The Cobra line of quality products includes:

- CB Radios
- microTALK® Radios
- Radar/Laser Detectors
- Safety Alert® Traffic Warning Systems
- Truck-Specific Navigation Systems
- HighGear® Accessories
- CobraMarine VHF Radios
- Power Inverters
- LED Lights
- Jumpstarters
- Accessories

For more information or to order any of our products, please visit our website: www.cobra.com

Operating Instructions

14 BAND™
HIGH-PERFORMANCE
DIGITAL RADAR/LASER
DETECTOR WITH XTREME RANGE
SUPERHETERODYNE® TECHNOLOGY AND
RED LIGHT / SPEED CAMERA GPS LOCATOR

XRS 9550G

Important Information

Federal Laws Governing the Use of Radar Detectors

It is not against federal law to receive radar transmissions with your Cobra radar/laser detector. The Communications Act of 1924 guarantees your right to receive radio transmissions on any frequency. Local laws that contravene this Act, while illegal, may be enforced by your local law enforcement officials until and unless they are prohibited from doing so by federal court action.

Safety Alert

Use of this product is not intended to, and does not, ensure that motorists or passengers will not be involved in traffic accidents. It is only intended to alert the motorist that an emergency vehicle equipped with a Cobra Safety Alert transmitter is within range as defined by that product. Please call local fire and police departments to learn if coverage exists in your area.

Safe Driving

Motorists, as well as operators of emergency or service vehicles, are expected to exercise all due caution while using this product, and to obey all applicable traffic laws. Do not attempt to change settings of the unit while in motion.

Security of Your Vehicle

Before leaving your vehicle, always remember to conceal your radar detector in order to reduce the possibility of break-in and theft.

Should you encounter any problems with this product, or not understand its many features, please refer to this owner’s manual. If you require further assistance after reading this manual, Cobra Electronics offers the following customer assistance services:

For Assistance in the U.S.A.

Automated Help Desk English only. 24 hours a day, 7 days a week 773-889-3087 (phone).

Customer Assistance Operators

English and Spanish. 8:00 a.m. to 5:30 p.m. Central Time Mon. through Fri. (except holidays) 773-889-3087 (phone).

Questions

English and Spanish. Faxes can be received at 773-622-2269 (fax).

Technical Assistance

English only. www.cobra.com (on-line: Frequently Asked Questions). English and Spanish, product info@cobra.com (e-mail).

For Assistance Outside the U.S.A.

Contact Your Local Dealer

Important Information and Customer Assistance
Controls, Indicators and Connections

Product Features

Congratulations! You’ve made a smart choice by purchasing a high performance radar/laser detector from Cobra. Just look at some of the sophisticated features and capabilities your new unit includes:

Xtreme Range Superheterodyne Technology
With super-fast sweep circuitry, XRS provides extra detection range and the best possible advance warning to even the fastest radar guns.

Detection and Separate Alerts For
Radar signals (X, K, Ka and Ku bands, with signal strength indicated), Laser signals, Safety Alert signals, Spectre I & IV signals, VG-2 signals

LaserEye
For 360° detection of laser signals

Instant-On Ready
Detects radar guns with “instant-on” (very fast) speed monitoring capabilities

Pop Detection
Detects the latest super-fast instant-on single pulse radar guns

Tone Alert or Voice Alert
With adjustable volume

City or Highway
Modes to reduce false alerts

Digiview Data Display
With easy-to-read alphanumeric dot matrix text readouts

Alert Programming
Easy setting of radar bands to be monitored

Controls, Indicators and Connections

Display

<table>
<thead>
<tr>
<th>Display</th>
<th>Controls, Indicators and Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windshield Bracket</td>
<td>On-Off/Volume Control</td>
</tr>
<tr>
<td>Mounting Slot</td>
<td>Mark/Dim Button</td>
</tr>
<tr>
<td>Release Button</td>
<td>Engine RPM sensing mute function which reduces detection</td>
</tr>
<tr>
<td>LaserEye</td>
<td>Accessing multiple button functions</td>
</tr>
<tr>
<td>For 360° detection of laser and radar signals</td>
<td></td>
</tr>
<tr>
<td>Speaker</td>
<td>For manual mute or auto mute of audio alerts</td>
</tr>
<tr>
<td>City/Hey Button</td>
<td>For City or Highway modes to reduce false alerts</td>
</tr>
<tr>
<td>IntelliMute Button</td>
<td>(Also turns Voice Alert On and Off.)</td>
</tr>
<tr>
<td>Engine RPM sensing mute function which reduces detection</td>
<td></td>
</tr>
<tr>
<td>IntelliMute On and Off. (Also enters IntelliMute setting mode and turns VG-2 and Spectre alerts On and Off.)</td>
<td></td>
</tr>
<tr>
<td>Mute Button</td>
<td>IntelliMode Pro</td>
</tr>
<tr>
<td>For manual mute or auto mute of audio alerts</td>
<td></td>
</tr>
<tr>
<td>(Also turns Voice Alert On and Off.)</td>
<td></td>
</tr>
<tr>
<td>GPS Locator *See page 6 for accessing multiple button functions.*</td>
<td></td>
</tr>
<tr>
<td>Alphanumeric Dot Matrix Text Display</td>
<td>See pages 6 – 17 for more information about display features.</td>
</tr>
</tbody>
</table>

FCC NOTICE
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 undesired operation.

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Contents

**Introduction**
- Important Information ............ A1
- Customer Assistance ............ A1
- Controls, Indicators and Display . A2
- Display and Product Features .... A3

**Your Detector**
- Installation .......................... 2
  - Windshield Mounting .......... 3
  - Dashboard Mounting .......... 4
- Getting Started ..................... 5
  - Standby Screens ............... 5
- Settings ............................. 6
  - City/Highway Modes. ........... 6
  - DigiView Data Display Brightness .... 8
  - Muting an Alert ................ 9
  - Auto Mute Mode ............... 9
- IntelliMute ......................... 10
- IntelliMute Pro ..................... 13
- Voice/Tone Setting ................ 14
- VG-2 and Spectre I & IV
  - Alert Settings ................ 15
  - Radar Alert Settings .......... 16
  - Pop Alert ....................... 17
- Detection ........................... 16
  - Signals Detected ............. 16
  - Audio Alerts .................... 16
  - Visual Display .................. 16
  - Instant-On Detection .......... 21
- Responding to Alerts ............. 21
- Understanding Radar and Laser .... 22

**Global Position System Locator (GPS Locator)**
- Overview ............................ 24
  - Connecting to your Detector .... 24
  - Initial Satellite Lock .......... 25
- User Locations ..................... 26
  - GPS Settings ..................... 26
  - Photo Enforcement Areas ....... 26
  - Caution Areas ................... 26
  - Known Speed Traps ............... 27
  - Speed Units ..................... 27
  - GPS Alerts ....................... 27
  - Visual Display .................. 28
  - IntelliScope ..................... 28

**Customer Information and Warranty**
- Maintenance .......................... 30
- Specifications ........................ 30
- Limited 1-Year Warranty .......... 31
- Product Service .................... 32
- Optional Accessories ............. 32
- Accessories Order Info .......... 33
- Trademark Acknowledgement ....... 33

Nothing Comes Close to a Cobra®
Installation

Where to Mount Your Unit

You will get optimum performance from your detector if you Mount it at a point approximately in the center of the vehicle, as low as possible on the front windshield without obstructing the unit’s view of the road either to the front or rear. You can also mount it directly on the dashboard.

The unit’s lens must not be blocked and the LaserEye should have a clear view out the back window to allow 360° detection. If the GPS Locator unit is installed, it must have a clear view of the sky to receive GPS signals.

Windshield Mounting

1. Attach the rubber cups to the bracket.
2. Make sure the rubber cups and your windshield are clean.
3. Push the bracket firmly onto the windshield.
4. Attach the detector to the bracket. Check that the unit is parallel to the road’s surface.
5. To adjust the angle if necessary, gently push or pull on the bracket to bend it. DO NOT use the detector to bend the bracket.
6. Plug the power cord into the detector.
7. Plug the cigarette lighter adapter on the power cord into your vehicle’s cigarette lighter.
8. You can temporarily remove the detector whenever you wish by depressing the bracket release button and sliding it off the bracket.

Radar, laser and GPS signals pass through glass but not through other materials and objects. Objects that can block or weaken incoming signals include:

- Windshield wiper blades
- Mirrored sun screens
- Dark tinting at the top of the windshield
- Heated windshields currently available on some vehicles (InstaClear for Ford, Electriclear for GM). Consult your dealer to see if you have this option.
Dashboard Mounting

1. Place the detector on the dashboard to find a location where the unit has a clear, level view of the road and is parallel to the road’s surface. The angle CANNOT be adjusted after mounting.

2. Remove the paper backing from one side of the hook-and-loop fastener.

3. Attach the pad to the dashboard at your chosen location and remove the other paper backing.

4. Attach the detector to the hook-and-loop fastener. You can remove and reattach the unit as often as you like.

5. Plug the power cord into the detector.

6. Plug the cigarette lighter adapter on the power cord into your vehicle’s cigarette lighter.

Getting Started

Standby Screens

Power On

Testing

System Ready

On-Off/Volume Control Rotate clockwise (away from you)

To Turn On the Unit and Adjust the Audio Volume

Rotate the On-Off/Volue control clockwise (away from you).

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three beeps</td>
<td>Testing, then</td>
<td>The display will sequentially show the settings for any user modes you have</td>
</tr>
<tr>
<td></td>
<td>three beeps</td>
<td>changed from the factory defaults. If the GPS Locator is connected, the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sequence will continue with the database version, whether the GPS is locked</td>
</tr>
<tr>
<td></td>
<td>System Ready</td>
<td>on a signal and the speed units in effect.</td>
</tr>
</tbody>
</table>

Start-Up Complete

Start-up is complete when the display continuously shows the letters indicating the current user settings:

- **c** = City mode
- **h** = Highway mode
- **i** = IntelliMute On

NOTE

In some vehicles, power is supplied to the cigarette lighter even while the ignition is Off. If this is the case with your vehicle, you should turn Off or unplug your detector when parking for lengthy periods.

NOTE

Nothing Comes Close to a Cobra®
Settings

When changing the Settings on your detector, please keep in mind:

- Buttons can have multiple functions.
  - **Press** means press and release (less than two seconds).
  - **Hold 2** means press and hold for two or three seconds before releasing.
  - **Hold 4** means press and hold for four seconds or more before releasing.

- Depending on your choice of Voice Alert or Tone Alert mode, you will hear either voice messages or tones confirming changes in settings.

- All settings will be stored in memory when the power is turned Off and recalled when the power is turned back On.

City/Highway Mode

Setting your detector to **City** mode delays all X band audio alerts until the signal strength reaches Level 3. (A single beep will sound when the signal is first detected.) This will reduce false alerts while you are driving in, or near, urban areas where there are many sources for conflicting X band signals such as microwave towers and automatic door openers.

To change settings, follow the procedure listed on the next page, which indicates what you will see and hear (either in Voice Alert or Tone Alert mode) as you complete each step. The factory setting is **Highway** mode.

City/Highway Mode (continued)

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One beep</td>
<td>City</td>
<td>City X blinks, then c appears in the display*</td>
</tr>
<tr>
<td>Two beeps</td>
<td>Highway</td>
<td>Highway blinks, then h appears in the display*</td>
</tr>
</tbody>
</table>

NOTE

If the GPS Locator is connected, “c” or “h” will show for two seconds, then be replaced by the GPS symbol. See page 24 for GPS features.
DigiView Data Display Brightness
You can choose from four (4) settings for Brightness of the display. You can cycle through the settings by repeatedly pushing the Mark/Dim button. The factory setting is Bright.

To Change the Brightness to Dim (50% of full brightness)
Press and release the Mark/Dim button once.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One beep</td>
<td>Dim</td>
<td>Dim blinks, then display dims</td>
</tr>
</tbody>
</table>

To Change the Brightness to Dark (Off)
Press and release the Mark/Dim button a third time.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One beep</td>
<td>Dark</td>
<td>Dark blinks, then display goes dark (no visual alerts will be seen)</td>
</tr>
</tbody>
</table>

To Change the Brightness to Bright (Full Brightness)
Press and release the Mark/Dim button a fourth time.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two beeps</td>
<td>Bright</td>
<td>Bright blinks, then display turns to full brightness</td>
</tr>
</tbody>
</table>

Muting an Alert
Your detector allows you to quickly turn Off an audio Alert by pressing the Mute button. If you press the Mute button a second time during the Alert, the audio Alert will be turned back On.

Auto Mute Mode
Auto Mute will automatically reduce the audio volume of all alerts after four seconds for as long as the signal is detected. The factory setting is Auto Mute On.

To Turn Auto Mute Off
Press and release the Mute button while no alert is occurring.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One beep</td>
<td>Auto Mute Off</td>
<td>Auto Mute Off blinks in the display</td>
</tr>
</tbody>
</table>

To Turn Auto Mute On
Press and release the Mute button again while no alert is occurring.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two beeps</td>
<td>Auto Mute On</td>
<td>Auto Mute On blinks in the display</td>
</tr>
</tbody>
</table>
IntelliMute

IntelliMute is a unique feature that allows you to avoid alerts you don’t need to hear because you are stopped or moving slowly. By sensing the “revs” (RPMs) of your engine, IntelliMute knows when you are at low speed and automatically mutes alerts.

Before IntelliMute will work, you must set an activation point for your engine’s revs (see page 11). Whenever the revs are below that point, IntelliMute will begin muting. The activation point will be stored in memory and recalled each time the power is turned On. The factory setting is IntelliMute Off.

**NOTE**
IntelliMute may not work with some vehicles because it cannot sense the engine’s revs. In such cases, you can reduce unwanted audio alerts by using Auto Mute and City mode when appropriate.

### IntelliMute Button

<table>
<thead>
<tr>
<th>Press and release the IntelliMute button.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tone</strong></td>
</tr>
<tr>
<td>Two beeps</td>
</tr>
</tbody>
</table>

### To Turn IntelliMute Off

<table>
<thead>
<tr>
<th>Press and release the IntelliMute button again.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tone</strong></td>
</tr>
<tr>
<td>One beep</td>
</tr>
</tbody>
</table>

### What to Remember While Using IntelliMute

IntelliMute works with both City and Auto Mute modes. Whenever engine revs are below the activation point, an arrow pointing down will appear in the display. Above the activation point, an arrow pointing up will appear.

**Below Activation Point**

If, for any reason, the unit stops sensing your engine’s revs, IntelliMute will indicate an error and automatically turn Off. The rev point you set will be stored in the unit’s memory when power is turned Off and recalled each time the power is turned On.

**NOTE**
The rev point must be reset if you use your detector in a different vehicle.

**NOTE**
When initially choosing your IntelliMute activation point, a setting of approximately 300 to 600 RPMs above idle is recommended. You can reset the activation point at any time to fit your individual preferences and driving style.

### Setting the IntelliMute Activation Point

Your detector must be installed in your vehicle.

**CAUTION**
Do not attempt to set the rev point while driving. Your vehicle should be parked and idling.

IntelliMute must be turned On before setting the activation point. Depending on whether the unit is in Tone Alert or Voice Alert mode, you will hear a series of beeps or voice messages as you follow the steps on the next page.
IntelliMute Pro

IntelliMute Pro prevents detection by radar detector detectors (RDDs) such as VG-2, Spectre I and Spectre IV when traveling at slower speeds. It is intended for use by experienced users only.

When IntelliMute Pro is turned On, and engine RPMs are below the IntelliMute activation point, your detector’s radar detection circuits are turned Off to prevent detection by RDDs.

Before IntelliMute Pro can be turned On, you must have turned On and Set the IntelliMute activation point. (See pages 11 through 12.)

To Set the IntelliMute Activation Point

<table>
<thead>
<tr>
<th>Press and hold the IntelliMute button for two seconds.</th>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two beeps</td>
<td>Set Engine Revs</td>
<td>Press IntelliMute button again at desired RPMs</td>
<td></td>
</tr>
</tbody>
</table>

Rev your engine to the level you wish to set (recommend slightly above idle) and hold revs steady for two seconds.

| None | None | None |

At the desired rev level, press and release the IntelliMute button.

| Three beeps | IntelliMute Set | IntelliMute Set! |

CAUTION
When IntelliMute Pro is On, NO radar signals will be detected and NO alerts will be given at RPMs below the IntelliMute activation point.

NOTE
The arrow up or down will continue to show that engine RPMs are above or below the user-set value.

To Turn IntelliMute Pro On

While no signal is being detected, press and hold both the IntelliMute and City/Hwy buttons for four seconds.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two beeps</td>
<td>IntelliMute Pro On</td>
<td>i blinks continuously in the display after IntelliMute Pro On blinks</td>
</tr>
</tbody>
</table>

To Turn IntelliMute Pro Off

Press and hold both the IntelliMute and City/Hwy buttons for four seconds.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One beep</td>
<td>IntelliMute Pro Off</td>
<td>IntelliMute Pro Off blinks in the display</td>
</tr>
</tbody>
</table>
Voice/Tone Setting

You can set your detector to sound alerts with either a **Voice** or a **Tone**. You can change settings by using the **Mute** button.

In Voice Alert mode, you will first hear several tones, then a voice message announcing the type of signal detected, followed by more tones. In Tone Alert mode, you will hear the tones only. The factory setting is Voice Alert mode.

To Change From Voice Alert to Tone Alert

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One beep</td>
<td>Tone Alert</td>
<td>Tone Alert blinks in the display</td>
</tr>
</tbody>
</table>

To Change From Tone Alert Back to Voice Alert

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Voice Alert</td>
<td>Voice Alert blinks in the display</td>
</tr>
</tbody>
</table>

VG-2 and Spectre I & IV Alert Settings

Police use radar detector detectors (RDDs) to spot users of radar detectors. Your detector is able to identify signals from *VG-2, Spectre I* and *Spectre IV* RDDs and can provide alerts when any of these or similar devices are in use near your vehicle.

Your detector can be spotted by Spectre IV RDDs, but is invisible to VG-2 and Spectre I RDDs. You can choose whether you want to be alerted to VG-2 and Spectre I & IV RDD signals. The factory setting for VG-2 and Spectre I & IV alerts is Off.

To Turn VG-2 and Spectre I & IV Alerts On and Off

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>On = Two beeps</td>
<td>Spectre VG-2 On</td>
<td>Spectre I/VI &amp; VG2 On blinks in the display</td>
</tr>
<tr>
<td>Off = One beep</td>
<td>Spectre VG-2 Off</td>
<td>Spectre I/VI &amp; VG2 Off blinks in the display</td>
</tr>
</tbody>
</table>

*IntelliMute & Dim Button*

Simultaneously press and hold IntelliMute and Dim buttons for four seconds.
Radar Alert Settings

**XKxKu**

**To Turn X Band On and Off**

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>X On = Two beeps</td>
<td>X Band On</td>
<td>X On blinks in the display</td>
</tr>
<tr>
<td>X Off = One beep</td>
<td>X Band Off</td>
<td>X Off blinks in the display</td>
</tr>
</tbody>
</table>

**To Turn K Band On and Off**

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>K On = Two beeps</td>
<td>K Band On</td>
<td>K On blinks in the display</td>
</tr>
<tr>
<td>K Off = One beep</td>
<td>K Band Off</td>
<td>K Off blinks in the display</td>
</tr>
</tbody>
</table>

**To Turn Ka Band On and Off**

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ka On = Two beeps</td>
<td>Ka Band On</td>
<td>Ka On blinks in the display</td>
</tr>
<tr>
<td>Ka Off = One beep</td>
<td>Ka Band Off</td>
<td>Ka Off blinks in the display</td>
</tr>
</tbody>
</table>

**To Turn Ku Band On and Off**

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ku On = Two beeps</td>
<td>Ku Band On</td>
<td>Ku On blinks in the display</td>
</tr>
<tr>
<td>Ku Off = One beep</td>
<td>Ku Band Off</td>
<td>Ku Off blinks in the display</td>
</tr>
</tbody>
</table>

**Pop Alert**

The Pop Mode Radar Gun is a single-pulse Doppler radar that is a feature of a K and Ka (Bee III Ka radar gun) band Instant-On radar gun. It uses a single, short-time pulse to measure the target vehicle's speed.

The Pop mode receiver senses Pop signals beyond the effective range of Pop radar guns. As the Pop mode receiver is so sensitive, you should limit the use of Pop Detect mode to highway and rural driving.

**Pop Alert** will alert you to Pop radar signals. During the alert, the unit continues to detect other signals. The factory setting is Pop Detect Off.

**To Turn Pop Alert On and Off**

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pop On = Two beeps</td>
<td>Pop Alert On</td>
<td>Pop Alert On blinks in the display</td>
</tr>
<tr>
<td>Pop Off = One beep</td>
<td>Pop Alert Off</td>
<td>Pop Alert Off blinks in the display</td>
</tr>
</tbody>
</table>
Detection

Signals Detected
The tables on the following pages show you the types of Signals your detector will detect, as well as the voice and visual alerts it provides for each of them.

Audio Alerts
In Voice Alert mode you will first hear several tones, then a voice message announcing the type of signal detected, followed by more tones. In Tone Alert mode, you will hear the tones only.

In both Voice Alert and Tone Alert modes, a distinctly different alert tone is used for each type of signal detected (including separate tones for each laser signal). For X, K, Ka and Ku band radar signals, the tones will repeat faster as you approach the signal source. The repeat rate of the tones gives you useful information about the signal detected. (See responding to alerts on page 21.)

Visual Display
An indication of the type of signal detected will appear in the DigiView Data Display. During X, K, Ka and Ku alerts, you will also see from 1 to 5 vertical bars, indicating the strength of the signal detected.

Radar Signals, Voice and Visual Displays

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Band Radar</td>
<td>X Alert</td>
<td>X and Signal Strength</td>
</tr>
<tr>
<td>K Band Radar</td>
<td>K Alert</td>
<td>K and Signal Strength</td>
</tr>
<tr>
<td>Ka Band Radar</td>
<td>Ka Alert</td>
<td>Ka and Signal Strength</td>
</tr>
<tr>
<td>Ku Band Radar</td>
<td>Ku Alert</td>
<td>Ku and Signal Strength</td>
</tr>
<tr>
<td>Pop Radar</td>
<td>Pop Alert</td>
<td>POP</td>
</tr>
</tbody>
</table>

Laser Signals, Voice and Visual Displays

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTI 20-20*</td>
<td>Laser</td>
<td>Laser 20/20</td>
</tr>
<tr>
<td>LTI Laser*</td>
<td>Laser</td>
<td>LTI Laser</td>
</tr>
<tr>
<td>Kustom Signals Laser 340*</td>
<td>Laser</td>
<td>Kustom Laser 340</td>
</tr>
<tr>
<td>Kustom Signals Laser*</td>
<td>Laser</td>
<td>Kustom Laser</td>
</tr>
<tr>
<td>Stalker LIDAR*</td>
<td>Laser</td>
<td>Stalker LIDAR</td>
</tr>
<tr>
<td>Laser Atlanta SpeedLaser/Kustom Signals-ProLaser II*</td>
<td>Laser</td>
<td>SpeedLaser/ProLaser II</td>
</tr>
</tbody>
</table>

* Your detector provides 360° detection of these signals.

Visual Display (continued)

<table>
<thead>
<tr>
<th>X Signal Detected</th>
<th>K Signal Detected</th>
<th>Ka Signal Detected</th>
<th>Ku Signal Detected</th>
</tr>
</thead>
<tbody>
<tr>
<td>x</td>
<td>K</td>
<td>Ka</td>
<td>Ku</td>
</tr>
<tr>
<td>_</td>
<td>_</td>
<td>_</td>
<td>_</td>
</tr>
<tr>
<td>1</td>
<td>_</td>
<td>_</td>
<td>_</td>
</tr>
<tr>
<td>K</td>
<td>_</td>
<td>_</td>
<td>_</td>
</tr>
<tr>
<td>_</td>
<td>3</td>
<td>_</td>
<td>_</td>
</tr>
<tr>
<td>_</td>
<td>_</td>
<td>5</td>
<td>_</td>
</tr>
<tr>
<td>_</td>
<td>_</td>
<td>_</td>
<td>4</td>
</tr>
</tbody>
</table>

Pop Signal Detected
POP

NOTE
Beep rate changes with different laser alerts.
Detection and Responding to Alerts

Instant-On Detection
Your detector is designed to detect Instant-On speed monitoring signals, which can suddenly appear at full strength.

NOTE
You should take appropriate action immediately whenever an Instant-On alert is given.

Responding to Alerts

<table>
<thead>
<tr>
<th>Description</th>
<th>Interpretation</th>
<th>Recommended Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tone repeats slowly at first, then speeds up rapidly.</td>
<td>Probably police radar.</td>
<td>FULL ALERT</td>
</tr>
<tr>
<td>Tone sounds one time only.</td>
<td>Probably a false alarm, but possibly pulsed radar, Spec-</td>
<td>Exercise caution</td>
</tr>
<tr>
<td>tre I or IV or VG-2 nearby.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tone instantly begins repeating rapidly.</td>
<td>Radar, Spectre I or IV, or VG-2 nearby has been</td>
<td>FULL ALERT</td>
</tr>
<tr>
<td>activated suddenly.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tone repeats slowly as you approach a hill or bridge, then speeds up sharply as you reach it.</td>
<td>Probably police radar beyond the hill or bridge.</td>
<td>FULL ALERT</td>
</tr>
<tr>
<td>Tone repeats slowly for a short period.</td>
<td>Probably a false alarm.</td>
<td>Exercise caution</td>
</tr>
<tr>
<td>Any type of laser alert.</td>
<td>Laser alerts are never false alarms.</td>
<td>FULL ALERT</td>
</tr>
<tr>
<td>Any Safety Alert.</td>
<td>You are nearing an emergency vehicle, railroad crossing or road hazard (construction, accident, etc.).</td>
<td>Exercise caution</td>
</tr>
</tbody>
</table>

Visual Display (continued)

Safety Alert Signals, Voice and Visual Displays

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Vehicles</td>
<td>Emergency Vehicle Approaching</td>
<td>Emergency Vehicles</td>
</tr>
<tr>
<td>Road Hazards</td>
<td>Road Hazard Ahead</td>
<td>Road Hazard</td>
</tr>
<tr>
<td>Trains</td>
<td>Train Approaching</td>
<td>Train</td>
</tr>
</tbody>
</table>

* Your detector provides 360° detection of these signals.

NOTE
There are different tones for each Safety Alert.

Spectre I & IV+ Alert Signal, Voice and Visual Display

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectre I</td>
<td>Spectre Alert</td>
<td>Spectre1</td>
</tr>
<tr>
<td>Spectre IV</td>
<td>Spectre Alert</td>
<td>Spectre4</td>
</tr>
</tbody>
</table>

Spectre I Alert Signal Detected

Spectre IV Alert Signal Detected

NOTE
There are different tones for each radar detector alert.

VG-2 Alert Signal, Voice and Visual Display

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interceptor VG-2</td>
<td>VG-2 Alert</td>
<td>VG-2</td>
</tr>
</tbody>
</table>

VG-2 Alert Signal Detected

NOTE
There are different tones for each for each radar detector alert.
Understanding Radar and Laser

Radar Speed Monitoring Systems
Three band frequencies have been approved by the Federal Communications Commission (FCC) for use by speed monitoring radar equipment:

- **X band**: 10.525 GHz
- **K band**: 24.150 GHz
- **Ka band**: 33.400 – 36.00 GHz

Your detector detects signals in all three radar bands, plus Ku band (13.435 GHz), which is an approved frequency used in parts of Europe and Asia.

VG-2 and Spectre I & IV
VG-2 and Spectre I & IV are radar detector detectors (RDDs) that work by detecting low-level signals emitted by most radar detectors. Your detector does not emit signals that can be spotted by VG-2 and Spectre I RDDs. However, your detector can be spotted by Spectre IV RDDs. Your unit detects signals from these or similar devices and will alert you when such a device is in use near your vehicle.

Safety Alert Traffic Warning System
FCC-approved Safety Alert transmitters emit microwave radar signals that indicate the presence of a safety-related concern. Depending on the frequency of the signal emitted, it can indicate a speeding emergency vehicle or train, or a stationary road hazard.

Because these microwave signals are within the K band frequency, most conventional radar detectors will detect Safety Alert signals as standard K band radar. Your detector, however, is designed to differentiate between standard K band and Safety Alert signals, and give separate alerts for each.

Safety Alert technology is relatively new. Safety Alert transmitters can be found in limited numbers in all 50 states, but the number is growing. Depending on your location, you may not receive these alerts regularly and may often encounter emergency vehicles, trains and road hazards without being alerted. As the number of transmitters increases, these alerts will become more common.

When you receive such an alert, please watch for emergency vehicles ahead of you, on cross streets and behind you. If you see an emergency vehicle approaching, please pull over to the right side of the road and allow it to pass.

LIDAR (Laser)
The correct name for the technology that most people refer to as laser is actually LIDAR, which stands for Light Detection and Ranging.

LIDAR operates much like radar. Its signal spreads out like a radar signal, though not as widely. Unlike radar, LIDAR must have a clear line of sight to its target vehicle throughout the entire measurement interval. Obstructions such as sign posts, utility poles, tree branches, etc., will prevent valid speed measurement.

Some common questions about LIDAR include:

- **Does weather have any affect on LIDAR?**
  Yes. Rain, snow, smoke, fog or airborne dust particles will reduce the effective range of LIDAR and can, if dense enough, prevent its operation.

- **Can LIDAR operate through glass?**
  Yes. Newer LIDAR guns can obtain readings through most types of glass. However, the laser pulse also can be received through glass to trigger an alarm by your detector.

- **Can LIDAR operate while in motion?**
  No. Because LIDAR operates by line of sight, the person using it cannot drive the vehicle, aim and operate the gun all at the same time.

- **Is it legal for police to use LIDAR?**
  Yes, LIDAR is allowed to be used in all 50 States by police. Your detector detects LIDAR (laser).
Global Position System Locator (GPS Locator)

Overview

The GPS Locator unit monitors vehicle location using the GPS satellite system to add features to your detector. Whenever it is installed and GPS signals are available, it:

- Provides alerts as you approach photo-enforced intersections and locations with fixed red light or speed cameras, as well as known speed traps and areas where increased caution should be exercised (such as a high-accident intersection). The built-in location database can be updated at Cobra’s website to stay current with photo-enforced locations, known speed traps and caution areas. See www.cobra.com/AURA for details.
- Allows you to identify and store up to 1,000 User Alert Locations in addition to those in the database.
- Provides speed and direction of travel information (compass).

Registration

The database built into your GPS Locator is populated with the latest data available during production. However, due to the time elapsed between production and your purchase, the database may not be 100% up-to-date. Therefore it is highly recommended that you register and update your product before you first use it. Then, periodically perform AURA database updates to ensure that your GPS Locator works as effectively as possible.

Connecting to your Detector

Simply plug the GPS Locator into the USB socket on right side of the detector. No external power connection is needed for the GPS Locator; it is powered from the detector unit.

Minimum system requirements:
Windows® XP or Vista Operating System; Internet access; 64 MB System RAM; USB (1.1 or above); 20 MB of available on hard drive.

Registration and initial update:

2. Select your detector model.
3. Complete the registration form and click “Register.”
4. Click on “Update My Data” and follow the online instructions.
5. Once installed, launch the updater and follow on screen instructions.
6. When update is complete, remove the GPS Locator from the PC.
   It is ready to plug into your detector.

Subsequent updates:

1. Access the internet on your PC.
2. Plug your GPS Locator into your PC’s USB port for automatic update of new data.

GPS Locator Status

The status of the GPS Locator is shown at start-up with Locked or No Lock flashing on the screen during that sequence (see page 5). When the GPS Locator is connected, the standby screen shows your vehicle’s compass heading (eight point), speed and the City or Highway symbol.

- If GPS Lock is lost, the Compass heading and speed will change to dashes.
- Headed northwest at 55 miles per hour with GPS signal locked.
- If GPS Lock is lost, the Compass heading and speed will change to dashes.
- Nothing Comes Close to a Cobra®
User Locations

The GPS Locator database is populated with all the Photo Enforcement, Caution Area and Known Speed Trap locations known at the time of its last update.

You can add User Locations of your own to alert you to places other than those in the Photo Enforcement, Caution Area, and Known Speed Trap categories. Whenever your vehicle approaches a user set location, the alarm chime will sound and the screen will show User Location.

- To set a User Location:
  - With the GPS Locator unit connected to the detector, press and hold the Mark/Dim button for two seconds when your vehicle is at a Location you want to set.
- To delete a specific User Location:
  - While a User Location Alert is sounding at a Location you have set, press and hold the Mark/Dim button for two seconds.

GPS Settings

All of the settings associated with the GPS Locator except Known Speed Trap Locations and IntelliScope are always On and cannot be selectively turned Off.

If you do not want to hear or see alerts for Photo Enforcement, Caution Area and User Locations, simply remove the GPS Locator from the unit. This will also remove the Compass and Speed information.

All radar and laser alerts will continue to function even when the GPS Locator is removed.

Photo Enforcement Areas

These are fixed red light and speed cameras.

Caution Areas

These are high-accident intersections and other dangerous locations.

Known Speed Traps

These are areas where it is known that mobile enforcement units are frequently deployed. If you do not want to receive Speed Trap alerts while the GPS Locator is connected, you can turn them Off. The factory default is Speed Traps On.

To Turn Off and On Speed Trap Alerts

With the GPS Locator connected and unit power Off, press and hold the Mark/Dim button. Then turn the power On and continue to hold the Mark/Dim button for two seconds.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed Trap Alerts Off = One beep</td>
<td>Speed Trap Alerts Off</td>
<td>Speed Trap Alerts Off blinks in the display</td>
</tr>
<tr>
<td>Speed Trap Alerts On = Two beeps</td>
<td>Speed Trap Alerts On</td>
<td>Speed Trap Alerts On blinks in the display</td>
</tr>
</tbody>
</table>

Speed Units

Speed units can be selected as miles per hour (mph) or kilometers per hour (km/h). The factory default is mph.

To Toggle Between mph and km/h

With the GPS Locator connected and unit power Off, press and hold the City/Hwy button. Then turn the power On and continue to hold the City/Hwy button for two seconds.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Miles per hour</td>
<td>mph</td>
</tr>
<tr>
<td>None</td>
<td>Kilometers per hour</td>
<td>km/h</td>
</tr>
</tbody>
</table>

GPS Alerts

When a Location-Based Alert other than a Known Speed Trap is activated, the screen will show the distance between your vehicle and the Location as Zones 1, 2, and 3 with Zone 1 being the furthest from the location.
Visual Display
In addition to distance from the Location, the screen will show the type of alert.

<table>
<thead>
<tr>
<th>Photo Enforced Areas</th>
<th>Caution Areas</th>
<th>User Location</th>
<th>SPEED TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>CA</td>
<td>UL</td>
<td>SPEED TR</td>
</tr>
</tbody>
</table>

IntelliScope
IntelliScope adds direction information to the distance and type of Location-Based Alert (other than Known Speed Trap Locations) by showing an arrow at the right of the screen.

In zones 1 and 2 the arrow will point in the approximate direction of the Location. In zone 3, the location is in front of you. The factory setting is IntelliScope On.

IntelliScope Alert Signal For a Location Directly Ahead
Display while approaching a Photo Enforcement Location on your route and directly ahead.

Zone 1 Zone 2 Zone 3
PE CA PE CA PE CA

NOTE The arrow disappears in Zone 3 when you are close to the Location.

IntelliScope Alert Signal Sequence When You Turn Toward the Location
Display while approaching a Photo Enforcement Location involving a turn onto a cross street where it is located.

Zone 1 Zone 2 Zone 3
PE CA PE CA PE CA

NOTE The arrow changes to straight ahead after turning onto the cross street where the Location is.

IntelliScope (continued)
IntelliScope Alert Signal Sequence When Location Is Off Your Route
Display while approaching and passing a Caution Area that is some distance away to the right of your route.

Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6
CA CA CA CA CA CA

NOTE The signal never enters zone 3 since you never get close to the Location.

When IntelliScope is turned Off, Location-Based Alerts will be sounded only when the Location is ahead of you and in the direction of your vehicle’s travel. No arrow will be shown on the screen.

For example, if a particular red light camera operates only for vehicles going north and your vehicle is going south, you will not receive an alert with IntelliScope turned Off. With IntelliScope turned On, you will receive an alert at that Location even though the camera does not operate in your direction.

To Turn IntelliScope Off and On
With the GPS Locator connected and unit power Off, press and hold the IntelliMute button. Then turn the power On and continue to hold the IntelliMute button for two seconds.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>IntelliScope Off = One beep</td>
<td>IntelliScope Off</td>
<td>IntelliScope Off blinks in the display</td>
</tr>
<tr>
<td>IntelliScope On = Two beeps</td>
<td>IntelliScope On</td>
<td>IntelliScope On blinks in the display</td>
</tr>
</tbody>
</table>

NOTE IntelliScope does not indicate the direction of Known Speed Traps. Whenever you approach Known Speed Trap Locations, the warning will scroll across the display.
Maintenance

Your detector is designed and built to give you years of trouble-free performance without the need for service. No routine Maintenance is required.

If you have added the GPS Locator unit to your detector, you can update the database of Photo Enforced locations. Go to Cobra’s website (www.cobra.com) and follow the online instructions.

If your unit does not appear to be operating properly, please follow these troubleshooting steps:

- Make sure the power cord is properly connected.
- Make sure the socket of your vehicle’s cigarette lighter is clean and free of corrosion.
- Make sure the power cord’s cigarette lighter adapter is firmly seated in your cigarette lighter.
- Check the power cord fuse. (Unscrew the ribbed end cap of the cigarette lighter adapter and examine the fuse. If required, replace it with a 2-amp fuse only.)

Specifications

Band and Frequencies

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Band</td>
<td>10.525 ± 0.050 GHz</td>
</tr>
<tr>
<td>K Band</td>
<td>24.125 ± 0.125 GHz</td>
</tr>
<tr>
<td>Ka Band</td>
<td>34.700 ± 1.300 GHz</td>
</tr>
<tr>
<td>Ku Band</td>
<td>13.435 ± 0.035 GHz</td>
</tr>
<tr>
<td>VG-2</td>
<td>11.500 ± 0.250 GHz</td>
</tr>
<tr>
<td>Laser</td>
<td>910 ± 50 nm 100 PPS</td>
</tr>
<tr>
<td>910 ± 50 nm 125 PPS</td>
<td></td>
</tr>
<tr>
<td>910 ± 50 nm 130 PPS</td>
<td></td>
</tr>
<tr>
<td>910 ± 50 nm 200 PPS</td>
<td></td>
</tr>
<tr>
<td>910 ± 50 nm 238 PPS</td>
<td></td>
</tr>
<tr>
<td>910 ± 50 nm 340 PPS</td>
<td></td>
</tr>
<tr>
<td>Spectre I</td>
<td>13.300 ± 0.200 GHz</td>
</tr>
<tr>
<td>Spectre IV/IV+</td>
<td>Not Disclosed</td>
</tr>
<tr>
<td>Safety Alert</td>
<td>24.070 ± 0.010 GHz</td>
</tr>
<tr>
<td>Traffic Warning</td>
<td>24.110 ± 0.010 GHz</td>
</tr>
<tr>
<td>System</td>
<td>24.190 ± 0.010 GHz</td>
</tr>
<tr>
<td></td>
<td>24.230 ± 0.010 GHz</td>
</tr>
</tbody>
</table>
Product Service

For any questions about operating or installing this new Cobra product, or if parts are missing...PLEASE CALL COBRA FIRST...do not return this product to the store. See customer assistance on page A1.

If this product should require factory service, please call Cobra before sending the product. This will ensure the fastest turn-around time on any repair. If Cobra asks that the product be sent to its factory, the following must be furnished to have the product serviced and returned:

1. For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon of a sales receipt. Make sure the date of purchase and product model number are clearly readable. If the originals are sent, they cannot be returned;

2. Send the entire product;

3. Enclose a description of what is happening with the product. Include a typed or clearly printed name and address of where the product is to be returned, with phone number (required for shipment);

4. Pack product securely to prevent damage in transit. If possible, use the original packing material;

5. Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or Priority Mail to avoid loss in transit to: Cobra Factory Service, Cobra Electronics Corporation, 6500 West Cortland Street, Chicago, Illinois 60707 U.S.A.;

6. If the product is in warranty, upon receipt of the product it will either be repaired or exchanged depending on the model. Please allow approximately 3 – 4 weeks before contacting Cobra for status. If the product is out of warranty, a letter will automatically be sent with information as to the repair charge or replacement charge.

For any questions, please call 773-889-3087 for assistance.

Optional Accessories

You can find quality Cobra products and accessories at your local Cobra dealer, or in the U.S.A., you can order directly from Cobra. See order info on page 33.

Plug-in GPS Locator Unit
Item #RDA GPSL66

Straight 12V DC Power Cord
Includes plug and fuse
Item #420-030-N-001

Windshield Mounting Bracket
Includes suction cups
Item #545-159-N-001

Coiled 12V DC Power Cord
Includes plug and fuse
Item #420-026-N-001

Dual Port Power Adapter
Includes adjustable plug (up to 90°) & fuse
Item #CLP-2B