

# Uniden



NO MORE FALSING

# GPSRD

OWNER'S MANUAL



DIGITAL  
NAVIGATOR

UTILIZES MILITARY SATELLITE TECHNOLOGY

Uniden's GPSRD radar detector provides patented artificial intelligence technology which calculates your driving patterns to eliminate falsing.

GLOBAL POSITIONING SYSTEM AND 360° LASER DETECTOR

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# Precautions

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**Important:** *The GPSRD was not designed to help you disobey the law. Safe drivers always obey the posted speed limit and legal driving methods at all times.*

## Federal and Local Regulations

The FCC passed the Communications Act in 1934 to give all citizens the right to receive any type of radio transmission. The same radio frequencies used by police radar are also used by other devices, such as automatic door openers, burglar alarms, and some amateur radio equipment. Since the GPSRD is just a radio receiver tuned to a specific portion of the public radio spectrum, it is protected under this act.

Some local, state, and federal regulations may prohibit the use of this detection device. Please check with authorities regarding the use of this device before operating it.

Since the GPSRD determines its positioning from GPS (Global Positioning System), a navigational positioning system whose operation is controlled by the Department of Defense (USA), its performance may be limited by the operational conditions controlled.

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## Operation Notice Safety Warning Systems

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You have purchased the newest technology designed for Radar, Laser and Safety Warning System detection and alert. You should be aware that Safety Warning transmitters (the device that alerts your detector for safety warning alerts) will be available for use throughout the United States. However, these transmitters may not be used in all areas.

While this detector is designed to warn you of road hazards, it is not designed as a substitute for safe, attentive driving procedures. Drivers are reminded to remain alert for road hazards at all times.

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# Operation Notice of GPS

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GPS signal reception can be affected by the location of satellites, tall buildings, tunnels, bridges, etc. If the GPSRD is not receiving a signal, you will need to change your location until a signal is received.

The GPSRD will only receive satellite broadcasts from satellites that have an elevation above the horizon of 5 degrees or more.

For optimal GPS signal reception the GPSRD should be mounted on the lower part of the windshield.

The latitude, longitude, and altitude indications on the display are based on WGS-84 Datum, and usable in North America and Canada only. These indications may not be accurate in other areas, and the altitude indication may not appear even in North America and Canada depending on the signal conditions from GPS satellites.

## GPS Warnings

- \* For safety reasons it is not recommended that the driver change any settings while in motion. Please come to a complete stop or have a passenger make changes if necessary.
- \* The Global Positioning System is operated and maintained by the US Government. The US Government is completely responsible for the accuracy of the Global Positioning System.
- \* The US Government reserves the right to make changes to the Global Positioning System in accordance with the Department of Defense civil GPS user policy and the Federal Radionavigation plan. These changes along with poor satellite geometry could cause inaccurate readings.
- \* This device is excellent for navigation, however it does not replace the need for good judgment and common sense.
- \* All information provided is for reference only. The user assumes all responsibility and risks when operating this product.

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# Introduction

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Welcome to the world of sophisticated, early warning laser/radar detection with GPS (Global Positioning System). You have purchased one of the most advanced laser/radar detectors available. The GPSRD is a completely integrated laser/radar detector. It responds to the X, K, and Ka band radar in use today and also provides 360° detection of the latest speed monitoring system – the laser gun. And the built-in Safety Warning System (SWS™) is capable of detecting hazardous warning signals transmitted on the K-band.

The GPSRD provides distinct visual and audio alerts to warn you of the presence of X, K, and Ka band radar signals as well as IR laser signals.

The GPSRD uses the new D.R.O. (Dielectric Resonant Oscillator) and E.D.I.T. (Electronic Data Interference Terminator) circuitry, giving more reliable performance.

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## GPS Features/Descriptions

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### ■ *Anti-Falling Database*

- a) Learning: Detects false alarm signals emitted from the door sensors of buildings then stores their frequencies and the location of these signals.
- b) False alarm prevention: Deactivates its beep alert if it receives signals having the same frequencies and locations as those that are stored in memory.

The above learning and false alarm prevention are performed automatically, and as a result, a great number of false alarms are eliminated. Alarms will still occur under the following circumstances:

- When receiving different frequency signals other than the ones stored in memory.
- When receiving signals stronger than the level set in the menu function. (See “False Area” on page 21)

Frequencies and locations stored in memory can be deleted by

the following methods:

- When no driving is made in the same area for 1~2 months after learning.
- When no interference signal of the same frequency exists for 1~2 months after learning.
- User deletes stored information manually.

**Note:** *A maximum of 5,000 locations can be stored in memory. Once the memory is full the oldest data will be deleted to make space for the new data collection.*

### ■ **Trap key**

Pressing the Trap key will store the present location for an automatic alert. This feature can be used to mark common speed trap locations for advanced notice.

### ■ **Alert Key**

Pressing the Alert key will cancel a stored location caused by actual police radar use. Press the Alert key when an actual police gun is in use so that the location will not be stored as a falsing location.

### ■ **Navigation Feature**

Navigational information such as time to go, latitude, longitude, altitude, and a directional arrow for your destination will be shown on the 8 digit LED display. For details regarding the navigation feature, refer to page 15.

### ■ **Preprogrammed City Database**

Over 1,200 city coordinates are preprogrammed for user selection. Simply choose your destination and the GPSRD will show you the direction, time to go, average speed, etc. while traveling to the city of choice.

We are certain that you will enjoy the GPSRD, and to ensure that you get the most from its features, please read this Operating Guide carefully before installing and operating the unit.

## **Feature Highlights**

### ***GPS Features***

- Latitude & Longitude Display
- Elevation Display
- Top Speed Display
- Preprogrammed City Coordinates
- Electronic Compass
- Direction to Destination Arrow
- Average Speed Display
- Travel Timer
- Distance to Go

### ***Radar Features***

- 360° Laser Detection
- Anti-Falsing Database
- L2/L3™ Detection
- X, K, Ka Superwide Band Detection
- SWS™ Alert
- Auto Memory Retention Mode
- Mute Mode
- Text Message Readout
- City/Highway Modes
- Audio Only Mode

### ***Other Features***

- Language display changeable (English/Spanish/French)
- Unit display changeable (mile-feet/km-m)

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# Speed Detection Systems

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A speed detection device (often called a radar gun) sends out either a microwave signal or beam of light. When this signal reaches its target, part of the signal is reflected or bounced back toward the emitting gun. The time required for the signal to leave the gun, bounce off an object, and return is used to determine a vehicle's distance and speed.

## Radar

Radar (Radio Detection and Ranging) is a microwave system for detecting the speed of moving objects by reflected pulses of high frequency radio waves. There are three radar bands (microwave frequencies): X-band (10.49 to 10.56GHz), K-band (24.04 to 24.26 GHz), and Ka-band (34.4 GHz to 34.8 GHz).

The X-band was the first used for traffic, followed by the K-band which is harder to detect (most instant-on radar is K-band). The Ka-band was introduced in 1987. The GPSRD monitors all current radar bands including laser.

The radar beam is cone shaped – the narrower the beam, the greater the resolution. A moving vehicle reflects radar signals back towards the radar gun. The GPSRD can detect the signals emitted by radar guns, and it will sound an audio alarm and flash a warning indicator.

For continuously transmitting radar, use the GPSRD to get accurate detection from a safe distance. Weak signals cause the audio and visual alarms to sound intermittently, but as the signal gets stronger (the closer you get to the radar gun), both alarms increase in intensity.

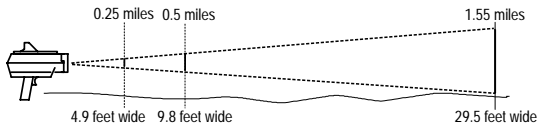
Instant-on transmitters fire a short radar pulse beam at a vehicle. When detected at a distance, you will hear a few beeps and see the strength meter begin to light. Instant-On radar signals are the most difficult to detect at a safe distance because they are transmitted only when directed at you or at a vehicle directly ahead of you.



## Laser

The Laser Speed Detection System, also called LIDAR (for Light Detection and Ranging), uses a laser gun that emits infrared light pulses just outside the spectrum of visible light. Each reflected pulse measures the speed of the object coming toward, or going away from, the laser gun.

Unlike radar, the laser gun emits a very narrow beam of light, so it can pinpoint a speeding car within traffic. The infrared beam spreads out, but slowly and over a longer distance than a radar signal.



The laser gun can acquire a speed reading as quickly as 0.3 seconds, sometimes less. However, since it isn't easy to accurately aim at and hit a moving target, an operator often moves the laser gun in several directions to get a reading. So laser signals are emitted continuously for a few seconds for each speed measurement. The GPSRD can detect these light pulses from as far away as 1.55 miles, which is about four times the effective range of a laser gun (0.39 miles), and about ten times its average operating range (0.09-0.16 miles).

**Note:** *To be safe, do not ignore any warnings. Although there are other types of radar signals that may cause interference, when the GPSRD detects a signal, be on the alert. It is important to exercise caution at all times.*

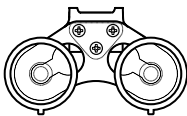
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# Included with Your Radar Detector

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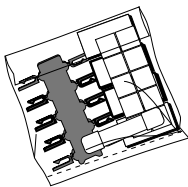
Owner's Guide



Windshield Mounting Clip



Printed Material



Extra Fuse and  
Mounting Accessories



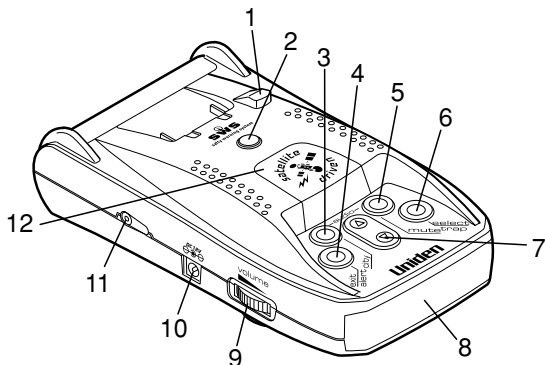
Coiled Cigarette Lighter Cord

If any of these items are missing or damaged, contact your dealer immediately. Be sure to complete and mail the Product Registration Card.

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# Controls and Functions

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1. **360° Laser Detection Lenses** – For 360° detection of laser signals.
2. **Clip Release** – Press the clip release button to set or remove the GPSRD from the windshield mounting clip.
3. **CITY Key** – With each press, the level to cut out weak signals changes from 0 (min) to 4 (max). The level is set at 0 (Highway) initially and it is used to help reduce false alarms while driving in the city.
4. **EXIT/ALERT Key** – Press this key to leave portions of the programming menu.
5. **MUTE Key** – Press this key to set the audio mute feature on/off. The detector sounds different alert tones according to the mute mode setting.
6. **SELECT/TRAP Key** – Press this key when using the programming menu to choose your selection. Pressing this key will also store commonly used areas for speed traps. Once you have marked a location as a speed trap, the GPSRD will alert you every time you drive near this marked area.

7. ▲ / ▼ Key – Press these keys to toggle through the programming menu to view choices.
8. LED Display – LED displays LASER/RADAR alerts, signal strength, operation mode, and GPS information such as direction, distance, etc.
9. On-Off/Volume Control – Turns the power on (with a click) and adjusts the audio alert volume.
10. 12V DC Power Input – Connect the DC power cord here. Use only a Uniden® supplied power cord or its replacement.
11. Speaker – Sounds audio alerts. There are different alert tones which distinguish each type of signal received.
12. GPS Antenna Window – Under this window is the GPS antenna.

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# Installation

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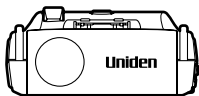
The GPSRD uses a highly sensitive horn-type antenna and IR laser sensor to receive radar/laser signals. Its sensitivity and range depend on the method of installation and the direction of the antenna/sensor in relation to the signal source. The inherent nature of radar waves makes them reflect off metallic surfaces. This is why these waves are so useful for measuring the speed of a vehicle. The IR laser light may reflect only from shiny surfaces. Both radar waves and IR laser light will, however, pass through plastic or glass.

Before you decide where to put your radar detector, please keep in mind these three important factors:

- For safety, do not mount the GPSRD in a location where it will obstruct your driving vision.
- Most vehicles have the top part of the windshield tinted. Mounting the GPSRD behind tinted or mirrored glass may reduce the effectiveness of laser detection by reducing the amount of laser light received by the detector.
- Do not mount the GPSRD in the path of an airbag.

## Helpful Tips

The antenna and the forward looking sensor are located behind the rear panel of the unit, (and the rear- and side-looking sensors are located on top of the unit), directly behind the



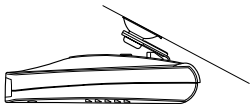
mode selection keys. The antenna and sensors should not be obstructed by metal or metallic surfaces and should be pointed at the horizon for accurate long-range detection.

- Do not mount the unit behind the windshield wiper blades, radio antenna, tinted glass area, or mirrored glass. Be sure the unit is free from obstruction by seat backs, rear view mirror, sun visors, or the ceiling of the automobile.
- Do not mount the unit in front of the heater or defroster vents.
- Make sure that the GPS antenna window has a clear view of the sky.

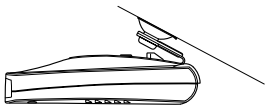
- Do not leave the unit in direct sunlight or in the glove compartment of a closed car for long periods of time, as extreme changes in temperature may cause internal damage. Also, removing the unit from the windshield makes you less susceptible to break-in and theft.

## Adjusting the Windshield Mounting Clip

1. The metal portion of the bracket locks into the plastic portion at three different positions. These positions can be used for vehicles with different vertical windshield angles. The back position can be used for vehicles with windshields that are slanted back.



2. For optimum laser detection, bend the angled portion of the windshield mounting bracket so that the GPSRD is parallel to the road surface. Be sure the GPSRD is mounted so it is free of obstructions from seat backs, rear view mirror, sun visors, or the ceiling of the automobile. There must be a clear 360° line of sight to the outside of the vehicle.



To mount the GPSRD:

1. Insert the windshield clip into the GPSRD.
2. Place the bracket and the GPSRD in the proper location on the windshield of your vehicle, and press the suction cups firmly against the windshield.

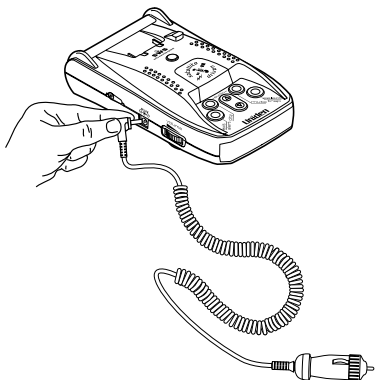
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# Connecting the Power

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## Using the Cigarette Lighter Adapter

A coiled power cord provided with the unit has a cigarette lighter socket plug at one end and a small connector at the other.



1. Insert the small connector into the **12V DC** power input on the side of the unit.
2. Insert the other end into the cigarette lighter socket of your vehicle.

When installing the power cord, make sure that:

- The socket is clean to allow proper contact.
- The power cord does not block the antenna area.

Your unit also comes with ten power cord mounting clips. You can use these clips to attach the power cord to the window frame or other parts of the vehicle, keeping it neat and out of the way. Use the double-sided foam tape squares to attach each clip. Slip the power cord into the clip to hold it securely in place.

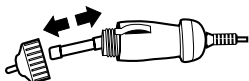
## Replacing the Fuse

The cigarette lighter plug contains a 1-ampere fuse to protect it from power surges.

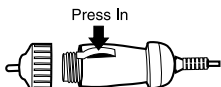
1. To replace the fuse, unscrew the top of the plug.



2. Remove the fuse and replace it with the same type.



3. To replace the top, push in on the two metal contacts and twist into place.



**Note:** *Your GPSRD comes with an extra fuse.*



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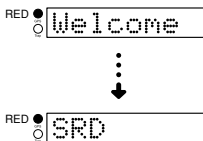
# Operation

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You are now ready to enjoy the convenience and security of your GPSRD. Please read this section of the Operating Guide carefully to familiarize yourself with the basic operation of this unit.

## Power On

Turn the Volume Control knob to turn power on. The GPSRD is set to Demo mode and it performs a series of self-tests on its radar detection displays and alert tones. After the self-tests of X, K, Ka, Laser, L2, L3, VG2, and SWS, the display shows “Welcome to Uniden GPSRD” scrolling as follows.



When all the characters on the display have been scrolled through after the self-tests, the detector sets the modes that were used last.

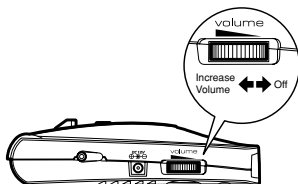
The display will then scroll, (searching for satellite). This will indicate that the GPSRD is trying to acquire satellite information.

The upper LED lights red during Demo mode and turns to green when the detector receives signals from GPS satellites.

- Note:**
- *The detector stops Demo mode if it receives radar signals, laser or GPS signals, approaches the destination or Trap Point, or any one of its buttons is pressed.*
  - *You can operate all buttons even if the detector cannot receive signals from the satellite, but some functions won't be available and will sound an error tone.*

## Volume Control

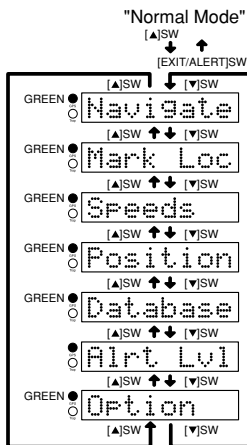
Adjust the Volume to a comfortable alarm tone level for your vehicle. The volume level does not have any effect on the unit's sensitivity.



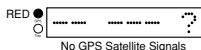
## Menu Function

To enter into the Menu function, press the ▲ key. There are seven setting modes in the Menu function;

Navigate, Mark Loc, Speeds, Position, Database, Alrt Lvl, and Option.

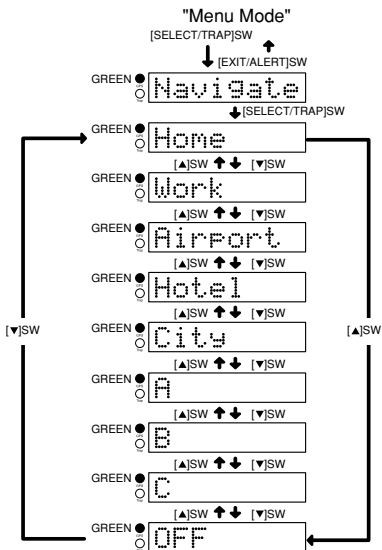


- Note:**
- To exit from the Menu function, press the **EXIT/ALERT** key. If no key is pressed within 30 seconds, the **GPSRD** will return to the display screen.
  - If the detector cannot receive signals from the GPS satellite, “-” and “?” may appear on the display.



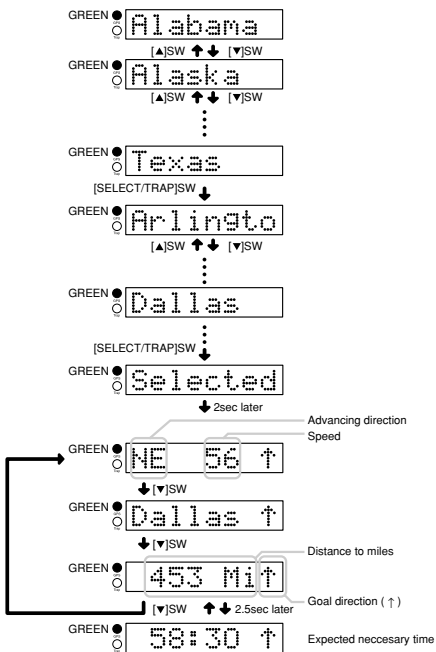
## 1. Navigate

To enter into this mode, select “Navigate” using the ▲ or ▼ keys. Press the **SELECT/TRAP** key. Use the ▲ or ▼ keys to select the location you wish to program. Once the desired location is displayed press the **SELECT/TRAP** key to program the location. The display will confirm your choice with the readout of “Selected”. The detector will display the distance, expected necessary time, and etc. from the location where you are now.



• In the case of City, Dallas for example

1. Select “Navigate” using the ▲ or ▼ key.
2. Press the **SELECT/TRAP** key.
3. Select “City” using the ▲ or ▼ key.
4. Press the **SELECT/TRAP** key to indicate the states.
5. Select “Texas” using the ▲ or ▼ key.
6. Press the **SELECT/TRAP** key to indicate the cities.
7. Select “Dallas” using the ▲ or ▼ key.
8. Press the **SELECT/TRAP** key. After “Selected” indication, GPS information such as the distance to the destination, etc. appears on the display (Normal mode).

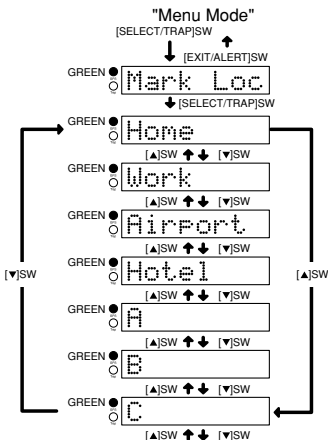


- In any case of other than City, you have to register the latitude and longitude at first. (See Mark Loc Section)
1. Select “Home”, for example, using the ▲ or ▼ button.
  2. Press the **SELECT/TRAP** button. After “Selected” indication, the display returns to the Normal mode.

**Note:** To deselect the destination, choose “OFF” then press the **SELECT/TRAP** button. Choosing “OFF” will eliminate the direction arrow showing the way to your destination.

## 2. Mark Loc (Mark Location)

To enter into this mode, select “Mark Loc” using the ▲ or ▼ button, and press the **SELECT/TRAP** button. At this mode, you can register the latitude and longitude data for 7 specific points as shown in fig. Select the point you want to register using the ▲ or ▼ button, and press the **SELECT/TRAP** button. After “Marked” indication, the display returns to the Normal mode.



**Note:** If the Status Indicator is red, you will not be able to program your location. Move to a different location in order to receive better satellite reception.

When you approach the location, the detector sounds alert tones in 3 levels as follows.

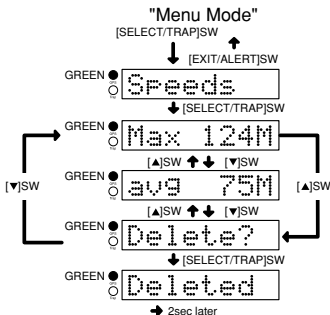
	Distance (Radius/Mile)	Alert Tone Time	Alert Display Time
Level 1	1.0	3 sec	3 sec
Level 2	0.5	3 sec	3 sec
Level 3	0.1	3 sec	3 sec

### 3. Speeds

Select “Speeds” and press the **SELECT/TRAP** button. In this mode, the detector displays the maximum or average speed data stored in the GPS module.

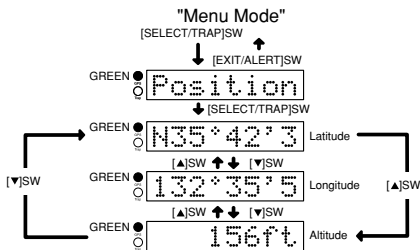
Use the ▲ or ▼ keys to toggle between the maximum and average display. To delete the data, select “Delete?” and press the **SELECT/TRAP** button.

“Deleted” will display to confirm that you have deleted both maximum and average speed data.

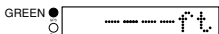


### 4. Position

Select “Position” and press the **SELECT/TRAP** button. At this mode, the detector displays the latitude, longitude, and altitude data for your present location.



Use the ▲ or ▼ button to toggle between the displays. If GPS satellite signals are not strong enough, the altitude display may appear as follows.



**Note:** If the Status Indicator is red, you will not be able to view your location or altitude. Move to a different location in order to receive better satellite reception.

## 5. Database

Select “Database” and press the **SELECT/TRAP** key. In this mode, you can delete the data for False Alerts and Trap Locations programmed in the GPS module.

Select “False” or “Trap” with the ▲ or ▼ button, and press the **SELECT/TRAP** button if you want to delete the data. The display will show “Delete?”. After pressing **SELECT/TRAP** the display will show “Cleaning”, then “Deleted” to confirm that the database has been cleared.

As to the False Area and Trap Point, refer to pages 21 and 23 for details.

- Note:**
- “Cleaning” indication may last for a while until all stored data is cleared. After all stored data is cleared, the display indicates “Deleted” and confirmation tone sounds
  - The unit will immediately begin collecting data again after cleaning the database.

## 6. Alrt Lvl (Alert Level)

Select “Alrt Lvl” and press the **SELECT/TRAP** button. In this mode, you can set the level to sound the alert tone while driving in the False Area.

The level is set at 2 initially and it is adjustable in 6 levels. Refer to False Lockout Area on page 21 for details.

## 7. Option

Select “Option” and press the **SELECT/TRAP** button. In this mode, you can change the unit and language on the display as follows.

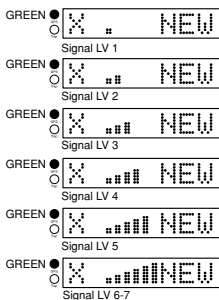
- Unit: English ↔ Metric
- Language: English ↔ Spanish ↔ French

Use the ▲ or ▼ key to display the language you wish, then press the **SELECT/TRAP** key to confirm your choice.

## Warning Feature

When the GPSRD detects a radar, laser, or safety warning signal, it emits a distinct warning tone respectively. The detected band name appears on the display as X, K, Ka, SW, VG, L, L2 or L3 along with its signal strength and speed indication. When the signal gets stronger, more signal strength portions light up the signal strength meter. You can use this meter to judge the distance from the signal source as it gives you instant information about the signal being detected.

## Example: X Band



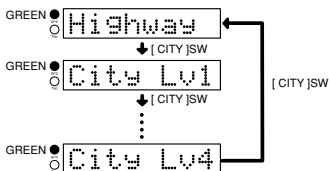
- Note:**
- The alert tones for the radar, laser, and SWS are all different.
  - The warning feature won't be functional if you are driving less than 10 MPH.

## City/Highway Mode

You can change the detector's sensitivity to activate its warning feature according to your driving area.

Press the **CITY** key and the current setting level will appear on the display. To change the level, press the **CITY** key again within 2 sec. The level is set at 0

(Highway) initially and you may choose to increase the city mode from level 1 to 4 based on how sensitive you wish to set the detector.



Level 0 : This is the most sensitive setting. The (Highway) detector will be more sensitive to distant signals, but it also is more likely to false alarms.

Level 1~4 : The detector filters out weaker signals to reduce (City) false alarms, however you will not receive Audio Warnings until you get closer to the source.

**Note:** Setting the city level to 4 greatly reduces the range for receiving an audio alert.



## False Area

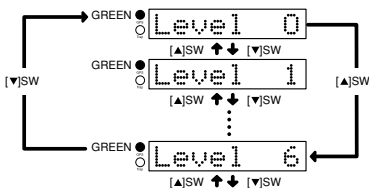
In highly populated areas, you may encounter many devices that use the same frequencies as radar signals, such as motion detectors, automatic doors, and intrusion alarms.

These devices may trigger an effect called “falsing”. To reduce false alarms, the GPSRD is equipped with a newly developed Anti-Falsing database (Common Falsing Area). While driving in the city, the detector stores encountered interference signal information automatically. When you drive in the same area at a later time, the detector’s alert tone feature won’t be activated by those signals unless their strength exceeds the predefined level set as follows.

To adjust the level to sound the alert tone in the false area, select “Alrt Lvl” and press the **SELECT/TRAP** key from the menu. The present alert level appears on the display and it is adjustable in 6 levels.

Level 0: The alert tone sounds by all signals received.

Level 6: The alert tone sounds by strong signals only.



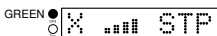
Change the level with the ▲ or ▼ keys and press the **SELECT/TRAP** button.

- Note:**
- *The alert level is effective in the false area only, and the warning feature is active for all signals in other areas.*
  - *The detector stores approx. 5,000 areas. The stored information is deleted automatically if you don't drive in the same area for a long time.*
  - *Once the detectors memory is full, the detector will delete one oldest data to make space for new information.*

## Warning Display in the False Area

When the GPSRD detects signals in the false area, it displays the following:

1. If the signal strength is less than the predefined level.  
(No alert tone sounds.)



2. If the signal strength is more than the predefined level.  
(Alert tone sounds.) Your current speed is displayed.



**Note:** *The display changes as shown if the detector cannot receive signals from the GPS satellite.*



## Switching On/Off the False Alarm Preventive Function

Since the GPSRD stores false area information itself and deactivates its alert tone automatically, you may want to be alerted by all signals received regardless of the alert level setting.

1. Press the **EXIT/ALERT** key while receiving signals when driving in the false area for the first time. The false alarm preventive function is switched on or off, and the display changes accordingly as follows:



- Press the **EXIT/ALERT** key while receiving signals when driving in the same false area.

The function is switched on/off, and the display changes as follows:

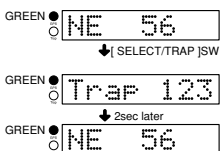


- Note:**
- If the signal strength is more than the predefined level, the vehicle speed will be indicated on the display instead of the right 3 characters “STP”.
  - The **EXIT/ALERT** key functions only at the present false area to switch from GPSRD operation to conventional radar detector operation.

## Trap Point

The Trap Point is a user programmable location that can be used to mark a common speed trap location. Once a location is marked, the next time you approach the location, an alarm will sound. You can mark up to 1,000 locations.

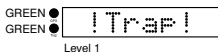
Press the **SELECT/TRAP** key at the location you want to mark. After “Trap” and the marked number indication disappears from the LED display, the display returns to the Normal mode marked as shown below.



When you approach the previously marked location, the detector sounds alert tones and changes the LED color on the display in 3 levels as follows.

	Distance (Radius/Mile)	Alert Tone Time	LED Color	Alert Display Time
Level 1	0.5	3 sec	GREEN	3 sec
Level 2	0.25	3 sec	ORANGE	3 sec
Level 3	0.1	3 sec	RED	3 sec

Example:

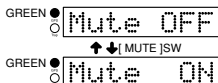


- Note:**
- “TrapFULL” appears on the display with an error tone if memory space for marking “Traps” is full.
  - To clear the marked location, press the **SELECT/TRAP** button while driving within the Level 3 “Trap” area. “CLR Trap” appears on the display.

## Mute Operation

The detector changes its alert tones when the audio mute feature is activated.

Press the **MUTE** button to indicate the mute mode set presently. To toggle the mode, press the **MUTE** button again within 2 seconds.



When the detector receives radar signals with the mute mode on, it reduces the volume of the alert tones after emitting normal alert tones for 3 seconds. Also, the alert tones emitted when approaching a Trap Point or Mark Loc. are reduced in volume with the default for mute mode is OFF.

**Note:** The default for mute mode is off.

## Audio/Dimmer Operation

Press the **CITY** and the **MUTE** buttons simultaneously to select one of the following modes.

Dimmer Off: Display lights normally

Dimmer On Middle: Display is dimmed

Dimmer On Low: Display is at its darkest level

**Note:** The default mode for dimmer is off.

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## Care and Maintenance

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The GPSRD is designed to give you years of trouble-free service. There are no user-serviceable parts inside, and, except for the fuse, no maintenance is required. To keep your detector in new condition, follow these important suggestions:

- Never leave the GPSRD on the windshield when you park your vehicle. The temperature in the vehicle in summer can reach levels above what is considered safe for this unit.
- To make you less susceptible to break in and in theft, remove the unit from your windshield when you leave your vehicle.
- Do not expose the unit to moisture. Rain, dew, road splash, or other liquids that can damage the internal components and reduce sensitivity of the GPSRD.

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# Troubleshooting

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If your GPSRD does not perform to your expectations, try the suggestions listed below. If you cannot get satisfactory results, call the Uniden Customer Service Center at (800) 297-1023, 8:00 a.m. to 5:00 p.m. Central Time, Monday through Friday.

Unit does not operate:	<ul style="list-style-type: none"><li>• Check the power cord. Be sure the connectors are properly installed.</li><li>• Be sure ignition key is ON or in the accessory position.</li><li>• Fuse out. Check and replace.</li><li>• Check power to lighter socket.</li><li>• Vehicle electrical problem exists.</li><li>• Make sure that the volume control is in the ON position.</li><li>• Clean cigarette lighter socket.</li></ul>
Weak detection.	<ul style="list-style-type: none"><li>• Check angle of unit. Point to the horizon.</li><li>• Antenna/Sensor is obstructed. Relocate the unit clear of any obstruction outside the windshield, such as a wiper blade.</li><li>• Relocate the unit clear of the window tint.</li></ul>
Inaccurate or erratic detection:	<ul style="list-style-type: none"><li>• Loose power cord. Check both connectors.</li><li>• Power cord is broken. Check and replace.</li></ul>
Beeps over bumps or rough road.	<ul style="list-style-type: none"><li>• Check that the power cord is connected at both ends.</li><li>• Clean cigarette lighter socket.</li></ul>
Beeps at same location.	<ul style="list-style-type: none"><li>• Up the Alert level. (See page 19)</li><li>• Mount the GPSRD in a location where the detector cannot receive signals from the GPS Satellite.</li></ul>
Signal strength meter registers, but no audio.	<ul style="list-style-type: none"><li>• Press the CITY button to adjust the setting level properly.</li><li>• Increase the volume.</li></ul>

The unit bounces against the windshield.	<ul style="list-style-type: none"><li>• Reposition so that the bumpers are firmly against the windshield</li></ul>
If you still have a problem.	<ul style="list-style-type: none"><li>• Call Uniden Customer Service Center, (800) 297-1023.</li></ul>
No satellite information.	<ul style="list-style-type: none"><li>• Relocate to an area with a less obstructed view of the sky.</li></ul>

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# Specifications

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## **General**

Dimensions:	7.2 cm (W) × 12.1 cm (D) × 3.5 cm (H)
Weight:	140 g
Power Requirement:	13.8 VDC
Temperature Range:	Operating: -5°F to 160°F (-20°C to 70°C) Storage: -40°F to 185°F (-40°C to 85°C)

## **360° Laser Detector**

Receiver Type:	Pulse Laser Signal Receiver
Sensor Front End:	Convex Condenser Lens
Detector Type:	Pulse Width Discriminator
Receiver Bandwidth:	30 MHz
Spectral Response:	800 - 1100 nm
Alert Hold Time:	3 seconds

## **Radar Detector**

Receiver Type:	Double Conversion Superheterodyne Self-Contained Antenna
Detector Type:	Scanning Frequency Discriminator
Antenna Type:	Linear polarized, E vector vertical
Sensitivity:	X-band = -114 dBm/cm <sup>2</sup> K-band = -104 dBm/cm <sup>2</sup> Ka-band = -100 dBm/cm <sup>2</sup>
Frequency of Operation:	10.490 - 10.560 GHz (X-band) 24.040 - 24.260 GHz (K-band) 34.400 - 34.800 GHz (Ka-band)

## **GPS Navigator**

Receiver Type	Parallel 12 channels spread spectrum signal receiver
Antenna Type	Circular polarized dielectric patch antenna
Positioning Accuracy	100 m (Probability 95%)

*Features, specifications, and availability of optional accessories are all subject to change without notice.*



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# One Year Limited Warranty

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**Important:** *Please keep your sales docket as it provides evidence of warranty. Warranty is only valid in the country where the product has been purchased.*

**WARRANTOR:** Uniden America Corporation (“Uniden”)

**ELEMENTS OF WARRANTY:** Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

**WARRANTY DURATION:** This warranty to the original user shall terminate and be of no further effect 12 months after the date of original retail sale. This warranty is invalid if the product is: (A) Damaged or not maintained as reasonable or necessary, (B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) Improperly installed, (D) Serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) Used in conjunction with any equipment or parts or as part of any system not manufactured by Uniden, or (F) Installed or programmed by anyone other than as detailed by the Operating Guide for this product.

**STATEMENT OF REMEDY:** In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will repair the defect and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. THE LIMITED WARRANTY SET FORCE ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

**LEGAL REMEDIES:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

**PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY:** If, after following the instructions in this Operating Guide you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid by traceable means, or delivered, to warrantor at:

Uniden America Corporation  
Parts and Service  
4700 Amon Carter Blvd.  
Fort Worth, TX 76155

(800) 297-1023, 8:00 a.m. to 5:00 p.m. Central Time, Monday through Friday

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4,698,632	4,709,407	4,791,420	4,831,498
5,315,302	5,469,287	5,579,012	5,835,052
6,169,511			

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