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IntelliLink™ Wireless Remote Series 12-Band™ S-XRS™ Maximum Performance Digital Radar/Laser **Detector with Red Light/Speed Camera GPS Locator***

XRS R7/R9G

*(Included with XRS R9G. Optional with XRS R7.)

Printed in China



Important Information and Customer Assistance

Important Information

Safe Driving

Motorists are expected to exercise all due caution while using this product, and to obey all applicable traffic laws. Do not attempt to change settings of the unit while the car is

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 Tomar 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.

Some states and municipalities prohibit mounting any object on your windshield. If you drive in these states or areas; you can mount the MDU on the dash.

Security of Your Vehicle

Before leaving your vehicle, always remember to conceal your Remote Display Unit (RDU) in order to reduce the possibility of break-in and theft. Your Main Detector Unit (MDÚ) has a two-position bracket that, when in the up position, presents a very discreet profile from outside the vehicle.



Customer Assistance

Use your owner's manual to learn about product features. 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.

Customer Assistance Operators, English and Spanish, 8:00 am to 6:00 p.m. Central Time Mon. through Fri. (except holidays) 773-889-3087.

Questions, English and Spanish, Fax: 773-622-2269.

Technical Assistance, English only, www.cobra.com. English and Spanish e-mail, Product info@cobra.com.

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

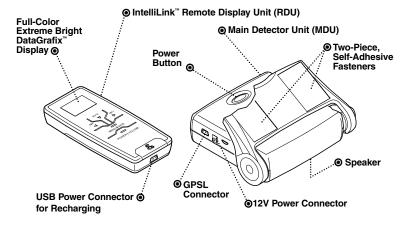
©2007 Cobra Electronics Corporation 6500 West Cortland Street Chicago, Illinois 60707 USA



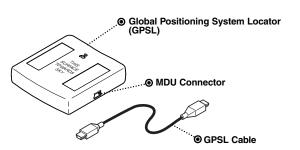
Controls, Indicators and Connections

The XRS R7 provides detection capabilities for radar, laser and strobe signals.

The XRS R9G has all the features of the XRS R7 plus a GPSL module which provides alerts when approaching photo-enforced intersections and roads with fixed red light/speed cameras. The XRS R9G can store up to 1,000 additional user-programmable Location Alerts.

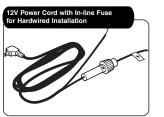


Optional GPSL for Model XRS R7 and Standard on Model XRS R9G

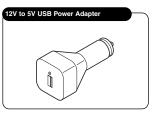


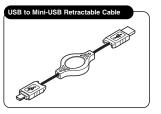


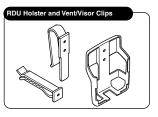
In This Package

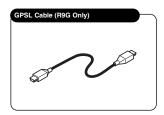


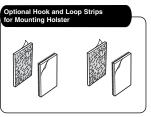


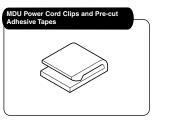














Accessories Order Info

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
CLP-2B	Dual Port Power Adapter
RDA GPSL	GPS Locator (w/cable) Upgrade Kit (for Model XRS R7 Only)
RDA LIBP	LiON Replacement Battery Pack
RDA RDU	Replacement RDU







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Product Overview

Cobra XRS R7 and XRS R9G



WARNING

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

Read and understand the information in the Installation Overview and **Installation** sections of this manual for best operation.

The XRS R7 consists of a Main Detector Unit (MDU) and a wireless Remote Display Unit (RDU). The XRS R9G adds a Global Positioning System Locator (GPSL) module, providing fixed red light/speed camera location-based alerts. The XRS R7 can be upgraded with the optional Cobra GPSL to provide fixed red light/speed camera location-based alerts.

Main Detector Unit (MDU)

The MDU is equipped with an adjustable, two-position bracket for detection operation in the down (horizontal) position or in the up position for a less visible profile from the outside. The MDU issues audible messages during power-on and self-testing. The MDU is also equipped with an alternate power button used to power the unit.

The MDU contains detection function sensors so proper mounting and orientation are important.

Remote Display Unit (RDU)

The RDU is a wireless remote controller/display module that shows alerts detected by the MDU. The RDU display uses an Extreme Bright DataGrafix™ (Organic Light Emitting Diode) Display to show large graphical alerts as signals are detected.

The RDU uses a rechargeable lithium-ion (LiON) battery and is supplied with a holster and clips for mounting on heating/air conditioner vents or sun visor. 12V to 5V USB Power Adaptor with cigarette lighter plug and USB to Mini-USB Retractable Cable are supplied. The RDU can be charged in the vehicle using these two components or by plugging the USB to Mini-USB Retractable Cable to the USB port of your personal computer.

The normal Auto Dark screen is almost completely dark with only a moving dot. The Auto Dark screen provides discreet usage and helps conserve RDU battery life. The display color can be changed to match most dash illumination.

Global Positioning System Locator (GPSL) -(XRS R9G Only)

The GPSL module tracks vehicle location. It uses a database that provides alerts as you approach photo-enforced intersections and roads with fixed red light/speed cameras.

Use the GPSL functions to program alerts and store up to 1.000 user programmable Location Alerts. Software will be available to update the database and stay current with future photo enforced locations. The GPSL module has no external controls and connects to the MDU with one cable.

Registering Your Detector

To register your Cobra XRS R7 or XRS R9G go to www.cobra.com. Click on the Product Registration tab.



Mount Unit

Main Detector Unit (MDU)

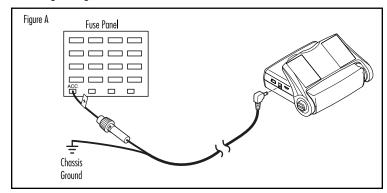


Note: To power the MDU, use one of the two power cords provided (See Page A3).

- 12V Power Cord with In-line Fuse for Hardwired Installation: For connection to vehicle's fuse box or battery, or
- 12V Power Cord with In-line Fuse and Cigarette Lighter Plug: For connection to 12-volt vehicle accessory outlet (cigarette lighter plug).

Fuse box hard wiring is recommended. Use this configuration to provide a more discreet installation. If you are unsure about making this connection yourself, contact a professional installer. Cobra does not warrant any damages to the product or vehicle that may occur as a result of improper installation.

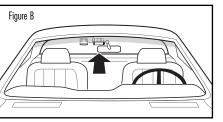
On a negative grounded vehicle:

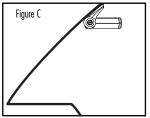


- 1. Connect the positive wire [marked with a tag (+)] of the DC power cord to an accessory 12V fuse that is controlled by the ignition switch (Figure A).
- 2. Connect negative wire (-) to a chassis ground location (Figure A). Body paint may need to be removed to assure a good ground connection.



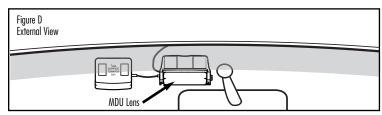
Installation Overview





Mount the MDU high on windshield to right of rear view mirror (Figure B). The MDU must have a clear view through the windshield, be parallel to the road (Figure C) and have clearance to snap into the "up" position.

Position the MDU for easy access to power switch, cable connections and for mirror movement. Mount the MDU on the windshield close to the headliner. (See page 7 for details.)



IMPORTANT: Do not block the MDU lens with the sun-shaded area of the windshield (Figure D).

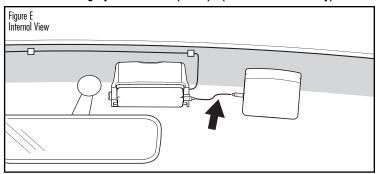
Heated windshields currently available on some vehicles (Instaclear for Ford, Electriclear for GM), may block or weaken incoming signals. Consult your automobile manufacturer.



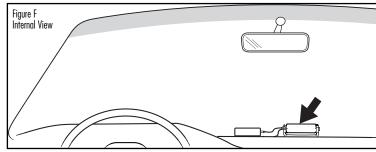
Installation Overview

Installation

Global Positioning System Locator (GPSL) - (XRS R9G Model Only)



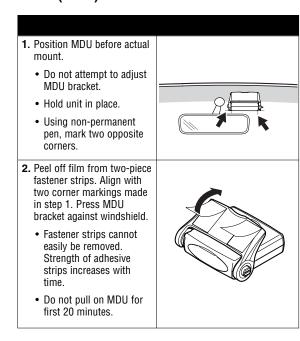
Mount GPSL module close enough to the MDU for supplied cable to connect both modules (Figure E). Mount GPSL with proper side ("This Surface Toward Sky" wording embossed in unit case) attached to windshield and exposed to the sky.



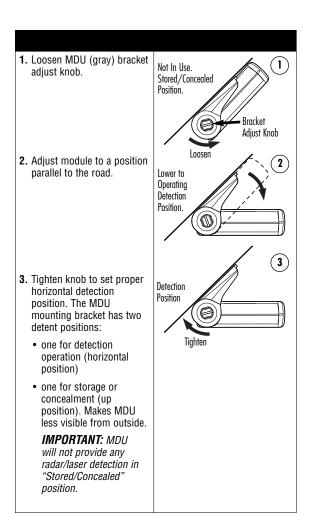
IMPORTANT: Some States and municipalities prohibit mounting any object on the windshield. If you drive in these states or areas, mount the MDU on the dash (Figure F).

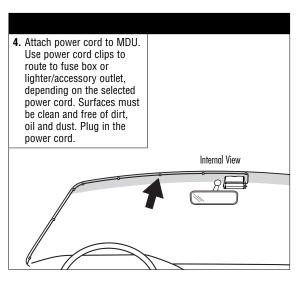
IMPORTANT: The MDU will need to be flipped upside-down compared to a windshield installation. Pay special attention to mount the GPSL unit with proper side ("This Surface Toward Sky" wording embossed in unit case) towards the sky.

Main Detector Unit (MDU)







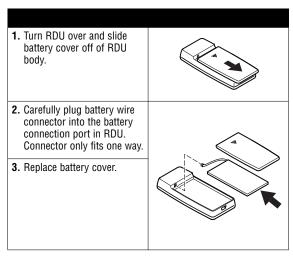




Installation

Remote Display Unit (RDU)

Battery Installation

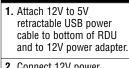


Battery Charging

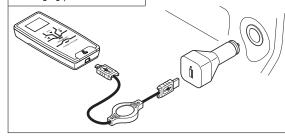
The unit is shipped with a sealed lithium-ion (LiON) battery pack that is rechargeable.

IMPORTANT: Avoid temperature extremes (hot and/or cold) to help prolong battery life and performance. DO NOT leave RDU exposed to direct sunlight. If the RDU is mounted on vent, clip must be on lower fin to avoid hot air blowing on RDU battery compartment.

NOTE: When battery begins to discharge too quickly, it is time to install a new battery.



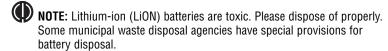
- 2. Connect 12V power adapter to vehicle accessory outlet (cigarette lighter plug).
- 3. Initial charge for battery is two (2) hours. (RDÙ may be used while charging.)





WARNING

This lithium-ion (LiON) battery should only be recharged inside the RDU. Do not substitute any other type of charging adapter or charging base to charge the battery. Battery damage, fire or explosion may result.

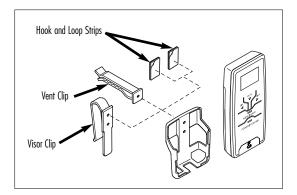


NOTE: After battery is fully charged, unit can be operated without retractable power cord until battery needs recharging.



RDU Holster

A holster is provided to allow you to position the RDU for best driver visibility and access while charging the battery. A vent or visor clip will attach to the rear of the holster. Self-adhesive hook and loop strips are also included for alternative mounting locations.





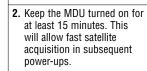
Global Positioning System Locator (GPSL) (XRS Model R9G Only)

1. Position GPSL before actual mount.	
 Hold GPSL unit in place with USB cable connected to MDU. 	
 Using non-permanent pen, mark two opposite corners. 	
2. Peel off film from two-piece fastener strips. Align with two corner markings made in step 1. Press GPSL bracket against windshield.	
 Fastener strips cannot easily be removed. Strength of adhesive strips increases with time. 	
Do not pull on GPSL for first 20 minutes.	
3. Connect cable between MDU and GPSL.	
IMPORTANT: Proper side of GPSL module ("This Surface Toward Sky" wording embossed in unit case) must be against windshield and face sky.	

GPSL Initial Satellite Lock

The GPSL module now needs to detect the Global Positioning satellites.

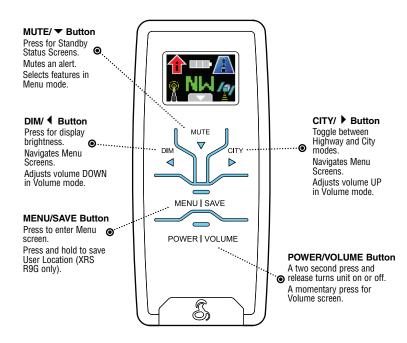
1. With vehicle running and parked in an area clear of obstructions to the sky, turn on the power to the MDU with GPSL connected.





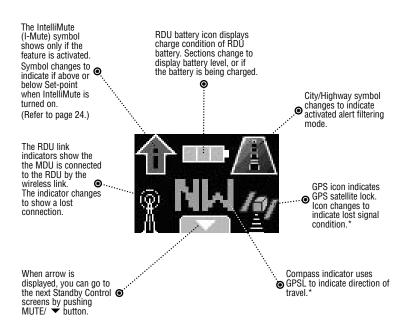
IMPORTANT: This procedure may need to be repeated if the unit has not been used for a prolonged period of time.

RDU Controls



RDU Display

Standby Screen



*Note: The GPS icon, Compass and other GPS features only display if GPSL module is connected (optional for XRS R7, standard on XRS R9G).

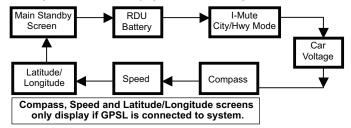
Power On/Off

Press power button on RDU.	
Unit cycles through power on/self test. Displays Standby screen when process completed.	
3. Display changes to Auto Dark operating screen after 30 seconds (factory default).	
4. Press, hold power button on RDU for more than two seconds to turn off unit.	
Important If, for any reason, the RDU buttons stop responding, open the battery compartment and press the Reset Button.	Lift battery and press here

Standby Screens

Press Mute/▼ while the Standby screen is displayed to cycle through different Standby screens.

The Standby screens will be displayed in the following order:





NOTE: Last Standby screen viewed will be displayed when exiting Auto Dark mode.

Main Standby Screen



Standby screen displays information about detector: alert filtering, automatic muting functions and RDU battery status. If GPSL is connected, compass heading and GPS status icon also display.

RDU Battery



RDU Battery screen displays status of RDU battery. Indicates charge left in battery or if it is plugged into power source and is charging.

I-Mute/City or Hwy Mode



I-Mute screen displays status of alert filtering (City or Highway modes) and automatic muting (IntelliMute) functions. Refer to related sections to set these features.

Car Voltage



Car Voltage screen displays voltage level of car battery. If battery voltage drops below 11.9 volts, an alert sounds. Low Car Voltage feature in Alert Settings programming must be activated.



Screens display only if GPSL is connected.

Compass



Indicates driving direction.

Speed



Shows speed of vehicle (may be changed to km/h in Menu).

Lat/Lon



Displays latitude and longitude of present location.

Getting Started

Auto Dark



When Auto Dark screen is engaged, a small dot displays at bottom of screen to show that power is on. Touch any button to recall Standby screen.

Highway/City Mode

IntelliShield® Tri-level City mode has a Highway mode and three City mode levels: City X. City X Beep Off and City X+K.



IntelliShield® Tri-Level City Mode

Toggle from Highway to City mode for three levels of Audio Alert suppression. Pressing City button will toggle between Highway and the default City mode which is City X. Default City mode can be changed within the Menu. Factory setting is City X.



City X sounds a single beep when X band signal is first detected but then subsequent audio alert is muted. The alert sounds again when signal strength reaches level 3.

City X+K combines City X mode with delay of K band audio alerts until signal strength reaches level 2.

City X Beep Off blocks all X band audio alerts until signal strength reaches level 3.

Muting Alerts

Manual Mute

condition. Press MUTE/ → button again during alert to turn on Audio Alert. After current alert is gone, detector will un-mute and next alert sounds.



EasySet Programming

Programming Overview



Begin all programming or setup with MENU/SAVE button. Select this to change USER or ALERT settings. USER settings customize how system handles alert filtering. audio-related options, visual options and system-related options. ALERT settings determine which ALERT types are activated. ALERT settings on the XRS R9G model include GPS-related features.



Press MENU/SAVE button again to save feature and function changes and return to Standby screen. If a button is not pressed within 15 seconds while in Setup/Programming mode, Standby screen displays and settings made up to this point are saved automatically.



NOTE: You can restore factory settings at any time.

Enter USER or ALERT settings sub-menu and display shows left arrow ◀, down arrow ▼ and right arrow ▶. Arrows correspond with arrows on DIM, MUTE and CITY buttons on RDU.

right arrow to access next screen. Press down arrow ▼ to make changes. Press MENU/SAVE button to exit. setup program and save new settings.

Each of these functions and settings are explained in **SETTINGS** section of this manual.



NOTE: Advancing at the end of menu returns to beginning of menu.

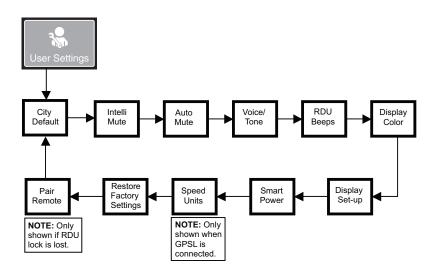


NOTE: Setup/Programming mode cannot be accessed during an alert. Unit does not detect signals while in Setup/Programming mode.

Program Flow Diagrams

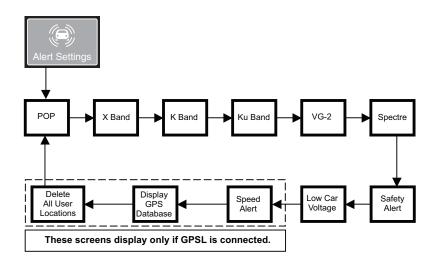
User Settings Diagram

Screens display in the following order when cycling through User Settings menu. Speed Units screen displays only if GPSL is connected to system. Pair RDU screen displays only if system detects a missing RDU connection.



Alert Settings Diagram

Screens display in the following order when cycling through Alert Settings menu. Speed Alert, Display GPS Database Version and Delete ALL User Locations screens display only if a GPSL is connected to system.



Settings

Programming User Settings





IntelliMute® Mode

Set IntelliMute to mute alerts when vehicle is stopped or moving slowly. Intellimute senses engine RPMs and mutes alerts. IntelliMute does not mute strobe signals from emergency vehicles. IntelliMute works with City and Auto Mute modes.

Set an RPM activation point to start IntelliMute. IntelliMute begins muting alerts when engine RPMs fall below set RPMs. The activation point is stored in memory and recalled each time the power is turned on. IntelliMute is factory set off.

An IntelliMute icon appears in display when IntelliMute is on and activation is set. When engine RPMs fall below the activation point, Arrow points down. Arrow points up when engine RPMs are above the activation point. If unit stops sensing the engine's RPMs, IntelliMute indicates an error and automatically turns off.

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



NOTE: Reset RPM point if detector is used in a different vehicle. IntelliMute may not work with some vehicles because it cannot sense the engine's RPMs. Reduce unwanted audio alerts by using Auto Mute IntelliShield® Tri-level and City Mode.



WARNING

DO NOT attempt to set the RPM point while driving. Your vehicle should be parked and idling to avoid a collision during the process.

Setting IntelliMute

From the IntelliMute Setup screen:

- 1. Press MUTE/ button to start setup.
- 2. Press and hold the vehicle accelerator at desired engine RPMs.
- 3. Press MUTE/ → button to complete setting process.

System stores engine RPM setting and displays a completion message and a tone or voice message. Unit must sense a usable pulse within three seconds or a set RPM point within 30 seconds of beginning of setup, or IntelliMute detects an error and turns off.

Change a set activation point by accessing Set IntelliMute in User Settings Programming, Repeat three-step setup process above.

Auto Mute Mode

When **Auto Mute** is on, it automatically reduces the audio volume of all alerts after they have sounded for four seconds. The signals will remain muted for as long as the signal is detected. When Auto Mute is off, the alerts will sound at full volume for as long as the signal is detected. The factory setting for Mute.

Voice or Tone Mode

Set detector to sound alerts and confirm program settings with a Voice or a Tone. Voice Alert provides voice messages in addition to tones. Tone Alert provides tones only. Factory setting is Voice Alert.

Remote Display Unit (RDU) Beep Level

RDU Beep sets the volume level for the keypad confirmation tones of the RDU. Choose from low, high or off RDU beep level volumes.

RDU Display Color

The RDU screen color theme is customizable to match your personal preference or your vehicle's dash illumination. Choices include Multi-Color, Red. Blue. Orange or Green. Factory setting is Multi-Color.

Settings

Display Setup

Display Setup determines how long RDU button backlight and display stays on before RDU screen switches to Auto Dark mode. Set RDU display time for 15 seconds, 30 seconds, one minute, three minutes or Always On. Factory default is 30 seconds.

NOTE: If selecting "Always On" setting, RDU battery will need charging more frequently.

Smart Power Mode

SmartPower feature turns system off five minutes after car's engine is turned off. Before SmartPower engages, three beeps sound and SmartPower flashes on display. Start the car or press Power/Pairing button to return to normal power. Factory setting is SmartPower OFF.

Speed Indicator (Shown only if GPSL is connected)

Displays vehicle speed in miles per hour (MPH) or kilometers per hour (km/h). Factory setting is MPH.

Restore Factory Settings

Restore detector to original settings here. Confirmation messages display during process.



Programming Alert Settings

POP Alert

With Pop Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is Pop Detect Off.

X Band Alert

With X Band Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is X Band Detection On.

K Band Alert

With K Band Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is K Band Detect

Ku Band Alert

With Ku Band Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is Ku Band Detect

VG-2 Alert

Detector is undetectable by VG-2 detection devices. An alert is given when such a device is in use near the vehicle. When VG-2 Detect mode is On, VG-2 signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is VG-2 Detect Off.

VG-2 Audio Mode

When VG-2 Audio mode is On, alerts are heard and displayed. This setting is only available if VG-2 Alert is On. Factory setting is VG-2 Audio Off.

Spectre 1 Alert

Detector is undetectable by Spectre 1 detection devices. An alert is given when such a device is in use near the vehicle. When Spectre 1 Detect mode is On. Spectre 1 signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is Spectre 1 Detect Off.





Spectre 1 Audio Mode

When **Spectre 1 Audio** mode is on, alerts will be sounded as well as being displayed on the screen. This setting is only available if Spectre 1 Alert is on. The factory setting is Spectre 1 Audio off.

Safety Alert

When Safety Alert mode is On, Safety Alert radar signals are detected and an alert is given. During alert unit continues to detect other signals. Factory setting is Safety Alert On.

Low Car Voltage Warning

Many U.S. cars have continuous power to 12V outlet and if a device is connected/kept on, it will drain vehicle's battery. To avoid this, XRS R7/R9G comes with SmartPower and Low Car Voltage Warning features.

The detector emits a car battery low alert when voltage drops below 11.2 volts. The detector enters SmartPower mode to avoid further battery draining. Factory setting is Car Battery Low OFF.

The following functions are available only if a Global Positioning System Locator is connected to the system.

Speed Alert

The Speed Alert with the GPSL module tracks vehicle speed and sounds an alert when set speed is exceeded. Speed settings increase or decrease in 5 MPH or km/h increments, depending upon Speed Units chosen in User Settings. Speed Alert must be turned on to see Adjust Speed Setting screen. Factory setting is Off.

Display GPS Database Date

The GPS database screen is only informational. The screen changes only when you have updated the database.

Delete all User Locations

Delete all user-programmed location alerts with this screen.



Detection Alerts

Alert Screens

All alerts have a unique tone and a vocal alert if the Voice Alert feature is activated.

Radar Alerts









Radar alerts for X band, Ku band, K band and Ka band generate a screen display "RADAR," signal type and a number (1-5) indicating the signal strength. A unique tone sounds with a vocal alert if the Voice Alert feature is activated.



POP, VG2 or SP1 display depending on signal type detected.

Laser Alerts



Laser alerts are indicated by an "L" and laser signal type.



Detection Alerts

Detection Alerts

Emergency Vehicle Alerts



Emergency vehicle alerts are indicated by "EV" and the label "EMÉRGENCY."



Road Hazard Alerts

Road Hazard alerts show "RH" and "ROAD HAZARD."



Railroad Alerts

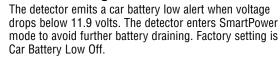
Railroad alerts generate "RR" and "RAILROAD."



CAR VOLTAGE

LOW

Low Car Voltage Alert





The following screens are shown only if a Global Positioning System Locator (GPSL) is connected to the system.

A detector system with a GPSL also receives alerts based on vehicle location and information in its databases.



Photo Enforcement Alerts

An alert to a Photo Enforcement area is indicated by a camera surrounded by a circle. As you get closer to the location, the circle and the camera get progressively larger and you hear a unique chime. If the Voice Alert is activated vou will also hear a voice alert.

In Multi-Color theme the circles change from green, to vellow, to red.

User Location Alerts



The system can store up to 1.000 User Programmable Location Alerts set to give hazard warnings not known to the GPSL. The screen displays a flag surrounded by a circle. When approaching a stored location, the circle and flag get progressively larger. In addition, a unique tone sounds as vehicle approaches location. A voice alert sounds if Voice Alert is activated. User Alerts can be saved by pressing and holding the MENU/SAVE button for 2 seconds, then select "Yes" to confirm.



NOTE: A particular User Location can be deleted only when the vehicle returns to that location and receives a User Location Alert. Press MENU/SAVE to delete that location. A confirmation screen displays with "Yes" and "No" selections. Press "Yes" to confirm User Location Deleted. Press "No" to cancel delete. All User Locations can be deleted within the menu.



Speed Alerts

Speed alerts are generated when the GPSL senses the vehicle is going faster than the speed setting programmed in the Alert Setting menu. The display indicates actual vehicle speed and a tone sounds. All radar, laser, strobe and safety alerts have priority and override this alert. Factory default is Off Nothing Comes Close to a Cobra® 31

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:

10.525 GHz X band 24.150 GHz K band

Ka band 33.400 - 36.000 GHz

13,435 GHz Ku band

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 alerts you when a device is in use near your vehicle.

Safety Alert Traffic Warning System SAFET ALERT

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, train or a stationary road hazard.

Because these microwave signals are within the K band frequency, most conventional radar detectors 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, watch for emergency vehicles ahead of you, on cross streets or behind you. If you see an emergency vehicle approaching, 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 are already in use in more than 1000 cities nationwide. Cobra's exclusive Strobe Alert detector detects these special strobes and sounds an emergency vehicle alert.

When you receive such an alert, watch for an approaching emergency vehicle and pull over to allow it to pass. Contact your local fire and police departments for information about coverage in your area.

LIDAR (Laser)

The correct name for the technology that most people refer to as "laser" is actually LIDAR, 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 or tree branches 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 reduce the effective range of LIDAR and can, with dense conditions, 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 Ka (Bee III Ka radar gun) band Instant-On radar gun. It uses a single, shorttime pulse to measure the target vehicle's speed.

The Pop mode receiver senses Pop signals 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. As such, factory default is set to OFF.

Maintenance

Detector is designed and built to give years of trouble-free performance without service. No routine maintenance is required.

Follow these steps if unit is not operating properly:

- Make sure power cord is properly connected.
- Make sure lighter/accessory outlet of vehicle is clean and free of corrosion.
- Make sure power cord's accessory adapter is firmly seated in lighter/accessory outlet.
- Check power cord fuse (unscrew ribbed end cap of accessory adapter and examine fuse) or in-line fuse of cable to fuse box, depending on cord used. If required, replace with 2-amp fuse only.



NOTE: Rechargeable battery packs should be recycled or disposed of properly in compliance with all applicable laws. Certain states or municipalities provide recycling and have established collection programs. Please contact your local waste removal authority for instructions.



WARNING

Do Not put battery packs into fire or expose to high heat. They may explode.



To reduce risk of damage, use only approved battery packs.

Warranty

Band and Frequencies

Band	Frequenci	Frequencies		
X Band	10.525	± 0.050	GHz	
K Band	24.125	± 0.125	GHz	
Safety Alert	24.070	± 0.010	GHz	
Traffic Warning Svstem	24.110	± 0.010	GHz	
Cystom	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	

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.

NOTE: This device complies with part 15 of FCC rules: Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received including interference that may cause undesired operation.

Warranty

COBRA ELECTRONICS CORPORATION warrants that its products, and the component parts thereof, will be free of defects in workmanship and materials for a term 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 used solely within the U.S.A and Canada.

Cobra will, without charge, repair or replace, at its option, defective 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. The consumer must pay any initial shipping charges required to ship the product for warranty service. Return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

This warranty gives the consumer specific rights, and he or she may also have other rights which vary from state to state.



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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 and Canada.

the above limitations may not apply to some consumers.

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Product Service

Product Service

For questions about operating or installing this new Cobra product, or if parts are missing...CALL COBRA FIRST...do not return this product to the store.

If this product should require factory service, call Cobra before sending the product. This will ensure the fastest turn-around 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. For Warranty Repair, include some form of proof-of-purchase, such as a mechanical reproduction or carbon of a sales receipt. Make sure the date of purchase and product model number is clearly readable. If the originals are sent, they cannot be returned.
- 2. Send the entire product except for hardwired or permanently placed components such as 12V hardwire power cord and cord clips.
- **3.** Enclose a description of what is happening with the product. Include a typed or clearly printed name and address of where the product is to be returned, with phone number (required for shipment).
- **4.** Pack product securely to prevent damage in transit. If possible, use the original packing material.
- 5. Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or Priority Mail to avoid loss in transit to:

Cobra Factory Service Cobra Electronics Corporation 6500 West Cortland Street Chicago, Illinois 60707 U.S.A.

6. If the product is in warranty, upon receipt of the product, it will either be repaired or exchanged depending on the model. Please allow approximately 3-4 weeks before contacting Cobra for status. If the product is out of warranty, a letter will automatically be sent with information as to the repair charge or replacement charge.

For any questions, please call 773-889-3087 for assistance.

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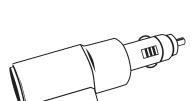
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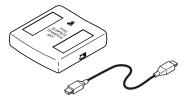
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Dual Port Power Adapter

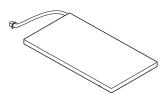
Includes adjustable plug (up to 90°) and fuse

Item #CLP-2B



GPS Locator (w/cable) Upgrade Kit (for Model XRS R7 Only)

Item #RDA GPSL



LiON Replacement Battery Pack

Item #RDA LIBP



Replacement RDU

Item #RDA RDU