Important Information and Customer Assistance

Introduction

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.

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.

Customer Assistance

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 6:00 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. productinfo@cobra.com (e-mail).

For Assistance Outside the U.S.A.
Contact Your Local Dealer

©2009 Cobra Electronics Corporation
6500 West Cortland Street
Chicago, Illinois 60707 USA
www.cobra.com

The Cobra line of quality products includes:

CB Radios
microTALK® Radios
Radar/Laser Detectors
Safety Alert® Traffic Warning Systems
Mobile GPS Navigation Systems
HighGear® Accessories
CobraMarine® VHF Radios
Marine Chartplotters
Power Inverters
Accessories

For more information or to order any of our products, please visit our website: www.cobra.com
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, VG-2 signals, Spectre I & IV+ 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

This booklet describes the simple steps for mounting and setting up your detector. It also provides helpful information about how radar and laser guns are used and how you can interpret the alerts you receive.

**Product Features**

**Easy setting of radar bands to be monitored**

**Alert Programming**
- Easy-to-read with adjustable brightness

**City or Highway**
- Modes to reduce false alerts

**Alarm Reporting**
- Easy setting of radar bands to be monitored

**Safety Alert**
- Traffic warning system distinguishes important safety alerts from other K band signals

**Manual Mute or Auto Mute**
- A mute function of audio alerts

**IntelliMute**
- A mute function reduces false audio alerts by sensing engine RPMs

**IntelliMute Pro**
- Prevents detection by radar detector detectors (RDDs) when traveling at slower speeds

**Mounting**
- Mounts easily on windshield or dashboard

**UltraBright Data Display**
- Electronic engine RPM sensing mute function which reduces false alerts, Button turns IntelliMute On and Off. (Also enters IntelliMute setting mode)

**City Button**
- For City or Highway modes to reduce false alerts. (Also turns Voice Alert On and Off)

**Mute Button**
- For manual mute or audio mute of audio alerts. (Also turns Voice Alert On and Off)

**LaserEye**
- For 360° detection of laser signals

**Pop, Laser, UltraBright Data Display**
- Electronic engine RPM sensing mute function which reduces false alerts, Button turns IntelliMute On and Off. (Also enters IntelliMute setting mode)

**For manual mute or audio mute of audio alerts. (Also turns Voice Alert On and Off)**

**NOTE: In this Manual**
- When steady, the display will be shown:

- When blinking, the display will be shown:

- X & K will light simultaneously when indicating K band detection

**When steady,**

**When blinking,**

- X & K will light simultaneously when indicating K band detection

**Display and Product Features**

**NOTE:** This Manual

- When steady,

- The display will be shown:

- When blinking,

- The display will be shown:

- X & K will light simultaneously when indicating K band detection

**Controls, Indicators and Connections**

**12V DC Power Jack**
- On/Off/Volume Control
- Allows you to adjust the volume of the tone alerts.

**Windshield Bracket Release Button**
- Allows you to adjust the UltraBright Data Display brightness for easy reading. (Also turns VG-2 and Spectre I & IV+ Alerts On and Off.)

**Audio Jack**
- IntelliMute Button
- Engine RPM sensing mute function which reduces false alerts, Button turns IntelliMute On and Off. (Also enters IntelliMute setting mode)

**Speaker**
- Mute Button
- For manual mute or audio mute of audio alerts. (Also turns Voice Alert On and Off)

**Windshield Bracket Mount**
- LaserEye
- For 360° detection of laser signals

**Display**
- Radar, VG-2
- Spectre I & IV+ and Safety Indicators

**Signal Strength, Pop, Laser, City/Highway and IntelliMute Pro Mode Indicators**
- Signal Strength 1 (weakest) to 5 (strongest)
- IntelliMute Indicator

**X K Ka V S L**

**Accessories Order Info and Trademark Acknowledgement**

**Ordering From U.S.A.**
- Call 773-889-3087 for pricing or visit www.cobra.com.
- For Credit Card Orders
  - Call 773-889-3087 (Press one from the main menu) 8 a.m. to 6 p.m. Central Time, Monday through Friday.
- Make Check or Money Order Payable To Cobra Electronics, Attn: Accessories Dept., 6500 West Cortland Street, Chicago, IL 60707 U.S.A.
- To Order Online
  - Please visit our website: www.cobra.com.

**Item #**

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<tr>
<td>420-920-N-001 Straight 12V Power Cord</td>
</tr>
<tr>
<td>420-926-N-001 Coiled 12V Power Cord</td>
</tr>
<tr>
<td>545-159-N-001 Windshield Mounting Bracket</td>
</tr>
<tr>
<td>CLP-28 Dual Port Power Adapter</td>
</tr>
</tbody>
</table>

**Trademark Acknowledgement**

**Cobra®, DigiView®, EasySet®, Extra Sensory Detection®, IntelliMute®, IntelliMute Pro®, IntelliShield®, LaserEye®, Nothing Comes Close to a Cobra®, Safety Alert® Traffic Warning System, Strobe Alert®, VG-2 Alert®, Xtreme Range Superheterodyne® and the snake design are registered trademarks of Cobra Electronics Corporation, USA.**

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**Clp-28 Dual Port Power Adapter**

**3M**
- Optic™ is a trademark of 3M Corporation. Instaclear® is a registered trademark of Lamotte and Applied Concepts, Inc. Spectre III™ and Spectre™ V™ are trademarks of Stealth Micro Systems Pty Ltd. Speed.laser™ is a trademark of Laser Atlanta, LLC. (Formerly VG-2™ is a trademark of TechniGonics Industries Ltd. Tomar® is a registered trademark of TOMAR Electronics, Inc.
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"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. Make sure the unit is level with the road. 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.

Windshield Mounting

Dashboard Mounting

The LaserEye Should Have a Clear View

Radar and laser 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.

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 the angle of the unit.
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 pressing the bracket release button and sliding it off the bracket.
Dashboard Mounting

1. Place the detector on the dashboard to find a location where the unit has a clear, level view of the road. The angle can NOT 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. You can remove and reattach the unit as often as you like.

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

Getting Started

Power On

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

To Turn On the Unit and Adjust the Audio Volume

<table>
<thead>
<tr>
<th>Rotate the On-Off/ Volume control clockwise (away from you).</th>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three beeps</td>
<td>Testing, then three beeps System Ready, then Voice Alert</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

Auxiliary Audio Jack

The Auxiliary Audio Jack can be used to connect external speakers in environments with high ambient noise levels. The internal speaker will be disconnected. (This uses a mini stereo audio connector.)
**Settings**

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

- Buttons can have multiple functions.
- 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.

**Highway/City 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 below, 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.

### To Change From Highway Mode to City Mode

<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 button Press and release</td>
</tr>
</tbody>
</table>

### To Change From City Mode Back to Highway Mode

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two beeps</td>
<td>Highway</td>
<td>City button Press and release</td>
</tr>
</tbody>
</table>

**UltraBright Data Display Brightness**

You can choose from three settings for Brightness of the display. You can cycle through the settings by repeatedly pushing the Dim button. The factory setting is Bright.

- **Bright**
  - Press and release Dim button twice.
  - Tone: Two beeps
  - Voice: Bright
  - Visual Display: Display returns to full brightness

- **Dark**
  - Press and release Dim button once.
  - Tone: One beep
  - Voice: Dark
  - Visual Display: Display remains dim (no visual alerts will be seen)

- **Dim**
  - Press and release Dim button.
  - Tone: One beep
  - Voice: Dim
  - Visual Display: Display dims

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

- Buttons can have multiple functions.
- 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.

**Highway/City Mode**

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### To Change From Highway Mode to City Mode

<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 button Press and release</td>
</tr>
</tbody>
</table>

### To Change From City Mode Back to Highway Mode

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two beeps</td>
<td>Highway</td>
<td>City button Press and release</td>
</tr>
</tbody>
</table>

**UltraBright Data Display Brightness**

You can choose from three settings for Brightness of the display. You can cycle through the settings by repeatedly pushing the Dim button. The factory setting is Bright.

- **Bright**
  - Press and release Dim button twice.
  - Tone: Two beeps
  - Voice: Bright
  - Visual Display: Display returns to full brightness

- **Dark**
  - Press and release Dim button once.
  - Tone: One beep
  - Voice: Dark
  - Visual Display: Display remains dim (no visual alerts will be seen)

- **Dim**
  - Press and release Dim button.
  - Tone: One beep
  - Voice: Dim
  - Visual Display: Display dims
Muting an Alert
Your detector allows you to quickly turn off an audio alert by momentarily 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 for Auto Mute is On.

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 audio radar alerts.

Before IntelliMute will work, you must set an activation point for your engine’s revs (see page 10). 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.

To Turn Auto Mute Off
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>One beep</td>
<td>Auto Mute Off</td>
<td>None</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>None</td>
</tr>
</tbody>
</table>

To Turn IntelliMute On
Press and release the IntelliMute button.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two beeps</td>
<td>IntelliMute On</td>
<td>Dot appears next to the large character on the right</td>
</tr>
</tbody>
</table>

To Turn IntelliMute Off
Press and release the IntelliMute button again.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One beep</td>
<td>IntelliMute Off</td>
<td>Dot disappears</td>
</tr>
</tbody>
</table>
What to Remember While Using IntelliMute

IntelliMute works with both City and Auto Mute modes.

Whenever your engine revs are below the activation point, the dot next to the large character on the right side of the display will remain lit. Above the activation point, the dot will blink twice every two seconds.

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.

To Set the IntelliMute Activation Point

Press and hold the IntelliMute button for two seconds.

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

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

NOTE
If the unit is unable to sense usable pulses within three seconds or if you do not set a rev point within 20 seconds of beginning these steps, IntelliMute will indicate an error and automatically turn Off.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>Three bars will flash in succession</td>
</tr>
<tr>
<td>Three beeps</td>
<td>IntelliMute Set</td>
<td>All three bars flash three times</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tone</th>
<th>Voice</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four beeps</td>
<td>IntelliMute Error, followed by IntelliMute Off</td>
<td>E appears</td>
</tr>
</tbody>
</table>
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 Turn VG-2 and Spectre I & IV+ Alerts On and Off
While no signal is being detected, press and hold the **Dim** button for four seconds.

<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>None</td>
</tr>
</tbody>
</table>

### To Change From Voice Alert to Tone Alert
While no signal is being detected, press and hold the **Mute** button for two seconds.

### To Change From Tone Alert Back to Voice Alert
While no signal is being detected, press and hold the **Mute** button for two seconds again.

### 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 IntelliMute Pro On
While no signal is being detected, press and hold both the **IntelliMute** and **City** 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>e or h will blink</td>
</tr>
</tbody>
</table>

### To Turn IntelliMute Pro Off
Press and hold both the **IntelliMute** and **City** 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>e or h will show steady</td>
</tr>
</tbody>
</table>

### 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 9 through 11.)

### To Turn IntelliMute Pro On
While no signal is being detected, press and hold both the **IntelliMute** and **City** buttons simultaneously.

<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>e or h will blink</td>
</tr>
</tbody>
</table>

### To Turn IntelliMute Pro Off
Press and hold both the **IntelliMute** and **City** 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>e or h will show steady</td>
</tr>
</tbody>
</table>

### 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.

### 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
While no signal is being detected, press and hold the **Mute** button for two seconds.

<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>None</td>
</tr>
</tbody>
</table>

#### To Change From Tone Alert Back to Voice Alert
While no signal is being detected, press and hold the **Mute** button for two seconds again.

<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>None</td>
</tr>
</tbody>
</table>
Your Detector

Your Detector

Radar Alert Settings

The detector allows you to choose whether it will show alerts on the X, K and Ku bands. The factory settings are: X Band and K Band On; Ku Band Off.

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 Off = One beep</td>
<td>X will blink twice 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 Off = One beep</td>
<td>K will blink once 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 Off = One beep</td>
<td>X and K will blink twice 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 singles 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.

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 18.)

Visual Display

An indication of the type of signal detected will appear in the UltraBright data Display. During X, K, Ka and Ku alerts, a number will also appear, indicating the strength of the signal detected. (1 = weakest, 5 = strongest)
Your Detector

Detection

During pop alerts, the letter P will appear; and during laser alerts, the letter L will appear, instead of the signal strength indication.

During VG-2 or Spectre I or IV+ alerts, the letter V will appear. It will be steady during VG-2 and blink during Spectre I or IV+.

During Safety Alert, the letter S will appear.

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>Ku Band Radar</td>
<td>Ku Alert</td>
<td>Ku and Signal Strength</td>
</tr>
<tr>
<td>Pop Radar Mode</td>
<td>Pop Alert</td>
<td>P is Steady</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 Alert</td>
<td>L is Steady</td>
</tr>
<tr>
<td>LTI Ultra-Lyte*</td>
<td>Laser Alert</td>
<td>L is Steady</td>
</tr>
<tr>
<td>Kustom Signals ProLaser*</td>
<td>Laser Alert</td>
<td>L is Steady</td>
</tr>
<tr>
<td>Kustom Signals ProLaser III*</td>
<td>Laser Alert</td>
<td>L is Steady</td>
</tr>
<tr>
<td>Stalker LIDAR*</td>
<td>Laser Alert</td>
<td>L is Steady</td>
</tr>
<tr>
<td>Laser Atlanta – Speedlaser*</td>
<td>Laser Alert</td>
<td>L is Steady</td>
</tr>
</tbody>
</table>

NOTE

There are different tones for each Safety Alert.

VG-2 and Spectre I or IV+ 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>VG-2 Alert Signal Detected</td>
<td>VG-2 Alert</td>
<td>V is Steady</td>
</tr>
<tr>
<td>Spectre Alert Signal Detected</td>
<td>Spectre Alert</td>
<td>V Blinks</td>
</tr>
</tbody>
</table>

NOTE

There are different tones for each alert.

* Your detector provides 360˚ detection of these signals.

Beep rate changes with different laser alerts.

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 Vehicle Approaching</td>
<td>Emergency Vehicle Approaching</td>
<td>S is Steady</td>
</tr>
<tr>
<td>Road Hazard Ahead</td>
<td>Road Hazard Ahead</td>
<td>S is Steady</td>
</tr>
<tr>
<td>Train Approaching</td>
<td>Train Approaching</td>
<td>S is Steady</td>
</tr>
</tbody>
</table>

NOTE

There are different tones for each Safety 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.

### 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, VG-2, or Spectre I or IV+ nearby.</td>
<td>Exercise caution</td>
</tr>
<tr>
<td>Tone instantly begins repeating rapidly.</td>
<td>Radar, VG-2 or Spectre I or IV+ nearby has been activated suddenly.</td>
<td>FULL ALERT</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>Any 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>

### 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.
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>X Band</td>
<td>24.125 ± 0.125 GHz</td>
</tr>
<tr>
<td>Safety Alert</td>
<td>24.070 ± 0.010 GHz</td>
</tr>
<tr>
<td>Traffic Warning System</td>
<td>24.110 ± 0.010 GHz</td>
</tr>
<tr>
<td>24.190 ± 0.010 GHz</td>
<td></td>
</tr>
<tr>
<td>24.230 ± 0.010 GHz</td>
<td></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>Spectre I</td>
<td>13.300 ± 0.200 GHz</td>
</tr>
<tr>
<td>Spectre IV+</td>
<td>Not Disclosed</td>
</tr>
<tr>
<td>Laser</td>
<td>910 ± 50 nm</td>
</tr>
</tbody>
</table>

This radar detector is covered by one or more of the following U.S. patents: 5,497,148; 5,594,432; 5,612,685; 6,078,279; 6,094,148. Additional patents may be listed inside the product or pending.

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 LIDAR legal to use?**
  Yes. It is legal in all 50 states.

Maintenance of Your Radar Detector

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 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.)
**Limited 1-Year Warranty**

For Products Purchased in the U.S.A.

Cobra Electronics Corporation warrants that its Cobra 14 Band Radar/Laser Detectors, and the component parts thereof, will be free of defects in workmanship and materials for a period of one year from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

Cobra will, without charge, repair or replace, at its option, defective 14 Band Radar/Laser Detectors, products or component parts upon delivery to the Cobra Factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra’s expense, if the product is repaired or replaced under warranty.

This warranty gives you specific rights, and you may also have other rights which vary from state to state.

**Exclusions:** This limited warranty does not apply:

1. To any product damaged by accident.
2. In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.
3. If the serial number has been altered, defaced or removed.
4. If the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. Cobra shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

---

**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 first at 773-889-3087 BEFORE sending the product. This will ensure the fastest turnaround 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. Send the complete unit, including power cord. (It is not necessary to include the mounting bracket.)
2. For warranty repair, enclose some form of proof-of-purchase, such as a photocopy or carbon copy of a sales receipt. If you send the original receipt, it cannot be returned.
3. Enclose a typed or clearly written description of the problem you are having with your unit, plus the name and address where you want the unit returned.
4. Pack the unit securely to prevent damage during transit. If possible, use the original packing materials.
5. Ship prepaid and insured using a traceable carrier such as United Parcel Service (UPS), Federal Express or Priority mail with delivery confirmation. Ship to: Cobra Factory Service, Cobra Electronics Corporation, 6500 West Cortland Street, Chicago, IL 60707 U.S.A.
6. Please allow three to four weeks before contacting us about the status of your service. Call 773-889-3087 for assistance. If your unit is under warranty, it will either be repaired or replaced upon receipt, depending on the model. If your unit is out of warranty, you will receive a letter informing you of the repair or replacement charge.
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 ordering info on page 25.

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

- **Straight 12V DC Power Cord**
  - Includes plug and fuse
  - Item # 420-030-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˚) and fuse
  - Item # CLP-2B

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

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

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