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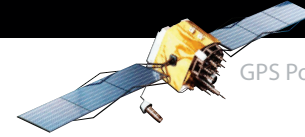
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ESCORT Inc.
5440 West Chester Road
West Chester OH 45069 USA
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Features, specifications and prices subject to change without notice.
Model: PASSPORT 9500ci

ESCORT®



GPS Powered for Speed and Location Intelligence



DRIVE SMARTER™



9500ci
PASSPORT®

Custom-Installed System

R A D A R A N D L A S E R D E F E N S E S Y S T E M

Owner's Manual

Congratulations

Your new GPS-powered PASSPORT 9500ci is the most advanced custom-installed radar and laser defense system ever designed.

The 9500ci includes full X, K, SuperWide Ka, and Safety Warning System radar capability, front and rear laser detection with optional Laser Shifting, digital signal processing (DSP) for superior range, our patented Mute and AutoMute and all the performance that only ESCORT can deliver.

In addition, the ESCORT 9500ci contains the following revolutionary features:

- Exclusive AutoLearn and AutoUnlearn automatically identifies each signal and determines if it's a real threat or not
- Exclusive True-Lock permanently locks out false alarms by exact location and frequency
- Twin-antenna design with dual LNA (low noise amplifier) receivers provide the best long-range performance against all North American radar bands
- Exclusive TotalShield™ Technology makes the 9500ci totally undetectable by any radar detector detector (RDD)
- Pre-loaded safety camera locations, including red light and fixed speed camera locations
- Easy-to-use Preferences lets you customize up to 10 features

If you've used a radar detector before, a review of the Quick Reference Guide on pages 4 and 5, and the Preferences on pages 12 and 13 will briefly explain the new features.

If this is your first detector, please read the manual in detail to get the most out of your PASSPORT 9500ci's outstanding performance and innovative features.

Please drive safely.

FCC Note: Modifications not expressly approved by the manufacturer could void the user's FCC granted authority to operate the equipment.

Quick Reference Card



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PASSPORT 9500ci Quick Reference Card

There are 10 user-selectable options so you can customize your 9500ci for your own preferences.

The buttons labeled VOL and BRT are also used to enter Preferences, REVIEW your current settings, and to CHANGE any settings. The abbreviations PGM, RVW, and CHG are located on the lower part of the controller.

How to use EZ-Preferences

1 To enter Preferences, press and hold both VOL and BRT buttons down for 2 seconds. A voice announces "preferences," and will display the word **Pref.**

2 Then press the VOL button to review the current settings. You can either tap the button to change from setting to setting, or hold the button to scroll through all the options.

3 Press the BRT button to change any setting. You can either tap the button to change from setting to setting, or hold the button down to scroll through all the options.

4 To leave Preferences, simply wait 8 seconds without pressing any button, or momentarily press the PWR button. The unit will display **Complete**, accompanied by a voice announcement.

Factory Default Settings

To reset the 9500ci to its original factory settings, press and hold the VOL and SENS buttons while turning the power on. The 9500ci's display will provide a **Reset** accompanied by an audible alert, acknowledging the reset.

An example:

Here is how you would turn 9500ci's AutoMute feature off:

1 Enter Preferences by holding both the VOL and BRT buttons down for 2 seconds. The 9500ci will display **Pref.**, accompanied by a voice announcement.

2 Then hold the VOL button down. The 9500ci will scroll through the categories, starting with Pilot (**Pilot**), GPS (**GPS**), AutoLearn (**aLearn**), SpeedAlert (**sAlert**), Meter (**Meter**), then AutoMute (**aMute**).

3 Release the VOL button when the 9500ci shows the AutoMute item. Since the factory setting is for AutoMute to be on, 9500ci will display **aMute ON**, accompanied by a voice announcement.

If you accidentally don't release the button in time, and the 9500ci goes to the next category, hold the VOL button down again, and scroll through the categories again until **aMute** is displayed.

4 Press the BRT button to change from **aMute ON** to **aMute OFF**.

5 To complete this change, simply wait 8 seconds without pressing any button, or press the PWR button. The 9500ci will display **Complete**, accompanied by a voice announcement and return to its normal operation.

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Quick Reference Card



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PASSPORT 9500ci Quick Reference Card

Press the VOL button to go from one category to the next		Press the BRT/CHG button to change your setting within a category	
PILOT (Power-on indication)	Pilot HWY Pilot H Pilot H.> Pilot U Pilot SPD	* Full word: Highway, AutoScan, etc. Letter: H, A, ANX Letter, with scanning dot Vehicle voltage Vehicle speed	
GPS	GPS ON GPS OFF	* GPS On GPS Off	
AUTOLEARN	aLrn ON aLrn OFF	* AutoLearn On AutoLearn Off	
SPEED ALERT	sAlrt ON sAlrt OFF	* Speed Alert On Speed Alert Off	
METER	Meter STD Meter EXP Meter SPC	* Bar-graph Meter Expert Meter Spec Display	
AUTOMUTE	aMute ON aMute OFF	* AutoMute On AutoMute Off	
UNITS	Units ENG Units MET	* Units English Units Metric	
VOICE	Voice ON Voice OFF	* Voice Alerts On Voice Alerts Off	
BANDS	Bands DFT Bands MOD	* Factory Default Settings Factory Default Settings Modified	
	Turn bands ON or OFF by pressing the MUTE button		
	X	ON or OFF (default is on)	
	K	ON or OFF (default is on)	
	Ka	ON or OFF (default is on)	
	POP	ON or OFF (default is off)	
	SWS	ON or OFF (default is off)	
	LSR	RECV or SHFT or OFF (default is RECV)	
	TSR	ON or OFF (default is off)	
MARKERS	Mark DFT Mark MOD	* Factory Default Settings Factory Default Settings Modified	
	rCam	ON or OFF (default is on)	
	sCam	ON or OFF (default is on)	
	Trap	ON or OFF (default is on)	
	Othr	ON or OFF (default is on)	

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Power Button

Press and hold to manually turn the 9500ci on or off. If installed properly, the system will turn on or off automatically with the ignition.

Sensitivity Button (SENS)

The “SENS” button selects the 9500ci’s sensitivity. The choices are Highway (full sensitivity), Auto (based on the speed of the vehicle) and Auto No X, (same as Auto but without X-band). In general, we recommend Auto. *Page 7*

Volume Button (VOL)

Press and hold the VOL button on the controller to adjust the alert volume level. The audio will ramp up to increase, down to decrease, accompanied by a bar-graph on the display.

To change the direction of the audio ramping (down instead of up or vice versa) simply release the VOL button quickly press and hold it again to change its direction.

NOTE: Your preferred audio level will be stored in memory, even after the detector is turned off.

Control Module



Mute Button (Mute)

Briefly press this button to silence the audio for a specific alert. (The audio will alert you to the next encounter.) *Pages 6-7*

Mark Location Button (MRK)

The “MRK” button allows you to mark a specific location and label it for future reference. Once marked, the PASSPORT 9500ci will provide an alert before you reach this area again. This can be extremely useful when there are known speed traps or safety cameras in a particular location. *Page 8*

Display Brightness (BRT)

The “BRT” button selects your preferred brightness level. The factory default setting is Auto (automatic), which will adjust the display brightness based on the ambient light in the vehicle. See the Preferences section for details.

MatrixDisplay

The 9500ci’s alphanumeric display consists of 280 individual LEDs, to provide an intuitive ultra-bright display of signal strength and text messages. The 9500ci’s display will show Highway, Auto, or AutoNoX as its power-on indication. If you prefer, you can choose other power-on indications. *Pages 12-15*

During an alert, the display will indicate the radar or laser band, and a precise bar-graph of signal strength.

Page 14

Note: In the Dark Mode the display will not light during an alert.

Display Module



GPS Signal Indicator

The GPS icon indicates reception of GPS satellite signals and will rotate when a false alert is being rejected.

Power

The 9500ci is typically wired to a switched supply at the vehicle's fuse box. This allows the detector to turn on/off with the ignition. If you prefer, the power button can be used to manually turn the 9500ci on or off.

Power-On Indication

Once your 9500ci's is installed, the system will turn on with the ignition. Once the start-up sequence is complete, the display will show "Highway", "Auto" or "Auto NoX" to indicate which sensitivity mode it is in.

If you prefer, you can select alternate power-on displays. See the Preferences section for details.

Volume Control

Press and hold the VOL button on the controller to adjust the alert volume level. The audio will ramp up and down, accompanied by a bar-graph on the display. Once your desired level is reached, simply release the button. This audio level will be stored in memory, even after the detector is turned off.

NOTE: To change the direction of the audio ramping (e.g. down instead of up) simply release the VOL button quickly and press and hold again.

Mute

The MUTE button, located in the center of the 9500ci's controller, has several functions:

1. Mute the audio during a single alert. To do this, briefly press the MUTE button during the alert. After that radar encounter has passed, the Mute will disengage, and the audio will return to your preset level.
2. Lockout false alarms using TrueLock. To do this, simply press the Mute button (3) three consecutive times during the false alert. The first time the audio will mute as stated above. The second time the mute button is pressed; the display will read "Lockout?" To confirm and lockout that signal, press the mute button a third time.

NOTE: Visually scan the area to ensure no real threat exists before locking out any signals.

Once a signal has been locked out, the satellite icon on the display will rotate, giving you a visual indication that it is detecting that signal, but no alert will be given.

3. Unlock a signal. To do this, simply press and hold the Mute button while the icon is rotating. An "Unlock" message will be displayed. Press the mute button again to confirm and unlock that signal.

4. Disengage "Laser Shifting". To do this, simply double-tap the mute button during a laser alert once you've adjusted your speed. This will put the Laser Shifters into a "receive only" mode for approximately (1) one minute. Once this time has passed, the Shifters will automatically return to the "shifting" mode.

NOTE: Shifters must be turned on in Preferences. See Preferences section for details.

5. Once the vehicle is under 25 mph, press and hold to disable the Shifters for an extended period of time. Once the vehicle reaches 25 mph, the Shifters will reset and return to Shift mode.

AutoMute

Your 9500ci has our patented AutoMute feature. After the 9500ci alerts you to a radar encounter at the volume you have selected, the AutoMute feature will automatically reduce the volume to a lower level. This keeps you informed without the annoyance of a continuous full-volume alert.

If you prefer, you can turn AutoMute off. See the Preferences section for details.

Radar Sensitivity

The "SENS" button selects the 9500ci's radar sensitivity. The choices are "Highway", "Auto" or "Auto No X". In general, we recommend "Auto" for every day driving.

Highway (Highway Mode)

In this setting, the 9500ci will detect all radar signals on all bands at maximum range.

Auto (AutoMode)

In this setting the 9500ci will automatically adjust its radar sensitivity based on the speed of your vehicle. At slower speeds, (<25mph) X and K-band sensitivity is reduced to minimize alerts caused by automatic door openers, etc.

At higher speeds, (>45 mph) X and K-band sensitivity is increased to maximum.

Note: Full sensitivity is maintained on Ka-band and Laser regardless of your speed.

Auto NoX (AutoMode with NoX)

Auto No X works the same as AutoMode above; however, X-band is completely turned off.

WARNING: Do not use the 9500ci Auto NoX unless you are absolutely certain that there are no traffic radar guns using X-band in your area.

Mark Locations

The Mark Location feature allows you to mark any location for future reference. Once marked, the 9500ci will provide an alert, accompanied by the label you assigned to it, on the display.

There are (4) different labels you can use when marking a location: Speed Trap (“SPDTRAP”), Speed Camera (“SPDCAM”), red light camera (“REDLIGHT”) and other (“OTHER”).

To mark a location, simply press the “MRK” button. The display will show “MARK?”, accompanied by a voice message. Press the “MRK” button again, and the labels appear, starting with “SPDTRAP”. If this is not the label you want to use, simply press the “MUTE” button to scroll through the other options. Once you reached the label you want, simply press the “MRK” button once more to confirm. The word “MARKED” will appear on the display, accompanied by a voice prompt confirming you have marked and labeled this location.

Once marked, the PASSPORT 9500ci will provide an alert before you reach this area the next time.

NOTE: You must drive out of the marked area before the mark location alert will work.

The warning distance for each label is:

Speed Trap =

.3 miles, or approximately 1,584 feet.

Speed Camera =

500’ when traveling below 55mph,
or 1000’ above 55mph

Red Light Camera =

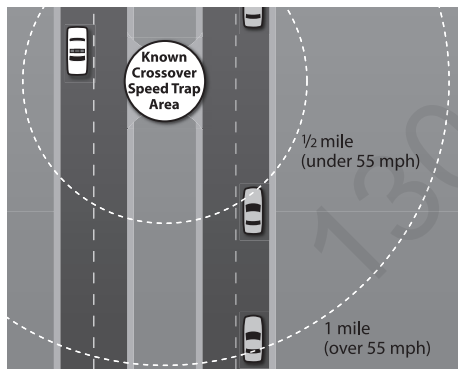
250 feet

Other =

500’ when traveling below 55mph,
or 1000’ above 55mph

NOTE:

GPS must be on in Preferences.



Example of a Mark Location labeled “Other.”

Safety Camera

Your 9500ci comes pre-loaded with safety camera locations in its memory. To turn these on or off, see the “Markers” section in Preferences.

AutoLearn/Auto UnLearn

(X and K-bands only)

AutoLearn constantly analyzes all incoming signals as you drive. If the same signal is detected at the same location approximately (3) three times, the 9500ci will automatically lock it out as a false alarm. Once this signal has been locked out, no alert will be given at this location unless it’s a new or different signal. Once a signal has been locked out and stored in memory, the 9500ci will also automatically unlock a signal if it is not present the next time you pass that location. This reduces the chances of locking out a real threat.

Locking Out False Alarms

To lock out a known false alarm, (X and K-band radar, and Laser) simply press the Mute button on the controller (3) three times during the false alert.

NOTE: It is important to visually look around to make certain no traffic radar is present before locking out a signal.

The first time you press the Mute button, the audio will mute. The second time the display will show “Lockout?” accompanied by a voice prompt asking if you want to lockout this signal. The third time you press the Mute button, the location and frequency of that signal is stored in memory. The display will show “Stored” to acknowledge the information has been captured.

Audible Alerts

For Radar signals:

The 9500ci uses a Geiger-counter-like sound to indicate the signal strength and type of radar signal being encountered. When you encounter radar, a distinct audible alert will sound and occur faster as the signal gets stronger. This allows you to judge the distance from the signal source without taking your eyes from the road.

X-band = beep

K-band = brap

Ka-band = double-brap

POP = full double-chirp

Laser = rapid fire beeping

SWS = double buzz

At low speeds, (below 20 mph) radar alerts will be reduced to a double-tone based on the band received (e.g. double brap for k-band).

For Laser signals:

Since laser signals are a possible threat no matter how weak, the 9500ci alerts you to these bands at full signal strength.

For POP signals:

Since POP signals are extremely fast K or Ka bursts, and a possible threat no matter how weak, the 9500ci alerts you to these bands at full signal strength.

For Safety signals:

The 9500ci will alert you to these signals with a double-beep tone, and a corresponding text message. A complete listing of the text messages is on page 25.

Marked Locations

The 9500ci will alert you to marked locations with a double-beep tone, and a corresponding text message. A complete list of mark location labels are on page 8.

Voice Alerts

The 9500ci provides digital voice announcements (factory default) for alerts, feedback for button selections, and preferences.

If you prefer, you can turn off the voice feature in Preferences. See the Preferences section for details.

Display Brightness

The 9500ci's display brightness is automatically adjusted by a sensor located behind the display lens. (factory default)

If you prefer, you can select one of the following fixed levels of brightness including Minimum, Medium, Maximum or Full Dark by pressing the "BRT" button located on the controller.

Signal Strength Meter

The 9500ci's standard bar-graph meter only displays information on a single radar signal. If there are multiple signals present, the 9500ci's internal computer determines which is the most important threat to show on the bar-graph meter.

When the 9500ci detects radar, it displays the band (X, K, Ka), and a precise bar-graph of the signal strength. When the 9500ci detects a laser signal, the display will show "LASER." When it detects a POP signal, the display will show "POP."

NOTE: If you are operating the 9500ci in the Dark mode, the display will not display anything when a signal is detected. However, the back light on the Mute button, located on the controller, will flash to give you a visual alert.

ExpertMeter

Your 9500ci's ExpertMeter Display option is an advanced display for experienced detector users. Please use the 9500ci for a few weeks to get familiar with its other features before using this meter type.

To use the ExpertMeter instead of the standard bar-graph signal strength meter, you must select ExpertMeter in the 9500ci's Preferences (see pages 12-15).

The 9500ci's ExpertMeter Display simultaneously tracks multiple radar signals and their relative signal strength. This can help you spot a change in your normal driving environment. For example, a traffic radar unit being operated in an area where there are normally other signals present.

The ExpertMeter Display is actually a miniature spectrum analyzer. It shows what band each signal is and its signal strength.



Above is the ExpertMeter if the 9500ci was detecting a strong Ka-band, a weak K-band, and a weak X-band signal.

A few more examples will help you better see how the ExpertMeter works.



Here ExpertMeter shows a strong K-band signal and a weak X-band signal.



Here ExpertMeter shows a weak Ka-band signal, and a strong X-band signal.

Spec Display

The 9500ci's Spec Display option is for the experienced detector user. In this mode, the 9500ci will display the actual numeric frequency of the radar signal being received.



Spec Display shows one K-band signal at 24.150 gigahertz.

Even long-time detector users will require a significant amount of time to get familiar with this new level of information about detected signals.

How to use Preferences

There are 10 user-selectable options you can customize on your 9500ci. The buttons labeled VOL and BRT on the controller are used to enter Preferences. Once you enter Preferences, the VOL button is used to REVIEW your current choices, and BRT button is used to CHANGE settings. See Pages 14-16 for more detail.

How to use Preferences

1 To enter Preferences, press and hold both the VOL and BRT buttons down for 2 seconds. The unit will display the word *Prfcs*, accompanied by a voice announcement.

2 Press the VOL button to review the current settings. You can either tap the button to change from item to item, or hold the button to scroll through the items.

3 Press the BRT button to change any setting. You can either tap the button to change from setting to setting, or hold the button to scroll through all the options.

4 To exit Preferences, simply wait 8 seconds without pressing any button, or press the PWR button (⏻). The unit will display *Complete*, accompanied by a voice announcement.

An example

Here is how you would turn the AutoMute feature off.

1 Enter Preferences by holding both the VOL and BRT buttons down for 2 seconds. *The 9500ci will beep twice and display *Prfcs*.*

2 Then hold the VOL/RVW button down. *The 9500ci will scroll through the categories, starting with Pilot, GPS, aLearn, Meter, then AutoMute.*

3 Release the VOL/RVW button when the 9500ci shows the AutoMute item. *Since the factory setting for AutoMute is on, the display will show *aMute ON*.*

If you accidentally don't release the VOL/RVW button in time, and 9500ci goes to the next category, simply hold the VOL/RVW button down again, the 9500ci will scroll through all of the categories.

4 Press the BRT/CHG button to change from *aMute ON* to *aMute OFF*.

5 To exit Preferences, simply wait 8 seconds without pressing any button, or press the PWR button (⏻). *The 9500ci will display *Complete*, accompanied by a voice announcement.*

Overview of Preferences

Press the **VOL** button
to go from one category
to the next

Press the **BRT/CHG** button
to change your setting
within a category

PILOT (Power-on indication)	Pilot Pilot H Pilot H.> Pilot V Pilot SPD	* Full word: Highway, AutoScan, etc. Letter: H, A, ANX Letter, with scanning dot Vehicle voltage Vehicle speed
GPS	GPS ON GPS OFF	* GPS On GPS Off
AUTOLEARN	aLrn ON aLrn OFF	* AutoLearn On AutoLearn Off
SPEED ALERT	sAlrt ON sAlrt OFF	* Speed Alert On Speed Alert Off
METER	Meter STD Meter EXP Meter SPC	* Bar-graph Meter Expert Meter Spec Display
AUTOMUTE	aMute ON aMute OFF	* AutoMute On AutoMute Off
UNITS	Units ENG Units MET	* Units English Units Metric
VOICE	Voice ON Voice OFF	* Voice Alerts On Voice Alerts Off
BANDS	Bands DFT Bands MOD	* Factory Default Settings Factory Default Settings Modified
	X K Ka POP SwS LSR TSR	Turn bands ON or Off by pressing the MUTE button ON or OFF (default is on) ON or OFF (default is on) ON or OFF (default is on) ON or OFF (default is off) ON or OFF (default is off) REC'd or SHFT or OFF (default is REC'd) ON or OFF (default is off)
MARKERS	Mark DFT Mark MOD rCam sCam Trap Othr	* Factory Default Settings Factory Default Settings Modified ON or OFF (default is on) ON or OFF (default is on) ON or OFF (default is on) ON or OFF (default is on)

*** Factory Default Settings**
To reset 9500ci to its original factory settings, press and hold the "VOL" and "SENS" buttons while turning the power on. The 9500ci's display will provide a *Reset* message, accompanied by an audible alert, acknowledging the reset.

Pilot (Power-on indication)

Pilot HWY (Full word)

In this setting, the 9500ci will display “Highway,” “Auto,” or “AutoNox” as its power-on indication. (factory default)

Pilot H (Letter)

In this setting, the 9500ci will display “H” for Highway, “A” for Auto, and “Anx” for Auto No X.

Pilot H. (Letter with scrolling dot)

In this setting, the 9500ci will display “H” for Highway, “A” for Auto, and “Anx” for Auto No X, accompanied by a scrolling dot.

Pilot V (Vehicle voltage)

In this setting, the 9500ci will display “H” for Highway, “A” for Auto, and “Anx” for Auto NoX, accompanied by the vehicle’s voltage.

NOTE: A high or low voltage warning is given any time the vehicle’s voltage drops below 10.5 volts, or goes above 16.5 volts. This feature is always on, regardless of the Pilot setting.

Pilot SPD (Vehicle speed)

In this setting, the 9500ci will display “H” for Highway, “A” for Auto, and “Anx” for Auto NoX, accompanied by the vehicle’s speed.

NOTE: When you are using the Dark mode, the display will not display anything. Only the power-on indication on the controller will illuminate.

GPS

GPS On (GPS receiver on)

In this setting, all GPS related features are on. (factory default)

GPS Off (GPS receiver off)

In this setting, all GPS features are off.

Auto Learn

aLrn On (AutoLearn is on)

In this setting, the 9500ci will constantly analyze all incoming radar signals and lock out false alarms automatically over time. (factory default)

aLrn Off (AutoLearn is off)

In this setting, any false alerts will need to be locked out manually using the Mute button.

Speed Alert

sAlrt On (Speed Alert is on)

In this setting, your current vehicle speed is displayed, then the meter you’ve selected. (factory default)

sAlrt Off (Speed Alert is off)

In this setting, speed alert is off.

Signal Strength Meter

MeterSTD (Standard meter)

In this setting, the meter displays the band of the signal received, and a bar-graph showing the relative signal strength. (factory default)

MeterEXP (ExpertMeter)

In this setting, the meter will simultaneously track multiple radar signals, including relative signal strength for each.

Meter SFC (Spec Display meter)

In this setting, the meter will display the actual numeric frequency of the radar signal received.

NOTE: The Spec Display feature is explained in more detail on page 11.

AutoMute

aMute ON (AutoMute on)

In this setting, the 9500ci’s audio alerts will initially be set to the volume you set, but after a few seconds, the 9500ci will automatically reduce the volume level, to keep you informed, but not annoyed. (factory default)

aMute OFF (AutoMute off)

With AutoMute off, the 9500ci’s audio alerts will remain at the volume you set for the duration of the encounter.

Units

Units ENG (units are in English)

In this setting, all speed and distance related functions are displayed in English units. (factory default)

Units MET (units are in Metric)

In this setting, all speed and distance related functions are displayed in Metric units.

Details of Preferences

Bands

BandsDFT

In this setting, the factory default settings for North America radar and laser are monitored.

This is the factory setting, and it is highly recommended that you use your 9500ci in this mode.

BandsMOD

In this setting, 9500ci will warn you with an audible alert, and associated text message stating which band has changed from the original factory setting (e.g. “SWS ON”). This warning is displayed during the start up sequence.

WARNING: Do not turn off any bands unless you are absolutely certain there are no traffic radar guns using that specific band in your area.

Markers

MarkDFT

In this setting, all fixed location reporting, including safety cameras, red light cameras and speed traps are reported.

MarkMOD

In this setting, only the Markers you've selected will be reported.

Laser Shifters

Your 9500ci is equipped with a total of (3) Laser Shifters, (2 front, 1 rear). These transceivers will automatically receive incoming laser signals.

If you prefer, you can turn on the Laser Shifters to automatically “shift” incoming signals. See the Preferences section for details.

Specifications

Features and Specifications

Operating Bands

- X-band 10.525 GHz \pm 25 MHz
- K-band 24.150 GHz \pm 100 MHz
- Ka-band 34.700 GHz \pm 1300 MHz
- Laser 904nm, \pm 33nm

Radar Receiver

- Dual-Horn Antenna Casting
- Superheterodyne, dual LNA's
- Scanning Frequency Discriminator
- Digital Signal Processing (DSP)

Laser Detection

- Quantum Limited Video Receiver
- (9) Receive, (24) Transmit

Display Type

- 280 LED Alphanumeric
- Bar Graph, ExpertMeter™ or Spec Display™
- Automatic, plus 4 levels of fixed brightness including full Dark

Power Requirement

- 12VDC, Negative Ground

Preferences

- Pilot
- GPS
- AutoLearn
- SpeedAlert
- Meter
- AutoMute
- Units
- Voice Alerts

Sensitivity Control

- Highway
- Auto
- Auto NoX

Additional Patented Technology

- AutoLearn™
- Mute/AutoMute™/SmartMute™
- TotalShield™ Technology

Interpreting Alerts

Although the 9500ci has a comprehensive warning system and this Manual is as complete as we can make it, only experience will teach you what to expect from your 9500ci and how to interpret what it tells you. The specific type of radar being used, the type of transmission

(continuous or instant-on) and the location of the radar source affects the radar alerts you receive.

The following examples will give you an introduction to understanding the 9500ci's warning system for radar, laser and safety alerts.

Alert	Explanation
The 9500ci begins to sound slowly, then the rate of alert increases until the alert becomes a solid tone. The Signal Meter ramps accordingly.	You are approaching a continuous radar source aimed in your direction.
The 9500ci emits short alerts for a few seconds and then falls silent only to briefly alert and fall silent again.	An instant-on radar source is being used ahead of you and out of your view.
The 9500ci suddenly sounds a continuous tone for the appropriate band received. All segments in the Signal Strength Meter are lit.	An instant-on radar source or laser source is being used nearby. This kind of alert requires immediate attention!
A brief laser alert.	Laser is being used in the area. Because laser is inherently difficult to detect, any laser alert may indicate a source very close by.
The 9500ci receives weak signals. These signals may be a little stronger as you pass large, roadside objects. The signals increase in frequency.	A moving patrol car with continuous radar is overtaking you from behind. Because these signals are reflected (reflections are increased by large objects), they may or may not eventually melt into a solid point even when the patrol car is directly behind you.
The 9500ci alerts slowly for awhile and then abruptly jumps to a strong alert.	You are approaching a radar unit concealed by a hill or an obstructed curve.

Alert

The 9500ci alerts intermittently. Rate and strength of alerts may be consistent or vary wildly.

The 9500ci alerts intermittently. Rate and strength of signal increases with each alert.

The 9500ci gives an X-band alert intermittently.

Explanation

A patrol car is travelling in front of you with a radar source aimed forward. Because signals are sometimes reflected off of large objects and sometimes not, the alerts may seem inconsistent.

A patrol car is approaching from the other direction, sampling traffic with instant-on radar. Such alerts should be taken seriously.

You are driving through an area populated with radar motion sensors (door openers, burglar alarms, etc.). Since these transmitters are usually contained inside buildings or aimed toward OR away from you, they are typically not as strong or lasting as a real radar encounter.

CAUTION: Since the characteristics of these alerts may be similar to some of the preceding examples, over-confidence in an unfamiliar area can be dangerous. Likewise, if an alert in a commonly traveled area is suddenly stronger or on a different band than usual, speed radar may be set up nearby.

How Radar Works

How Radar Works

Traffic radar, which consists of microwaves, travels in straight lines and is easily reflected by objects such as cars, trucks, even guardrails and overpasses. Radar works by directing its microwave beam down the road. As your vehicle travels into range, the microwave beam bounces off your car, and the radar antenna looks for the reflections.

Using the Doppler Principle, the radar equipment then calculates your speed by comparing the frequency of the reflection of your car to the original frequency of the beam sent out.

Traffic radar has limitations, the most significant of these being that it typically can monitor only one target at a time. If there is more than one vehicle within range, it is up to the radar operator to decide which target is producing the strongest reflection. Since the strength of the reflection is affected by both the size of the vehicle and its proximity to the antenna, it is difficult for the radar operator to determine if the signal is from a sports car nearby or a semi-truck several hundred feet away.

Radar range also depends on the power of the radar equipment itself. The strength of the radar unit's beam diminishes with distance. The farther the radar has to travel, the less energy it has for speed detection.

Because intrusion alarms and motion sensors often operate on the same frequency as X, and K-band radar, your PASSPORT will occasionally receive non-police radar signals. Since these X-Band transmitters are usually contained inside of a building, or aimed toward the ground, they will generally produce much weaker readings than will a true radar encounter. As you become familiar with the sources of these pseudo alarms in your daily driving, they will serve as confirmation that your PASSPORT's radar detection abilities are fully operational.

How POP Works

How "POP" Works

"POP" mode is a relatively new feature for radar gun manufacturers. It works by transmitting an extremely short burst, within the allocated band, to identify speeding vehicles in traffic. Once the target is identified, or "POPPED," the gun is then turned to its normal operating mode to provide a vehicle tracking history, (required by law).

NOTE: According to the operator's manual from the radar gun manufacturer, tickets should not be issued in POP mode.

How Laser (Lidar) Works

Laser speed detection is actually LIDAR (Light Detection and Ranging). LIDAR guns project a beam of invisible infrared light. The signal is a series of very short infrared light energy pulses which move in a straight line, reflecting off your car and returning to the gun. LIDAR uses these light pulses to measure the distance to a vehicle. Speed is then calculated by measuring how quickly these pulses are reflected given the known speed of light.

How Laser Works

LIDAR (or laser) is a newer technology and is not as widespread as conventional radar, therefore, you may not encounter laser on a daily basis. And unlike radar detection, laser detection is not prone to false alarms. Because LIDAR transmits a much narrower beam than does radar, it is much more accurate in its ability to distinguish between targets and is also more difficult to detect. ***As a result, even the briefest laser alert should be taken seriously.***

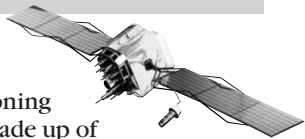
There are limitations to LIDAR equipment. LIDAR is much more sensitive to weather conditions than RADAR, and a LIDAR gun's range will be decreased by anything affecting visibility such as rain, fog, or smoke. A LIDAR gun cannot operate through glass and it must be stationary in order to get an accurate reading. Because LIDAR must have a clear line of sight and is subject to cosine error (an inaccuracy, which increases as the angle between the gun and the vehicle, increases) police typically use LIDAR equipment parallel to the road or from an overpass. LIDAR can be used day or night.

How GPS Works

How GPS Works

The Global Positioning System (GPS) is made up of twenty four orbiting satellites and was developed by the U.S. military. There are at least four satellites visible at any given time every day.

A GPS receiver is designed to locate and receive data from four of these satellites. This data includes the distance to your location from each of the satellites. Once the distance from each satellite is known, the receiver can calculate and pinpoint your exact location.



How TotalShield™ Works

How TotalShield Works

ESCORT's TotalShield Technology keeps RF signals from radiating from the detector. Unlike other radar and laser detectors, which merely move their RF signals (local oscillators) to another frequency (which will be detectable by future detector-detectors), this revolutionary design keeps you unseen by current radar detector-detectors, including VG-2 and Spectre. This unique design will also keep you unseen from any future radar detector detectors as well.

Although the PASSPORT 9500ci is a completely undetectable radar, laser and safety detector, driving techniques and reactions to alerts can still draw unwanted attention. Here are a few examples:

1. Hitting the brakes immediately when the 9500ci provides an alert can broadcast use of a detector.
2. Traveling at night with a glow from a radar detector's display visible from outside your vehicle can also draw unwanted attention. The 9500ci offers adjustable brightness, including a full dark mode which will provide audio alerts, but no visual indication.

How TrueLock Works

How TrueLock Works

TrueLock uses exact position and the actual frequency of a signal to eliminate it as a false alarm. Once a signal is locked out, a box is created (approximately a 1/2 mile radius) around that location to lock it out from all directions.

NOTE: Thoroughly look around and make sure that no real radar is being used to monitor your speed before you manually lock out a signal.

Automatic door openers use more than one source, so TrueLock will automatically lock out other X and K-band sources in close proximity of the first to captures these.

If you accidentally lock out a real threat, (visually see the officer) simply press and hold the Mute button to unlock it from PASSPORT's memory.

How AutoLearn Works

How AutoLearn Works

AutoLearn uses TrueLock to lock out false alerts, however signals are locked out automatically over time vs. manually using the Mute button.

As you drive, PASSPORT records location and frequency for each signal detected. If that same signal (by frequency) is in the same location approximately three (3) times, AutoLearn will automatically lock it out as a false alarm. A "stored" message will be displayed, accompanied by a low-level alert.

How Auto Unlearn Works

Auto Unlearn automatically unlocks stored TrueLock signals if they are not present in the same location. This is particularly useful if you accidentally lock out a true threat, or if an officer is parked in a shopping mall with automatic door openers.

How TSR Works

TSR Signal Ranking Software

Your radar detector includes a new optional boost in anti-falsing software to eliminate excessive alerts from erroneous X and K-band sources. One example of this is traffic flow monitoring systems. These systems, which are becoming more widely used in several countries, generate K-band signals to measure the flow of traffic on a given road. Unfortunately most detectors see this as a real threat and will alert you to it unnecessarily. Our new proprietary software (TSR), intelligently sorts, ranks and rejects this type of false alarm automatically. The result is ultimate protection without excessive false alarms.

The TSR software is set up as an option and can be activated through the Programming section. We suggest you turn TSR on if you are experiencing extreme false alerts in your area. If not, your detector is ready to start protecting you right out of the box.

If you have any questions about this new feature, please give us a call or visit our website for more details.

How SWS Works

There are two separate Safety Radar systems in limited use today: Safety Alert and Safety Warning System (SWS). Both systems use modified K-band radar signals.

How Safety Radar Works

From the factory, your PASSPORT is programmed with safety radar decoding OFF. If Safety Radar is used in your area, your PASSPORT will display these signals as K-band radar signals instead of safety radar unless you use the Preferences to turn PASSPORT's safety radar decoding ON.

The Safety Alert safety radar system has three possible alerts:

- Safety Vehicle
- Road Hazard
- Train Nearby

The SWS safety radar system has 64 possible messages (60 currently allocated). The SWS messages your PASSPORT can display are listed on the facing page.

NOTE: Some of the safety messages have been condensed, so each message can be displayed on one or two screens on PASSPORT's eight character display.

Since Safety radar technology is relatively new and the number of transmitters in operation is not yet widespread, you will not receive Safety signals on a daily basis and should not be surprised to encounter emergency vehicles, road hazards and railroad crossings that are unequipped with these transmitters and, therefore, fail to provide a signal. As Safety transmitters become more prevalent (the number of operating transmitters is growing every day), these Safety radar signals will become more common.

SWS Text Messages

Highway Construction or Maintenance

- 1 Work Zone Ahead
- 2 Road Closed Ahead/Follow Detour
- 3 Bridge Closed Ahead/Follow Detour
- 4 Highway Work Crews Ahead
- 5 Utility Work Crews Ahead
- 6 All Traffic Follow Detour Ahead
- 7 All Trucks Follow Detour Ahead
- 8 All Traffic Exit Ahead
- 9 Right Lane Closed Ahead
- 10 Center Lane Closed Ahead
- 11 Left Lane Closed Ahead
- 12 *For future use*

Highway Hazard Zone Advisory

- 13 Stationary Police Vehicle Ahead
- 14 Train Approaching/At Crossing
- 15 Low Overpass Ahead
- 16 Drawbridge Up
- 17 Observe Drawbridge Weight Limit
- 18 Rock Slide Area Ahead
- 19 School Zone Ahead
- 20 Road Narrows Ahead
- 21 Sharp Curve Ahead
- 22 Pedestrian Crossing Ahead
- 23 Deer/Moose Crossing
- 24 Blind/Deaf Child Area
- 25 Steep Grade Ahead/Truck Use Low Gear
- 26 Accident Ahead
- 27 Poor Road Surface Ahead
- 28 School Bus Loading/Unloading
- 29 No Passing Zone
- 30 Dangerous Intersection Ahead
- 31 Stationary Emergency Vehicle Ahead
- 32 *For future use*

Weather Related Hazards

- 33 High Wind Ahead
- 34 Severe Weather Ahead
- 35 Heavy Fog Ahead
- 36 High Water/Flooding Ahead
- 37 Ice On Bridge Ahead
- 38 Ice On Road Ahead
- 39 Blowing Dust Ahead
- 40 Blowing Sand Ahead
- 41 Blinding Snow Whiteout Ahead
- 42 *For future use*

Travel Information/Convenience

- 43 Rest Area Ahead
- 44 Rest Area With Service Ahead
- 45 24 Hour Fuel Service Ahead
- 46 Inspection Station Open
- 47 Inspection Station Closed
- 48 Reduced Speed Area Ahead
- 49 Speed Limit Enforced
- 50 Hazardous Materials Exit Ahead
- 51 Congestion Ahead/Expect Delay
- 52 Expect 10 Minute Delay
- 53 Expect 20 Minute Delay
- 54 Expect 30 Minute Delay
- 55 Expect 1 Hour Delay
- 56 Traffic Alert/Tune AM Radio
- 57 Pay Toll Ahead
- 58 Trucks Exit Right
- 59 Trucks Exit Left
- 60 *For future use*

Fast/Slow Moving Vehicles

- 61 Emergency Vehicle In Transit
- 62 Police In Pursuit
- 63 Oversize Vehicle In Transit
- 64 Slow Moving Vehicle

Troubleshooting

Problem	Solution
PASSPORT beeps briefly at the same location every day, but no radar source is in sight.	<ul style="list-style-type: none"> • An X or K-band motion sensor or intrusion alarm is located within range of your route. You can manually lock this out using TrueLock, or allow AutoLearn to do it over time.
PASSPORT does not seem sensitive to radar or laser.	<ul style="list-style-type: none"> • PASSPORT may be in Auto or AutoNox mode.
PASSPORT did not alert when a police car was in view.	<ul style="list-style-type: none"> • VASCAR, (Visual Average Speed Computer And Recorder) a stopwatch method of speed detection, may be in use.
PASSPORT only beeped twice during a radar encounter.	<ul style="list-style-type: none"> • This is normal. Full alerts are minimized when traveling below 25 mph.
PASSPORT's audible alerts are less loud after the first few alerts.	<ul style="list-style-type: none"> • PASSPORT is in AutoMute Mode. See page 4 for details.
PASSPORT's power-on sequence reoccurs while you are driving.	<ul style="list-style-type: none"> • A loose power connection can cause PASSPORT to be briefly disconnected, and will retrigger the power-on sequence.
Your 14-year old son has changed all of your Preferences.	<ul style="list-style-type: none"> • You can return all of the Preferences to their factory defaults by holding down the SENS and VOL buttons while you turn PASSPORT on.
PASSPORT will not turn on.	<ul style="list-style-type: none"> • Check that the PWR button is ON. • Check that vehicle ignition is ON. • Check all connections.

Explanation of Displays

Lsr R N/A	There is a problem with the rear laser receiver (it could be an unplugged connection, damaged wiring, or a problem within the rear laser unit itself).
Check Receiver Wiring	There is a problem with the front receiver (it could be an unplugged connection, damaged wiring, or a problem within the front receiver itself). PASSPORT will continue to display this message, and will not operate until the problem has been repaired.
ANX	Sensitivity control is in Auto No X-band. (page 7)
H	Sensitivity control is in Highway mode. (page 14)
PilotHWY	One of the many options in Preferences (pages 12-16)
WorkZone	One of the many Safety Radar messages (pages 24-25)
Caution	PASSPORT has detected a Safety Radar Signal, but the signal isn't yet strong enough to decode the specific safety message (pages 24-25)
X or K or KA etc.	PASSPORT has been programmed in the ExpertMeter Mode (page 11)
Receiver Error	PASSPORT has failed to calibrate. Contact your Dealer for repair.
GPS N/A	Not able to receiver GPS signal. Check GPS antenna connection.

Service Procedure

If Your PASSPORT ever needs service, please follow these simple steps:

- 1 Check the troubleshooting section of this manual. It may have a solution to your problem.
- 2 Contact your installing dealer. They will evaluate your unit and arrange repairs if necessary.

ESCORT One Year Limited Warranty

What this warranty covers: ESCORT warrants your Product against all defects in materials and workmanship.

For how long: One (1) year from the date of the original purchase.

What we will do: ESCORT, at our discretion, will either repair or replace your Product free of charge.

What we will not do: ESCORT will not pay shipping charges that you incur for sending your product to us.

What you must do to maintain this warranty: Show original proof of purchase from an authorized ESCORT dealer.

Warranty Exclusions: Warranty does not apply to your product under any of the following conditions: 1. The serial number has been removed or modified. 2. Your product has been subjected to misuse or damage (including water damage, physical abuse, and/or improper installation). 3. Your product has been modified in any way. 4. Your receipt or proof-of-purchase is from a non-authorized dealer or internet auction site including E-bay, U-bid, or other non-authorized resellers. 5. You are not the original purchaser of the radar detector from an authorized dealer or did not receive it as a gift from the original purchaser of the radar detector from an authorized dealer.

To obtain service: 1. Contact ESCORT (1-800-543-1608) to obtain a Return Authorization Number. 2. Properly pack

your product and include: your name, complete return address, written description of the problem with your product, daytime telephone number, and a copy of the original purchase receipt. 3. Label the outside of the package clearly with your Return Authorization number. Ship the product pre-paid (insured, for your protection) to: ESCORT Inc, 5440 West Chester Rd., West Chester, OH 45069.

LIMITATION OF WARRANTY: EXCEPT AS EXPRESSLY PROVIDED HEREIN, YOU ARE ACQUIRING THE PRODUCT "AS IS" AND "WHERE IS," WITHOUT REPRESENTATION OR WARRANTY. ESCORT SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY INCLUDING, BUT NOT LIMITED TO THOSE CONCERNING THE MERCHANTABILITY AND SUITABILITY OF THE PRODUCT FOR A PARTICULAR PURPOSE. ESCORT SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES ARISING OUT OF THE USE, MISUSE OR MOUNTING OF THE PRODUCT.

The above limitations or exclusions shall be limited to the extent they violate the laws of any particular state. ESCORT is not responsible for products lost in shipment between the owner and our service center.

Other legal rights: This Warranty gives you specific rights. You may have other legal rights, which vary, from state to state.

9500ci
PASSPORT

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online:
@WWW
EscortRadar.com

▼ Remove card along perforations ▼

ESCORT PRODUCT REGISTRATION CARD

ESCORT®

- ▲ If you purchased your detector directly from ESCORT, you do not need to fill this out.
- ▲ If you did not purchase your detector directly from ESCORT, please fill out this section and return to us, or register online at our web address: **www.EscortRadar.com**

1. First Name: _____ Middle Initial _____ Last Name _____

Address _____

City _____

State _____

Zip _____

E-mail (In case we have a question) _____

2. Product Purchased **PASSPORT 9500ci** _____ Serial Number _____

3. Place of Purchase _____ Date _____ Price _____

4. Primary reason for purchasing this ESCORT product _____

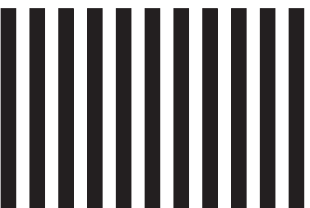
- 5. Would you like to be added to our mailing list? ☐ Yes ☐ No
- 6. Would you like us to e-mail you with updates? ☐ Yes ☐ No

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