



Operating Instructions



The Cobra line of quality products includes:

- CB Radios
- microTALK® 2-Way Radios
- Radar Detectors
- Marine VHF Radios
- Power Inverters
- Accessories

ULTRA-HIGH PERFORMANCE
DIGITAL RADAR/LASER DETECTOR

SPX955IVT

Printed in the Philippines
Part No. 480-1130-P
Version B

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

Nothing Comes Close to a Cobra®

English

Nothing Comes Close to a Cobra®

English



Important Information

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.

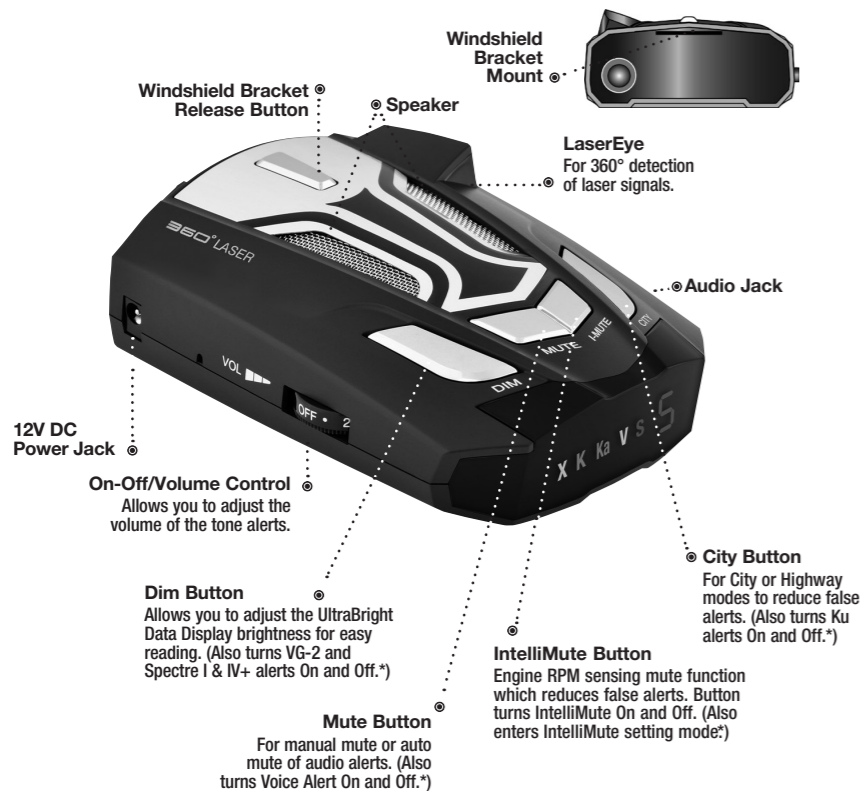
Security of Your Vehicle

Before leaving your vehicle, always remember to conceal your radar detector in order to reduce the possibility of break-in and theft.

A1 English

©2018 Cobra Electronics Corporation
6500 West Cortland Street
Chicago, Illinois 60707 USA
www.cobra.com

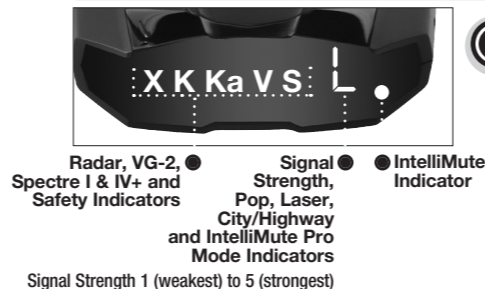
Controls, Indicators and Connections



* Press and hold for four 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



NOTE: In This Manual
When steady, the display will be shown: X K Ka V S C
When blinking, the display will be shown: X K K V S C
X & K will light simultaneously when indicating Ku detection: X K Ka V S C

Product Features

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

Xtreme Range Superheterodyne® Technology

With super-fast sweep circuitry, 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, VG-2 signals, Spectre I & IV+ signals

LaserEye®

For 360° detection of laser signals

Instant-On Ready

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

In-Vehicle Technology (IVT) Filter

Reduces false alerts from collision avoidance systems and other proximity sensors using radar

Tone Alert or Voice Alert®

With adjustable volume

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

UltraBright™ Data Display

Easy-to-read with adjustable brightness

City or Highway

Modes to reduce false alerts

Alert Programming

Easy setting of radar bands to be monitored

Safety Alert®

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

Manual Mute or Auto Mute

A mute function of audio alerts

IntelliMute®

A mute function reduces false audio alerts by sensing engine RPMs

IntelliMute® Pro

Prevents detection by radar detector detectors (RDDs) when traveling at slower speeds

Mounting

Mounts easily on windshield or dashboard



Trademark Acknowledgement

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

Cobra Electronics Corporation™, AURA™, Extreme Bright DataGrafix™, IntelliLink™, IntelliScope™, IntelliView™, Revolution™ Series, SmartPower™, Super-Xtreme Range Superheterodyne™, S-XRS™, UltraBright™, and Voice Alert™ are trademarks of Cobra Electronics Corporation, USA.

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. LTI Laser™ and LTI 20-20™ are trademarks of Laser Technology, Inc. Kustom Laser™, Kustom Laser 340™ and ProLaser II™ are trademarks of Kustom Signals, Inc. SpeedLaser™ is a trademark of Laser Atlanta. Bee III™ and Pop™ are trademarks of MPH Industries. Stalker™ LIDAR is a trademark of Applied Concepts, Inc. Spectre I™ and Spectre IV™ are trademarks of Stealth Micro Systems Pty. Ltd. SpeedLaser™ is a trademark of Laser Atlanta, LLC. Interceptor VG-2™ is a trademark of TechniSonic Industries LTD. Tomar® is a registered trademark of TOMAR Electronics, Inc.



Contents



Introduction

Important Information.....	A1
Display.....	A3
Product Features.....	A3

Your Detector



Installation.....	2
Getting Started.....	5
Auxiliary Audio Jack.....	5
Settings.....	6
Highway/City Mode.....	6
UltraBright Data Display Brightness.....	7
IVT Filter.....	7
Muting an Alert.....	8
Auto Mute Mode.....	8
IntelliMute.....	9
IntelliMute Pro.....	12
Voice/Tone Setting.....	13
VG-2 and Spectre I & IV+ Alert Settings.....	13
Radar Alert and IVT Alert Settings.....	14
Detection.....	15
Signals Detected.....	15
Audio Alerts.....	15
Visual Display.....	15
Instant-On Detection.....	18
Responding to Alerts.....	18
Understanding Radar and Laser.....	19
Maintenance.....	20
Specifications.....	21



Warranty

Limited 1-Year Warranty.....	22
------------------------------	----



Customer Assistance

Product Service.....	23
Optional Accessories.....	24
Accessories Order Info.....	25
Trademark Acknowledgement.....	25

Nothing Comes Close to a Cobra®

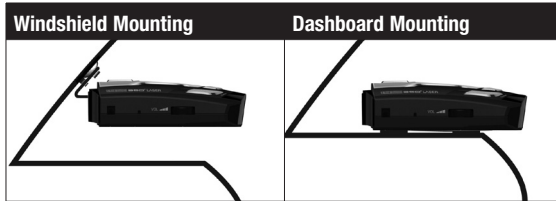




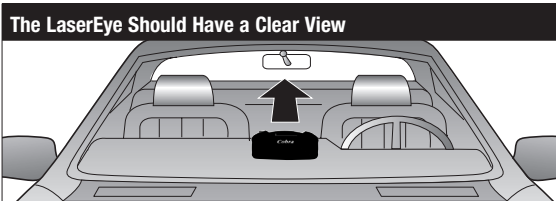
Installation

Where to Mount Your Unit

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



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



Radar and laser signals pass through glass but not through other materials and objects. Objects that can block or weaken incoming signals include:

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



Windshield Mounting

1. Attach the rubber cups to the bracket.	
2. Make sure the rubber cups and your windshield are clean.	
3. Push the bracket firmly onto the windshield.	
4. Attach the detector to the bracket. Check the angle of the unit.	
5. To adjust the angle if necessary, gently push or pull on the bracket to bend it. DO NOT use the detector to bend the bracket.	
6. Plug the power cord into the detector.	
7. Plug the cigarette lighter adapter on the power cord into your vehicle's cigarette lighter.	
8. You can temporarily remove the detector whenever you wish by pressing the bracket release button and sliding it off the bracket.	



Installation

Your Detector

Dashboard Mounting

<p>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.</p>	
<p>2. Remove the paper backing from one side of the hook-and-loop fastener.</p>	
<p>3. Attach the pad to the dashboard at your chosen location and remove the other paper backing.</p>	
<p>4. Attach the detector to the hook-and-loop fastener. You can remove and reattach the unit as often as you like.</p>	
<p>5. Plug the power cord into the detector.</p>	
<p>6. Plug the cigarette lighter adapter on the power cord into your vehicle's cigarette lighter.</p>	

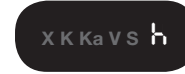


Getting Started

Your Detector

Getting Started

Power On



**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 beeps	Testing, then three beeps System Ready, then Voice Alert	h appears in the display indicating that the power is 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.

Auxiliary Audio Jack

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



Ⓢ Auxiliary
Audio Jack



Settings

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

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

Highway/City Mode

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

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



To Change From Highway Mode to City Mode

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

To Change From City Mode Back to Highway Mode

Press and release the City button again.	Tone	Voice	Visual Display
	Two beeps	Highway	h appears in the display



UltraBright Data Display Brightness

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



Dim Button Press and release



To Change the Brightness to Dim

Press and release the Dim button once.	Tone	Voice	Visual Display
	One beep	Dim	Display dims

To Change the Brightness to Dark

Press and release the Dim button again.	Tone	Voice	Visual Display
	One beep	Dark	Display remains dim (no visual alerts will be seen)

To Change the Brightness to Bright

Press and release the Dim button a third time.	Tone	Voice	Visual Display
	Two beeps	Bright	Display returns to full brightness



Anti-Falsing Circuitry

Your SPX955IVT is designed to provide you the truest alerts and minimize the distraction of erroneous signals from radar-based fixed-position and moving sources.

IVT Filter: system automatically reduces false alerts from moving In-Vehicle Technology sources such as collision avoidance systems and adaptive cruise control.

Muting an Alert

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

Auto Mute Mode

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



To Turn Auto Mute On

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

To Turn Auto Mute Off

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



IntelliMute

IntelliMute is a unique feature that allows you to avoid alerts you don't need to hear because you are stopped or moving slowly. By sensing the "revs" (RPMs) of your engine, IntelliMute knows when you are at low speed and automatically mutes audio radar alerts.

Before IntelliMute will work, you must set an activation point for your engine's revs (see page 10 for initial setup). Whenever the revs are below that point, IntelliMute will begin muting. The activation point will be stored in memory and recalled each time the power is turned On. The factory setting is IntelliMute Off.



NOTE

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



To Turn IntelliMute On

Press and release the IntelliMute button.	Tone	Voice	Visual Display
	Two beeps	IntelliMute On	Dot appears next to the large character on the right

To Turn IntelliMute Off

Press and release the IntelliMute button again.	Tone	Voice	Visual Display
	One beep	IntelliMute Off	Dot disappears



Settings

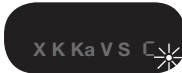
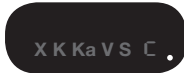
What to Remember While Using IntelliMute

IntelliMute works with both City and Auto Mute modes.

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

Below Activation Point

Above Activation Point



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

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



NOTE

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



NOTE

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

Setting the IntelliMute Activation Point

Your detector must be installed in your vehicle.



CAUTION

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

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



Settings



IntelliMute Button
Press and release

To Set the IntelliMute Activation Point

	Tone	Voice	Visual Display
Press and hold the IntelliMute button for two seconds.	Two beeps	Set Engine Revs	None
Rev your engine to the level you wish to set (recommend slightly above idle) and hold revs steady for two seconds.	None	None	Three bars will flash in succession 1 2 3 — — — — — —
At the desired rev level, press and release the IntelliMute button.	Three beeps	IntelliMute Set	All three bars flash three times 1 2 3 — — — — — —



NOTE

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

Tone	Voice	Visual Display
Four beeps	IntelliMute Error, followed by IntelliMute Off	E appears

IntelliMute Pro

IntelliMute Pro prevents detection by radar detector detectors (RDDs) such as VG-2, Spectre I and Spectre IV+ when traveling at slower speeds. It is intended for use by experienced users only.

When IntelliMute Pro is turned On, and engine RPMs are below the IntelliMute activation point, your detector's radar detection circuits are turned Off to prevent detection by RDDs.

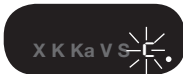
Before IntelliMute Pro can be turned On, you must have turned On and Set the IntelliMute activation point. (See pages 9 through 11.)

CAUTION When IntelliMute Pro is On, **NO** radar signals will be detected and **NO** alerts will be given at RPMs below the IntelliMute activation point.



**IntelliMute Button
City Button**
Press and hold both buttons simultaneously

IntelliMute Pro On



To Turn IntelliMute Pro On

While no signal is being detected, press and hold both the IntelliMute and City buttons for four seconds.	Tone	Voice	Visual Display
	Two beeps	IntelliMute Pro On	c or h will blink

To Turn IntelliMute Pro Off

Press and hold both the IntelliMute and City buttons for four seconds.	Tone	Voice	Visual Display
	One beep	IntelliMute Pro Off	c or h will show steady

Voice/Tone Setting

You can set your detector to sound alerts with either a **Voice** or a **Tone**. You can change settings by using the Mute button. In Voice Alert mode, you will first hear several tones, then a voice message announcing the type of signal detected, followed by more tones. In Tone Alert mode, you will hear the tones only. The factory setting is Voice Alert mode.

To Change From Voice Alert to Tone Alert

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

VG-2 and Spectre I & IV+ Alert Settings

Police use radar detector detectors (RDDs) to spot users of radar detectors. Your detector is able to identify signals from VG-2, Spectre I and Spectre IV+ RDDs and can provide alerts when any of these or similar devices are in use near your vehicle.

Your detector can be spotted by Spectre IV+ RDDs, but is invisible to VG-2 and Spectre I RDDs. You can choose whether you want to be alerted to VG-2 and Spectre I & IV+ RDD signals. The factory setting for VG-2 and Spectre I & IV+ alerts is Off.

To Turn VG-2 and Spectre I & IV+ Alerts On and Off

While no signal is being detected, press and hold the Dim button for four seconds.	Tone	Voice	Visual Display
	On = Two Beeps	Spectre VG-2 On	V will blink twice in the display
	Off = One Beep	Spectre VG-2 Off	V will blink once in the display



Settings

Your Detector

Radar Alert Settings

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

To Turn X Band On and Off

While no signal is being detected, press and hold both the Dim and Mute buttons for four seconds.	Tone	Voice	Visual Display
	X On = Two beeps	X On	X will blink twice in the display
	X Off = One beep	X Off	X will blink once in the display

To Turn K Band On and Off

While no signal is being detected, press and hold both the Mute and City buttons for four seconds.	Tone	Voice	Visual Display
	K On = Two beeps	K On	K will blink twice in the display
	K Off = One beep	K Off	K will blink once in the display

To Turn Safety Alert On and Off

While no signal is being detected, press and hold the Dim and iMute buttons for four seconds.	Tone	Voice	Visual Display
	On = Two beeps	Safety Alert On	S Flashes Two Times
	Off = One beep	Safety Alert Off	S Flashes One Time



Settings and Detection

Your Detector

Detection

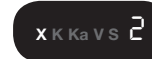
The tables on the following pages show you the types of **Signals** your detector will detect, as well as the voice and visual alerts it provides for each of them.

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 18.)

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

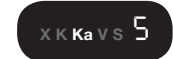
X Signal Detected



K Signal Detected



Ka Signal Detected

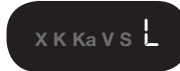




Detection

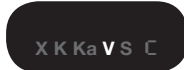
During laser alerts, the letter **L** will appear, instead of the signal strength indication.

Laser Signal Detected



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

VG-2 Alert Signal Detected

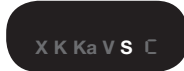


Spectre I or IV+ Alert Signal Detected



During Safety Alert, the letter **S** will appear.

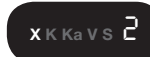
Safety Alert Signal Detected



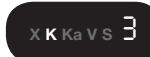
Radar Signals, Voice and Visual Displays

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

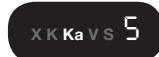
X Signal Detected



K Signal Detected



Ka Signal Detected



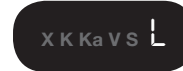
Detection

Laser Signals, Voice and Visual Displays

Type of Signal	Voice	Visual Display
LTI 20-20*	Laser	L is Steady
LTI Laser*	Laser	L is Steady
Kustom Signals Laser 340*	Laser	L is Steady
Kustom Signals Laser*	Laser	L is Steady
Stalker LIDAR*	Laser	L is Steady
Laser Atlanta SpeedLaser/Kustom Signals-ProLaser II*	Laser	L is Steady

* Your detector provides 360° detection of these signals.

Laser Signal Detected



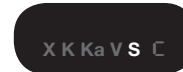
NOTE

Beep rate changes with different laser alerts.

Safety Alert Signals, Voice and Visual Displays

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

Safety Alert Signal Detected



NOTE

There are different tones for each Safety Alert.

VG-2 and Spectre I or IV+ Alert Signals, Voice and Visual Displays

Type of Signal	Voice	Visual Display
Interceptor VG-2	VG-2 Alert	V is Steady
Spectre I or IV+	Spectre Alert	V Blinks

VG-2 Alert Signal Detected



Spectre I or IV+ Alert Signal Detected



NOTE

There are different tones for each alert.

Nothing Comes Close to a Cobra®



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.

Description	Interpretation	Recommended Response
Tone repeats slowly at first, then speeds up rapidly.	Probably police radar.	FULL ALERT
Tone sounds one time only.	Probably a false alarm, but possibly pulsed radar, VG-2, or Spectre I or IV+ nearby.	Exercise caution
Tone instantly begins repeating rapidly.	Radar, VG-2 or Spectre I or IV+ 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.	You are nearing an emergency vehicle, railroad crossing, or road hazard (construction, accident, etc.).	Exercise caution



Understanding Radar and Laser

Radar Speed Monitoring Systems

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

X band	10.525 GHz
K band	24.150 GHz
Ka band	33.400 – 36.00 GHz

Your detector detects signals in all three radar bands, plus Ku band (13.435 GHz), which is an approved frequency used in parts of Europe and Asia.

VG-2 and Spectre I & IV+

VG-2 and **Spectre I & IV+** are radar detector detectors (RDDs) that work by detecting low-level signals emitted by most radar detectors. Your detector does not emit signals that can be spotted by VG-2 and Spectre I RDDs. However, your detector can be spotted by Spectre IV+ RDDs. Your unit detects signals from these or similar devices and will alert you when such a device is in use near your vehicle.

Safety Alert Traffic Warning System



FCC-approved **Safety Alert** transmitters emit microwave radar signals that indicate the presence of a safety-related concern. Depending on the frequency of the signal emitted, it can indicate a speeding emergency vehicle or train, or a stationary road hazard.

Because these microwave signals are within the K band frequency, most conventional radar detectors will detect Safety Alert signals as standard K band radar. Your detector, however, is designed to differentiate between standard K band and Safety Alert signals, and give separate alerts for each.

Safety Alert technology is relatively new. Safety Alert transmitters can be found in limited numbers in all 50 states, but the number is growing. Depending on your location, you may not receive these alerts regularly and may often encounter emergency vehicles, trains and road hazards without being alerted. As the number of transmitters increases, these alerts will become more common.

When you receive such an alert, please watch for emergency vehicles ahead of you, on cross streets and behind you. If you see an emergency vehicle approaching, please pull over to the right side of the road and allow it to pass.



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 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.
- Connect a USB device to the type A USB port on your power cord. If it does not provide a charge/power to your phone/device then the internal fuse is likely blown. Contact Cobra for support or spare parts.



Specifications

Band and Frequencies

Band	Frequencies		
X Band	10.525	± 0.050	GHz
K Band	24.125	± 0.125	GHz
Ka Band	34.700	± 1.300	GHz
VG-2	11.500	± 0.250	GHz
Laser	910 ± 50nm	100	PPS
	910 ± 50nm	125	PPS
	910 ± 50nm	130	PPS
	910 ± 50nm	200	PPS
	910 ± 50nm	238	PPS
910 ± 50nm	340	PPS	
Spectre I	13.300	± 0.200	GHz
Spectre IV/IV+	Not Disclosed		
Safety Alert	24.070	± 0.010	GHz
Traffic Warning	24.110	± 0.010	GHz
System	24.190	± 0.010	GHz
	24.230	± 0.010	GHz

U.S. Patent Numbers: 6,078,279; 6,621,447.



Warranty

Warranty

Limited 1-Year Warranty

Cobra Electronics Corporation warrants that this product and the component parts thereof, will be free of defects in workmanship and materials for a period of one year from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser. If the product is under warranty, it will be repaired or exchanged depending on the model as determined at Cobra's sole discretion. Such remedy shall be your sole and exclusive remedy for any breach of warranty.

The procedure for obtaining service and support, and the applicability of this warranty, will vary depending on the country or jurisdiction in which you purchased and utilize the product. For the details on obtaining product service, support and warranty please visit www.cobra.com/support

Provided that the product is utilized within the U.S.A.- Cobra will, without charge, repair or replace, at its option, defective products, 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, to an address in the U.S.A., will be at Cobra's expense, if the product is repaired or replaced under warranty.

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

Exclusions: This limited warranty does not apply: 1) To any product damaged by accident; 2) In the event of misuse, ordinary wear, failure to follow directions, or improper maintenance 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 product was purchased or is utilized in a jurisdiction not covered by the limited warranty.

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 and countries do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.



Customer Assistance

Product Service & Support

Product Service and Support

For any questions about operating or installing this new Cobra product, PLEASE CONTACT COBRA FIRST...do not return this product to the retail store. The contact information for Cobra will vary depending on the country in which you purchased and utilize the product. For the latest contact information, please go to www.cobra.com/support

For products purchased in the U.S.A. you may also call 1-773-889-3087.

For Products Purchased in the U.S.A., if your product should require factory service, please go to www.cobra.com/support and follow the instructions for returning your product to the Cobra Factory Service Department for service.



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 at www.cobra.com



Windshield Mounting Bracket

Includes suction cups
Item #545-159-N-001



Straight 12V DC Power Cord

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



Coiled 12V DC Power Cord

Includes plug and fuse
Item # 420-026-N-001



Straight Combination Radar USB Cord

Includes plug and USB Output
Item # PWR USB-01



Dual Port Power Adapter

Includes adjustable plug (up to 90°) and fuse
Item # CLP-2B



Hardwire Cord for Radar

Includes fuse
Item # RA-PSCB



Install Mount

Includes 3M Dual Lock
Item # 545-002