Operating Instructions for Your Cobra® 11 Band™ Extra Sensory Detection® RADAR/LASER DETECTOR

MODEL ESD-9570

Nothing comes close to a Cobra®
Federal Laws Governing the Use of Radar Detectors
It is not against federal law to receive radar transmissions with your Cobra radar 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 Support
In this user’s manual, you should find all the information you need to install and operate your detector. If you require further assistance after reading through this manual, Cobra Electronics offers the following customer support services:

- **Automated Help Desk** is available in English only 24 hours a day, 7 days a week at 773-889-3087.
- **Customer Service Operators** are available in English or Spanish at 773-889-3087 Monday through Friday, 8:00 a.m. to 6:00 p.m. CST.
- **Questions can be faxed** in English or Spanish to 773-622-2269.
- **Automated Technical Assistance** is available in English or Spanish 24 hours, 7 days a week via e-mail at: productinfo@cobra.com.
- **On-line answers** to frequently asked questions can be found in English only at: www.cobra.com.

Trademark Acknowledgement
Cobra®, DigiView®, LaserEye®, Safety Alert®, Traffic Warning System, VG-2 Alert® and Nothing comes close to a Cobra® are registered trademarks of Cobra Electronics Corporation.
11 Band Ultra™, EasySet™, IntelliMute™, SmartPower™, Spectre Alert™ and Strobe Alert™ are trademarks of Cobra Electronics Corporation.
Opticom™ is a trademark of 3M Corporation.
InstaClear for Ford® is a registered trademark of Ford Motor Company, Inc.
Electriclear for GM® is a registered trademark of General Motors Corporation.
20-20™ and Ultra-Lyte™ are trademarks of Laser Technology, Inc.
ProLaser™ and ProLaser III™ are trademarks of Kustom Signals, Inc.
Bee III™ and Pop™ are trademarks of MPH Industries.
Spectre™ is a trademark of Stalcar.
Interceptor VG-2™ is a trademark of TechniSonic Industries LTD.
Tomar® is a registered trademark of TOMAR Electronics, Inc.

**WARNING**
Modifications or parts substitutions not approved by Cobra Electronics Corporation may violate FCC Rules and void your authority to operate this equipment.
Congratulations

You’ve made a smart choice by purchasing the ESD-9570 radar/laser detector from Cobra. Just look at some of the sophisticated features and capabilities your new unit includes:

- **ULTRA-SENSITIVITY**
  Detects and provides separate alerts for:
  - radar signals (X, K and Ka bands, with signal strength indicated)
  - laser signals
  - emergency vehicle safety and strobe alert signals
  - VG-2 signals
  - Spectre signals
- **LASEREYE** for 360° detection of laser and strobe signals
- **“INSTANT-ON”** speed monitoring detection
- **BEE III POP** single pulse detection
- **TOUCH ALERT** with adjustable volume
- **DIGIVIEW DATA DISPLAY** with easy-to-read alpha/numeric dot matrix text readout
- **3 CITY MODES & HIGHWAY MODE** to reduce false alerts
- **SAFETY ALERT** Traffic Warning System
- **STROBE ALERT**
- **INTELLIMUTE** a mute function which automatically reduces false alerts by sensing engine RPMs
- **SMARTPOWER** a timed power saving function that saves your car’s battery.

**12V DC POWER JACK**

- **ON-OFF/VOLUME** control allows you to adjust the volume of the TONE alerts.

**PROGRAM/MUTE** button to manually mute audio alerts (and to enter programming mode).

**SELECT/DIM** button to adjust the display brightness for easy reading (and to scroll through user mode settings while programming).

**LASEREYE** for 360° detection of laser and strobe signals.

**AUXILIARY AUDIO JACK** for 360° detection of laser and strobe signals.

**SET/CITY** button for CITY or HIGHWAY modes for fewer false alerts (and to change user mode settings while programming).

**12V DC POWER JACK**

- **MANUAL MUTE** or **AUTO MUTE** of audio alerts
- **EASYSET** programming menu
- **AUXILIARY AUDIO JACK** for external speaker connection
- Distinguishes important safety alerts from other K band signals
- Mounts easily on windshield or dashboard

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.

*See “Operations” (pages 5-18) for more information about display features.*
## Table of Contents

### Important information about...

1 **Installation** ........................................................................................................................................... 2-4

2 **Operation—Getting Started** .................................................................................................................. 5

3 **Operation—User Mode Settings** ......................................................................................................... 6-18
   - EasySet Programming: Programming User Modes ........................................................................ 6-8
   - Highway/City Modes ......................................................................................................................... 9
   - IntelliMute ........................................................................................................................................ 10-12
   - Auto Mute Mode, Muting an Alert, Auxiliary Audio Jack ............................................................... 13
   - Compass .......................................................................................................................................... 14-15
   - Pop Alert, VG-2 Alert, Spectre Alert .............................................................................................. 16-17
   - SmartPower ................................................................................................................................. 17
   - DigiView Data Display Brightness ................................................................................................. 18

4 **Detection** ......................................................................................................................................... 19-22
   - Signals Detected ............................................................................................................................ 19
   - Audio Alerts ................................................................................................................................... 19
   - Visual Display ............................................................................................................................... 19-21
   - Instant-On Detection ..................................................................................................................... 22
   - BEE III Pop .................................................................................................................................... 22
   - Responding to Alerts ..................................................................................................................... 22

5 **Understanding Radar and Laser** ....................................................................................................... 23-25

6 **Maintenance and Service** ............................................................................................................... 26-27

7 **Limited 1-Year Warranty** .................................................................................................................. 28

8 **Specifications** .................................................................................................................................. 29

9 **Optional Accessories** .................................................................................................................... 30

10 **Order Form** ...................................................................................................................................... 31
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.

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 sliding it off of 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.

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

Turning Your Unit On

1. Turn on the unit and adjust audio volume by rotating the ON-OFF/VOLUME CONTROL DIAL clockwise (away from you).

2. You will see “TESTING” appear in the display, 3 beeps will sound, then “SYSTEM READY” will appear indicating that the power is on.

3. The display will cycle through the user mode settings (City X, City X Beep Off, City X+K or Highway; IntelliMute and SmartPower status).

4. Start-up is complete when the display continuously shows the current compass direction (N, NE, E, SE, S, SW, W, or NW) plus single letters indicating current user mode settings (“c” = City mode, “c” = City X Beep Off mode, “c” = City X+K 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 make sure to utilize the SmartPower feature of your detector.
EasySet Programming

All user mode settings on your detector can be changed by using Program mode. When changing the settings, please keep in mind:
• Buttons can have multiple functions.
• All settings will be stored in memory when the power is turned off and recalled when the power is turned back on.

In general, the procedure for using Program mode is as follows:

1. Press and hold the PROG/MUTE button for 2 seconds to enter Program mode. You will hear 3 beeps and "PROGRAM" will appear in the display. Then brief programming instructions will scroll through the display two times.

2. While the programming instructions are scrolling, press and release the SELECT/DIM button to cycle through the user modes. You will hear 1 beep each time you press the button. As each mode is displayed, the current setting for that mode will be shown.

3. With the user mode you wish to change displayed, press and release the SET/CITY button to change the setting. You will hear either 1 or 2 beeps, depending on your selection. To move to the next selection, press SELECT/DIM again.

4. When you have finished programming any or all of the user modes, press and release the PROG/MUTE button to exit Program mode. Or simply wait 10 seconds without pushing any buttons. When you exit Program mode, the new setting will automatically be saved and "EXIT PROGRAM" and "Settings Saved!" will appear in the display.

NOTE: You cannot enter Program mode during an alert. The unit will not detect signals while in Program mode. During programming, if no buttons are pushed for 10 seconds, the unit will automatically exit Program mode and save the last settings.

Programming User Modes

The table below shows you how to program all user modes and the settings you can choose from.

NOTE: On the following pages, you will find more detailed explanations of each setting.

See page 12 for instructions on setting the IntelliMute activation point.
See page 15 for instructions on calibrating the compass.
See page 17 for instructions on using SmartPower.

### EasySet Programming Menu

<table>
<thead>
<tr>
<th>MODE</th>
<th>SETTING VISUAL</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>City X Mode Default*</td>
<td>City X</td>
<td>A single beep sounds when the signal is first detected.</td>
</tr>
<tr>
<td>City X Beep Off</td>
<td>Audio for all X band alerts are blocked until signal strength reaches level 3.</td>
<td></td>
</tr>
<tr>
<td>City X + K</td>
<td>Combines the City X mode with prevention of K band audio alerts until signal strength reaches level 1.</td>
<td></td>
</tr>
<tr>
<td>IntelliMute Mode</td>
<td>Intelli Mute On</td>
<td>All alerts (except for strobe signals from emergency vehicles) are automatically muted below the engine rev point you set.</td>
</tr>
<tr>
<td></td>
<td>Intelli Mute Off</td>
<td>Normal operation.</td>
</tr>
</tbody>
</table>

**NOTE:** IntelliMute RPMs (not shown if IntelliMute is off)

See page 12 to set activation point.

**NOTE:** Allows you to set the engine rev point when using IntelliMute.
Highway/City Mode

Your detector has a Highway mode and three different levels of City modes: City X, City X Beep Off and City X+K. City X mode sounds a single beep when the signal is first detected. City X Beep Off mode prevents all X band audio alerts until the signal strength reaches level 3. City X+K mode combines the City X mode with prevention of K band audio alerts until the signal strength reads level 1. This will reduce false alerts while you are driving in or near urban areas where there are many sources for conflicting X or K band signals such as microwave towers and automatic door openers.

Press and hold the SET/CITY button to set the City mode default. The three City modes will cycle as long as the SET/CITY button is held. When the SET/CITY button is released, the City mode currently displayed will be set. (See page 7 for instructions on using the Program mode to select a City mode default.)

Press and hold the SET/CITY button to set the City mode default. The three City modes will cycle as long as the SET/CITY button is held. When the SET/CITY button is released, the City mode currently displayed will be set. (See page 7 for instructions on using the Program mode to select a City mode default.)

City X, City X Beep Off, City X+K modes
Highway mode

The factory setting is Highway. The factory City mode default setting is City X.
IntelliMute

IntelliMute is a unique new feature of your detector 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 all alerts (except for strobe signals from emergency vehicles).

Before IntelliMute will work, you must set an activation point for your engine’s revs (see page 12). Whenever the revs are below that point, IntelliMute will begin muting. The activation point will be stored in memory and recalled each time power is turned on.

When you turn IntelliMute on you will hear 2 beeps and “I” will appear in the display. When you turn IntelliMute off you will hear 1 beep. (See page 7 for instructions using the Program mode to turn IntelliMute mode on or off.)

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 modes when appropriate.

What to Remember While Using IntelliMute

IntelliMute works with all 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.

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.

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

Important: 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.*

1. **Procedure**
   - In Program mode, go to Set IntelliMute. Press and release the SET/CITY button to begin setting IntelliMute RPMs.
   - 2 beeps
   - **Visual Display**
     - Set IntelliMute
     - Press SET at desired RPMs...

2. **Procedure**
   - Rev your engine to the level you wish to set. Rev the engine slightly above idle and hold revs steady for 2 seconds.
   - 1 beep
   - **Visual Display**
     - IntelliMute not set...
     - Please try again...
     - IntelliMute Off
   - **NOTE:** If the unit is unable to sense usable pulses within three seconds, IntelliMute will indicate an error and automatically turn off.

3. **Procedure**
   - At the desired rev level, press and release the SET/CITY button.
   - 3 beeps
   - **Visual Display**
     - IntelliMute Set!
   - **NOTE:** If you do not set a rev point within 20 seconds of beginning these steps, IntelliMute will indicate an error and automatically turn off.

4. **Procedure**
   - Press and release either the SELECT/DIM button to proceed to the next user mode or the PROG/MUTE button to exit the Program mode.
   - none
   - **Visual Display**
     - IntelliMute Off

**Auto Mute Mode**

Auto Mute will automatically reduce the audio volume of all alerts after 4 seconds for as long as the signal is detected. When you turn Auto Mute mode on or off you will hear 2 beeps for Auto Mute on and 1 beep for Auto Mute off. (See page 7 for instructions on using the Program mode to turn Auto Mute on or off)

*The factory setting is Auto Mute on.*

**Muting an Alert**

Your detector allows you to quickly turn off an audio alert by momentarily pressing and releasing the PROG/MUTE button. If you press and release the PROG/MUTE button a second time during the alert, the audio alert will be turned back on.

**Auxiliary Audio Jack**

Use to connect an external speaker in environments with high ambient noise levels. The internal speaker will be disconnected.
**Compass**

Your detector includes an internal 8-point compass that will continuously display your current direction of travel: N, NE, E, SE, S, SW, W, or NW.

**Calibrating the Compass**

*Important:* Before using it for the first time, you must calibrate the compass to provide accurate indications of direction. (See page 15 for instructions on using the Program mode to select Set Compass.)

Calibration allows the compass electronics to measure and store information about the magnetic fields generated by your vehicle. The compass will remain accurately calibrated as long as your detector is mounted in the same place in your vehicle. If you change the location where the unit is mounted or move it to another vehicle, you must recalibrate the compass.

The compass temporarily may not provide accurate readings if you are inside a building or enclosure, or are close to a large metal tractor/trailer, truck, or train. Once you are away from such a location, the compass will work correctly again.

**To calibrate the compass:**

1. **Procedure**
   - In Program mode, go to Set Compass.
   - Press and hold the SET/CITY button to begin setting the compass.
   - **Visual Display**
     - 2 beeps
     - Compass not set...
   - **Tone**
     - 2 beeps
   - **Visual Display**
     - 2 seconds
     - Followed by direction of travel (N, NE, E, SE, S, SW, W, or NW)

2. **Procedure**
   - Within 2 minutes, drive your vehicle in a circle twice, then press the SET/CITY button again.
   - **Visual Display**
     - Compass Set!
   - **Tone**
     - 3 beeps
   - **Visual Display**
     - 2 seconds

3. **Procedure**
   - Press and release either the SELECT/DIM button to proceed to the next user mode or the PROG/MUTE button to exit Program mode.
   - **Tone**
     - None
   - **Visual Display**
     - None
Pop Alert
Pop Alert will alert you of Ka band Pop signals. During the alert, the unit continues to detect other signals.
When you turn Pop Ka Detect mode on or off you will hear 2 beeps for Pop detection on or 1 beep for Pop detection off. (See page 7 for instructions on using the Program mode to turn Pop Ka Detect mode on and off.)
The factory setting is Pop Ka Detect off.

VG-2 Alert
The detector is undetectable by police VG-2 detection devices and will alert you when such a device is in use near your vehicle. During the alert, the unit continues to detect other signals. You can choose whether or not you want your unit to show VG-2 alerts. With VG-2 Detect mode on, you can also choose whether or not you want your unit to sound audible VG-2 alerts.
When you turn VG-2 Detect mode on or off you will hear 2 beeps for VG-2 detection on or 1 beep for VG-2 detection off. (See page 7 for instructions on using the Program mode to turn VG-2 alerts on and off.)
When you turn VG-2 Detect Audio mode on or off you will hear 2 beeps for VG-2 audio on or 1 beep for VG-2 audio off. (See page 7 for instructions on using the Program mode to turn VG-2 audio on and off.)
The factory settings are VG-2 Detect on, VG-2 Detect Audio on.

Spectre Alert
The detector is undetectable by police Spectre detection devices and will alert you when such a device is in use near your vehicle. During the alert, the unit continues to detect other signals. You can choose whether or not you want your unit to show Spectre alerts. With Spectre Detect mode on, you can also choose whether or not you want your unit to sound audible Spectre alerts.
When you turn Spectre Detect mode on or off you will hear 2 beeps for Spectre detection on or 1 beep for Spectre detection off. (See page 7 for instructions on using the Program mode to turn Spectre alerts on and off.)
When you turn Spectre Detect Audio mode on or off you will hear 2 beeps for Spectre audio on or 1 beep for Spectre audio off. (See page 7 for instructions on using the Program mode to turn Spectre audio on and off.)
The factory settings are Spectre Detect on, Spectre Detect Audio on.

SmartPower
Your detector includes the SmartPower feature that, when activated, will put the unit into standby mode (low power) for about 30 minutes after the car’s engine has been turned off. After 30 minutes in standby mode, the unit will automatically turn off.
To return the unit to normal power mode or exit standby mode, start the car, press any button or turn the unit off and then on again.
When you turn SmartPower mode on or off you will hear 2 beeps for SmartPower on or 1 beep for SmartPower off. (See page 7 for instructions on using the Program mode to turn SmartPower mode on or off.)
Before SmartPower enters standby mode, you will hear 1 beep and “Pwr Save” will appear in the display. Press any button to exit standby mode or return to normal power mode.
The factory setting is SmartPower on.
DigiView Data Display Brightness
Your detector has a Bright display mode (for daytime driving) and 3 levels of Dim display modes (Dim for dusk driving, Dimmer for night driving and Dark where no visual alerts will be displayed) to control the display’s brightness levels.

<table>
<thead>
<tr>
<th>Bright</th>
<th>Dim</th>
<th>Dimmer</th>
<th>Dark</th>
</tr>
</thead>
</table>

Press and hold the SELECT/DIM button to set the Dim mode default. The three Dim display modes will cycle as long as the SELECT/DIM button is held. When the SELECT/DIM button is released, the Dim mode currently displayed will be set. (See page 7 for instructions on using the Program mode to select a Dim mode default.)

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

Audio Alerts
A distinctly different alert tone is used for each type of signal detected (including separate tones for each laser signal). For X, K and Ka 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, page 22.)

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

<table>
<thead>
<tr>
<th>SIGNAL STRENGTH CHART</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weakest Signal</strong></td>
</tr>
<tr>
<td>·····</td>
</tr>
<tr>
<td><strong>Signal</strong></td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td><strong>Strongest Signal</strong></td>
</tr>
</tbody>
</table>

The factory setting is Bright. The factory Dim mode default setting is Dimmer.
**DETECTION**

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radar</td>
<td></td>
</tr>
<tr>
<td>X band radar</td>
<td></td>
</tr>
<tr>
<td>K band radar</td>
<td></td>
</tr>
<tr>
<td>Ka band radar single pulse</td>
<td></td>
</tr>
<tr>
<td>Ka band Pop</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Laser*</td>
<td></td>
</tr>
<tr>
<td>LTI 20-20*</td>
<td>Laser 20/20...</td>
</tr>
<tr>
<td>LTI Ultra-Lyte*</td>
<td>Laser Ultra-Lyte...</td>
</tr>
<tr>
<td>Kustom Signals ProLaser*</td>
<td>Laser Pro Laser...</td>
</tr>
<tr>
<td>Kustom Signals ProLaser III*</td>
<td>Laser Pro Laser 3...</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** Beep rate changes with different laser alerts

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strobe Alert*</td>
<td>3M Opticom or Tomar</td>
</tr>
<tr>
<td></td>
<td>Emergency Vehicle... (Flashing)</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** There are different tones for each Safety Alert

---

**DETECTION**

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Alert*</td>
<td>emergency vehicles road hazards trains</td>
</tr>
<tr>
<td></td>
<td>Emergency Vehicle... Road Hazard Train</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** There are different tones for each Safety Alert

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG-2 Alert*</td>
<td>Interceptor VG-2</td>
</tr>
<tr>
<td></td>
<td>VG2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectre</td>
<td>Spectre</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** There are different tones for each Safety Alert

---

* your detector provides LaserEye 360° detection of these signals

* your detector provides LaserEye 360° detection of these signals
Instant-On Detection
Your detector is designed to detect instant-on speed monitoring signals, which can suddenly appear at near full strength.
You should take appropriate action immediately whenever an alert is given.

Bee III Pop Detection
Your detector is designed to detect single pulse mode radars. These radars are designed to have a low probability of detection. You should note that these radar guns have a much shorter range while in this mode.

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.

VG-2 and Spectre
VG-2 and Spectre are "detector detectors" that work by detecting low-level signals emitted by most radar detectors. Your detector does not emit signals that can be detected by VG-2 or Spectre, but does detect VG-2 and Spectre signals and will alert you when a device is in use near your vehicle, if you so choose.

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 passably pulsed radar</td>
<td>exercise caution</td>
</tr>
<tr>
<td>tone instantly begins repeating rapidly</td>
<td>radar, VG-2 or Spectre nearby has been activated suddenly</td>
<td>FULL ALERT</td>
</tr>
<tr>
<td>Pop mode tone</td>
<td>Bee III Pop mode very close</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>laser alerts are never false alarms</td>
<td>FULL ALERT</td>
</tr>
<tr>
<td>any Safety Alert or Strobe 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>
Strobe Alert
Special strobes mounted on the light bars of authorized emergency vehicles (fire trucks, police cars, ambulances) automatically change traffic signals as the vehicle approaches an intersection. These strobes and the special strobe detectors located on the traffic signals, introduced fairly recently by 3M and Tomar, are already in use in more than 1000 cities nationwide. Cobra’s exclusive Strobe Alert detector will detect these special strobes and give an Emergency Vehicle alert.

When you receive such an alert, please watch for an approaching emergency vehicle and pull over to allow it to pass. To inquire about coverage in your area, contact your local fire and police departments.

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 quickly. 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.

Pop Radar Guns
The Pop mode radar gun is a single pulse Doppler radar that is a feature of a Ka band Instant On radar gun. It uses a single short time pulse (<100 msec.) to measure the target vehicle’s speed. Despite the fact that the short, single pulse makes the unit very sensitive to officer hand and vehicle movement and reduces the range of the gun in Pop mode to 50% of its range in Continuous Wave mode, this feature is added in an attempt to make the radar gun invisible to Radar Detectors.

While your purchased radar detector will detect this mode of operation in excess of it’s range of operation, the very nature of the Pop signals also means that the Pop mode receiver section is more prone to false alerts than the Continuous Wave portions of the Detector. In recognition of the fact that the Pop mode guns are new and limited in distribution, Cobra Electronics has included a user selectable on or off Pop Ka Detect mode.

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 1-amp fuse only.)

Customer Service

Technical assistance in English and/or Spanish for your unit through one of our customer support services:

Automated Help Desk is available in English only 24 hours a day, 7 days a week at 773-889-3087.

Customer Service Operators are available in English or Spanish at 773-889-3087 Monday through Friday, 8:00 a.m. to 6:00 p.m. CST.

Questions can be faxed in English or Spanish to 773-622-2269.

Automated Technical Assistance is available in English or Spanish 24 hours, 7 days a week via e-mail at: productinfo@cobra.com

On-line answers to frequently asked questions can be found in English only at: www.cobra.com.

For assistance outside the USA, please contact your local dealer.

Product Service

If you suspect that your unit requires service, please call 773-889-3087 BEFORE shipping it to Cobra. This will ensure that you receive service as quickly as possible.

If you are asked to send your unit to the Cobra factory, please follow these steps:

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 USA

6. Please allow 3 to 4 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.
COBRA ELECTRONICS CORPORATION warrants that its Cobra 11 Band Ultra Radar/Laser Detectors and the component parts thereof, will be free of defects in workmanship and materials for period of one (1) 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 11 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.

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.

### SPECIFICATIONS

<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>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></td>
<td>24.190 ± 0.010 GHz</td>
</tr>
<tr>
<td></td>
<td>24.230 ± 0.010 GHz</td>
</tr>
<tr>
<td>Ka band</td>
<td>34.700 ± 1.300 GHz</td>
</tr>
<tr>
<td>Laser</td>
<td>910 ± 50 nm</td>
</tr>
<tr>
<td>Strobe</td>
<td>700 ± 300 nm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit Dimensions &amp; Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>
OPTIONAL ACCESSORIES

You can find these fine accessories at your local Cobra dealer. If you wish, you can order directly from Cobra.

To order by phone
Call 773.889.3087
(Press 1 from the main menu
8 a.m.-6 p.m. M-F CST.)

To order by mail or fax
Please fill out order form on next page, and mail/fax directly to Cobra.

To order online
Go to www.cobra.com.

ORDER FORM

For credit card orders fill out order form and fax to: 773.622.2269
or call 773.889.3087
(Press 1 from the main menu)
8:00 a.m.-6:00 p.m. M-F CST.

To order online, please visit our website at: www.cobra.com

Prices subject to change without notice.

Tax Table
California residents add 7.25%
Illinois residents add 8.75%
Indiana residents add 6%
Michigan residents add 6%
Ohio residents add 5%
Wisconsin residents add 5%

Make check or money order payable to:
Cobra Electronics
6500 West Cortland Street
Chicago, IL 60707 USA
Attn: Accessories Dept.

Please print clearly

Name ________________________________

Address (No P.O. Box) ________________________________

City ___________________________ State __________

Zip ________________________________

Telephone (_______) ________________________________

Credit Card No. ____________________________ Exp. Date __________________

Circle One: Visa MasterCard Discover

Customer Signature ________________________________

Allow 2-3 weeks for delivery. Offer valid in Continental U.S. only.
The Cobra® line of quality products includes:

- CB radios
- microTALK® radios
- Radar/Laser Detectors
- GPS
- Safety Alert®
- Traffic Warning Systems
- Accessories
- HighGear™ Accessories

For more information or to order any of our products, please visit our website:

www.cobra.com

Nothing comes close to a Cobra®