

CB Radios microTALK® Radios Radar/Laser Detectors Safety Alert® Traffic Warning Systems **Handheld GPS Receivers** Mobile GPS Navigation Systems HighGear® Accessories CobraMarine™ VHF Marine Radios CobraMarine™ Power Inverters

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





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.

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. productinfo@cobra.com (e-mail)

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

Chicago, Illinois 60707 USA



Nothing Comes Close to a Cobra®

Accessories

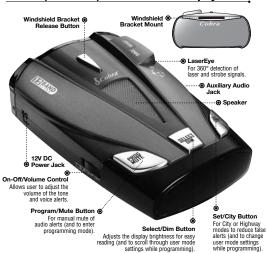
English

Nothing Comes Close to a Cobra®

English

Controls, Indicators, Connections and Display

Controls, Indicators, Connections and Display



System Ready

by Cobra Electronics Corporation may violate FCC Rules and void your authority to operate this equipment.

Alpha/Numeric Dot Matrix Text Display* @-

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

* See pages 5 – 27 for more information about display features.





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

LaserEye

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 DigiView Data Display

With easy-to-read alpha/numeric

dot matrix text readout 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.

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

Smart Power A timed power saving function that saves your car's battery

EasySet Programming

User-friendly mode selection and setting with visual guidance

Auxiliary Audio Jack

For external speaker connection

Mounting

Mounts easily on windshield or dashboard

Nothing Comes Close to a Cobra® A3



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



Content

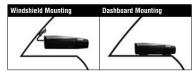
	Introduction A1 Important Information A1 Customer Assistance A1 Controls, Indicators, Connections and Display A2 Product Features A3
\$	Your Detector Installation 2 Getting Started 5 EasySet Programming 6 Settings 16 Highway/City Mode 1 Mutring an Alert 12 Auto Mute Mode 13 Voice Alert and Tone Alert Modes 13 IntelliMute 14 Compass 17 Pop Alert 15 K, Ku and X Band Detection 16 VG-2 Alert 20 Spectre 1 Alert 22 SmartPower 22 DiglyTiew Data Display Brightness 23 Detection 25 Signals Detected 22 Audio Alerts 25
Ā	Visual Display 25 Instant-On Detection 25 Pop Detection 28 Responding to Alerts 28 Understanding Radar and Laser 25 Maintenance 31 Specifications 32 Warrantv 32
3	Limited 1-Year Warranty 33 Customer Assistance Product Service 34 Trademark Acknowledgement 35 Optional Accessories 36
	Order Info



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.





Windshield Mounting



- 2. Make sure the rubber cups and your windshield are clean.
- 3. Push the bracket firmly onto the windshield.



- 4. Attach the detector to the bracket. Check the angle of the unit.
- 5. To adjust the angle if necessary, gently push or pull on the bracket to bend it. DO NOT use the detector to bend the bracket.
- 6. Plug the power cord into the detector.



- 7. Plug the cigarette lighter adapter on the power cord into your vehicle's cigarette lighter.
- 8. You can temporarily remove the detector whenever you wish by depressing the bracket release button and sliding it off the bracket.

2 English



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 CANNOT be adjusted after mounting.
- 2. Remove the paper backing from one side of the hookand-loop fastener.
- 3. Attach the pad to the dashboard at your chosen location and remove the other paper backing.
- 4. Attach the detector to the hook-and-loop fastener. You can remove and reattach the unit as often as you like.
- 5. Plug the power cord into the detector.
- 6. Plug the cigarette lighter adapter on the power cord into your vehicle's cigarette lighter.





Getting Started

Getting Started

On-Of Volume Contro Rotate clockwis (away from yo

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⊚					
	4	3			

To Turn	On the	Unit and	Adjust	the	Audio	Volume

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

Tone	Visual Display	Voice
Three beeps	Testing	Testing, then three
	System Ready	beeps
	The display will then	System Ready
	cycle through the user mode settings (city or highway, Intellimute and	Voice Alert
l	SmartPower status)	l

Start-up is complete when the display continuously shows the current compass direction (N, NE, E, SE, S, SW, W or NW) plus single letters indicating current user mode settings (c = City mode, City X Beep Off mode and City X+K mode, h = Highway mode, i = IntelliMute on).

Power On

Testing

Start-Up Complete

System Ready

Voice Alert

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.

4 English



FasySet Programming

EasySet Programming

All user mode settings on your detector can be changed by using Program mode. When changing the settings, please keep in mind:

- Buttons can have multiple functions.
- All settings will be stored in memory when the power is turned off and recalled when the power is turned back on.

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



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

Programming User Modes

The tables on pages 8 through 9 show you how to program all user modes and the settings you can choose from.



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

See page 15 for instructions on setting the IntelliMute activation point. See page 17 for instructions on calibrating the interminate act See page 22 for instructions on using SmartPower.



EasySet Programming

Set/City Button € Press and release Select/Dim Butto Press and releas

Program/N

s and release	1		/	
Mute Button	00	in		
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on ⊚			11/14	
. V.				18.90

Press and hold the	Tone	Visual Display	Voice
Program/Mute button for two seconds.	Three beeps	Program will appear. Program will appear. Then brief programming instructions will scroll through the display three times.	Start Program
While the programming instructions are scrolling, press and release the Select/Dim button to cycle through the user modes.	One beep with each button press	As each mode is displayed, the current setting for that mode will be shown.	None
With the user mode you wish to change displayed, press and release the Set/City button to change the setting. To move to the next selection, press the Selection, press the Selection button again.	One or two beeps, depending on your selection	The setting you select will be shown.	Current setting
When you have finished programming any or all of the user modes, press and release the Program/Mute button to exit Program mode. Or simply wait ten seconds without pushing any buttons.	One beep	When you exit Program mode, the new setting will automatically be saved and EXIT PROGRAM and Settings Saved! will appear. EXIT Settings Saved! Saved!	Exit Program

6 English



EasySet Programming

This EasySet programming menu lists all of the modes and settings you can choose from after you have entered Program mode as described on page 7.

EasySet Programming Menu					
Mode	Tone or Voice	Visual Setting	Result		
Set City mode	Two beeps	City X	A single beep sounds when the signal is first detected.		
default*	One beep	City X beep Off	Audio for all X band alerts are blocked until signal strength reaches Level 3.		
	One beep	City X+K	Combines the City X mode with prevention of K band audio alerts until signal strength reaches Level 2.		
IntelliMute mode	Two beeps	IntelliMute On	All alerts (except for strobe signals from emergency vehicles) are automatically muted below the engine rev point you set.		
	One beep	IntelliMute Off	Normal operation.		
Set IntelliMute RPMs (not shown if IntelliMute is off)	One beep	Set IntelliMute (see page 15 to set activation point)	Allows you to set the engine rev point while using IntelliMute.		
AutoMute mode	Two beeps	AutoMute On	The audio volume of all alerts will be automatically muted after four (4) seconds for as long as the signal is detected.		
	One beep	AutoMute Off	All alerts will sound at full volume for as long as the signal is detected.		
Set compass	One beep	Set Compass (see page 17 to calibrate compass)	Allows you to calibrate the compass.		
Pop Detect	Two beeps	Pop Detect On	Unit will detect Pop signals.		
mode	One beep	Pop Detect Off	Unit not will detect Pop signals.		

^{*} The settings for these user modes can also be changed with the one button method. See description of each user mode (pages 10 and 24) for details.





EasvSet Programming

Mode	Tone	Visual Setting	Result
VG-2 Detect	Two beeps	VG-2 Detect On	Unit will detect VG-2 signals.
mode	One beep	VG-2 Detect Off	Unit will not detect VG-2 signals.
VG-2 Audio mode (not	Two beeps	VG-2 Audio On	With VG-2 Detect on, the unit will give audible alerts for VG-2 signals.
shown if VG-2 detect is off)	One beep	VG-2 Audio Off	With VG-2 Detect off, the unit will give only visual alerts for VG-2 signals.
Spectre 1 Detect mode	Two beeps	Spectre 1 Detect On	Unit will detect Spectre 1 signals.
	One beep	Spectre 1 Detect Off	Unit will not detect Spectre 1 signals.
Spectre 1 Audio mode (not shown if	Two beeps	Spectre 1 Audio On	With Spectre 1 Detect on, the unit will give audible alerts for Spectre 1 signals.
(not snown if Spectre 1 detect is off)	One beep	Spectre 1 Audio Off	With Spectre 1 Detect off, the unit will give only visual alerts for Spectre 1 signals.
SmartPower	Two beeps	SmartPower On	SmartPower is on.
mode	One beep	SmartPower Off	SmartPower is off.
K or Ku Band	Two beeps	K or Ku Band On	Unit will detect K or Ku Band signals.
detect mode	One beep	K or Ku Band Off	Unit will not detect K or Ku Band signals.
X Band	Two beeps	X Band On	Unit will detect X Band signals.
detect mode	One beep	X Band Off	Unit will not detect X Band signals.
Set display	Two beeps	Display Dim	Partially dimmed for dusk or night driving.
Dim mode default*	One beep	Display Dimmer	More dimmed for dusk or night driving.
	One beep	Display Dark	Display is off.
Restore factory settings	One beep	Restore Factory Settings	Resets user modes and settings to factory default.
Exit program	One beep	EXIT PROGRAM	Allows you to exit Program mode.





Settings

Settings

Highway/City Mode

Your detector has a **Highway** mode and three different levels of **City** modes: City X, City X Beep Off and City X+K. **City** X mode sounds a single beep when the signal is first detected. **City** X Beep **Off** mode prevents all X band audio alerts until the signal strength reaches Level 3. **City** X+K mode combines the City X mode with prevention of K band audio alerts until the signal strength reads Level 2. This will reduce false alerts while you are driving in or near urban areas where there are many sources for conflicting X or K band signals such as microwave towers and automatic door openers. The factory setting is Highway. The factory City mode default setting is City X.



To Change From Highway Mode to City Mode	y Mode to City Mode
--	---------------------

Press and	Tone	Visual Display	Voice
release the Set/City button.	One beep		City X or City X Beep Off or City X, K

City Mode

NW c

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

To Change From City Mode Back to Highway Mode				
Press and release	Tone	Visual Display	Voice	
the Set/City button again.	Two beeps	h appears in the display	Highway	

Highway Mode







Setting City Default

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



Press and hold the	Tone or Voice	Visual Display	
Set/City button.	One beep each time the display cycles	Cycles — see chart above	
Release the Set/City button to select the current display as default.	None	City X Beep Off, City X+K or City X	

To Set the City Mode Default Using Program Mode (See Page 7 For Instructions on Using Program Mode)

See Page 7 For instructions on Using Program Mode)					
In Program mode, go to City.	Tone	Visual Display	Voice		
	One beep	City X Beep Off	City X Beep Off		
	One beep	City X+K	City X, K		
	Two beeps	City X	City X		

Two beeps City X City X

City X Beep Off City X+K City X

City X

City X

City X

Nothing Comes Close to a Cobra* 11



Settings

Muting an Alert

Your detector allows you to quickly turn off an **Audio Alert** by momentarily pressing the Program/Mute button. If you press the Program/Mute button a second time during the Alert, the Audio Alert will be turned back on.



To Turn On or Off an Audio	Alert Using the Program/Mute But	tton

	_	-
Press and release	Tone	Visual Display
the Program/Mute button.	None	None

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 or Off Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode, go to Auto Mute.

Tone	Visual Display	Voice
Two beeps	Auto Mute On	Auto Mute On
One beep	Auto Mute Off	Auto Mute Off
Auto Mute Off	Auto Mute On	

AutoMute On

AutoMute Off

Voice Alert and Tone Alert Modes

You can set your detector to sound alerts and confirm user settings with either a **Voice** or a **Tone**. The factory setting for Alert mode is Voice.

To Select Voice or Tone Mode Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode,
go to Voice/Tone.

Tone	Visual Display	Voice
One beep	Tone	Tone Alert
Voice Alert	Voice	Voice Alert

Auxiliary Audio Jack

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



12 English



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 15). Whenever the revs are below that point, IntelliMute will begin muting. The activation point will be stored in memory and recalled each time the power is turned on. An i will appear in the display when IntelliMute is on. The factory setting is IntelliMute off.



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 or Off Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode, go to IntelliMute.

Tone	Visual Display	Voice
Two beeps	IntelliMute On, then i appears in the display	IntelliMute On
One beep	IntelliMute Off	IntelliMute Off
IntelliMute On	IntelliMute Off	
NW † i	h Intelli	
Intelli	Mute	
Mute	Off	
0n		



What to Remember While Using IntelliMute

IntelliMute works with all City and Auto Mute modes.

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

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.



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



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.

14 English







To Set the IntelliMute Activation Point Using Program Mode (See Page 7 For Instructions on Using Program Media)

(See Fage / For instructions on Using Frogram Mode)					
In Program mode, go to Set	Tone	Visual Display	Voice		
IntelliMute.	None	Set IntelliMute	None		
Press and release the Set/City button to begin setting IntelliMute RPMs.	Two beeps	Press SET at desired RPMs	Set Engine Revs		
Rev your engine to the level you wish to set. Rev the engine slightly above idle and hold revs steady for two seconds.	None	None	None		
At the desired rev level, press and release the Set/City button.	Three beeps	IntelliMute Set!	IntelliMute Set		
Press and release either the Select/Dim button to proceed to the next user mode or the Program/Mute button to exit the Program mode	None	None	None		

Setting IntelliMute RRMs







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	Visual Display	Voice
	IntelliMute not set Please try again	IntelliMute not set Please try again
One beep	IntelliMute Off	IntelliMute Off





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



Calibrating the Compass



Before using it for the first time, you must calibrate the compass to provide accurate indications of direction. See page 7 for instructions on using the Program mode to select Set Compass.

Calibration allows the compass electronics to measure and store information about the magnetic fields generated by your vehicle.

The compass will remain accurately calibrated as long as your detector is mounted in the same place in your vehicle. If you change the location where the unit is mounted or move it to another vehicle, you must recalibrate the compass.

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

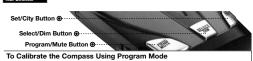


When the instructions direct you to drive in two circles, a large parking lot is the most convenient place to do so. It does not matter what direction your vehicle is pointing when you start the circles, which direction you go to make the circles, and it does not have to be exactly two circles. You do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

16 English







		Program M	

In Program mode, go to	Tone	Visual Display	Voice
Set Compass.	None	Set Compass	None
Press and release the Set/City button to begin setting the compass.	One (1) beep	Drive in 2 circles Press SET when done	Set Compass
Within two minutes, drive your vehicle in a circle twice, then press the Set/City button again.	Three beeps	Compass Set! For two seconds followed by direction of travel (N, NE, E, SE, S, SW, W or NW)	Compass Set
Press and release either the Select/Dim button to proceed to the next user mode or the Program/Mute button to exit Program mode.	None	None	None

Calibrate Compass

Compass Set









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

Tone	Visual Display	Voice
One beep	Compass not set	Compass not set
	Please try again	Please try again







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

To Turn Pop Detect Mode On or Off Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode, go to Pop Detect.

Tone	Visual Display	Voice
Two beeps	Pop On	Pop On
One beep	Pop Off	Pop Off
Pop Detect On	Pop Detect Off	

K, Ku and X Band Detection

The new **Ku Band** may be introduced to North America in the future. To prevent Ralse alerts until it is, the factory default for **Ku Band** detection is off. In parts of North America, annoying false alerts from door openers and similar devices are triggered on the **X Band** and **K Band**. If desired, **X Band** or **K Band** can be turned off. The factory default for **X Band** and **K Band** detection is on.

To Turn X, K and/or Ku Mode On or Off Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode,

g	o to X	, K o	r Ku	band
	X-Ban	d On		
4				N

X-Band Off			
X-Band	Off		



Visual Display	Voice
X-Band On	X On
X-Band Off	X Off
K-Band On	K On
K-Band Off	K Off
Ku-Band On	Ku On
Ku-Band Off	Ku Off
	X-Band On X-Band Off K-Band Off K-Band Off Ku-Band On

Ku-Band On K-Band Off (-Band Off (u-Band On

Ku-Band Off . Ku-Band Off



Settings

VG-2 Alert

The detector is undetectable by VG-2 detection devices and will alert you when such a device is in use near your vehicle. During the alert, the unit continues to detect other signals. You can choose whether or not you want your unit to show VG-2 Alerts. With VG-2 Detect mode on, you can also choose whether or not you want your unit to sound audible VG-2 Alerts. The factory settings are VG-2 Detect off and VG-2 Detect Audio off.

To Turn VG-2 Detect Mode On or Off Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode, go to VG-2 Detect.

Visual Display	Voice
VG2 On	VG2 On
VG2 Off	VG2 Off

VG-2 Detect On VG-2 Detect Off

VG2 On

VG2 Off

To Turn VG-2 Audio Mode On or Off Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode, go to VG-2 Audio.

Tone	Visual Display	Voice
Two beeps	VG2 Audio On	VG2 Audio On
One beep	VG2 Audio Off	VG2 Audio Of
VG-2 Audio On	VG-2 Audio Off	



Spectre 1 Alert

The detector is undetectable by Spectre 1 detection devices and will alert you when such a device is in use near your vehicle. During the alert, the unit continues to detect other signals. You can choose whether or not you want your unit to show **Spectre 1 Alerts**. With Spectre 1 Detect mode on, you can also choose whether or not you want your unit to sound audible Spectre 1 Alerts. The factory settings are Spectre 1 Detect off, Spectre 1 Audio off.

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

In Program mode, go to Spectre 1 Detect.

Tone	Visual Display	Voice
Two beeps	Spectre On	Spectre On
One beep	Spectre Off	Spectre Off

Spectre 1 Detect On Spectre 1 Detect

Spectre On

Spectre Off

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

In Program mode, go to Spectre 1 Audio.

Visual Display	Voice
Spectre Audio On	Spectre Audio On
Spectre Audio Off	Spectre Audio Off
Spectre 1 Audio Of	f
	Spectre Audio On Spectre Audio Off





SmartPower

Your detector includes the SmartPower feature that, when activated, will put the unit into Standby mode (low power) for about 30 minutes after the car's engine has been turned off. After 30 minutes in Standby mode, the unit will automatically turn off.

SmartPower Entering Standby Mode

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

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

In Program mode, go to SmartPower.

Tone	Visual Display	Voice	
Two beeps	SmartPower On	SmartPower On	
One beep	SmartPower Off	SmartPower Off	
SmartPower On	SmartPower Off		

...Power Off

DigiView Data Display Brightness

Your detector has a Bright display mode (for daytime driving) and three levels of Dim display modes (Dim for dusk driving, Dimmer for night driving and Dark where no visual alerts will be displayed) to control the display's brightness levels. The factory setting is Bright. The factory Dim mode default setting is Dimmer.



To Change the Brightness to Dim			
Press and release the	Tone	Visual Display	Voice
Select/Dim button once.	Two beeps	Dim, Dimmer or Dark	Dim, Dimmer or Dark

Dim Display

Dimmer Display Dimmer

Dark Display





NOTE
When you change to Dim mode, the unit will enter whichever

To Change the Brightness to Bright			
Press and release the Select/Dim button again.	Tone	Visual Display	Voice
	One beep	Bright	Bright

Bright Display



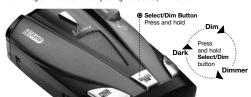




Settings

Setting Dim Default

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



To Set the Display Dim Mode Default Directly Using the Set/Dim Button

		,
Press and hold the	Tone or Voice	Visual Display
Select/Dim button	One beep each time the display cycles	Cycles — see chart above
Release the Select/Dim button to select the current display as default.	None	Dim, Dimmer or Dark

To Set the Display Dim Mode Default Using Program Mode (See Page 7 For Instructions on Using Program Mode)

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

Tone	Visual Display	Voice
Two beeps	Dim	Dim
One beep	Dimmer	Dimmer
One beep	Dark	Dark



Detection

Detection

Signals Detected

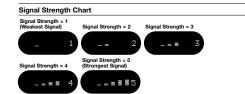
The tables on the following pages show you the types of **Signals** your detector will detect, as well as the visual alerts it provides for each of them.

Audio Alerts

A distinctly different **Alert** tone is used for each type of signal detected (including separate tones for each laser signal). For X, K, 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 28.

Visual Display

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







Radar Signals and Visual Displays

71			_
X Band Radar	X and Signal Strength	X Alert	
K Band Radar	K and Signal Strength	K Alert	
Ka Band Radar	Ka and Signal Strength	Ka Alert	
Ku Band Radar	Ku and Signal Strength	Ku Alert	
Pop Radar Mode	Pop	Pop Alert	

X Signal Detected

K Signal Detected

Ka Signal Detected

Pop Signal Detected



Laser Signals and Visual Displays

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

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

Kustom Signals ProLaser Kustom Signals ProLaser III LTI 20-20 LTI Ultra-Lyte Laser 20/20 UltraLyte Pro Laser Pro Laser 3



NOTE
Beep rate changes with different laser alerts.





Detection

Strobe Alert Signals and Visual Displays Type of Signal Visual Display 3M Opticom or Tomar* Emergency Vehicle **Emergency Vehicle Approaching**

* Your detector provides 360° detection of these signals.

Strobe Alert Display (Flashing)



Safety Alert	signals and	Visual	Displays	
Tune of Cian	al.	Viewel	Dioplay	

Type of Signal	Visual Displa	y Voice	:
Emergency Vehicle	s Emergency V	ehicle Emer	gency Vehicle Approaching
Road Hazards	Road Hazard	Road	Hazard Ahead
Trains	Train	Train	Approaching
Emergency Alert Signal Detected	Road Hazard Alert Signal Detected	Train Alert Signal Detected	



Road Hazard

NOTE
There are different tones for each Safety Alert.

VG-2 and Spectre 1 Alert Signals and Visual Displays

Type of Signal	Visual Display	Voice	
VG-2 Alert	VG2	VG-2 Alert	
Spectre 1	Spectre1	Spectre Alert	
Spectre 1 Alert	VG-2 Alert		







There are different tones for each alert.





Instant-On Detection

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



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

Pop Detection

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

Responding to Alerts

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, 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:

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

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 Frequencie			

Band	Frequenci	es	
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
Gystom	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

Unit Dimensions and Weight

Dimensions* (H x W x D)	Weight*	
1½" x 3½s" x 4¾s"	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.



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

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! See customer assistance on page A1.

If this product should require factory service, please call Cobra first at 773-889-3087 BEFORE sending the product. This will ensure the fastest turnaround 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:

- 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 to four 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

Trademark Acknowledgement

Cobra®, 6 Band®, 9 Band®, DigiView®, EasySet®, Extra Sensory Detection®, 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.

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34 English





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. 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

