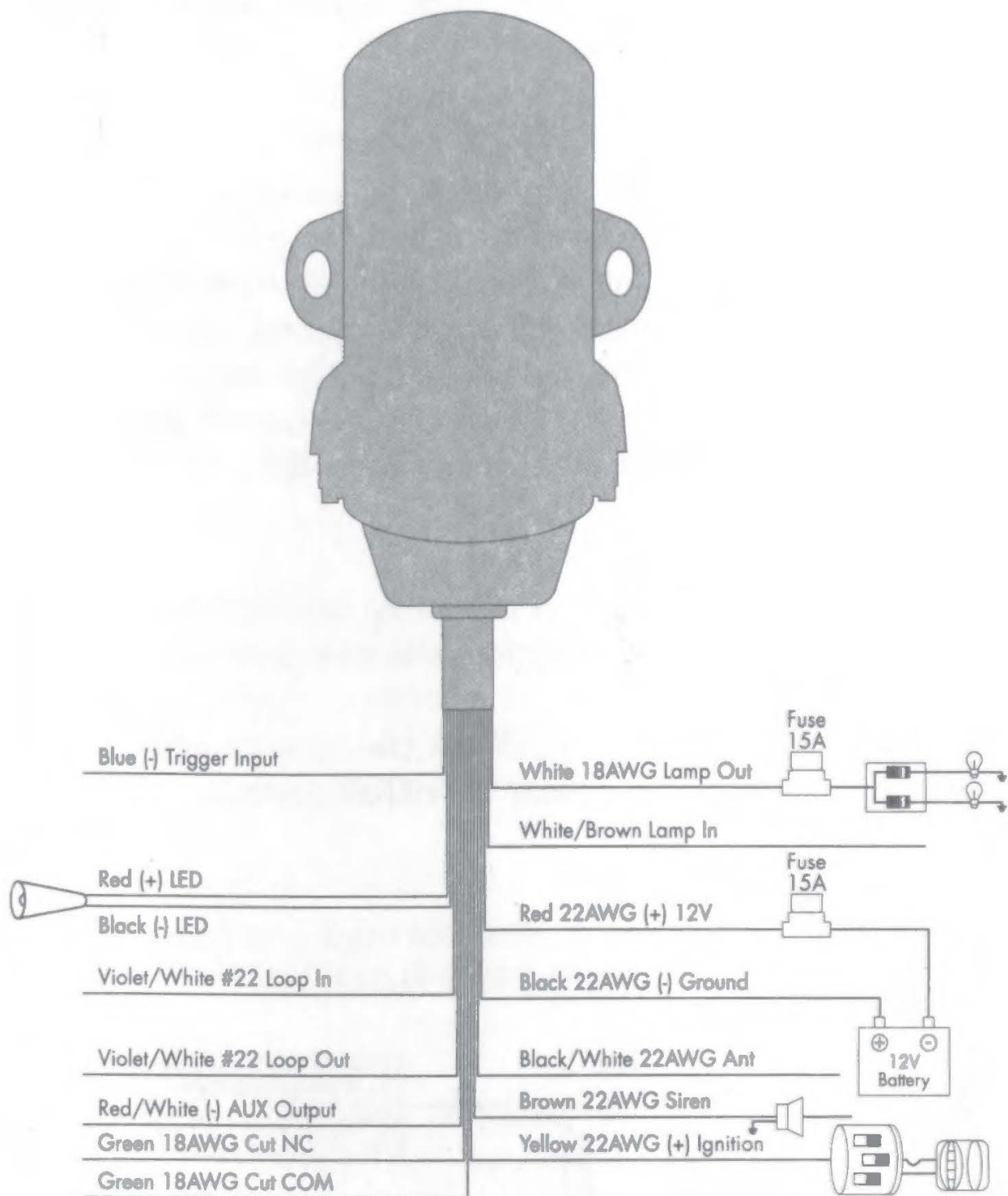
### Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal.



# Installation Guide



### Blue (-) Trigger Input

This input wire can be used as an instant trigger input for use with optional single zone sensors.

### Violet/White Closed Loop

This wire can be used to protect a part of the vehicle where a trigger is desired when the wires of the connection are not in contact, rather than in contact. This closed loop connection is useful for protecting parts like saddlebags, luggage carriers, etc. that could be easily removed from the vehicle. Connect this wire through the object being protected. Then, if the contact is broken on this wire when the system is armed, the alarm will sound.

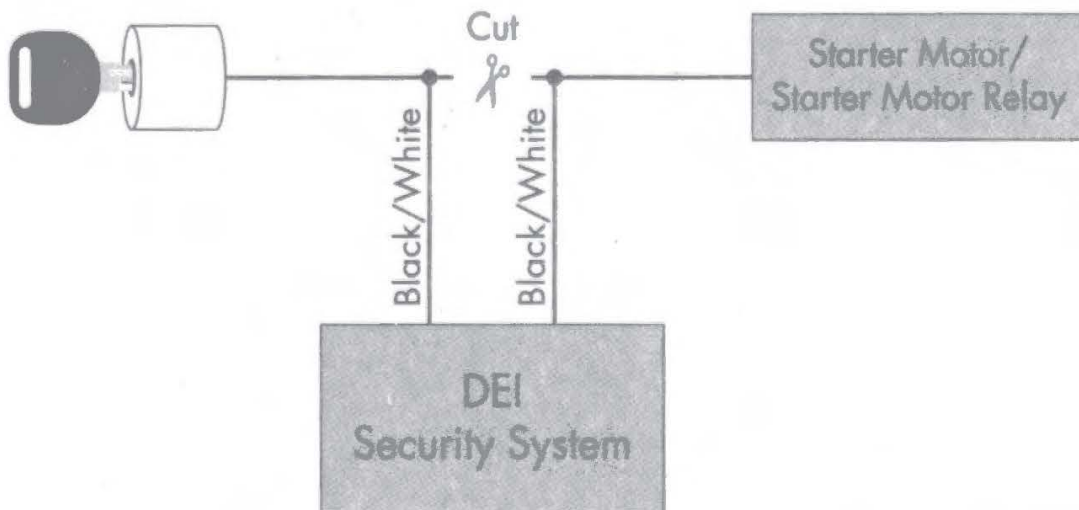
### Red/White (-) AUX Output

This (-) 200mA output is used for controlling any Auxiliary function. This output can be programmed for pulse or latch output.

**Important!** Never connect the 200mA low current outputs directly to a motor or high current device **WITHOUT** a relay.

### Green Wires (Starter Disable)

Use one of these wires as a starter kill input and the other as a starter kill output (these wires are interchangeable).



## White Parking Light

This wire should be connected to the parking lights wire in the vehicle. It activates when the system is armed/disarmed, and when the alarm is triggered. It can be set for a (-) or (+) output. See the White/Brown parking light input wire for setting light flash polarity.

## White/Brown Parking Light Input

This wire is used to select (+) or (-) parking light output:

- **(+) parking light:** Connect this wire to constant 12V from the vehicle
- **(-) parking light:** Connect this wire to chassis ground from the vehicle

## Red (+) 12V Constant

This wire supplies power to the unit's micro-controller. Remove the supplied fuse before connecting to the (+) terminal of the battery or another constant (+) 12V supply. Make sure to replace the fuse when all connections have been made.

**Note:** Always use a fuse within 12 inches of the point from which you obtain (+) 12V. Do not use the 5A fuse in the harness for this purpose. This fuse protects the module only.

## Black (-) Ground

This wire is the unit's source of ground. **Do NOT** connect this wire to any factory ground points; they can cause noise and/or voltage drops which can affect system performance. Ground the unit and any accessories to the same point in the vehicle (preferably the kick panel). Scrape away any paint and make your own ground with a screw and a star washer.



### **Black/White Antenna**

This wire is the antenna for the control module to receive commands from the transmitter. **Do NOT** cut this wire.

**Note:** The antenna wire should not be bundled with the other harness wires as this will reduce the effective range of the transmitter. Keep the antenna wire as straight and horizontal as possible. Also, keep the antenna wire as far away as possible from metal.

### **Brown Siren (+) or Horn (-)**

- **Siren (+):** If using the siren supplied with the system, connect this wire to the Red wire of the siren. The siren's black wire should be connected to chassis ground.
- **Horn (-):** This wire supplies a (-) 200mA output which can be used to honk the vehicle's horn. This wire outputs pulses during arm/disarm and when the alarm has been triggered.

**Note:** By default, this wire is (+) siren output. To change to (-) output for horn, change feature No. 5 to Negative

### **Yellow (+) Ignition**

Connect this wire to an ignition wire. This wire must show (+) 12V with the key in the run position and during cranking. Make sure that this wire cannot be shorted to the chassis at any point

## **Government Regulations**

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

### **Remote Controls**

To satisfy FCC RF exposure compliance requirements, this device should be used in hand-held, hand operated configurations only. The device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance. This device is designed to be used in a person's hands and its operating configurations do not support normal transmissions while it is carried in pockets or holsters next to a person's body.

### **Control Center**

To satisfy FCC RF exposure compliance requirements, the device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

**WARNING!** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.



## **Limited Lifetime Consumer Warranty**

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 during the lifetime of the vehicle provided the following 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 dealers 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 components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND 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. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLIGENCE, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.



This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: [www.directed.com](http://www.directed.com).

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.

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# DIRECTED.

The company behind Viper<sup>®</sup> Auto Security Systems is Directed.

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology.

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

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Vista, CA 92081  
[www.directed.com](http://www.directed.com)

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