

Cobra

11 BAND

Operating Instructions



**11 BAND™
HIGH-PERFORMANCE
RADAR/LASER DETECTOR
WITH XTREME RANGE
SUPERHETERODYNE™
TECHNOLOGY**

XRS 9500

Printed in China
Part No. 480-105-P

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
- VHF Marine Radios
- Power Inverters

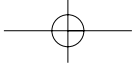
For more information or to order any of our products, please visit our website: www.cobra.com

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Important Information And Customer Assistance

Introduction

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

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).

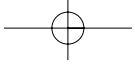
For Assistance Outside The U.S.A.

Contact Your Local Dealer

©2003 Cobra Electronics Corporation
6500 West Cortland Street
Chicago, Illinois 60707 USA
www.cobra.com

A1 English





Introduction **Controls, Indicators And Connections** **Introduction** **Display And Product Features** **Customer Assistance** **Order Form**

Controls, Indicators And Connections



* Press and hold for two (2) seconds to access these functions.

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

Display



Alpha/Numeric Dot Matrix Text Display
See pages 6 – 16 for more information about display features.

Product Features

Congratulations! You've made a smart choice by purchasing the XRS 9500 high performance radar/laser detector from Cobra. Just look at some of the sophisticated features and capabilities your new unit includes:

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

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

LaserEye
For 360° detection of laser and strobe signals

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

Tone Alert or Voice Alert
With adjustable volume

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

City Or Highway
Modes to reduce false alerts

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

Mounting
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.

Order Form

Name _____
Address (No P.O. Boxes) _____
City _____ State/Province _____ Zip _____ Country _____
Telephone _____
Credit Card Number _____ Type: Visa MasterCard Discover Exp. Date _____

Customer Signature _____

Item #	Description	U.S. Cost Each	Qty	Amount
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			
Amount Shipping/Handling*				
\$10.00 or less \$3.00				
\$10.01-\$25.00 \$5.50				
\$25.01-\$50.00 \$7.50				
\$50.01-\$90.00 \$10.50				
\$90.01-\$130.00 \$13.50				
\$130.01-\$200.00 \$16.50				
\$200.01 plus 10% of purchase				
Tax Table				
Wisconsin add 5%				
Indiana, Michigan, Ohio add 6%				
California add 7.25%				
Illinois add 8.75%				
U.S. Subtotal				
(Tax if Applicable)				
Shipping/Handling				
Total				

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.

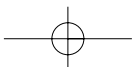
Make Check or Money Order Payable To
Cobra Electronics, Attn: Accessories Dept.,
6500 West Cortland Street, Chicago, IL 60707 U.S.A.

To Order Online
Please visit our website: www.cobra.com

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A2 English

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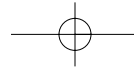
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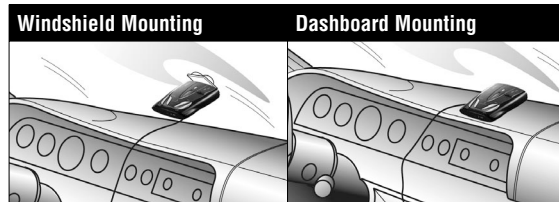


Installation

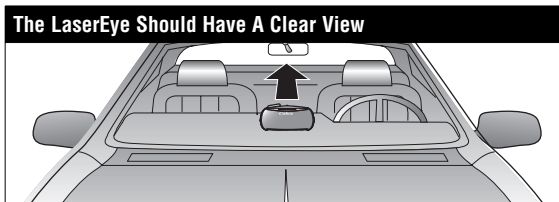
Installation

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:

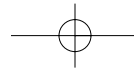
- Windshield wiper blades
- Mirrored sun screens
- Dark tinting at the top of the windshield
- Heated windshields currently available on some vehicles (Instaclear for Ford, Electriclear for GM.) Consult your dealer to see if you have this option.

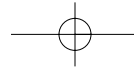


Installation

Windshield Mounting

<p>1. Attach the rubber cups to the bracket.</p>	
<p>2. Make sure the rubber cups and your windshield are clean.</p>	
<p>3. Push the bracket firmly onto the windshield.</p>	
<p>4. Attach the detector to the bracket. Check the angle of the unit.</p>	
<p>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.</p>	
<p>6. Plug the power cord into the detector.</p>	
<p>7. Plug the cigarette lighter adapter on the power cord into your vehicle's cigarette lighter.</p>	
<p>8. You can temporarily remove the detector whenever you wish by pressing the bracket release button and sliding it off the bracket.</p>	



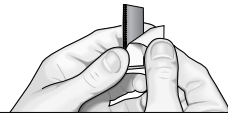


Installation

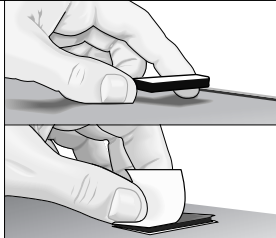
Dashboard Mounting

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.

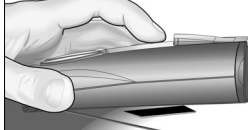
2. Remove the paper backing from one (1) side of the hook-and-loop fastener.



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.



6. Plug the power cord into the detector.



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



Getting Started And Settings

Getting Started

Power On

Testing

System Ready

Voice Alert

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



To Turn On The Unit And Adjust The Audio Volume

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

Tone	Voice	Visual Display
Three (3) beeps	Testing , then three (3) beeps System Ready , then Voice Alert	The display will cycle through the user mode settings (Voice Alert, Spectre 1 and VG-2, IntelliMute, City X or Highway status).

Start-Up Complete

h

Start-up is complete when the display continuously shows the letters indicating the current user settings (c = **City** mode, h = **Highway** mode, i = **IntelliMute On**)



NOTE

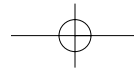
In some vehicles, power is supplied to the cigarette lighter even while the ignition is **Off**. If this is the case with your vehicle, you should turn **Off** or unplug your detector when parking for lengthy periods.

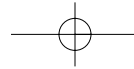
Settings

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

- Buttons can have multiple functions.
- Depending on your choice of **Voice Alert** or **Tone Alert** mode, you will hear either voice messages or tones confirming changes in settings.
- All settings will be stored in memory when the power is turned **Off** and recalled when the power is turned back **On**.

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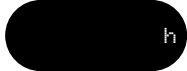
Settings

Highway/City Mode

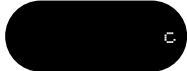
Setting your detector to **City** mode delays all X band audio alerts until the signal strength reaches Level 3. (A single beep will sound when the signal is first detected.) This will reduce false alerts while you are driving in, or near, urban areas where there are many sources for conflicting X band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

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

Highway Mode



City Mode



City Button
Press and release



To Change From Highway Mode To City Mode

	Tone	Voice	Visual Display
Press and release the City button.	One (1) beep	City	C appears in the display

To Change From City Mode Back To Highway Mode

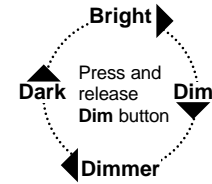
	Tone	Voice	Visual Display
Press and release the City button again.	Two (2) beeps	Highway	H appears in the display



Settings

DigiView Data Display Brightness

You can choose from four (4) settings for **Brightness** of the display. You can cycle through the settings by repeatedly pushing the **Dim** button. The factory setting is **Bright**.



Dark Indicator



Dim Button
Press and release



To Change The Brightness To Dim

Press and release the **Dim** button once.

Tone	Voice	Visual Display
One (1) beep	Dim	Display dims

To Change The Brightness To Dimmer

Press and release the **Dim** button again.

Tone	Voice	Visual Display
None	Dimmer	Display dims further

To Change The Brightness To Dark

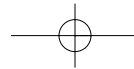
Press and release the **Dim** button a third time.

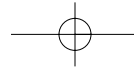
Tone	Voice	Visual Display
One (1) beep	Dark	Display remains dim (no visual alerts will be seen)

To Change The Brightness To Bright

Press and release the **Dim** button a fourth time.

Tone	Voice	Visual Display
Two (2) beeps	Bright	Display returns to full brightness





Settings

Muting An Alert

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

Auto Mute Mode

Auto Mute will automatically reduce the audio volume of all alerts after four (4) seconds for as long as the signal is detected. The factory setting for **Auto Mute** is **On**.



Mute Button
Press and release

To Turn Auto Mute Off

Press and release the Mute button while no alert is occurring.	Tone	Voice	Visual Display
	One (1) beep	Auto Mute Off	None

To Turn Auto Mute On

Press and release the Mute button again while no alert is occurring.	Tone	Voice	Visual Display
	Two (2) beeps	Auto Mute On	None



Settings

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 11). Whenever the revs are below that point, IntelliMute will begin muting. The activation point will be stored in memory and recalled each time the power is turned **On**. The factory setting is **IntelliMute Off**.



NOTE

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

IntelliMute On



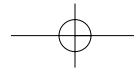
IntelliMute Button
Press and release

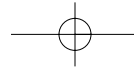
To Turn IntelliMute On

Press and release the IntelliMute button.	Tone	Voice	Visual Display
	Two (2) beeps	IntelliMute On	i appears in the display

To Turn IntelliMute Off

Press and release the IntelliMute button again.	Tone	Voice	Visual Display
	One (1) beep	IntelliMute Off	None



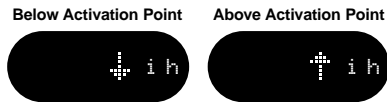


Settings

What To Remember While Using IntelliMute

IntelliMute works with both **City** and **Auto Mute** modes.

Whenever engine revs are below the activation point, an arrow pointing down will appear in the display. Above the activation point, an arrow pointing up will appear.



If, for any reason, the unit stops sensing your engine's revs, IntelliMute will indicate an error and automatically turn **Off**.

The rev point you set will be stored in the unit's memory when power is turned **Off** and recalled each time the power is turned **On**.

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

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

Setting The IntelliMute Activation Point

Your detector must be installed in your vehicle.

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

IntelliMute must be turned **On** before setting the activation point. Depending on whether the unit is in **Tone Alert** or **Voice Alert** mode, you will hear a series of beeps or voice messages as you follow the steps on page 11.



Settings

Hold IntelliMute Button Rev Level Set



IntelliMute Button
Press and hold for two (2) seconds

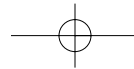
To Set The IntelliMute Activation Point

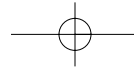
	Tone	Voice	Visual Display
Press and hold the IntelliMute button for two (2) seconds.	Two (2) beeps	Set Engine Revs	Press IntelliMute button again at desired RPMs
Rev your engine to the level you wish to set (recommend slightly above idle) and hold revs steady for two (2) seconds.	None	None	None
At the desired rev level, press and release the IntelliMute button.	Three (3) beeps	IntelliMute Set	IntelliMute Set!



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**.

Tone	Voice	Visual Display
Four (4) beeps	IntelliMute Not Set, Please Try Again followed by	IntelliMute not set Please try again
One (1) beep	IntelliMute Off	IntelliMute Off





Settings

Voice/Tone Setting

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

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



Mute Button
Press and hold for two (2) seconds

To Change From Voice Alert To Tone Alert

While no signal is being detected, press and hold the Mute button for two (2) seconds.	Tone	Voice	Visual Display
	One (1) beep	Tone Alert	None

To Change From Tone Alert Back To Voice Alert

While no signal is being detected, press and hold the Mute button for two (2) seconds again.	Tone	Voice	Visual Display
	None	Voice Alert	None

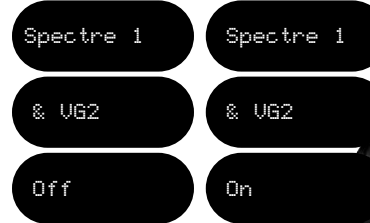


Settings

Spectre 1 And VG-2 Alert Audio Settings

The detector is undetectable by police **Spectre 1** and **VG-2** radar detector detectors 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** and **VG-2** alerts. The factory setting is **Spectre 1** and **VG-2** alert **On**.

Spectre 1 And VG-2 Off Spectre 1 And VG-2 On



Dim Button
Press and hold for two (2) seconds

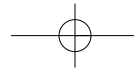


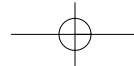
To Turn Spectre 1 And VG-2 Alerts Off

While no signal is being detected, press and hold the Dim button for two (2) seconds.	Tone	Voice	Visual Display
	One (1) beep	Spectre VG-2 Off	Spectre 1 & VG 2 Off

To Turn Spectre 1 And VG-2 Alerts On

While no signal is being detected, press and hold the Dim button for two (2) seconds.	Tone	Voice	Visual Display
	Two (2) beeps	Spectre VG-2 On	Spectre 1 & VG 2 On





Detection

Detection

Signals Detected

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

Audio Alerts

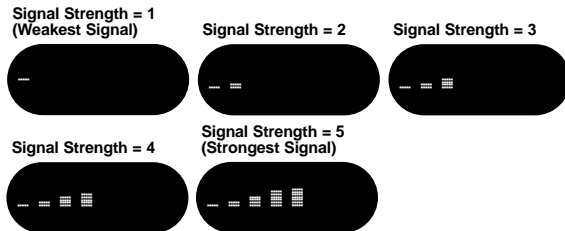
In **Voice Alert** mode you will first hear several tones, then a voice message announcing the type of signal detected, followed by more tones. In **Tone Alert** mode, you will hear the tones only.

In both **Voice Alert** and **Tone Alert** modes, a distinctly different alert tone is used for each type of signal detected (including separate tones for each laser signal). For X, K 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 17.)

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.

Signal Strength Chart



Detection

Radar Signals, Voice And Visual Displays

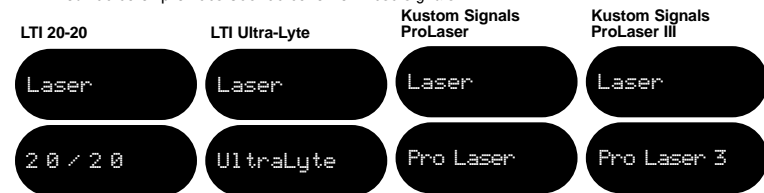
Type of Signal	Voice	Visual Display
X Band Radar	X Alert	X and Signal Strength
K Band Radar	K Alert	K and Signal Strength
Ka Band Radar	Ka Alert	Ka and Signal Strength



Laser Signals, Voice And Visual Displays

Type of Signal	Voice	Visual Display
LTI 20-20*	Laser Alert	Laser 20/20
LTI Ultra-Lyte*	Laser Alert	Laser UltraLyte
Kustom Signals ProLaser*	Laser Alert	Laser Pro Laser
Kustom Signals ProLaser III*	Laser Alert	Laser Pro Laser 3

* Your detector provides 360° detection of these signals.



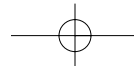
NOTE
Beep rate changes with different laser alerts.

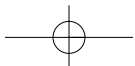
Strobe Alert Signals, Voice And Visual Displays

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

* Your detector provides 360° detection of this signal.

Strobe Alert Display (Flashing)



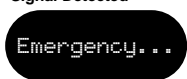


Detection

Safety Alert Signals, Voice And Visual Displays

Type of Signal	Voice	Visual Display
Emergency Vehicles	Emergency Vehicle Approaching	Emergency Vehicle
Road Hazards	Road Hazard Ahead	Road Hazard
Trains	Train Approaching	Train

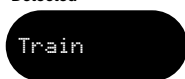
Emergency Alert Signal Detected



Road Hazard Alert Signal Detected



Train Alert Signal Detected



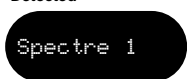
NOTE

There are different tones for each Safety Alert.

Spectre 1 Alert Signal, Voice And Visual Display

Type of Signal	Voice	Visual Display
Spectre	Spectre Alert	Spectre 1

Spectre 1 Alert Signal Detected



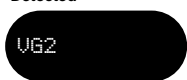
NOTE

There are different tones for each alert.

VG-2 Alert Signal, Voice And Visual Display

Type of Signal	Voice	Visual Display
Interceptor VG-2	VG-2 Alert	VG2

VG-2 Alert Signal Detected



NOTE

There are different tones for each alert.



Detection

Instant-On Detection

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

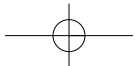


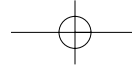
NOTE

You should take appropriate action immediately whenever an instant-on alert is given.

Responding To Alerts

Description	Interpretation	Recommended Response
Tone repeats slowly at first, then speeds up rapidly.	Probably police radar	FULL ALERT
Tone sounds one (1) 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
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

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.

Spectre 1 And VG-2

Spectre 1 and **VG-2** 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 Spectre 1 or VG-2, but does detect Spectre 1 and VG-2 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.

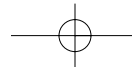
LIDAR (Laser)

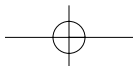
The correct name for the technology that most people refer to as laser is actually **LIDAR**, which stands for Light Detection and Ranging.

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

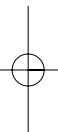
Maintenance

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

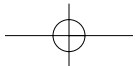
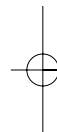
Band	Frequencies		
X Band	10.525	± 0.050	GHz
K Band	24.125	± 0.125	GHz
Safety Alert Traffic Warning System	24.070	± 0.010	GHz
	24.110	± 0.010	GHz
	24.190	± 0.010	GHz
	24.230	± 0.010	GHz
Ka Band	34.700	± 1.300	GHz
Laser	910	± 50	nm
Strobe	700	± 300	nm

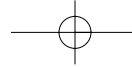
Unit Dimensions And Weight

Dimensions* (H x W x D)	Weight*
1½" x 2¾" x 4½"	5.11 oz.
(34 mm x 70 mm x 110 mm)	(145 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. 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 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.



Product Service And Trademark Acknowledgement

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.

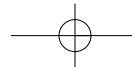
If you are asked to send your unit to the Cobra factory, please follow these steps: **1)** Send the complete unit, including power cord. (It is not necessary to include the mounting bracket.) **2)** For warranty repair, enclose some form of proof-of-purchase, such as a photocopy or carbon copy of a sales 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

Cobra, 6 Band, DigiView, Extra Sensory Detection, HighGear, microTALK, LaserEye, Safety Alert Traffic Warning System, Strobe Alert, VG-2 Alert and Nothing comes close to a Cobra are registered trademarks of Cobra Electronics Corporation.

Cobra Electronics Corporation, 11 Band, EasySet, IntelliMute, IntelliShield, Road Ready, SmartPower, Spectre Alert, UltraBright, Voice Alert and Xtreme Range Superheterodyne 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 a 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.





Customer Assistance

Optional 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.



Straight 12V DC Power Cord

Includes plug and fuse
Item # 420-030-N-001



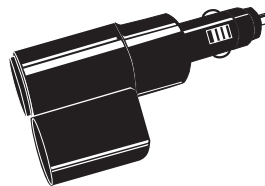
Windshield Mounting Bracket

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