



Operating Instructions

The Cobra line of quality products includes:

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Radar/Laser Detectors

Safety Alert® Traffic Warning Systems

Handheld GPS Receivers

Mobile GPS Navigation Systems

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XRS 9930

Part No. 480-236-P

Nothing Comes Close to a Cobra®

English



Important Information and Customer Assistance

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. Central Time Mon. through Fri. (except holidays) 773-889-3087 (phone).

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

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

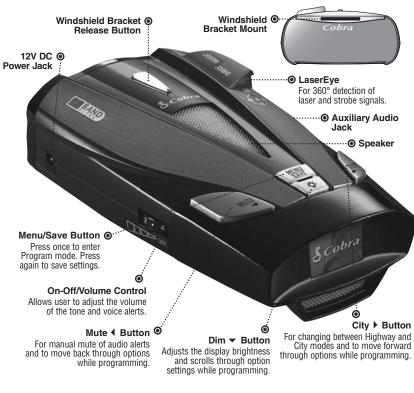
For Assistance Outside the U.S.A. **Contact Your Local Dealer**

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Controls, Indicators, Connections and Display

Controls, Indicators, Connections and Display



ExtremeBright DataGrafix™ Display

O-

Full color and sunlight-readable, the extremely bright display provides intuitive graphical interaction and alert screens.





Product Features

Product Features

Congratulations! You've made a smart choice by purchasing an ultra high performance digital 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

Ultra Performance

Provides advanced warning with extra detection range

Detection and Separate Alerts

For radar signals (X, K, Ka and Ku bands, with signal strength indicated), laser signals, Safety Alert signals, Strobe Alert signals, VG-2 signals, Spectre 1 signals

8-Point Compass

Displays direction of travel

LaserEve

For 360° detection of laser and strobe signals

Instant-On Ready

Detects radar guns with "instant-on" (very fast) speed monitoring capabilities

Pop Detection

Detects the latest super-fast instant-on signal pulse radar guns

Voice or Tone Alert

With adjustable volume

ExtremeBright DataGrafix[™] Display With easy-to-read graphical user interface

IntelliShield False Signal Rejection

Reduces falsing in urban areas with Highway mode and three levels of City mode settings

Safety 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

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

EasySet Programming

User-friendly mode selection and setting with visual guidance

Car Battery Voltage Display

Car battery voltage can be shown continuously on the display

Car Battery Low Voltage Warning

Provides an alert when the car battery voltage drops below 11.9 volts

Customizable Display Colors

Customize the display colors to match vour dash illumination

Auxiliary Audio Jack

For external speaker connection

Mountina

Mounts easily on windshield or dashboard



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

Nothing Comes Close to a Cobra® A3



Accessories Order Info

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] 8:00 a.m. to 6:00 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 #	Description
420-030-N-001	Straight 12V Power Cord
420-026-N-001	Coiled 12V Power Cord
545-139-N-001	Windshield Mounting Bracket
CLP-2B	Dual Port Power Adapter





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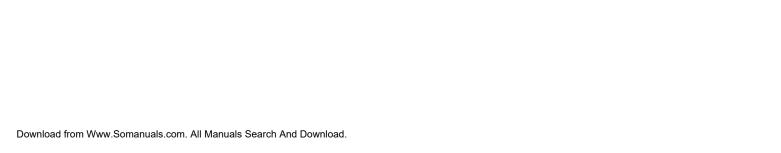


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Overview

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

Before you begin your installation, please read the Important Information section on page A1 and use the descriptions and feature lists on pages A2 and A3 to become familiar with your new detector.

About Your Detector

Display

This detector's innovative new display provides more, easier-to-use information than any technology to date. Using an OLED (Organic Light Emitting Diode) screen, the display offers large graphical alerts to signals as they are detected.

Do not be alarmed by the nearly blank display you see when you first turn the unit on. The detector will function and alerts will appear as signals are detected. You can also elect to turn on the built-in Compass. IntelliMute and Car Voltage. so that they appear during normal operation. The initial and startup screens are shown on page 6.

Programming

EasySet Programming lets you conveniently customize the operation of your detector by changing the settings. You may want to start using the detector with the factory settings and then make changes after you are more familiar with the unit.

About This Manual

Please take a moment to learn about some special features of this manual.

Modular Descriptions

Once the detector is in use, this manual can be used as a ready reference to individual topics as needed. Each topic is completely covered in its section and cross-references to related topics are included where appropriate.

Appendix

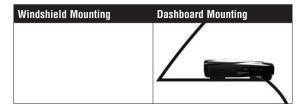
The appendix pages 34–36 provide quick reference charts on the programming features of your detector.



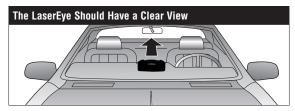
Installation

Where to Mount Your Unit

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



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



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.







Getting Started

Power On/Off



To Turn on the Unit and Adjust the Audio Volume

NOTE

NOTE

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

Tone	Visual Display	Voice
Testing, then three beeps		Testing, then three beeps
		System Ready
None	13.8√ ♣NЫ	Voice Alert

Set-up is complete when the display continuously shows the City or Highway icon and if these features are turned on: Compass. IntelliMute, and Car Battery Voltage.

Power On



When the system is first turned on from new, only the City or Highway icon will show on the screen because the Show Compass, IntelliMute and Show Car Battery Voltage functions are set to off at the factory. See pages 14, 16 and 19 to turn these functions on.

Settings Not Set



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. See page 18.

6 English



Getting Started

Standby Screen Icons

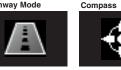
Your detector uses the following icons to indicate modes and functions when set:

City Mode

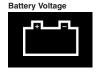
IntelliMute Up



















NOTE



For example, the sample screen indicates that IntelliMute is active, the Compass is calibrated, your system is set to Highway mode and your vehicle's battery voltage is charged to 13.8 volts.

Display Brightness Control

Your detector has a **Bright** display mode (for daytime driving) and three levels of the **Dim** display mode:

■ **Dim** for dusk driving.





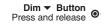
■ **Dimmer** for night driving.

■ Dark to prevent all visual alerts from displaying.

The display will show small dots to indicate the unit is tuned on.

The factory setting is Bright. This level can be changed in programming mode (see page 19.)

You can toggle between Bright and Dim modes by pressing the **Dim** ▼ button.







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





Getting Started

Auto Dimmer and Screensaver

Your detector is equipped with Auto Dimmer and Screensaver functions to prolong the life of your screen.

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.

Highway mode provides full response to all signals detected. The City modes 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; it can be changed in programming mode (see page 11).

You can toggle between Highway and City modes by pressing the City ▶ button.



Press and release

NOTE

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



Getting Started

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. After the current alert is gone, the next alert will be heard.



Two other features are incorporated in your detector to automatically mute or reduce the volume of alerts. See pages 14 and 16 for Intellimute and Auto Mute modes.

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.)









EasySet Programming

EasySet Programming

EasySet Programming gives you quick and easy access to all the settings on your detector. It is used to program both:

- User Settings (see pages 14 and 15) User Programming Menu Guide (see pages 34 and 35).
- Alert Settings (see page 20) Alert Programming Menu Guide (see page 36).

Refer also to the Program Flow Diagrams for User Settings and Alert Settings programming to easily navigate to the setting you want to change (see pages 12 and 13). All settings are stored in memory when the power is turned off and will be recalled when the power is turned back on.



You cannot enter Program mode during an alert. The unit will not detect signals while in Program mode. During programming, if no buttons are pressed for 15 seconds, the unit will automatically exit Program mode and save the most recent settings.

EasySet Programming Buttons:



EasySet Programming

To use EasySet program mode:

- 1. Press the **Menu/Save** button to reach the opening program screen.
- **2.** Choose whether you want to change:
 - a. User Settings press the **Mute** ◀ button (above the User Settings icon on the display) to enter the User Setting loop (see page 12)
 - **b.** Alert Settings press the **City** ▶ button (above the Alert Settings icon on the display) to enter the Alert Setting loop (see page 13)
- 3. Press the City ▶ or Mute ◀ buttons to step forward or backward through the chosen settings loop until the desired option is reached.



Press and release the button to move one option. Press and hold the button to scroll through the options (each option will appear for two seconds).

- to toggle the option on or off or to step through its multiple choices.
- **5.** Repeat steps 3 and 4 to move to and set the next desired option(s).
- **6.** Press the **Menu/Save** button when finished to save the settings and exit EasySet program mode. Or, simply wait 15 seconds without pressing any buttons.

NOTE

If power is turned off while in Program mode, option settings are saved to those in effect before Program mode was entered.





Program Flow Diagrams

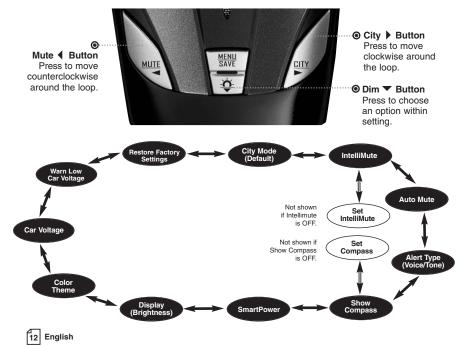
User Settings Programming

User Programming allows you to adjust the unit's display and sounds to your preferences. The **User Settings** can be selected using the **Mute** ◀ and City ▶ buttons by scrolling through the settings as shown in the program flow diagram below. The User Programming Menu Guide on page 34 is a handy reference showing the tone, visual display and voice prompts that accompany each setting. After selecting a setting, use the **Dim** ▼ button to choose an option within the setting.



When you choose User Settings (page 11, step 2a), the system displays whichever setting was last changed.

Setting Selection Buttons:





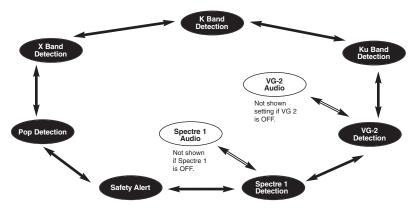
Program Flow Diagrams

Alert Settings Programming

Alert Programming allows you to selectively turn on or off detection of some signals. The Alert Settings can be selected using the Mute ◀ and City ▶ buttons by scrolling through the settings as shown in the program flow diagram below. The Alert Programming Menu Guide on page 36 is a handy reference showing the tone, visual display and voice prompts that accompany each setting. After selecting a setting, use the **Dim** \rightarrow button to choose an option within the setting.



When you choose Alert Settings (page 11, Step 2b), the system displays whichever setting was last changed.



This detector allows you to customize its operation by changing settings in the User Programming and the Alert Programming modes. (See page 11 for entering the EasySet Programming mode.) Also, refer to the Appendix (pages 34–36) while programming. These show the lists of User and Alert settings.

Features of the programmable settings are described on the following pages.

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Settinas

Auto Mute Mode

When Auto Mute is on, it automatically reduces the audio volume of all alerts after they have sounded for four seconds. The signals will remain muted for as long as the signal is detected. When Auto Mute is off, the alerts will sound at full volume for as long as the signal is detected. The factory setting for Auto Mute is on.

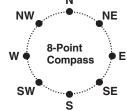
Voice or Tone Mode

You can set your detector to sound alerts and confirm program settings with either a **Voice** or a **Tone** Alert. Voice Alert provides voice messages in addition to tones. Tone Alert provides tones only. The factory setting is Voice Alert.

Compass Mode

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

Before the Compass will work, it must be calibrated (see page 17), Calibration allows the Compass electronics to measure and store information about the magnetic fields generated by your vehicle so direction indications will be accurate. The factory setting is Compass off.



A Compass icon and directional heading will appear in the display when the Compass is on and calibrated.

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. You should also recalibrate the Compass if you suspect it is providing inaccurate directions.

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.



Settings

Set Compass

After the detector is installed in your vehicle and Compass is turned on (see page 34), the system will automatically advance to the Set Compass calibration screen from which the calibration can be performed.



WARNING

Before calibrating the Compass, go to a large parking lot or other safe. low-traffic area.



NOTE

When the instructions direct you to drive in two circles, make two complete loops (in either direction) from any starting orientation at any convenient speed. The loops need not be perfect and can be circles, small squares, four threepoint turns, or any pattern that makes at least two complete turns within two minutes of starting the maneuver.

Calibrating the Compass progresses from the Calibrate Compass screen shown on the User Programming Menu Guide (see page 34). From that screen:

- 1. Press the City ▶ button to advance one screen.
- 2. Drive your vehicle in two circles.
- 3. Press the **Dim** button to complete the setting process.

The system will store the calibration data and provide a completion message on the display as well as a tone or voice message.



If you do not press the **Dim** → button within two minutes after beginning the Set Compass process, Compass calibration will automatically terminate. The unit will provide a corresponding message.

Once the initial calibration is complete, you can go to Set Compass in User Settings Programming and recalibrate the Compass as needed by repeating the three-step calibration process.

Nothing Comes Close to a Cobra® 17

16 English



Settinas

SmartPower Mode

Your detector includes the **SmartPower** feature that, when turned on, will put the unit into Standby mode (low power) 15 minutes after the car's engine has been turned off.

Before SmartPower enters Standby mode, you will hear three beeps and SmartPower will flash on the display. To return the unit to normal Power mode and exit Standby mode, start the car, press any button or turn the unit off and then on again. The factory setting is SmartPower on.

SmartPower Entering Standby Mode (Flashing)



Customizable Display Colors

Your detector includes the **Color Theme** feature that allows you to customize the display screen color scheme to match your car's dash illumination: Multi-Color, Red, Blue, Orange, or Green. The factory setting is Multi-Color.

Dim Mode Default

You can set the default level for the **Dim** mode (Dim, Dimmer or Dark) as discussed in the Display Brightness Control section on page 7. The factory setting is Dim.



Car Battery Voltage Display Mode

Your detector can sense your vehicle's electrical system voltage (**Car Battery Voltage**) and show it on the display during normal operation of the unit. The factory setting is Car Battery Voltage on.

Car Battery Low Voltage Warning

In addition to displaying system voltage, your detector can provide a warning that battery voltage is low so that timely steps can be taken to correct the problem. The **Car Battery Low** alert is triggered when the voltage drops below 11.9 volts. Following the alert, the unit enters SmartPower mode to avoid further draining your car battery (see page 18). The factory setting is Car Battery Low off.

Restore Factory Settings

From the **Restore Factory Settings** screen, you can quickly and conveniently restore your detector to its original settings. Confirmation messages are provided during the process.

18 English



Settinas

Alert Settings

Pop Alert

When Pop Detect mode is on, Pop radar signals will be detected and an alert will be given. During the alert, the unit will continue to detect other signals. The factory setting is Pop Detect off.

X Band Alert

When X Band Detect mode is on, X Band radar signals will be detected and an alert will be given. During the alert, the unit will continue to detect other signals. The factory setting is X Band Detect on.

K Band Alert

When **K Band Detect** mode is on, K Band radar signals will be detected and an alert will be given. During the alert, the unit will continue to detect other signals. The factory setting is K Band Detect off.

Ku Band Alert

When **Ku Band Detect** mode is on. Ku Band radar signals will be detected and an alert will be given. During the alert, the unit will continue to detect other signals. The factory setting is Ku Band Detect off.

VG-2 Alert

The detector is undetectable by VG-2 detection devices and can alert you when such a device is in use near your vehicle. When VG-2 Detect mode is on. VG-2 signals will be detected and an alert will be given. During the alert, the unit will continue to detect other signals. The factory setting is VG-2 Detect off.

VG-2 Audio Mode

When VG-2 Audio mode is on, alerts will be sounded as well as being displayed on the screen. This setting is only available if VG-2 Alert is on. The factory setting is VG-2 Audio off.

Spectre 1 Alert

The detector is undetectable by Spectre 1 detection devices and can alert you when such a device is in use near your vehicle. When Spectre 1 Detect mode is on, Spectre 1 signals will be detected and an alert will be given. During the alert, the unit will continue to detect other signals. The factory setting is Spectre 1 Detect off.





Spectre 1 Audio Mode

When **Spectre 1 Audio** mode is on, alerts will be sounded as well as being displayed on the screen. This setting is only available if Spectre 1 Alert is on. The factory setting is Spectre 1 Audio off.

Safety Alert

When **Safety Alert** mode is on, Safety Alert radar signals will be detected and an alert will be given. During the alert, the unit will continue to detect other signals. The factory setting is Safety Alert on.

Detection

Signals Detected

The tables on the following pages show 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, 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 25.

Visual Display

An indication of the type of signal detected will appear in the OLED Data Display, During X. K. Ka and Ku alerts, you will also see the numbers from one to five, indicating the strength of the signal detected.





Detection

Signal Strength Chart

Signal Strength = 1

Signal Strength = 2

Signal Strength = 3

RADAR

(Weakest Signal)

RADAR

(Strongest Signal)

Radar Signals and Visual Displays

Type of Signal	Visual Display	Voice
X Band Radar	RADAR X 1	X Alert
K Band Radar	RADAR K2	K Alert
Ka Band Radar	RADAR Ka3	Ka Alert
Ku Band Radar	RADAR Ku 4	Ku Alert
Pop Radar Mode	POP	Pop Alert



Laser Signals and Visual Displays

-	Vioual Displays		
	Type of Signal	Visual Display	Voice
	LTI 20-20*	20/20	Laser Alert
	LTI Ultra-Lyte*	ULTRA LYTE	Laser Alert
	Kustom Signals ProLaser*	PRO LASER	Laser Alert
	Kustom Signals ProLaser III*	PRO LASER 3	Laser Alert

^{*} Your detector provides 360° detection of these signals.



NOTE
Beep rate changes with different laser alerts.

Strobe Alert Signals and Visual Displays

Type of Signal	Visual Display	Voice
3M Opticom or Tomar*	EMERGENCY *EV*	Emergency Vehicle Approaching

^{*} Your detector provides 360° detection of these signals.





Safety Alert Signal

VG-2 and Spectre 1







Instant-On Detection

detect **Instant-On** speed monitoring signals, full strength.



riate action immediately whenever æn.

detect single pulse mode radars. These radars obability of detection. You should note that a shorter range while in this mode.

Description	Interpretation	Recommended Response	
Tone sounds one time only.	Probably a false alarm, but possibly pulsed radar, Spectre 1 or VG-2 nearby.	Exercise caution	
Tone instantly begins repeating rapidly.	Radar, Spectre 1 or VG-2 nearby has been activated suddenly.	FULL ALERT	
Pop mode tone.	Pop mode gun very close.	FULL ALERT	
Tone repeats slowly as you approach a hill or bridge, then speeds up sharply as you reach it.	Probably police radar beyond the hill or bridge.	FULL ALERT	
Tone repeats slowly for a short period.	Probably a false alarm.	Exercise caution	
Any type of laser alert.	Laser alerts are never false alarms.	FULL ALERT	
Any Safety Alert or Strobe Alert.	You are nearing an emergency vehicle, railroad crossing, or road hazard (construction, accident, etc.).	Exercise caution	





Understanding Radar and Laser

Understanding Radar and Laser

Radar Speed Monitoring Systems

Four band frequencies have been approved by the Federal Communications Commission (FCC) for use by speed monitoring radar equipment:

10.525 GHz X band K band 24.150 GHz

33.400 - 36.00 GHz Ka band

Ku band 13.435 GHz

Your detector detects signals in all four 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 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.



Understanding Radar and Laser

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.





Maintenance

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.)



Specifications

Specifications

Band and Frequencies

Band	Frequencie	s	
X Band	10.525	± 0.050	GHz
K Band	24.125	± 0.125	GHz
Safety Alert	24.070	± 0.010	GHz
Traffic Warning System	24.110	± 0.010	GHz
Oystom	24.190	± 0.010	GHz
	24.230	± 0.010	GHz
Ka Band	34.700	± 1.300	GHz
Ku Band	13.435	± 0.050	GHz
Laser	910	± 50	nm
Strobe	700	± 300	nm
SHONE	700	± 300	11111

Unit Dimensions and Weight

Dimensions* (H x W x D)	Weight*	
1½" x 31/16" x 41/8"	6.45 oz.	
(38 mm x 78 mm x 124 mm)	(183 g)	

^{*} 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; 6,621,447. Additional patents may be listed inside the product or pending.







Warranty

Limited 1-Year Warranty

For Products Purchased in the U.S.A.

Cobra Electronics Corporation warrants that its Cobra 12 Band Radar/Laser Detectors, and the component parts thereof, will be free of defects in workmanship and materials for 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 12 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

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.

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

- For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon of a sales receipt. Make sure the date of purchase and product model number are clearly readable. If the originals are sent, they cannot be returned;
- 2. Send the entire product;
- 3. Enclose a description of what is happening with the product. Include a typed or clearly printed name and address of where the product is to be returned, with phone number (required for shipment).
- Pack product securely to prevent damage in transit. If possible, use the original packing material;
- Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or Priority Mail to avoid loss in transit to:

Cobra Factory Service Cobra Electronics Corporation 6500 West Cortland Street Chicago, Illinois 60707 U.S.A.:

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

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





Trademark Acknowledgement

Trademark Acknowledgement

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Accessories

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 37.



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

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User Programming Menu Guide

	a	,	
Mode	Tone	Visual Display	Voice
Set City mode default	Two beeps	CITY MODE X ONLY	City X
Page 14	One beep	CITY MODE	City X, K
		X + K	
	One beep	CITY MODE	City X Beep
		NO BEEP	Off .
Set IntelliMute	Two	INTELLIMUTE	Intelli Mute
mode		OFF	Off
Page 15	One beep	INTELLIMUTE	Intelli Mute
		ON	On
Set IntelliMute setup*	Two beeps	INTELLIMUTE SETUP Press	Set Engine Revs
Page 15		To Begin	

^{*} Not shown if IntelliMute is off. Complete instructions for IntelliMute setup are shown on the referenced page.



Factory defaults are highlighted in light gray. See referenced pages for more information on the modes.

Mode	Tone	Visual Display	Voice
Set AutoMute mode	Two beeps	AUTO MUTE	Auto Mute On
Page 16	One beep	AUTO MUTE	Auto Mute Off
Set Voice or Tone mode	None	ALERT TYPE VOICE	Voice Alert
Page 16	None	ALERT TYPE TONE	Tone Alert
Set Compass mode	Two beeps	SHOW COMPASS OFF	Compass Off
Page 17	One beep	SHOW COMPASS	Compass On
Set Compass**	Two beeps	CALIBRATE COMPASS Press	Set Compass
Page 17		Drive 2 circles.	

^{**} Not shown if Compass is off. Complete instructions for calibrating the Compass are shown on the referenced page and on the separate insert.



User Programming Menu Guide (continued)

Mode	Tone	Visual Display	Voice
Set Smart- Power mode Page 18	Two beeps	SMART POWER	Smart Power On
	One beep	SMART POWER	Smart Power Off
Set display Dim mode default Page 18	Two beeps	DIM	Dim
	One beep	DIMMER	Dimmer
	One beep	DARK	Dark
Set customizable display colors*** Page 18	Two beeps	COLOR THEME	Dim
	One beep	COLOR THEME	Red Blue Orange Green

	Mode	Tone	Visual Display	Voice
	Set car battery voltage	Two beeps	CAR VOLTAGE 13.9v	Display Car Volt- age Off
-	display mode Page 19	One beep	CAR VOLTAGE 13.9v	Display Car Volt- age On
	Set battery low car voltage warning	Two beeps	WARN LOW CAR VOLTAGE	Car Voltage Warning Off
	Page 19	One beep	WARN LOW CAR VOLTAGE	Car Voltage Warning On
	Restore factory settings Page 19	Two beeps	RESTORE FACTORY SETTINGS	Restore Factory Settings

^{***} Press **Dim v** repeatedly for all optional colors.



Factory defaults are highlighted in light gray. See referenced pages for more information on the modes.

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