

## OPERATION

### Stay Alert Feature

The Stay Alert Feature is designed to test a driver's alertness. To engage (when unit is not alarming) :

- Press and hold City for approximately 2 seconds. Release button during or immediately after the alert is given.

The "H" or "C" will flash indicating Stay Alert is activated. Within 30-60 seconds two beeps are sounded; to show alertness, the driver must press either the Menu, City, or Quiet button within 3-5 seconds.

If the button is pressed within 3-5 seconds, the cycle is repeated. If a button is not pressed with in 3-5 seconds, the alarm sounds and the entire display will flash.

- Press Power to exit

**WARNING!!!** Stay Alert is NOT intended as a substitute for adequate rest. You should NOT operate a vehicle if you are drowsy. During extended periods of vehicle operation, you should take frequent breaks. Improper reliance on the Stay Alert feature may result in vehicle damage, personal injury or death.

NEVER OPERATE A VEHICLE IF YOU ARE DROWSY!

SWS™

### Safety Warning System™

When SWS™ is detected an unique audio alert is sounded and an "S" is displayed to indicate an SWS™ message has been received.

**Note:** Not all areas have Safety Warning System™ transmitters

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## POP™ MODE ALERTS

### POP™ Mode Alerts

Because POP™ Mode radar utilizes the same K or Ka band frequencies, POP™ Mode Alerts will be displayed as regular radar alerts.

## LASER/RADAR ALERTS

### Speed Radar Audio/Visual Alerts

When X, K or Ka is detected, the band ID and signal strength are displayed. The audio alert is continuous and has a geiger counter-like pattern. The faster the beep, the closer or stronger the radar source.

### Laser Audio/Visual Alerts

When a laser signal is detected the audio alert is continuous for a minimum of 3 seconds.

- The unit displays an "L".

### Pulse Protection®

Pulse (or instant-on) radar is more difficult to detect than conventional radar because it remains 'off' until activated to measure the speed of a targeted vehicle.

When a pulse type transmission is detected, your Whistler detector sounds an urgent 3-second audio warning and the unit displays a "P".

After the 3-second pulse alert, the standard alert pattern continues for as long as the signal is present.

It is important to respond promptly to a pulse

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## WARRANTY INFORMATION

### Service Under Warranty

During the warranty period, defective units will be repaired without charge to the purchaser when returned with a dated store receipt to the address below. Units returned without a dated store receipt will be handled as described in section "Service Out Of Warranty."

Due to the specialized equipment necessary for testing a Laser-Radar receiver, there are no authorized service stations for Whistler brand detectors other than Whistler.

When returning a unit for service, please follow these instructions:

1. Ship the unit in the original carton or in a suitable sturdy equivalent, fully insured, with return receipt requested to:

Whistler Repair Dept.  
551 N. 13th St.  
Rogers, AR. 72756

Please allow 3 weeks turn around time.

**Important:** Whistler will not assume responsibility for loss or damage incurred in shipping. Therefore, please ship your unit insured with return receipt requested. **CODs will not be accepted!**

## LASER/RADAR ALERTS

### Alert Priority

When two or more signals are received at the same time, the alert priority is:

1. Laser
2. Speed Radar
3. Safety Warning System

**Example:** If X band is alerting, then suddenly a VG-2 signal is detected, the VG-2 warning will override the X band alert.

## RESET FEATURES

### Reset Features

All user features can be reset to factory settings.

- Unplug Power Cord from unit.
- Press and hold Power and Quiet buttons.
- Plug Power Cord into unit.
- Wait for 2 beeps.
- Release Power and Quiet buttons.

**Unit is now reset to the following features and settings.**

**Default factory settings are:**

1. Audio to level (5)
2. Displays "H"
3. Auto Quiet Mode OFF
4. SWS™ OFF
5. Dim/Dark Mode to full illumination
6. All Radar Bands ON
7. LED Periscope to Blink
8. POP™ OFF
9. X/K Filter 1
10. Ka Filter 1
11. Laser ON
12. Voice® ON
13. TFSR OFF

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## WARRANTY INFORMATION

2. Include with your unit the following information, clearly printed:
  - Your name and street address (for shipping via UPS), a daytime telephone number and an email address, if applicable.
  - A detailed description of the problem (e.g., "Unit performs self-test but does not respond to radar").
  - A copy of your dated store receipt or bill of sale.
3. Be certain your unit is returned with its serial number. For reference, please write your unit's serial number in the space provided on page 27 of this manual.

Units without serial numbers are not covered under warranty.

**Important:** To validate that your unit is within the warranty period, make sure you keep a copy of your dated store receipt. You may register your warranty online at [www.whistlergroup.com](http://www.whistlergroup.com), however, for warranty verification purposes, a copy of your dated store receipt must accompany any unit sent in for warranty work.

### Service Out of Warranty

Units will be repaired at 'out of warranty' service rates when:

- The unit's original warranty has expired.
- A dated store receipt is not supplied.
- The unit has been returned without its serial number.
- The unit has been abused, modified, installed improperly, or had its housing removed.

## TROUBLESHOOTING

Your Whistler detector is expertly engineered and designed to exacting quality standards to provide you with reliable, trouble-free operation. If your unit has been correctly installed following the guidelines in this manual, but is not operating optimally, please refer to the troubleshooting guide below.

**PROBLEM: No display or audio.**

- Check fuse in Whistler plug; replace if necessary with a 2 amp, 3AG type.
- Check fuse for lighter socket; replace if necessary.
- Make sure lighter socket is clean.

**PROBLEM: Unit alarms when vehicle hits bumps.**

- Check for loose lighter socket; tighten and clean.
- Check connections at both ends of power cord. Substitute another cord to determine if cord is defective. Return defective cord to the factory.

**PROBLEM: Audio alerts are not loud enough.**

- Cancel Auto Quiet Mode or City Mode.
- Check audio level setting (see page 8).

If difficulties occur which cannot be solved by information in this Troubleshooting Guide, please call Whistler Customer Service at 1-800-531-0004 or visit our FAQ page at [www.whistlergroup.com](http://www.whistlergroup.com) before returning your unit for service.

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## WARRANTY INFORMATION

The minimum out of warranty service fee for your Whistler detector is \$65.00 (U.S.). If you require out of warranty service, please return your unit as outlined in the section "Service Under Warranty" along with a certified check or money order for \$65.00. Payment may also be made by MasterCard, VISA or American Express; **personal checks are not accepted.**

**In the event repairs cannot be covered by the minimum service fee, you will be contacted by a Whistler technical service specialist who will outline options available to you.**

If you elect not to have your unit repaired, it will be returned to you along with your certified check or money order.

**Important:** When returning your unit for service, be certain to include a daytime telephone number and an email address (if applicable).

### Customer Service

If you have questions concerning the operation of your Whistler detector, or require service during or after the warranty period, please call Customer Service at:

1-800-531-0004

Representatives are available to answer your questions Monday - Friday from 8:00 a.m. to 5:00 p.m. (CT) or visit the FAQ's at [www.whistlergroup.com](http://www.whistlergroup.com).

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## CARE AND MAINTENANCE

### Care And Maintenance

During the summer months, avoid prolonged exposure to direct sunlight by removing your unit from the dash when your vehicle is parked for an extended period of time. Do not spray water, cleaners, or polishes directly onto the unit. The spray may penetrate through the openings and damage the unit. Also, do not use any abrasive cleaners on the unit's exterior.

## ARE DETECTORS LEGAL?

### In Most States YES!

Laser-Radar detectors are legal in every state for automobiles and light trucks (under 10,000 lbs.) except Virginia and Washington, D.C., which have local regulations restricting the use of radar receivers in any vehicle.

The Federal Highway Administration (FHWA) passed a nationwide regulation, effective January 1994, which prohibited radar and laser detector use in vehicles over 10,000 lbs.

## FCC INFORMATION

### FCC ID : HSXWH20

This device complies with part 15 of the 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 undesired operation.

**Important:** FCC requirements state that changes or modifications not expressly approved by Whistler could void the user's authority to operate the equipment.

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## SPECIFICATIONS

### Laser Wavelength:

905 ± 50 nanometers (nm)

### Radar Frequencies:

10.500 - 10.550 GHz (X Band)

24.050 - 24.250 GHz (K Band )

33.400 - 36.000 GHz (Ka Superwideband)

**Operating Temperature Range:**-10 C to +70 C (14 F to +158 F)

### Power Requirements:

Operational 12 to 15 volts DC, 250mA nominal Vehicle Battery Saver, 30mA nominal.

**One or more U.S. patents may apply:**

#7,215,276

POP™ Mode is a trademark of MPH Industries, Inc. SWS™ is a trademark of Safety Warning System L.C.

Specifications are subject to change without notice

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## SPEED MONITORING

### Radar Facts

A radar gun operates by transmitting radio waves at certain frequencies which reflect off objects and are picked up by the radar gun's receiving section. When a radar beam reflects off a moving target, a measurable frequency shift occurs. The radar unit converts this shift into miles per hour to determine your vehicle's speed. Currently, the FCC (Federal Communications Commission) permits operation of traffic radar guns at X Band (10.500 - 10.550 GHz), K Band (24.050 - 24.250 GHz), and Ka Band (33.400 - 36.000 GHz).

**Note:** A radar detector will not alarm if an officer is not transmitting on any one of the above radar bands.

### POP™ Mode

POP™ Mode is a feature on some radar guns operating on K and Ka bands. When the gun is in POP™ Mode and activated, a brief burst of energy, less than 1/15 of a second, is transmitted and the vehicle's speed is quickly acquired. A detector without POP™ Mode detection capability cannot respond to this brief transmission.

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## ACCESSORIES

These and other accessories can be ordered directly from Whistler by calling **1-800-531-0004** or visiting our online store at [www.whistlergroup.com](http://www.whistlergroup.com)

Order #	Description	Price
202152	Windshield Bracket Kit	\$9.95
202138	Visor Bracket	\$6.95
206552	Power Cord (5')	\$14.95
206880	Hardwire Kit (10' ) (for wiring to fuse box)	\$9.95
206666	Modular* Cord Package (includes coiled and straight cords, and power adapter)	\$17.95
202156	Package of 4 Suction Cups	\$2.95
402080	Non Skid Dash Pad	\$6.95
403774	INTELLICORD®	\$27.95

\* Modular: Interconnecting pieces cord and plug. **Shipping and handling (per order) \$5.00. Prices are subject to change without notice.**

write serial number in the space provided

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## SPEED MONITORING

### Laser Facts

It's well documented that many radar guns cannot reliably provide the speed of a targeted vehicle that is traveling in a group of vehicles. In contrast, a laser gun can target a specific vehicle out of a line of traffic and determine its speed. The advantage of laser over radar in terms of target identification is the result of the laser gun's narrow beam. A radar gun's transmission can cover more than a four-lane highway at a distance of 1,000 feet, compared with a laser gun's transmission which covers about 3 feet at the same distance. For best protection, keep these points in mind:

- Because the vehicle's license plate or headlights are the laser gun's primary targets, mounting the Whistler detector on the dashboard can improve laser detection at short range.
- Do not follow closely behind any vehicle. If you can't see past a vehicle ahead of you, chances are your detector won't eather.
- The receiving range of laser signals will not be the same as radar signals. Laser guns are most often used at short range.

Whistler Laser-Radar detectors receive all current laser guns which operate at a laser wavelength of 905 +/- 50mm including but not limited to the following:

• Ultra Lyte

• LTI 20-20

• LTI TruSpeed® S

• Laser Ally

• Pro Laser™ I II III

• Laser Atlanta® Stealth Mode

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## OWNER'S MANUAL

# CR80 HIGH PERFORMANCE LASER-RADAR DETECTOR

### The Whistler Group Corporate Headquarters

3604 NW Frontage Rd. • Bentonville, AR 72712  
Tel 479.273.6012 • Fax 479.273.2927

### Customer Return Center

551 N 13th St. • Rogers, AR 72756

Customer Service Tel 800.531.0004

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

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WHISTLER

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Dear Whistler Customer,

If you have questions concerning the operation of this Whistler product please call:

**Customer Service**  
1-800-531-0004

Monday - Friday • 8:00 am - 5:00 pm CT

or visit our website

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

Please keep the receipt in a safe place. You may register your product online at [www.whistlergroup.com](http://www.whistlergroup.com). For warranty verification purposes, a copy of your dated store receipt must still accompany any unit sent in for warranty work. If the unit is returned without a dated store receipt, an out of warranty service charge applies. Note: Your warranty period begins at the time of purchase. The warranty is validated only by the dated store receipt! Please record the serial number of the unit in the space provided in the warranty section of the manual.

To fully acquaint yourself with the operation of your Whistler detector and to better understand the differences between detecting radar, laser, and safety radar signals, we recommend reading this entire manual or visiting our F.A.Q. page on our website [www.whistlergroup.com](http://www.whistlergroup.com)

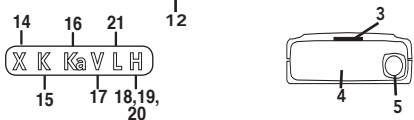
Enjoy your Whistler detector and please drive safely.

Sincerely,

The Whistler Group, Inc.

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## WHISTLER FEATURES



- Features**
- High Performance
  - 3 Filter Modes
  - Selectable Tones
  - Total Band Protection™
  - Numeric Icon Display
  - Detects POP™ Mode
  - 360° Maxx Coverage
  - Real Voice®
  - 3 City Modes/Highway Mode
  - Low Emission
  - Quiet/Auto Quiet Mode
  - Dim/Dark Mode
  - Stay Alert™
  - Setting Saver
  - Vehicle Battery Saver™
  - Safety Warning System™
  - Alert Priority
  - Alert Periscopes
  - Traffic Flow Signal Rejection
  - High Gain Lens

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## FEATURE DESCRIPTIONS

- Bracket Release Button** – Provides quick and easy release of the mounting bracket.
- Speaker** – Provides distinct audio warnings for X, K, Ka band radar, safety warning system and laser.
- Mounting Bracket Location** – Slot holds mounting bracket firmly.
- Radar Antenna** – Compact, high-efficiency antenna receives radar signals.
- Front Laser Antenna** – High gain optical lens provides increased sensitivity and field of view for leading-edge laser detection.
- Rear Laser Antenna** – An integrated optical wave-guide provides superior detection of laser signals transmitted from behind.
- City Button** - Reduces the annoyance of false alerts typically encountered in urban driving areas.
- Quiet Button** - Pressing QUIET before a signal is detected engages Auto Quiet Mode which automatically reduces the audio level after the initial warning to a low audio level setting. Pressing QUIET during a radar/laser encounter silences audio alerts, while allowing visual alerts to keep you informed.
- Power/Volume** - Turns unit on/off and adjusts audio level.
- Dim/Dark Button** - Engages Dim/Dark mode display options.
- Menu Button** - Enters option select mode.
- Numeric Icon Display** - combines icon display with a 7 segment digital display that shows signal strength indication and band identification.
- Alert Periscopes** - Provides an additional attention getting visual alert.
- X-band Icon** - indicates the unit is receiving a X-band signal.

## FEATURE DESCRIPTIONS

- K-band Icon** - indicates the unit is receiving a K-band signal.
- Ka-band Icon** - indicates the unit is receiving a Ka-band signal.
- V** - indicates that the unit is receiving a VG-2 signal. Indicates that VG-2 is engaged.
- H** - indicates unit is in Highway mode.
- C** - indicates that the unit is operating in city mode.
- Signal Strength Icon** - indicates the strength of the signal being detected.
- L** - indicates that the unit is receiving a laser signal.
- Power Jack** - provides connection for the power cord

## INSTALLATION

### Mounting Guidelines

- Mount the unit as low as possible near the center of the windshield.
- Do not mount your unit behind wipers, ornaments, mirrored sunscreens, etc. These obstructions have metal surfaces which can affect radar and laser signals and reduce critical warning time. (Regular tinted glass does not affect reception.)
- Some windshields have an Instaclear™ or Electriclear™ type coating, which affects radar signals. Consult your dealer or the vehicle's owner's manual to determine if your windshield has this coating.
- Avoid placing unit in direct contact with wind shield.
- To reduce the possibility of theft, conceal your unit when not in use.

### Windshield Mounting

- Install the two suction cups and rubber bumper onto the bracket by fitting them into their holes.
- Press the suction cups onto the windshield at the location you have chosen. (Image A)

## INSTALLATION



**Important:** Some newer cars have a plastic safety coating on the inside of the windshield. The windshield bracket may leave permanent marks on this type of surface. To find out if your vehicle has this type of windshield, check the vehicle's owner's manual or ask your dealer.

We recommend that you do not leave the suction cup bracket on the windshield in direct sunlight. If the detector is removed, this may cause blistering of the dash in some vehicles.

- Slide the detector onto the bracket until it locks into place. (Image B)



- If necessary, the unit may be leveled by bending the windshield bracket. Press the bracket release button and remove the detector before bending.

### Power Cord Connection

- Plug the small end of the power cord into the unit's power jack.
- Plug the large end into the vehicle's cigarette lighter.

**Note:** Cord fits tightly into detector. When installing the cord, expect some resistance.

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## OPERATION

### X/K and Ka Filter Modes

There are times when a radar detector in another vehicle, can emit a frequency which can cause your detector to falsely alert. These Filter Modes allow you to select the level needed for your area to minimize the occurrences of these false alerts. X/K and Ka Filter Mode factory default settings should provide adequate filtering for most conditions. If you experience excessive alerts due to radar detectors in other vehicles, increase the Filter level for the band received. See Option Selection Mode to change the filter settings.

### Traffic Flow Signal Rejection (TFSR)

Recently, many new products operate on X or K band causing nuisance alerts to radar detectors. Some of these are radar based Traffic Monitoring Systems mounted to poles alongside the highway and others are K Band Lane Change Assistants and Blind Spot Detectors found on some automobiles. When turned on in option mode, helps eliminate excessive alerts from erroneous X and K-band sources. Traffic flow monitoring systems are getting more common. Many of these systems generate radar signals to measure the flow of traffic across multiple lanes. Most detectors will alert you to it unnecessarily. This rejection feature examines the incoming signal and will aid in reducing the alerts to such sources.

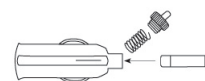
We suggest you turn TFSR on if you are experiencing excessive X or K band false alerts every half mile or so along stretches of roadway that contain these traffic flow sensors.

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## INSTALLATION

### Fuse Replacement

The lighter socket plug is equipped with a replaceable 2 amp, 3AG fuse located behind the silver tip. To replace the fuse, carefully unscrew the tip of the plug.



**Important:** Unscrew slowly. The tip contains a spring which may fly out when disassembling. Insert the new fuse with the spring and screw on the tip. With use, screw cap on plug may loosen. Retighten occasionally.

### Installing the Hardwire Kit

The “U” type connector must be secured to a metal surface that is electrically connected to the battery ground (negative) terminal.

The spade type connector can connect to either live 12 volts or switched 12 volts at your fuse panel accessory port.

If no port is available, cut off the spade terminal, expose 1/4 to 1/2 inch of wire, and splice into a source of 12 volt power.

### Fuse Replacement - Hardwire Kit

The inline fuse holder on the power cable is equipped with a replaceable 2 amp, 3AG fuse located inside the fuse holder. To replace the fuse, carefully twist the holder to open it to gain access to the fuse.

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## OPERATION

### Power On Self Test & Volume

To turn the unit ON or OFF, gently press the center of the Power/Volume button into the side of the unit. Each time your Whistler detector is turned on, an automatic self-test sequence confirms that the speaker and visual displays are functional.

### INTELLICORD® Ready

The optional INTELLICORD® power cable allows the user to remotely control Power and Quiet/Auto Quiet functions with the press of a button located on the power cable's plug.

### Setting Saver

Setting Saver stores your personalized settings so that when the detector is turned off and then on again, you do not have to re-enter them.

### Feature Engaged Confirmation

Each time a button is pressed one beep confirms feature “on”, two beeps confirm feature “off”

### Audio Level Adjustment

The audio levels can be adjusted high to low or low to high.

- Rotate Power/Volume button back to increase audio level.
- Rotate Power/Volume button forward to decrease audio level.

As audio level is adjusted, beeps are provided and the display indicates volume level.

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## OPERATION

### Self Test Mute

Press the Quiet button during the Self-Test sequence to cancel the Self-Test audio. This will not affect radar/laser alerts. To restore the Self-Test audio, press the Quiet button during the next Self-Test.

### Quiet Mode

Quiet cancels audio during an alert and any new alert within 20 seconds. After 20 seconds of no alerts, the audio is restored for any new alerts.

- Press Quiet to cancel the audio.

- Press Quiet a second time during an alert to restore the standard audio alert pattern; or turn the unit off, then on.

### Auto Quiet Mode

Auto Quiet reduces the selected audio level to level (1) approximately 5 seconds after a radar or safety warning system signal is detected. The alert for any new signal within 20 seconds will resume at level (1). Auto Quiet does not affect laser alerts.

- Press Quiet button (before a signal is detected) to engage Auto Quiet.
- Once the Auto Quiet mode is engaged, you may cancel the audio alarm by pressing Quiet.
- Press Quiet (when the unit is not alarming) to cancel Auto Quiet mode.

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## OPERATION

### Alert Periscopes

Whistler's Alert Periscopes provide an added attention getting visual alert. The two extra LED's flash on and off when the unit alarms to provide a unique visual alert. This alert can be programmed through the Option Select Mode to be: ON, OFF, or FLASHING during alerts.

### City/City 1/City 2 Modes

Whistler's Three Stage City Mode is designed to reduce the annoyance of automatic door openers, intrusion alarms and other devices which share frequencies with police radar. Generally, X band is used for these devices.

- Press City to cancel Highway Mode and engage City Mode.
- Press City button again to enter City 1 Mode
- Press City button again to enter City 2 Mode
- Press City a fourth time to cancel City 2 Mode and return the unit to Highway Mode.

In City Mode, weak speed/safety warning system signals give an initial alarm of two beeps, and then remains quiet unless the signal becomes very strong. When the signal strength increases, two additional beeps are provided. City 1 and City 2 Modes operate the same as Highway Mode, but in City 1 Mode, X band requires a stronger signal to alert. In City 2 Mode, X-band is not detected.

**Caution:** Some towns/small cities may still be using X band radar. City Modes do not change the audio alert for laser.

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## OPERATION

### Highway Mode

Highway mode provides full audio warnings any time radar (X, K, Ka, Safety Warning System) or laser signals are detected, and is recommended for open road driving.

For more information on City and Highway mode, please visit our FAQ page on our website: [www.whistlergroup.com](http://www.whistlergroup.com)

### Teach/Tutorial Mode

Provides simulated alerts for each type of signal.

- Press City and Quiet buttons simultaneously and release.
- Press Power to exit.

### Dim/Dark Modes

Dim/Dark Mode reduces the illumination of the display

- Press and release the Dark button to reduce illumination to a dim setting.
- Press and release the Dark button a second time to engage Dark Mode. The display illumination is further reduced.

Dim or Dark can be engaged during an alert. In Dark Mode, the display goes dark for as long as a signal is being detected and 20 seconds after, then the display returns to the dimmer setting.

- Press and release the Dark button a third time to restore the display to full illumination.

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## OPERATION

### Vehicle Battery Saver Mode

The Vehicle Battery Saver Mode automatically shuts off your detector within 6 hours. The timer is reset if the detector is turned off, unplugged or any button is pressed before the timer has expired. The detector will alert you with an audible and visual warning before it shuts off. During this warning you can reset the timer by pressing any button.

If the unit has automatically turned itself off, press the Power button to turn the unit back on. You can manually engage the Vehicle Battery Saver Mode by pressing and holding the City button until one beep is heard.

### Integrated Real Voice®

When selected, Real Voice® will be used to articulate the following:

1. Band Identification
2. Safety Warning System messages
3. Feature Selection

**Note:** In certain cases, the voice message does not replicate the text message.

Voice OFF/ON is selected by holding quiet button for approximately 2 seconds. Voice ON will announce “caution”, Voice OFF will give a double beep.

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**NOTE:** Press the Power button to exit Option Select Mode.