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.

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

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 6:00 p.m. CT 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

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6500 West Cortland Street
Chicago, Illinois 60707 USA
www.cobra.com
### Product Features

**Congratulations!** You’ve made a smart choice by purchasing the XRS 9600 ultra high performance digital radar/laser detector from Cobra. Just look at some of the sophisticated features and capabilities your new unit includes:

- **IntelliShield False Signal Rejection**
  - Reduces falsing in urban areas with Highway mode and three (3) levels of City mode settings.

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

- **Strobe Alert**
  - Emergency vehicle warning system.

- **Manual Mute Or Auto Mute**
  - A mute function of audio alerts.

**Ultra Performance**

- Provides advanced warning with extra detection range.

- **Detection And Separate Alerts**
  - For radar signals (X, K and Ka bands, with signal strength indicated), laser signals, Safety Alert signals, Strobe Alert signals, VG-2 signals, Spectre 1 signals.

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

- **8-Point Compass**
  - For 360° detection of laser and strobe signals.

- **LaserEye**
  - Detects the latest super-fast instant-on (very fast) speed monitoring capabilities.

- **Pop Detection**
  - For radar signals (X, K and Ka bands, with signal strength indicated), laser and strobe signals.

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

- **Spectre 1 and safety/strobe indicators**

- **Ultra Performance**
  - Provides advanced warning with extra detection range.

- **Detection And Separate Alerts**
  - For radar signals (X, K and Ka bands, with signal strength indicated), laser signals, Safety Alert signals, Strobe Alert signals, VG-2 signals, Spectre 1 signals.

- **EasySet Programming**
  - User-friendly mode selection and setting with visual guidance.

- **Auxiliary Audio Jack**
  - For external speaker connection.

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

**System Ready**

- **Ultra high performance digital radar/laser detector from Cobra**

### Product Highlights

- Alpha/Numeric Dot Matrix Text Display
  - Shows user mode settings, programming instructions, signal strength indication, City/Highway mode indicators, radar, VG-2, Spectre 1 and safety/strobe indicators.

- DigiView Data Display
  - With easy-to-read alpha/numeric dot matrix text readout.

- Ultra high performance digital radar/laser detector from Cobra.

- IntelliShield False Signal Rejection
  - Reduces falsing in urban areas with Highway mode and three (3) levels of City mode settings.

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

- Strobe Alert
  - Emergency vehicle warning system.

- Manual Mute Or Auto Mute
  - A mute function of audio alerts.

- 360° detection of laser and strobe signals.

- EasySet Programming
  - User-friendly mode selection and setting with visual guidance.

- Auxiliary Audio Jack
  - For external speaker connection.

- Mounting
  - Mounts easily on windshield or dashboard.

- Ultra high performance digital radar/laser detector from 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.

Windshield Mounting
The unit's lens must not be blocked and the LaserEye should have a clear view out the back window to allow 360° detection.

Dashboard Mounting

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.

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 depressing the bracket release button and sliding it off the bracket.
Getting Started

To Turn On The Unit And Adjust The Audio Volume

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

2. Remove the paper backing from one (1) 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.

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

Tone | Visual Display
--- | ---
Three (3) beeps | Testing
| System Ready | The display will then cycle through the user mode settings (city or highway, Intellimute and SmartPower status).

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, City X Beep Off mode and City X+K mode, h = Highway mode, i = Intellimute on).

Power On | Start-Up Complete
--- | ---
Testing | NW
System Ready | h

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 and you have turned the SmartPower off, you should turn off or unplug your detector when parking for lengthy periods. Cobra recommends leaving SmartPower at the factory setting, which is on.
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.

The procedure for using Program mode is shown on page 7.

**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 ten (10) seconds, the unit will automatically exit Program mode and save the last settings.

### Programming User Modes
The tables on pages 8 through 9 show 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 14 for instructions on setting the IntelliMute activation point.
See page 16 for instructions on calibrating the compass.
See page 21 for instructions on using SmartPower.

---

### To Use Program Mode

<table>
<thead>
<tr>
<th>Press and hold the <strong>Program/Mute</strong> button for two (2) seconds.</th>
<th>Time</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three (3) beeps</td>
<td>Program will appear.</td>
<td></td>
</tr>
<tr>
<td>One (1) beep with each button press</td>
<td>As each mode is displayed, the current setting for that mode will be shown.</td>
<td></td>
</tr>
<tr>
<td>One (1) or two (2) beeps, depending on your selection</td>
<td>The setting you select will be shown.</td>
<td></td>
</tr>
<tr>
<td>One (1) beep</td>
<td>When you exit Program mode, the new setting will automatically be saved and EXIT PROGRAM and Settings Saved! will appear in the display.</td>
<td></td>
</tr>
</tbody>
</table>

When you have finished programming any or all of the user modes, press and release the **Program/Mute** button to exit Program mode. Or simply wait ten (10) seconds without pushing any buttons.

When the programming instructions are scrolling, press and release the **Select/Dim** button to cycle through the user modes.

With the user mode you wish to change displayed, press and release the **Set/City** button to change the setting.

To move to the next selection, press the **Select/Dim** button again.

When you have finished programming any or all of the user modes, press and release the **Program/Mute** button to exit Program mode.
This EasySet programming menu lists all of the modes and settings you can choose from after you have entered Program mode as described on page 7.

### EasySet Programming Menu

<table>
<thead>
<tr>
<th>Mode</th>
<th>Visual Setting</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set City mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>default*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>City X</td>
<td>A single beep sounds when the signal is first detected.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>City X beep Off</td>
<td>Audio for all X band alerts are blocked until signal strength reaches Level 3.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>City X beep Off</td>
<td>Combines the City X mode with prevention of X band audio alerts until signal strength reaches Level 2.</td>
</tr>
<tr>
<td>IntelliMute mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>IntelliMute 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>One (1) beep</td>
<td>IntelliMute Off</td>
<td>Normal operation.</td>
</tr>
<tr>
<td>Set IntelliMute RPMs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(not shown if IntelliMute is off)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>Set IntelliMute On</td>
<td>Allows you to set the engine rev point while using IntelliMute.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Set IntelliMute Off</td>
<td></td>
</tr>
<tr>
<td>AutoMute mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>AutoMute On</td>
<td>The audio volume of all alerts will be automatically muted after four (4) seconds for as long as the signal is detected.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>AutoMute Off</td>
<td>All alerts will sound at full volume for as long as the signal is detected.</td>
</tr>
<tr>
<td>Set compass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Set Compass</td>
<td>Allows you to calibrate the compass.</td>
</tr>
<tr>
<td>(see page 16 to calibrate compass)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pop Detect mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>Pop Detect On</td>
<td>The unit will detect Pop signals.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Pop Detect Off</td>
<td>The unit will not detect Pop signals.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VG-2 Detect mode</td>
<td>Two (2) beeps</td>
<td>The unit will detect VG-2 signals.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>VG-2 Detect Off</td>
<td>The unit will not detect VG-2 signals.</td>
</tr>
<tr>
<td>VG-2 Audio mode</td>
<td>Two (2) beeps</td>
<td>With VG-2 Detect on, the unit will give audible alerts for VG-2 signals.</td>
</tr>
<tr>
<td>(not shown if VG-2 detect is off)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One (1) beep</td>
<td>VG-2 Audio Off</td>
<td>With VG-2 Detect off, the unit will give only visual alerts for VG-2 signals.</td>
</tr>
<tr>
<td>Spectre 1 Detect mode</td>
<td>Two (2) beeps</td>
<td>The unit will detect Spectre 1 signals.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Spectre 1 Detect Off</td>
<td></td>
</tr>
<tr>
<td>Spectre 1 Audio mode</td>
<td>Two (2) beeps</td>
<td>With Spectre 1 Detect on, the unit will give audible alerts for Spectre 1 signals.</td>
</tr>
<tr>
<td>(not shown if Spectre 1 detect is off)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Spectre 1 Audio Off</td>
<td></td>
</tr>
<tr>
<td>SmartPower mode</td>
<td>Two (2) beeps</td>
<td>SmartPower is on.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>SmartPower Off</td>
<td>SmartPower is off.</td>
</tr>
<tr>
<td>X Band detect mode</td>
<td>Two (2) beeps</td>
<td>The unit will detect X Band signals.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>X Band Off</td>
<td>The unit will not detect X Band signals.</td>
</tr>
<tr>
<td>Set display Dim mode</td>
<td>Two (2) beeps</td>
<td>Display Dim: Partially dimmed for dusk or night driving.</td>
</tr>
<tr>
<td>(default*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Display Dimmer</td>
<td>More dimmed for dusk or night driving.</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Display Dark</td>
<td>Display is off.</td>
</tr>
<tr>
<td>Restore factory settings</td>
<td>One (1) beep</td>
<td>Restore Factory Settings: Resets user modes and settings to factory default.</td>
</tr>
<tr>
<td>Exit program</td>
<td>One (1) beep</td>
<td>EXIT PROGRAM: Allows you to exit Program mode.</td>
</tr>
</tbody>
</table>

* The settings for these user modes can also be changed with the one (1) button method. See description of each user mode (pages 10 and 23) for details.
Settings

Highway/City Mode

Your detector has a Highway mode and three (3) 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 2. 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.

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

Setting City Default

You can set the default level for City mode (City X, City X Beep Off and City X+K) either in Program mode or directly using the Set/City button.

- **To Change From Highway Mode To City Mode**
  - Press and release the Set/City button.
  - Tone: One (1) beep
  - Visual Display: 1 appears in the display

- **To Change From City Mode Back To Highway Mode**
  - Press and release the Set/City button again.
  - Tone: Two (2) beeps
  - Visual Display: 1 appears in the display

- **NOTE**
  - When you change to City mode, the unit will enter whichever city default mode is set at the time.

To Set The City Mode Default Directly Using The Set/City Button

- Press and hold the Set/City button.
  - Tone: One (1) beep each time the display cycles
  - Visual Display: Cycles — see chart above

- Release the Set/City button to select the current display as default.
  - Tone: None
  - Visual Display: City X Beep Off, City X+K or City X

To Set The City Mode Default Using Program Mode

(See Page 7 For Instructions On Using Program Mode)

In Program mode, go to City.

- **Tone**
  - One (1) beep

- **Visual Display**
  - City X Beep Off
  - City X+K
  - City X

---

Nothing comes close to a Cobra®
Muting An Alert
Your detector allows you to quickly turn off an Audio Alert by momentarily pressing the Program/Mute button. If you press the Program/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 (4) seconds for as long as the signal is detected. The factory setting for Auto Mute is on.

Auxiliary Audio Jack
The Auxiliary Audio Jack can be used to connect an external speaker in environments with high ambient noise levels. The internal speaker will be disconnected.

IntelliMute
IntelliMute is a unique new 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 (except for strobe signals from emergency vehicles).

Before IntelliMute will work, you must set an activation point for your engine’s revs (see page 14). 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. An “i” will appear in the display when IntelliMute is 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.

Table: To Turn Off Or On An Audio Alert Using The Program/Mute Button

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Table: To Turn Auto Mute Off Or On Using Program Mode

<table>
<thead>
<tr>
<th>In Program mode, go to Auto Mute.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tone</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>One (1) beep</td>
</tr>
<tr>
<td>Two (2) beeps</td>
</tr>
</tbody>
</table>

Table: To Turn IntelliMute On Or Off Using Program Mode

<table>
<thead>
<tr>
<th>In Program mode, go to IntelliMute.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tone</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>Two (2) beeps</td>
</tr>
<tr>
<td>One (1) beep</td>
</tr>
<tr>
<td>IntelliMute On</td>
</tr>
<tr>
<td>IntelliMute Off</td>
</tr>
</tbody>
</table>

Nothing comes close to a Cobra®
### 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.

#### 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.

**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.

#### To Set The *IntelliMute* Activation Point Using Program Mode

(See Page 7 For Instructions On Using Program Mode)

<table>
<thead>
<tr>
<th>Time</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Press and release the **Set/City** button to begin setting *IntelliMute* RPMs:

- Two (2) beeps

Rev your engine to the level you wish to set. Rev the engine slightly above idle and hold revs steady for two (2) seconds.

At the desired rev level, press and release the **Set/City** button.

None

To exit the Program mode, press and release the **Program/Mute** button.

Three (3) beeps

**IntelliMute Set!**

Press and release either the **Select/Dim** button to proceed to the next user mode or the **Program/Mute** button.

None

**IntelliMute Off**

**NOTE**
- If the unit is unable to sense usable pulses within three (3) 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>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td><em>IntelliMute not set Please try again</em></td>
</tr>
<tr>
<td>One (1) beep</td>
<td><em>IntelliMute Off</em></td>
</tr>
</tbody>
</table>
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

**NOTE**

Before using it for the first time, you must calibrate the compass to provide accurate indications of direction. See page 7 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.

**NOTE**

When the instructions direct you to drive in two (2) circles, a large parking lot is the most convenient place to do so. It does not matter what direction your vehicle is pointing when you start the circles, which direction you go to make the circles, and it does not have to be exactly two (2) circles. You do NOT have to make perfect circles. You can drive in any pattern, as long as you make two (2) complete turns. Four (4) three-point turns, two (2) small squares, or any two (2) complete loops will work as well as two (2) circles. It does not matter what size the circles are, if your speed is constant, or how fast you make the circles (but less than two (2) minutes). Please be careful when making the circles and watch for other traffic.

**NOTE**

If you do not press the Set/City button within two (2) minutes after beginning the set compass process, compass calibration will automatically terminate.
**Pop Alert**

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

**VG-2 Alert**

The detector is undetectable by 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. The factory settings are VG-2 Detect on and VG-2 Detect Audio on.

### To Turn Pop Detect Mode On Or Off Using Program Mode

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two (2) beeps</td>
<td>Pop On</td>
</tr>
<tr>
<td>One (1) beep</td>
<td>Pop Off</td>
</tr>
</tbody>
</table>

### To Turn VG-2 Detect Mode Off Or On Using Program Mode

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td>VG-2 Off</td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>VG-2 On</td>
</tr>
</tbody>
</table>

### To Turn VG-2 Audio Mode Off Or On Using Program Mode

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td>VG-2 Audio Off</td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>VG-2 Audio On</td>
</tr>
<tr>
<td>...Audio Off</td>
<td>...Audio On</td>
</tr>
</tbody>
</table>
Spectre 1 Alert
The detector is undetectable by Spectre 1 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 1 Alerts. With Spectre 1 Detect mode on, you can also choose whether or not you want your unit to sound audible Spectre 1 Alerts. The factory settings are Spectre 1 Detect on, Spectre 1 Audio on.

To Turn Spectre 1 Detect Mode Off Or On Using Program Mode
(See Page 7 For Instructions On Using Program Mode)

In Program mode, go to Spectre 1 Detect.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td>Spectre Off</td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>Spectre On</td>
</tr>
</tbody>
</table>

To Turn Spectre 1 Mode Off Or On Using Program Mode
(See Page 7 For Instructions On Using Program Mode)

In Program mode, go to Spectre 1 Audio.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td>Spectre Audio Off</td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>Spectre Audio On</td>
</tr>
</tbody>
</table>

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.

Before SmartPower enters Standby mode, you will hear one (1) beep and Pwr Save will appear on the display. 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. The factory setting is SmartPower on.

To Turn SmartPower Mode Off Or On Using Program Mode
(See Page 7 For Instructions On Using Program Mode)

In Program mode, go to SmartPower.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td>SmartPower Off</td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>SmartPower On</td>
</tr>
</tbody>
</table>

To Turn Spectre 1 Mode Off Or On Using Program Mode
(See Page 7 For Instructions On Using Program Mode)

In Program mode, go to Spectre 1 Audio.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td>Spectre Audio Off</td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>Spectre Audio On</td>
</tr>
</tbody>
</table>

To Turn Spectre 1 Detect Mode Off Or On Using Program Mode
(See Page 7 For Instructions On Using Program Mode)

In Program mode, go to Spectre 1 Detect.

<table>
<thead>
<tr>
<th>Tone</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) beep</td>
<td>Spectre Off</td>
</tr>
<tr>
<td>Two (2) beeps</td>
<td>Spectre On</td>
</tr>
</tbody>
</table>
Settings
Your Detector

DigiView Data Display Brightness
Your detector has a Bright display mode (for daytime driving) and three (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. The factory setting is Bright. The factory Dim mode default setting is Dimmer.

Select/Dim Button
Press and release

To Change The Brightness To Dim
Press and release the Select/Dim button once.

Tone
Two (2) beeps

Visual Display
Dim, Dimmer or Dark

Dim Display
Dimmer Display
Dark Display

NOTE
When you change to Dim mode, the unit will enter whichever dim default mode is set at the time.

To Change The Brightness To Bright
Press and release the Select/Dim button again.

Tone
One (1) beep

Visual Display
Bright

Bright Display

Setting Dim Default
You can set the default level for Dim mode (Dim, Dimmer or Dark) either in Program mode or directly using the Select/Dim button.

Select/Dim Button
Press and hold

To Set The Display Dim Mode Default Directly Using The Set/Dim Button
Press and hold the Select/Dim button.

Tone
One (1) beep each time the display cycles

Visual Display
Cycles — see chart above

Release the Select/Dim button to select the current display as default.

Dim Display
Dim

Dimmer Display
Dimmer

Dark Display
Dark

To Set The Display Dim Mode Default Using Program Mode
(See Page 7 For Instructions On Using Program Mode)

In Program mode, go to Display Dim, Dimmer or Dark.

Tone

Visual Display

One (1) beep
Dim

Dimmer

One (1) beep
Dark

NOTE
When you change to Dim mode, the unit will enter whichever dim default mode is set at the time.
Detection

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

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 on page 27.

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 one (1) to five (5) vertical bars, indicating the strength of the signal detected.

Signal Strength Chart

<table>
<thead>
<tr>
<th>Signal Strength</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Strength 1</td>
<td>X Band Radar</td>
</tr>
<tr>
<td>Signal Strength 2</td>
<td>K Band Radar</td>
</tr>
<tr>
<td>Signal Strength 3</td>
<td>Ka Band Radar</td>
</tr>
<tr>
<td>Signal Strength 4</td>
<td>Pop Radar Mode</td>
</tr>
<tr>
<td>Signal Strength 5</td>
<td>Pop</td>
</tr>
</tbody>
</table>

Laser Signals And Visual Displays

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTI 20-20*</td>
<td>Laser 20/20</td>
</tr>
<tr>
<td>LTI Ultra-Lyte*</td>
<td>Laser UltraLyte</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>

* Your detector provides 360˚ detection of these signals.

NOTE
Beep rate changes with different laser alerts.
**Detection**

### 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.

### 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.

### 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><strong>FULL ALERT</strong></td>
</tr>
<tr>
<td>Tone sounds one (1) time only.</td>
<td>Probably a false alarm, but possibly pulsed radar, Spectre 1 or VG-2 nearby. Exercise caution.</td>
<td></td>
</tr>
<tr>
<td>Tone instantly begins repeating rapidly.</td>
<td>Radar, Spectre 1 or VG-2 nearby has been activated suddenly.</td>
<td><strong>FULL ALERT</strong></td>
</tr>
<tr>
<td>Pop mode tone.</td>
<td>Pop mode gun very close.</td>
<td><strong>FULL ALERT</strong></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><strong>FULL ALERT</strong></td>
</tr>
<tr>
<td>Tone repeats slowly for a short period.</td>
<td>Probably a false alarm. Exercise caution.</td>
<td></td>
</tr>
<tr>
<td>Any type of laser alert.</td>
<td>Laser alerts are never false alarms.</td>
<td><strong>FULL ALERT</strong></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.). Exercise caution.</td>
<td></td>
</tr>
</tbody>
</table>

### Safety Alert Signals And Visual Displays

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

### VG-2 And Spectre 1 Alert Signals And Visual Displays

<table>
<thead>
<tr>
<th>Type of Signal</th>
<th>Visual Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG-2 Alert</td>
<td>VG2</td>
</tr>
<tr>
<td>Spectre 1</td>
<td>Spectre1</td>
</tr>
</tbody>
</table>

**NOTE**
There are different tones for each Safety Alert.

**NOTE**
There are different tones for each alert.

**NOTE**
Your detector provides 360° detection of these signals.

**NOTE**
You should take appropriate action immediately whenever an instant-on alert is given.
Radar Speed Monitoring Systems
Three (3) 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 (3) radar bands.

VG-2 And Spectre 1
VG-2 and Spectre 1 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 1, but does detect VG-2 and Spectre 1 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 frequent.

When you receive such an alert, please watch for an approaching emergency vehicle and pull over to allow it to pass.

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 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.
Pop Radar Guns

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. 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.

Although your detector can sense Pop signals beyond the effective range of Pop radar guns, there will be a signal to sense only if a gun is triggered. In addition, the Pop mode receiver section is more prone to false alerts because of its extra sensitivity. This is especially so in urban areas. As a result, you should consider using the Pop Detect mode only in highway and rural situations. Cobra Electronics has included a user selectable on or off Pop Detect mode.

Maintenance

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 11 Band 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.

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></td>
<td>10.625 ± 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>

Specifications

Your Detector

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Band</td>
<td>10.525 ± 0.050 GHz</td>
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<td></td>
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<td>910 ± 50 nm</td>
</tr>
<tr>
<td>Strobe</td>
<td>700 ± 300 nm</td>
</tr>
</tbody>
</table>

Unit Dimensions And Weight

<table>
<thead>
<tr>
<th>Dimensions* (H x W x D)</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/8” x 3 1/2” x 4 3/8”</td>
<td>6.45 oz.</td>
</tr>
<tr>
<td>(38 mm x 78 mm x 124 mm)</td>
<td>(183 g)</td>
</tr>
</tbody>
</table>

* Dimensions and weight measurements are approximate.

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; 6,627,417. Additional patents may be listed inside the product or pending.
Product Service

If you have any questions about operation or installing your new Cobra product, or if you are missing parts...

Please call Cobra first! DO NOT RETURN THIS PRODUCT TO THE STORE! See customer assistance on page A1.

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 U.S.A.
6. Please allow three (3) to four (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.

Trademark Acknowledgement


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Order Form

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>U.S. Cost Each</th>
<th>Qty</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>420-030-N-001</td>
<td>Straight 12V Power Cord</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>420-026-N-001</td>
<td>Coiled 12V Power Cord</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>545-139-N-001</td>
<td>Windshield Mounting Bracket</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>CLP-2B</td>
<td>Dual Port Power Adapter</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ordering From U.S.A.
Call 773-889-3087 for pricing or visit www.cobra.com.

For Credit Card Orders
Complete and return this order form to fax number 773-622-2269. Or call 773-889-3087 [Press one (1) from the main menu] 8:00 a.m. to 6:00 p.m. CT, 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

Customer Signatures

English

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.

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

Windshield Mounting Bracket
Includes suction cups
Item # 545-139-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

Customer Assistance

Nothing comes close to a Cobra®
The Cobra line of quality products includes:

CB Radios
microTALK® Radios
Radar/Laser Detectors
Safety Alert® Traffic Warning Systems
Accessories
GPS (Global Positioning System)
HighGear® Accessories
CobraMarine™ VHF Radios
Power Inverters

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