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English

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**12 BAND
ULTRA**

Operating Instructions



**12 BAND™ ULTRA
HIGH-PERFORMANCE
DIGITAL RADAR/LASER
DETECTOR WITH XTREME
RANGE SUPERHETERODYNE®
TECHNOLOGY**

XRS 9730

Printed in China
Part No. 490-234-P
Version A

Nothing Comes Close to a Cobra®

English



Introduction

**Important Information and
Customer Assistance**

Important Information

Federal Laws Governing the Use of Radar Detectors

It is not against federal law to receive radar transmissions with your Cobra radar/laser detector. The Communications Act of 1924 guarantees your right to receive radio transmissions on any frequency. Local laws that contravene this Act, while illegal, may be enforced by your local law enforcement officials until and unless they are prohibited from doing so by federal court action.

Safety Alert

Use of this product is not intended to, and does not, ensure that motorists or passengers will not be involved in traffic accidents. It is only intended to alert the motorist that an emergency vehicle equipped with a Cobra Safety Alert transmitter is within range as defined by that product. Please call local fire and police departments to learn if coverage exists in your area.

Safe Driving

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

Security of Your Vehicle

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



Customer Assistance

Customer Assistance

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

For Assistance in the U.S.A.

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

Customer Assistance Operators English and Spanish. 8:00 a.m. to 6:00 p.m. CT Mon. through Fri. (except holidays) 773-889-3087 (phone).

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

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

For Assistance Outside the U.S.A.

Contact Your Local Dealer

©2005 Cobra Electronics Corporation
6500 West Cortland Street
Chicago, Illinois 60707 USA
www.cobra.com

A1 English

Controls, Indicators, Connections and Display



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



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

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 RPMs

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

Order Form

Name _____

Address (No P.O. Boxes) _____

City _____ State/Province _____ Zip _____ Country _____

Telephone _____

Credit Card Number _____ Type: ☐ Visa ☐ MasterCard ☐ Discover Exp. Date _____

Customer Signature _____

Item #	Description	U.S. Cost Each	Qty	Amount
420-030-N-001	Straight 12V Power Cord			
420-026-N-001	Coiled 12V Power Cord			
545-139-N-001	Windshield Mounting Bracket			
CLP-2B	Dual Port Power Adapter			

Amount Shipping/Handling*
 \$10.00 or less \$3.00
 \$10.01-\$25.00 \$5.50
 \$25.01-\$50.00 \$7.50
 \$50.01-\$90.00 \$10.50
 \$90.01-\$130.00 \$13.50
 \$130.01-\$200.00 \$16.50
 \$200.01 plus 10% of purchase

Tax Table
 Wisconsin add 5%
 Indiana, Michigan, Ohio add 6%
 California add 7.25%
 Illinois add 9%

*For AK, HI and PR add additional \$26.95 for FedEx Next Day or \$10.95 for FedEx 2nd Day. Excludes weekends and holidays shipments. Please allow two to three weeks for delivery in the U.S.A. Prices subject to change without notice.

U.S. Subtotal _____
 (Tax if Applicable) _____
 Shipping/Handling _____
Total _____

Ordering From U.S.A.

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

For Credit Card Orders

Complete and return this order form to fax number 773-622-2269. Or call 773-889-3087 [Press one from the main menu] 8:00 a.m. to 6:00 p.m. Central Time, Monday through Friday (except holidays).

Make Check or Money Order Payable To

Cobra Electronics, Attn: Accessories Dept.,
 6500 West Cortland Street, Chicago, IL 60707 U.S.A.

To Order Online

Please visit our website: www.cobra.com

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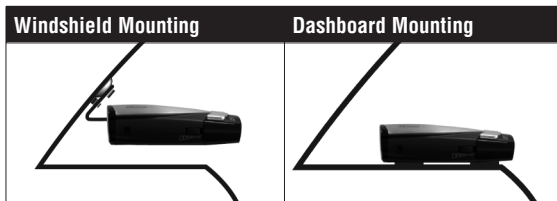
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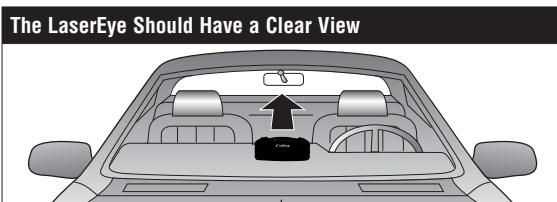
Installation

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

1. Attach the rubber cups to the bracket.

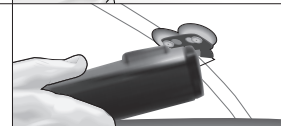


2. Make sure the rubber cups and your windshield are clean.

3. Push the bracket firmly onto the windshield.



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



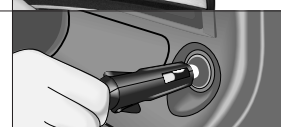
5. To adjust the angle if necessary, gently push or pull on the bracket to bend it. **DO NOT** use the detector to bend the bracket.



6. Plug the power cord into the detector.



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

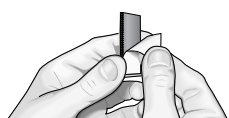


8. You can temporarily remove the detector whenever you wish by depressing the bracket release button and sliding it off the bracket.

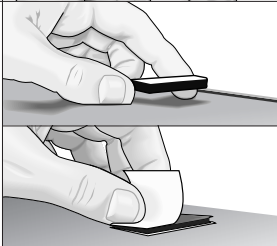
Dashboard Mounting

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 hook-and-loop fastener.



3. Attach the pad to the dashboard at your chosen location and remove the other paper backing.



4. Attach the detector to the hook-and-loop fastener. You can remove and reattach the unit as often as you like.



6. Plug the power cord into the detector.



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



Getting Started

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



To Turn On the Unit and Adjust the Audio Volume

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

Tone	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
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, X Beep Off mode and City X+K mode, h = Highway mode, i = IntelliMute on).		

Power On

Testing

System Ready

Voice Alert

Start-Up Complete

NW h



NOTE

In some vehicles, power is supplied to the cigarette lighter even while the ignition is off. If this is the case with your vehicle 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

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 17 for instructions on calibrating the compass.
See page 22 for instructions on using SmartPower.

Set/City Button 
Press and release

Select/Dim Button 
Press and release

Program/Mute Button 
Press and hold/Press and release



To Use Program Mode

Press and hold the **Program/Mute** button for two seconds.

Tone	Visual Display	Voice
Three beeps	Program will appear.  Then brief programming instructions will scroll through the display three times.	Start Program
One beep with each button press	As each mode is displayed, the current setting for that mode will be shown.	None
One or two beeps, depending on your selection	The setting you select will be shown.	Current setting
One beep	When you exit Program mode, the new setting will automatically be saved and EXIT PROGRAM and Settings Saved! will appear. 	Exit Program

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 default*	Two beeps	City X	A single beep sounds when the signal is first detected.
	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 mode	Two beeps	Pop Detect On	The unit will detect Pop signals.
	One beep	Pop Detect Off	The 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.

Mode	Tone or Voice	Visual Setting	Result
VG-2 Detect mode	Two beeps	VG-2 Detect On	The unit will detect VG-2 signals.
	One beep	VG-2 Detect Off	The unit will not detect VG-2 signals.
VG-2 Audio mode (not shown if VG-2 detect is off)	Two beeps	VG-2 Audio On	With VG-2 Detect on, the unit will give audible alerts for VG-2 signals.
	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	The unit will detect Spectre 1 signals.
	One beep	Spectre 1 Detect Off	The unit will not detect Spectre 1 signals.
Spectre 1 Audio mode (not shown if Spectre 1 detect is off)	Two beeps	Spectre 1 Audio On	With Spectre 1 Detect on, the unit will give audible alerts for Spectre 1 signals.
	One beep	Spectre 1 Audio Off	With Spectre 1 Detect off, the unit will give only visual alerts for Spectre 1 signals.
SmartPower mode	Two beeps	SmartPower On	SmartPower is on.
	One beep	SmartPower Off	SmartPower is off.
Ku Band detect mode	Two beeps	Ku Band On	The unit will detect Ku Band signals.
	One beep	Ku Band Off	The unit will not detect Ku Band signals.
X Band detect mode	Two beeps	X Band On	The unit will detect X Band signals.
	One beep	X Band Off	The unit will not detect X Band signals.
Set display Dim mode default*	Two beeps	Display Dim	Partially dimmed for dusk or night driving.
	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

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.

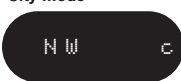
Set/City Button
Press and release



To Change From Highway Mode to City Mode

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

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

Highway Mode

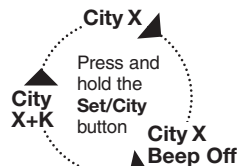


Setting City Default

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.



Set/City Button
Press and hold



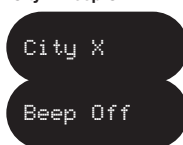
To Set the City Mode Default Directly Using the Set/City Button

	Tone or Voice	Visual Display
Press and hold the 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

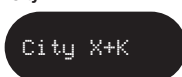
To Set the City Mode Default Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode, go to City.			
One beep	City X Beep Off	City X Beep Off	
One beep	City X+K	City X, K	
Two beeps	City X	City X	

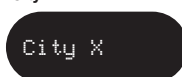
City X Beep Off



City X+K



City X



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 Turn Off or On an Audio Alert Using the Program/Mute Button

Press and release the **Program/Mute** button.

Tone	Visual Display
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 Off or On Using Program Mode (See Page 7 For Instructions on Using Program Mode)

In Program mode, go to Auto Mute.

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



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 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.



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
NW ↑ i h	Intelli
Intelli	Mute
Mute	Off
On	

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.

Set/City Button

Select/Dim Button

Program/Mute Button



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

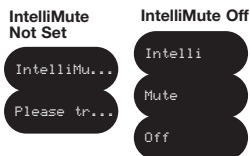
In Program mode, go to Set IntelliMute.	Tone	Visual Display	Voice
	None	Set IntelliMute	None
Press and release the Set/City button to begin setting IntelliMute RPMs.	Two beeps	Press SET at desired RPMs...	Set Engine Revs
Rev your engine to the level you wish to set. Rev the engine slightly above idle 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 RRRMs



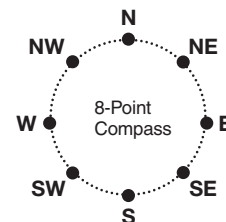
NOTE
If the unit is unable to sense usable pulses within three seconds or if you do not set a rev point within 20 seconds of beginning these steps, IntelliMute will indicate an error and automatically turn off.

Tone	Visual Display	Voice
One beep	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



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.