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DETECTOR WITH XTREME RANGE SUPERHETERODYNE® **TECHNOLOGY**

XRS 9770

Printed in China Part No. 480-666-6

English

Nothing Comes Close to a Cobra[®] Enalish **Nothing** Comes Close to a Cobra®



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/Strobe 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,

3M or strobe transmitter is within range as defined by that product. Please call local fire and police departments to learn if coverage exists in your area.

Safe Driving

Motorists, as well as operators of emergency or service vehicles, are expected to exercise all due caution while using this product, and to obey all applicable traffic laws.

Security of Your Vehicle

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



Customer Assistance

Should you encounter any problems with this product, or not understand its many features please refer to this owner's manual. If you require further assistance after reading this manual. Cobra Electronics offers the following customer assistance services:

For Assistance in the U.S.A.

Automated Help Desk English only. 24 hours a day, 7 days a week 773-889-3087 (phone).

Customer Assistance Operators English and Spanish. 8:00 a.m. to 5:30 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

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⊚ 12V DC

Power Jack

On-Off/Volume Control &

of the tone and voice alerts.

Allows user to adjust the volume

Windshield Bracket @

Release Button

Controls, Indicators, Connections and Display

Windshield **Bracket**

12

Mount

LaserEye

For 360° detection of

····

Auxiliary Audio

Select/Dim Button

Adjusts the display

brightness for easy

scroll through user

reading (and to

····

■ Speaker

Set/City Button

For City or Highway

modes to reduce false

alerts (and to change

user mode settings

while programming).

Jack

laser and strobe signals.

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:

Superheterodyne® Technology

XRS provides extra detection range and the best possible advance warning to even the fastest radar guns

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 I signals

LaserEve®

Instant-On Ready

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

Pop Detection

Detects the latest super-fast instant-on single

Voice or Tone Alert

With adjustable volume

With easy-to-read alpha/numeric

IntelliShield® Highway/City Modes

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 audio alerts by sensing engine RPMs

IntelliMute® Pro

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

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

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.

Xtreme Range

With super-fast sweep circuitry.

Ultra Performance

8-Point Compass

Displays direction of travel

For 360° detection of laser and strobe signals

pulse radar guns

DigiView® Data Display

dot matrix text readout



mode settings while programming).

Program/Mute Button

audio alerts (and to enter

For manual mute of

programming mode).

Alpha/Numeric Dot Matrix Text Display* 9.

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

* See pages 5 – 28 for more information about display features.

A2 English

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

System Ready

Accessories Order Info

Call 773-889-3087 [Press one from the main menu] 8:00 a.m. to 5:30 p.m. Central Time, Monday

Ordering From U.S.A.

Make Check or Money Order Payable To

Cobra Electronics, Attn: Accessories Dept.

Please visit our website: www.cobra.com

For Credit Card Orders

through Friday.

To Order Online

Item#

CI P-2B

420-030-N-001

420-026-N-001

545-159-N-001

Electronics Corporation, USA

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Call 773-889-3087 for pricing or visit www.cobra.com.

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Description

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Straight 12V Power Cord

Dual Port Power Adapter

Windshield Mounting Bracket

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Cobra Electronics Corporation™, 14 Band™, 15 Band™, Extreme Bright DataGrafix™

IntelliLink[™], Revolution[™] Series, SmartPower[™], Spectre Alert[™], Super-Xtreme Range

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Coiled 12V Power Cord



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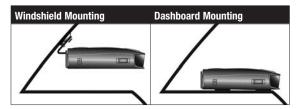
	
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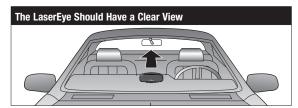
Installation

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.



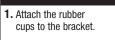
The unit's lens must not be blocked and the LaserEye should have a clear view out the back window to allow 360° detection.



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

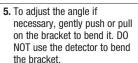




- 2. Make sure the rubber cups and your windshield are clean.
- **3.** Push the bracket firmly onto the windshield.

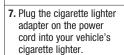


4. Attach the detector to the bracket. Check the angle of the unit.





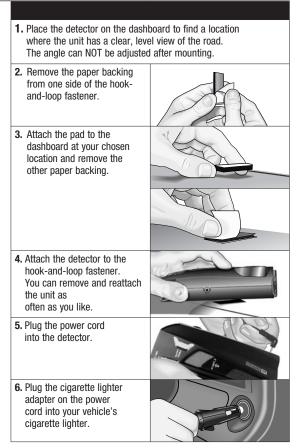
6. Plug the power cord into the detector.





You can temporarily remove the detector whenever you wish by pressing the bracket release button and sliding it off the bracket.

Dashboard Mounting



Getting Started



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 System Ready The display will then cycle through the user mode settings (city or highway, Intellimute and SmartPower status).	Testing, then three beeps System Ready Voice Alert
	siaiusj.	

Start-up is complete when the display shows -- h.

Important: Once the compass is calibrated, the dashes will change to one of the cardinal compass directions (N, NE, E, SE, S, SW, W, NW). See page 18 to calibrate the compass.

Power On

Start-Up Complete

Testing

System Ready

NOTE

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.



EasySet 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.



NOTE

You cannot enter Program mode during an alert. The unit will not detect signals while in Program mode. During programming, if no buttons are pushed for ten 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 18 for instructions on calibrating the compass. See page 23 for instructions on using SmartPower.



EasySet Programming



To Use Program Mod	е		
Press and hold the	Tone	Visual Display	Voice
Program/Mute button for two seconds.	Three beeps	Program will appear. PROGRAM	Start Program
		Then brief programming instructions will scroll through the display three times.	
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.	One or two beeps, depending on your selection	The setting you select will be shown.	Current setting
To move to the next selection, press the Select/Dim button again.			
When you have finished programming any or all of the user modes, press and release the Program/Mute button to exit Program mode. 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 PROGRAM Saved!	Exit Program



EasySet Programming

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.

Mode	Tone	Display/Voice	Result
Set IntelliShield	Two beeps	City X	A single beep sounds when the signal is first detected.
City mode 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 f emergency vehicles) are automatica muted below the engine rev point you set.	
	One beep	IntelliMute Off	Normal operation.
Set IntelliMute RPMs	(see page 15 rev point while		Allows you to set the engine rev point while using IntelliMute. Note: Only shown if IntelliMute is Off.
IntelliMute Pro mode	Two beeps	IntelliMute Pro On	All radar, VG-2 and Spectre detection is turned Off below the engine rev set point.
	One beep	IntelliMute Pro Off	Normal operation.
Auto Mute mode	Two beeps	AutoMute On	The audio volume of all alerts will be automatically muted after four 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	The stop of the st		Allows you to calibrate the compass. (see page 18 to calibrate compass)
Pop Detect mode	Two beeps	Pop Detect On	Unit will detect Pop signals.
mode	One beep	Pop Detect Off	Unit will not detect Pop signals.

Mode	Tone	Display/Voice	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 shown if VG-2	Two beeps	VG-2 Audio On	With VG-2 Detect On, the unit will give audible alerts for VG-2 signals.
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 Detect mode	Two beeps	Spectre Detect On	Unit will detect Spectre I & IV+ signals.
	One beep	Spectre Detect Off	Unit will not detect Spectre I & IV+ signals.
Spectre Audio mode (not shown	Two beeps	Spectre Audio On	With Spectre Audio On, unit will give audible alerts for Spectre signals.
if Spectre detect is Off)	One beep	Spectre Audio Off	With Spectre I Audio Off, unit will give only visual alerts for Spectre I & IV+ signals.
SmartPower	Two beeps	SmartPower On	SmartPower is On.
mode	One beep	SmartPower Off	SmartPower is Off.
X Band Detect mode	Two beeps	X Band On	Unit will detect X Band signals.
	One beep	X Band Off	Unit will not detect X Band signals.
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.
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.

^{*} The settings for these user modes can also be changed with the one button method. See description of each user mode

Settings

IntelliShield Highway/City Modes

Your detector is equipped with **IntelliShield** false signal rejection technology which consists of 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.



Set/City Button
Press and release

To Change From Highway Mode to City Mode

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

City Mode



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

	•	<u> </u>	
Press and release	Tone	Visual Display	Voice
the Set/City button again.	Two beeps	h appears in the display	Highway

Highway Mode



Your Detector

Settinas

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 Set/	Tone or Voice	Visual Display
City button.	One beep each time the display cycles	Cycles – see chart above
delease the Set/City outton to select the urrent 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 Fage 7 To Instructions on Osing Frogram 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			
	City X Beep Off	City X+K	City X			

City X

City X+K



Beep Off

Nothing Comes Close to a Cobra®

Settinas

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.



	_	•
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,	Tone	Visual Display	Voice
go to Auto Mute.	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	



Settings

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 will be disconnected.



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 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.



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 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	
Intelli	Intelli	
Mute	Mute	
On	Off	
NW :	i h	



Settings

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.



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.

Settinas

Set/City Button Select/Dim Button

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

In Program mode, go to Set IntelliMute.	Tone	Visual Display	Voice
	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

Set Intel...

PressSET...

Intelli Mute Set!

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
One beep	IntelliMute not set Please try again	IntelliMute not set Please try again
One beep	IntelliMute Off	IntelliMute Off

IntelliMute Not Set IntelliMu. Please tr...



Settings

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 14 through 16.)



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.

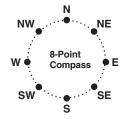
To Turn IntelliMute Pro On or Off Using Program Mode (See Page 7 For Instructions on Using Program Mode)

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	, ,	
n Program mode,	Tone	Visual Display	Voice
go to IntelliMute Pro.	Two beeps	IntelliMute Pro On, then i blinks in the display	IntelliMute Pro On
	One beep	IntelliMute Pro Off, then i is steady in the display	IntelliMute Pro Off
	IntelliMute Pro On	IntelliMute Pro 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



NOTE

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

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

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

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

NOTE



When the instructions direct you to drive in two 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.



Settings

Select/Dim Program/Mute Button ⊚ Button

To Calibrate the Compass Using Program Mode (See Page 7 For Instructions on Using Program Mode)			
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

Set Compass Drive in... Set Compa. Press SET..

Calibrate Compass Compass Set Compass Set!

Direction of Travel





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

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.

The Pop mode receiver senses Pop singles beyond the effective range of Pop radar guns. As the Pop mode receiver is so sensitive, you should limit the use of Pop Detect mode to highway and rural driving.

Pop Alert will alert you to 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)

	Tone
go to Pop Detect.	Two

ToneVisual	Display	Voice
Two beeps	Pop On	Pop On
One beep	Pop Off	Pop Off

Pop Detect On Pop On Pop Detect Off Pop Off

K. Ku and X Band Detection

The new **Ku Band** may be introduced to North America in the future. To prevent false alerts until it is, the factory default for **Ku Band** detection is Off. In parts of North America, annoving 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)

X-Band On
X-Band On
X-Band Off

Tone	Visual Display	
Two beeps	X-Band On	
One beep	X-Band Off	
Two beeps	K-Band On	
One beep	K-Band Off	
Two beeps	Ku-Band On	
One beep	Ku-Band Off	

X-Band Off K-Band On

English

K-Band On

K-Band Off K-Band Off

Ku-Band On Ku-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.	

Tone	Visual Display	Voice
Two beeps	VG2 On	VG2 On
One beep	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.

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

Spectre I & IV+ Alerts

Police use radar detector detectors (RDDs) to spot users of radar detectors. Your detector is able to identify signals from 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 Spectre I RDDs. You can choose whether or not you want your unit to show Spectre Alerts. With Spectre Detect mode On, you can also choose whether or not you want your unit to sound audible Spectre Alerts. The factory settings are Spectre Detect Off, Spectre Audio Off.

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

In Program mode,	
go to Spectre Detect.	

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

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

In Program mode,
go to Spectre Audio

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

Pwr Save

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 On	Power Off	

Your Detector

Settings

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



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	Dark Display
Dim	Dimmer	Dark



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

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

Bright Display

Bright

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 Select/	Tone or Voice	Visual Display	
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)

`		•	
n Program mode,	Tone	Visual Display	Voice
go to Display Dim, Dimmer or Dark.	Two beeps	Dim	Dim
	One beep	Dimmer	Dimmer
	One beep	Dark	Dark



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.

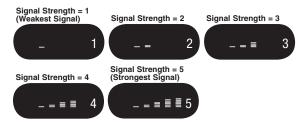
Audio Alerts

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 29.

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.

Signal Strength Chart





Detection

Radar Signals and Visual Displays

Type of Signal	Visual Display	Voice
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 Ku Signal Detected K u ≡ ≡

Pop Signal Detected

Pop

Laser Signals, Voice and Visual Displays

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

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



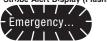


Strobe Alert Signals and Visual Displays

Type of Signal	Visual Display	Voice
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

	2.10	le	
Type of Signal	Visual Disp	olay	Voice
Emergency Vehicles	Emergency	Vehicle	Emergency Vehicle Approaching
Road Hazards	Road Haza	rd	Road Hazard Ahead
Trains	Train		Train Approaching
Emergency Alert Signal Detected	Road Hazard Alert Signal Detected	Train Alert Detected	Signal
Emergency	Road	Train	
• 4077	Hazard		

There

There are different tones for each Safety Alert.

VG-2 and Spectre I & IV+ Alert Signals and Visual Displays

YG Z and Opeone I a IV I Alert Olghaib and Viocal Displays				
Type of Signal	Visual Display	Voice		
VG-2 Alert	VG2	VG-2 Alert		
Spectre	Spectre	Spectre Alert		
Spectre Alert Signal Detected Spectre	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.

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 I or VG-2 nearby.	Exercise caution
Tone instantly begins repeating rapidly.	Radar, Spectre I 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

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 24.150 GHz K band 33.400 - 36.00 GHz Ka band

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.

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 it legal for police to use LIDAR?

Yes, LIDAR is allowed to be used in all 50 States by police. Your detector detects LIDAR (laser).



Maintenance

Pop Radar Guns

The Pop mode **Radar Gun** is a single pulse Doppler radar that is a feature of a K and Ka (Bee III Ka radar gun) band Instant-On radar gun. It uses a single short time pulse to measure the target vehicle's speed. Despite the fact that the short, single pulse makes the unit very sensitive to officer hand and vehicle movement and reduces the range of the gun in Pop mode to 50% of its range in Continuous Wave mode, this feature is added in an attempt to make the radar gun invisible to Radar Detectors.

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

Maintenance

Maintenance of Your Radar Detector

Your detector is designed and built to give you years of trouble-free performance without the need for service. No routine **Maintenance** is required.

If your unit does not appear to be operating properly, please follow these troubleshooting steps:

- Make sure the power cord is properly connected.
- Make sure the socket of your vehicle's cigarette lighter is clean and free of corrosion.
- Make sure the power cord's cigarette lighter adapter is firmly seated in your cigarette lighter.
- Check the power cord fuse. (Unscrew the ribbed end cap of the cigarette lighter adapter and examine the fuse. If required, replace it with a 2-amp fuse only.)



Specifications

Specifications

Band and Frequencies

Band	Frequencies		
X Band	10.525	± 0.050	GHz
K Band	24.125	± 0.125	GHz
Ka Band	34.700	± 1.300	GHz
Ku Band	13.435	± 0.035	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
Strobe	700	±300	nm

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.

Warrantv

Product Service

Limited 1-Year Warranty

For Products Purchased in the U.S.A.

Cobra Electronics Corporation warrants that its Cobra Radar/Laser Detectors, 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, provided that the product is utilized within the U.S.A.

Cobra will, without charge, repair or replace, at its option, defective 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.
- 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

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:

- Send the complete unit, including power cord. (It is not necessary to include the mounting bracket.)
- 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.



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 # 545-159-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 # CI P-2B



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