



How to Use Your Cobra ESD Radar/Laser Detector

Contents

Introduction.....A1

Safety Alert®/Strobe Alert™

Federal Law Governing Radar Detectors

Included Accessories

Controls & Indicators.....A2

Our Thanks to You.....A3

Customer SupportA3

Features.....1

Installation.....2

Quick Start.....5

Digital Displays.....6

Operation.....9

Turning On.....9

Dim Button.....10

Highway/City Mode.....12

Muting Mode.....13

Calibrate the Compass.....15

Tone/Voice Alert16

Memory Set.....17

Aux. Audio Jack.....17

Detection.....18

Band Detection.....18

Audible Alarm Indicator.....18

Radar.....18

VG-2 Undetectable.....19

Safety Alert®/Strobe Alert™.....20

Laser Detection.....21

Radar/VG-2/Laser Alerts.....21

Facts About Safety Alert®/Strobe Alert™.....22

Radar Frequencies.....23

Facts About Lidar (Laser).....23

Maintenance.....24

Specifications.....25

Limited One Year Warranty26

Optional Accessories.....27

Order Form.....28

If You Think You Need Service.....Back Cover

Features of This Product

- 8-point Digital Compass
- Alpha/Numeric Dot Matrix Text Readout
- Safety Alert® Traffic Warning System
- Strobe Alert™
- Tone Alert
- Voice Alert
- Separate Visual and Audio Alarms
- Laser Eye 360° Detection
- VG-2 Undetectable
- Auto and Manual Muting
- 4 Level Dim Button
- Audio Jack
- Superior Audio Volume
- Adjustable Windshield Mounting Bracket

Installation

Location

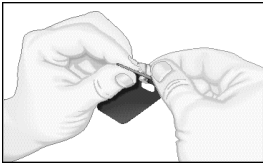
Location

Selecting the proper location to mount the Cobra ESD-9850 is very important for optimum performance. Both radar and laser transmissions pass through glass but not through other objects. For this reason the Cobra ESD-9850 lenses must not be blocked. The Laser Eye should have a view of the rear window to take advantage of its 360° detection capability. It is best to locate your detector as low on the front windshield as possible.

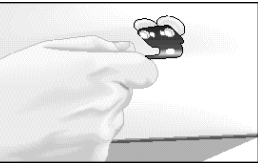
Examples of metal in the windshield area that can block or weaken incoming radar/laser signals:

- 1. Windshield wiper blades.
- 2. Mirrored sun screens.
- 3. Regular tinted glass does not affect radar reception, although the darker tint at the top of the tinted windshield prevents laser light from penetrating.
- 4. Heated windshields, currently available as an option for some Ford® (Instaclear) and GM® (Electriclear vehicles act as an impenetrable barrier to radar signals). If in doubt, check with your dealer to see if this applies to your vehicle.

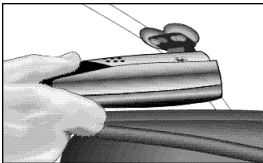
Windshield Mounting



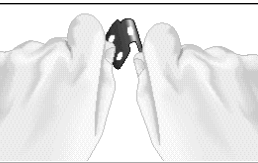
1 Attach cups to bracket.



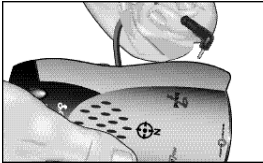
2 Attach bracket to windshield.



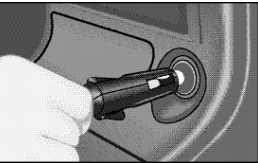
3 Attach detector to bracket.



4 Bend bracket for correct detection angle (if needed). Do not use the ESD-9850 to bend bracket.



5 Plug power cord into detector.



6 Plug power cord into cigarette lighter.

Windshield Mounting

Installation

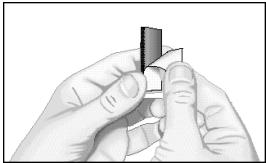
Quick Start

Dash Mounting

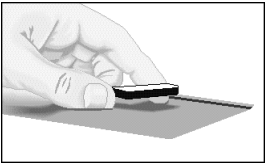
Note
It will be easy for you to remove and reinstall your Cobra ESD-9850 detector at any time using this hook and loop material on the dashboard.

Remember: Without the means to adjust the angle of the detector (when mounted as above), be sure you that your Cobra ESD-9850 has a level, clear view of the road before you attach the hook and loop material.

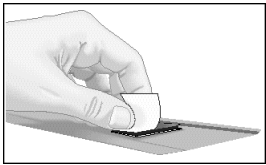
Dash Mounting



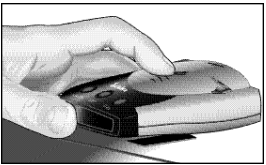
1 Peel protective paper off one side of hook and loop material.



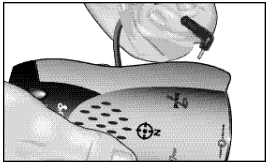
2 Place on dash.



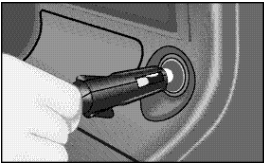
3 Peel top paper off.



4 Place detector on hook and loop pad.

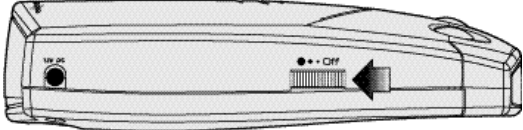


5 Plug power cord into detector.



6 Plug power cord into cigarette lighter.

Turn On and Adjust Volume



1 Rotate ON-OFF Volume Control to left (away from you). The unit will perform a self-test and the following message will appear: "...Testing...System Ready."

In both Tone and Voice Alert modes, the message "Testing...[beep, beep, beep]...System Ready" will be heard when the unit is turned on.

Turn On and Adjust Volume

Note
For your convenience Display Dim, City/Highway, and Muting mode settings are retained in memory even when the power is unplugged.

Quick Start

Set Display Brightness

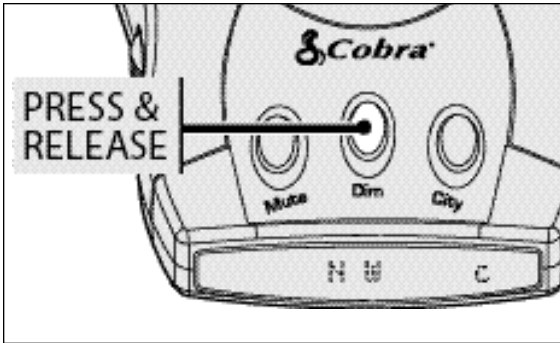
LED Displays

Note
A four position Dim mode is provided for dusk or night driving (please see Dim Button, page 10 for details).

For more detailed operation instructions on display brightness, see page 10.

Set Display Brightness

Select from four levels of LED brightness for your Cobra ESD-9850 display: Bright, Dim, Dimmer and Dark. The ESD-9850's state-of-the-art readout presents clear alerts even in sunlight.



- 1 Press and release  Dim button once to select normal setting.
- Press and release  Dim button a second time to select Dim setting.
- Press and release  Dim button a third time to select Dimmer setting.
- Press and release  Dim button again to select Dark setting.

Quick Start

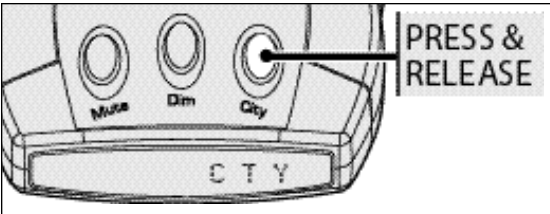
Set Highway/City Mode

Note
The ESD-9850 will retain the chosen mode while OFF.

Set Highway/City Mode

City Mode

For urban driving—reduces number of X-Band audible alerts.



- 1 Press and release  City button. CTY will display while in City mode and remain on for 2 seconds.



CTY will be replaced by a small lower case c.

Highway Mode

Press and release  City button again. HWY will be displayed for 2 seconds followed by h. A double beep confirms highway mode.

For more detailed operation instructions on set highway/city mode, see page 12.

Quick Start

Operation

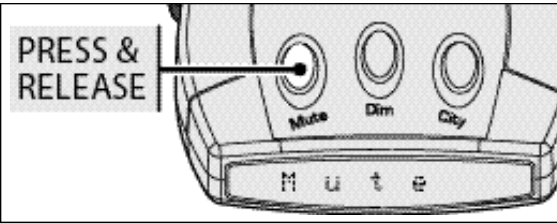
Set Muting Mode

Set Muting Mode Signal

Reduces signal alert volume.

Auto Muting

1 Press and release  Mute button when no signal is being received. This will immediately reduce volume of alerts.



Manual Muting

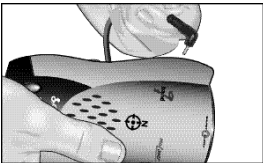
1 Press and release  Mute button to reduce volume while signal is in progress. MUTE will appear in the display.

To Switch Between Modes

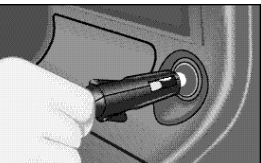
1 Press and release  Mute Button when no signal is being received.

For more detailed operation instructions on setting muting mode, see page 13.

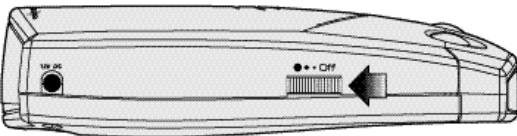
Turning On Your ESD-9850



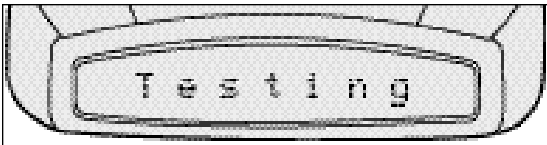
1 Plug power cord into detector.



2 Plug power cord into cigarette lighter.



3 Rotate ON-OFF Volume Control to the left (away from you).



The message "Testing...System Ready" will be displayed, along with 3 beeps. The Compass directions will then be displayed.

In Voice Alert, the message "Testing...System Ready" will be heard.

Turning On Your ESD-9850

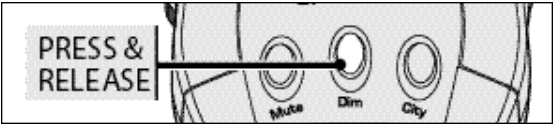
Operation

Dim Button

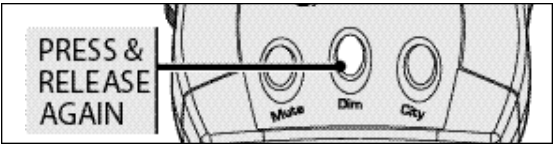
Note
Bright = "Beep-Beep"
Dim = "Beep"
Dimmer = "Beep"
Dark = "Beep"

Note
The ESD-9850 will retain
the chosen brightness level
while OFF.

Dim Button
You may select from four levels of brightness for your Cobra ESD-9850 display: Bright, Dim, Dimmer and Dark (Off).



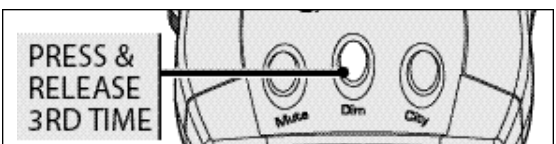
1 Press and release  Dim button once to reduce brightness to Dim. A single beep confirms this selection.



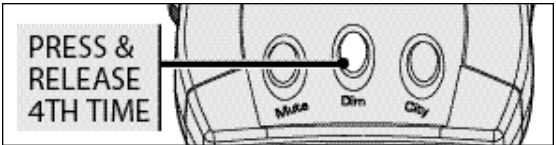
2 Press and release  Dim button twice to reduce the display brightness to Dimmer. A single beep confirms dim led brightness.

In Voice Alert, the message "Bright, Dim, Dimmer, or Dark" will also be heard.

Operation



3 Press and release  Dim button a third time to reduce display to dark (Off). A single beep confirms this selection. The power light will remain on.



4 Press and release  Dim button a fourth time to return display to Bright. A double beep confirms this selection.

Note
City = "Beep"
Highway = "Beep-Beep"

Note
The ESD-9850 will retain
the chosen mode while
OFF.

Operation

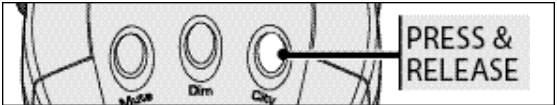
Highway/City Mode

Note
Use City Mode in or near cities where there are many sources of false radar signals such as microwave relay towers and automatic door openers. This will filter out weak signals.

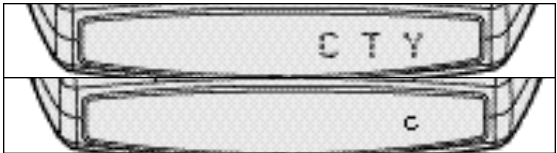
Note
The unit will announce "Highway" or "City" in Voice Mode.

Highway/City Mode

To select City Mode:
The Highway/City function is controlled by a 2-step button.

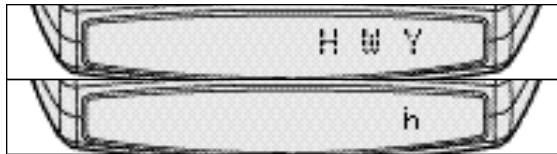


1 Press and release  City button and CTY will be displayed for 2 seconds followed by c. A single beep confirms City mode.



Highway/City Mode

To select Highway Mode:
Press and release  City button. HWY will be displayed for 2 seconds followed by h.



Operation

Muting

Note
To completely turn off incoming alerts while in auto mode, press and release mute button.

Note
In either mode the next alarm will begin with normal volume. The ESD-9850 will retain the chosen mode while **OFF**.

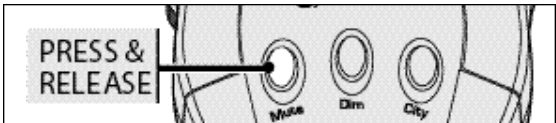
Note
Mute="Beep"
OR
Auto Mute="Beep-Beep"

Audio Muting

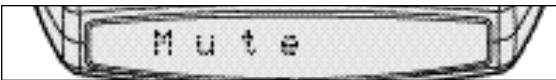
The mute button is used to temporarily turn off the alarm and turn Auto Mute mode off and on.

Manual Muting of the Audio

Use this operation to turn off the audio alarm at any time.



1 Press and release  Mute button to turn off the audio for any alert. Mute will be displayed. The alarm will be turned off until the signal is over, with audio set at previous volume level for next signal.



In Voice Alert, the message "Mute" will be heard.

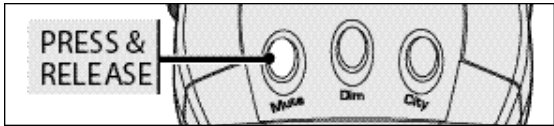
◆ Continued

Operation

Muting

Selecting Auto Muting Mode

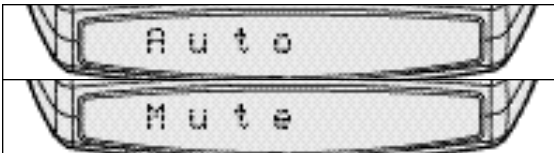
In Auto Mute mode the alerts will be heard at the volume set for 3 seconds, then automatically be reduced to a lower level.



- 1 Press and release  Mute button when no signal is being received.

Auto Mute will appear in display for 2 seconds, then disappear. All future alarms will be Auto Mute.

In Voice Alert, the message "AutoMute" will be heard.



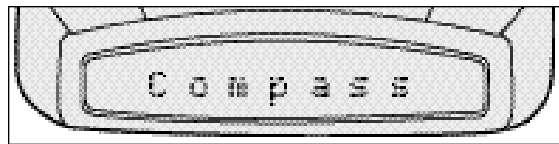
Selecting Manual Muting Mode

In Manual Mute mode the alerts will always be heard at the set volume level.

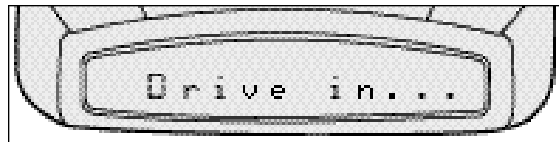
- 1 Press and release  Mute Button when no signal is being received. Mute will appear on the display for 2 seconds, then disappear.

Calibrate Compass

The compass in your ESD-9850 must be calibrated before you use it to give accurate directions. Calibration allows the compass electronics to measure and store information about the magnetic fields from your vehicle.



- 1 Press  City button for a minimum of 2 seconds. Compass is displayed.



The message "Drive in 2 circles... Press City when done" will then be displayed.

- 2 Drive your car in a circle twice and then press  City. Your compass will be set. The display provides 8 primary directions; N, NE, E, SE, S, SW, W and NW.

Calibrate Compass

Note

Pushing City button for more than 2 seconds produces a single beep confirmation tone.

Note

If you decide to re-locate your ESD-9850 to a different location in your vehicle or move it to another vehicle, it is best to recalibrate the compass.

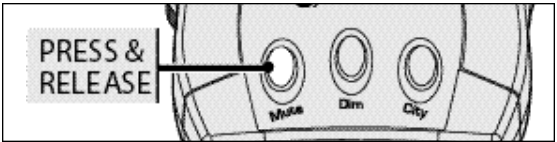
Note

Your compass may not give a correct reading if you are inside any enclosure, building or close to a large metal tractor trailer, truck or train. Your compass will work again correctly as soon as you get away from these locations. There is no need to calibrate your compass again.

Operation

Tone Alarm
And Voice
Alert

Voice/Tone Settings



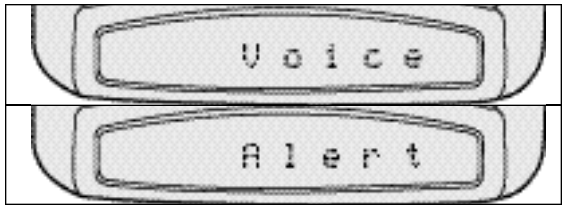
1 Press and hold  MUTE button for two seconds to change between Voice and Tone Alarms. In Tone Setting, **Tone** will be displayed and a beep will be heard.



Voice Alert

The Voice Alert message will stay on for 2 seconds.

In Voice Alert setting, the message "Voice Alert" will be heard.



Operation

Memory Set

Auxiliary
Audio Jack

Memory Set

This product features an automatic, internal electronic memory system. It will automatically "remember" your settings when the unit is turned off or removed from the power source up to 7 days.

Auxiliary Audio Jack

Use to connect an external speaker to your Cobra ESD-9850 in environments with high ambient noise levels. The internal speaker will be disconnected.

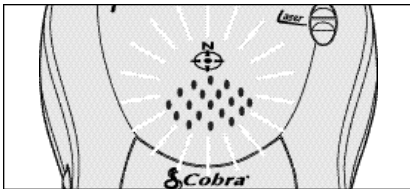
Detection

Band Detection

Band Detection
This detector is designed to detect X, K, Superwide Ka Band Radar, Laser (including LTI 20-20*,Ultra Lyte* and ProLaser* technologies), VG-2, Safety Alert and Strobe Alert* signals.
**360° Detection*

Audible Alarm Speaker and Voice Alert

Audible Alarm Speaker
A different alert tone will sound for X,K, Ka,Laser (a distinctly different tone for each of the three laser signals: LTI 20-20,UltraLyte and ProLaser), VG-2,and Safety and Strobe Alert signals.



Instant-On Detection
The Cobra ESD-9850 is also designed to detect Instant-on speed monitoring signals. **Immediate action is required when warning is given.**

Detection

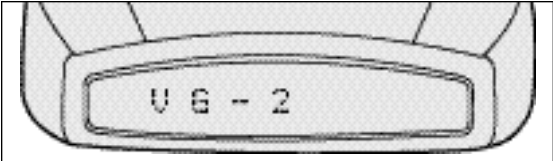
X, K, Ka Alert

X,K and Ka Bands
The display will show the band received (X,K/Ka). The signal strength will be indicated by a bar graph which increases in size as you approach the radar gun. Distinct tones will also be generated for each band.

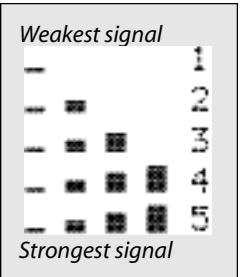


In Voice Alert, the message "Be careful—X alert" will be announced according to the band given, followed by tones until the alert is over.

VG-2 Undetectable
The Cobra ESD-9850 is undetectable by police VG-2 detection devices. It will alert you when one is in use near your vehicle. During this time, the unit is still on full alert and able to detect other signals.



VG-2 on the front of the unit will be displayed.



VG-2 Alert

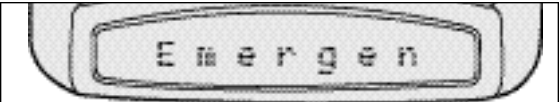
Note
The display does not indicate signal strength.

Detection

Safety Alert®
Traffic Warning
System and
Strobe Alert™

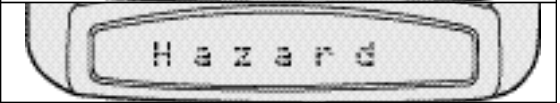
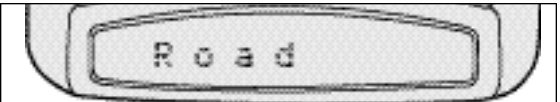
Safety Alert® Traffic Warning System and Strobe Alert™
Safety Alert® Traffic Warning System and Strobe Alert™ will alert you with the following warnings: Emergency Vehicle, Road Hazard and Train.

Strobe Alert™

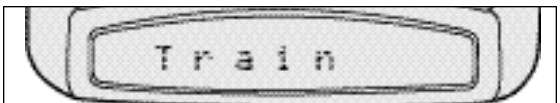


“Emergency Vehicle” will be displayed as scrolling message.

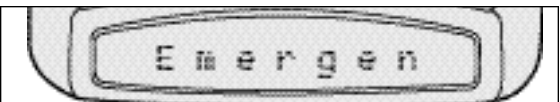
Safety Alert®



“Road Hazard” will be displayed.

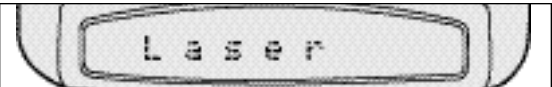


“Train” will be displayed.



“Emergency Vehicle” will be displayed as scrolling message.

Laser & Laser Eye 360° Detection



Laser will be displayed followed by a scrolling message of “UltraLyte”, “ProLaser” or “20/20” depending on signal received.

In Voice Alert, the message “Be careful—Laser alert” will be announced, followed by the UltraLyte, ProLaser, or 20/20 tone.

Radar/VG-2/Laser Alerts

Type of Audible Signal	Interpretation and Response
Your COBRA ESD-9850 starts to signal slowly, then increases in rate very rapidly.	Most likely police radar. FULL ALERT.
Your COBRA ESD-9850 signals just once.	Most likely a false source, or could be pulsed radar. Exercise Caution.
Very fast signal rate instantly.	Radar or VG-2 close by has been suddenly switched on. FULL ALERT.
Slow signal rate as you approach hill or bridge. Sharp increase in signal rate as you reach hill or bridge.	Most likely police radar on other side of hill or bridge. FULL ALERT.
Short-term, weak signaling; series of such signals.	Most likely a false radar source. Exercise Caution.
Laser will trigger 3 distinct audible signals; one each for LTI 20-20, Ultra Lyte and ProLaser.	Use Full Caution. There are no false laser signals.
Safety Alert and Strobe Alert have their own unique “European Emergency” signal.	An emergency vehicle is approaching, you are in the vicinity of a railroad crossing, or you are approaching a road hazard (construction site, accident scene, etc.).

Detection

Laser

Note
The display does not indicate signal strength.

Radar/VG-2/
Laser Alerts

Detection

Facts About
Safety Alert®
Traffic Warning
System

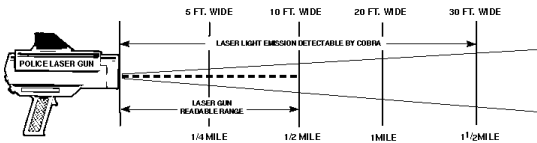
Facts About the Safety Alert® Traffic Warning System
FCC-approved Safety Alert Transmitters emit microwave radar signals to indicate the presence of a safety-related concern. Depending on the frequency of these signals, as set on the transmitter, the outgoing signal can indicate whether the transmitter is on a speeding emergency vehicle or train, or at a stationary road hazard location. These microwave signals are located in the K-band and as a result, any radar detector which detects K-band radar will detect these Safety signals as standard K-band radar alerts. However, unlike a standard radar detector, your Cobra ESD-9850 is designed to differentiate between a standard K-band alert and a Safety Alert warning. Safety technology is relatively new so the number of transmitters in operation is still growing. You may not receive Safety Alert on a daily basis and should not be surprised to encounter some emergency vehicles, road hazards or trains not yet equipped with these transmitters, therefore failing to provide a signal. As Safety Transmitters become more prevalent (the number of operating transmitters is growing every day), these Safety Alerts will become more common. The Safety Alert Transmitter is in use in all 50 states in limited quantities.

Note
Strobe Alert™ is available in over 1,000 cities and works with Tomar and Opticom systems. Call your local Fire/Police department for your area coverage or area in which you will be traveling.

Facts About Strobe Alert™
Alerts motorists to over 50,000 emergency vehicles equipped with strobe transmitters that activate red lights at traffic intersections in emergency high speed situations.

Radar Frequencies
There are now three frequencies that have been approved by the FCC (Federal Communications Commission) for use in speed monitoring equipment. They are:
X Band (10.525 GHz), K Band (24.150 GHz)
Ka Band (33.400-36.000 GHz)
Your Cobra ESD-9850 can detect signals in all three radar bands including photo radar and STALKER radar which use the Ka band, and Cobra's Safety Alert signals on the K band.

Facts About LIDAR (Laser)
What is LIDAR?
LIDAR stands for Light Detection And Ranging. While everyone refers to it as LASER the correct name is LIDAR.
How does LIDAR work?
LIDAR operates a lot like RADAR. Like RADAR, it spreads out. Not as quickly, but it does spread, as shown on the diagram below.



Detection

Radar
Frequencies

Facts About
LIDAR (Laser)

LIDARs must have a clear line of sight to target a vehicle during the entire measurement interval. Intervening objects such as signposts, utility poles, tree branches, etc., will prevent a valid speed reading.

Detection



Specifications

Facts About LIDAR (Laser)

Does weather have any effect on LIDAR?

Yes, rain, snow, smoke, fog, and airborne dust particles will all reduce the effective range, and if sufficiently dense, may prevent its operation.

Can LIDAR operate through glass?

No, LIDAR guns cannot obtain readings through any glass. But the laser pulse can be received through glass so easily and quickly trigger a laser detector's alarm.

Can LIDAR operate while moving?

No, since LIDAR is line of sight, an officer cannot drive, aim, and shoot while driving.

Is a LIDAR DETECTOR legal to use?

Yes, it is legal in all 50 states.

Maintenance

Maintenance

Your COBRA ESD-9850 RADAR/LASER DETECTOR will give you years of trouble-free service with minimum maintenance.

Replacing Power Cord Fuse

Unscrew cap of cigarette lighter adapter and remove fuse. Replace with 1-ampere fuse only.

Troubleshooting

If your COBRA LASER DETECTOR ESD-9850 isn't operating, we suggest you make the following checks:

1. Is the power cord properly connected?
2. Is the fuse OK?
3. Is the cigarette lighter socket clean and free from corrosion?

GENERAL SPECIFICATIONS

A. FREQUENCIES

1.	X BAND	10.520 GHz $\pm$ 50 MHz
2.	K BAND	24.125 GHz $\pm$ 100 MHz
3.	Ka BAND	34.700 GHz $\pm$ 1,300 GHz
4.	VG 2	11.575 GHz $\pm$ 0.250 GHz
5.	Safety Alert	24.07, 24.11, 24.19 GHz
6.	LTI 20 20 Laser	300 THz - 375 THz
7.	Strobe Alert	300 THz - 770 THz
8.	Ultra Lyte	300 THz - 375 THz
9.	ProLaser	300 THz - 375 THz

1 1/4" W x 1 3/8" H x 5" D

Specifications

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Limited One Year Warranty

Optional Accessories



Cobra Electronics Corporation
6500 West Cortland Street
Chicago, Illinois 60707
www.cobraelectronics.com

COBRA ELECTRONICS CORPORATION warrants that its COBRA 9 Band Radar/Laser Detectors, and the component parts thereof, will be free of defects in workmanship and materials for period of one (1) 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 9 Band Radar/Laser Detectors, products or component parts upon delivery to the COBRA factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

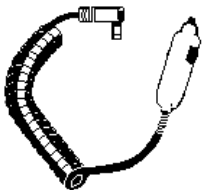
Exclusions: This limited warranty does not apply; 1) to any product damaged by accident; 2) in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs; 3) if the serial number has been altered, defaced or removed; 4) if the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. COBRA shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of 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.



Straight 12V DC Power Cord
Includes plug and fuse
420-080-N-001 \$10.00



Curled 12V DC Power Cord
Includes plug and fuse
420-080-N-002 \$10.00



Windshield Mounting Bracket
Includes suction cups
545-139-N-001 \$7.00

You Can Find These Fine Accessories At Your Local Cobra Dealer
If you wish, you can order directly from Cobra.

Order by phone
Call 1.773.889.3087 (Press 1 from the main menu)
8 a.m.-8 p.m. M-F CST.)

Order by mail or fax
Please fill out order form on next page, and mail/fax directly to Cobra.

Visit our website at:
www.cobraelectronics.com

Accessory Order Form

Item #	Description	Cost Ea.	Qty.	Amount
420-080-N-001	Straight 12V Power Cord	\$10.00		
420-080-N-002	Curled 12V Power Cord	\$10.00		
545-139-N-001	Windshield Mounting Bracket	\$7.00		

Prices subject to change without notice.	Subtotal	
Tax Table	(Tax if applicable)	
Illinois residents add 7%	Shipping/handling	\$4.00
Cook Co. residents add .75% (7.75% total)	Total	
Chicago residents add 1% (8.75% total)		
Indiana residents add 5%		
Michigan residents add 4 %		
Minnesota residents add 6%		
Ohio residents add 6%		
Wisconsin residents add 5%		

For credit card orders fill out order form and fax to: 1.773.622.2269 or call 1.773.889.3087 (Press 1 from the main menu) 8:00 am - 8:00 pm,M-F, CST.	Make check or money order (no stamps) payable to: Cobra Electronics 6500 West Cortland St. Chicago, IL 60707 Attn: Accessories Dept.
---	--

Please print clearly

Name _____

Address (No P.O. Box) _____

City _____ State _____

Zip _____

Telephone (____) _____

Credit Card No. _____ Exp. Date _____

Customer Signature _____

Circle One: Visa MasterCard Discover

Allow 4 to 6 weeks for delivery. Offer valid in Continental U.S.only.

© 2000 Cobra Electronics Corporation
6500 West Cortland Street
Chicago, IL 60707
www.cobraelectronics.com

If You Think You Need Service

For technical assistance, please call our Automated Help Desk which can assist you by answering the most frequently asked questions about Cobra products.

1.773.889.3087

24 hours a day, 7 days a week.

A Consumer Service Representative can be reached through this same number 8:00 am - 8:00 pm, Monday through Friday, CST.

Technical assistance is also available on-line in the Frequently Asked Questions (FAQ) section at www.cobraelec.com or by e-mail to productinfo@cobraelec.com

If you think you need service call 1.773.889.3087

If your product should require factory service please call Cobra first before sending your unit in. This will ensure the fastest turn-around time on your repair.

You may be asked to send your unit to the Cobra factory. It will be necessary to furnish the following in order 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 or a sales receipt. If you send the original receipt it cannot be returned.
2. Send the entire product.
3. Enclose a description of what is happening with the unit. Include a typed or clearly print name and address of where the unit is to be returned.
4. Pack unit 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 First Class Mail to: Cobra Factory Service, Cobra Electronics Corporation, 6500 W. Cortland St., Chicago, IL 60707.
6. If the unit is in warranty, upon receipt of your unit it will either be repaired or exchanged depending on the model. Please allow approximately 3 to 4 weeks before contacting us for status. If the unit is out of warranty a letter will automatically be sent informing you of the repair charge or replacement charge. If you have any questions, please call 1.773.889.3087 for assistance.

© 2000 Cobra Electronics Corp.
Printed in Thailand
Part No. 480-302-P-001

Operating Instructions for your Cobra
9 Band ESD 9850
Radar/Laser Detector
With Electronic Digital Compass*
and Voice Alert



Nothing comes close to a Cobra™

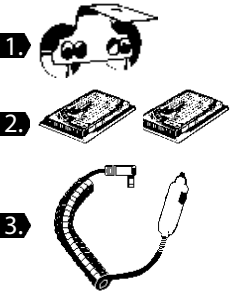
Introduction



and Strobe Alert™

Use of this product is not intended to, and does not, ensure that the motorist and any passenger will not be involved in a traffic accident. It is only intended to alert the motorist that an emergency or service vehicle equipped with a CODE 3, Strobe (Opticom® or Tomar Preemption System) or Cobra Safety Alert Transmitter is in the area as defined by the range of the product. Please call your local Fire/Police department to verify if coverage exists in your area. Motorists are expected to exercise all due caution while using this product, and to observe and follow all applicable traffic laws. Operators of emergency or service vehicles are also expected to exercise all due caution while using this product, and to observe and follow all applicable traffic laws.

*Opticom is a registered trademark of 3M Corporation



Introduction

Congratulations! You have just purchased the most sophisticated RADAR/LASER DETECTOR available today. This booklet contains instructions and information designed so that you will be able to understand how the Cobra ESD™-9850 works and how radar and (LIDAR) laser are used. Enjoy your Cobra ESD-9850 Radar/Laser Detector and drive safely.

Federal Law Governing Use of Radar Detectors

It is not against Federal Law to receive radar transmissions on your COBRA Radar Detector. The Communications Act of 1934 guarantees your right to receive radio transmissions on any frequency. Local laws that contravene the Communications Act of 1934, while illegal, may be enforced by your local law enforcement officials until and unless they are prohibited from doing so by Federal Court action.

WARNING: Before leaving your car, make sure that you conceal your radar detector. This will reduce the possibility of break-in and theft of your unit.

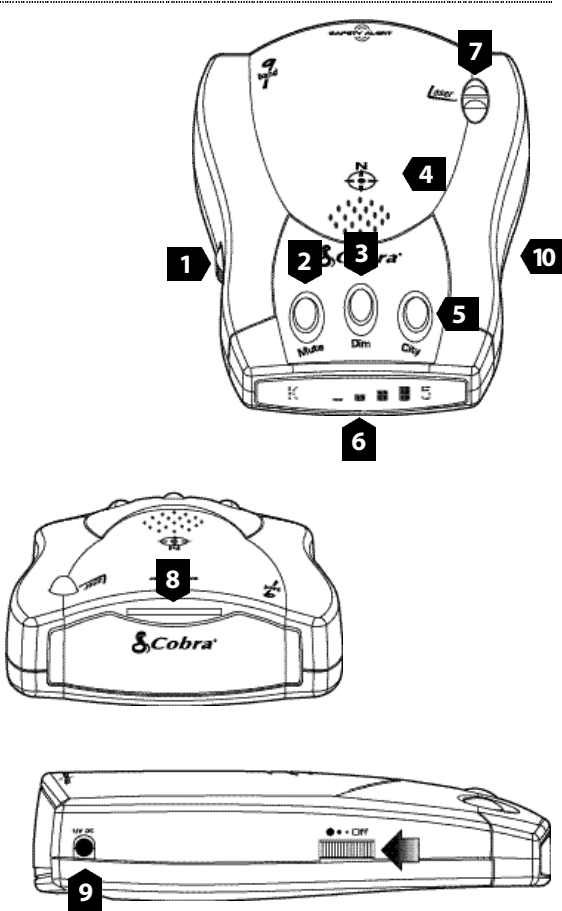
Included with your ESD-9850

1. Windshield Bracket
2. Hook and Loop Material
3. Curled Power Cord

A1

Controls and Indicators

- 1. On/Off Volume Control
- 2. Mute Button
- 3. Dim Button
- 4. Audio Alerts Speaker
- 5. Highway/City Button
- 6. Band/Signal Strength/Compass Direction Indicators
- 7. Laser Eye
- 8. Windshield Bracket Mount
- 9. 12V DC Power Jack
- 10. Audio Jack



Thank you for purchasing the Cobra ESD-9850 Radar/Laser Detector. Properly used, this Cobra product will give you many years of reliable service.

Customer Support
Should you encounter any problems with the product or not understand its many features, please refer to this owner's manual. If, after referring to the manual, you still need help, call Cobra Customer Service at 773.889.3087.

Cobra Customer Service
Live operators are available
M-F 8:00 am - 8:00 pm CST
at: 773.889.3087

Automated Technical
Assistance available 24 hours
a day, seven days a week.
E-mail questions to:
productinfo@cobraelec.com

Cobra on the World Wide Web:
Frequently Asked Questions
(FAQ) can be found on-line
at:
www.cobraelectronics.com

The Cobra line of quality products also includes:

- Citizens Band Radios
- MicroTalk™ Radios
- Accessories
- SafetyAlert™ Traffic Warning Systems

Nothing comes close to a Cobra™