

Designed and manufactured in the USA by ESCORT Inc.

ESCORT Inc.  
5440 West Chester Road  
West Chester OH 45069  
800.433.3487  
EscortRadar.com

ESCORT Live Compatible



©2017 ESCORT INC. ESCORT®, ESCORT MAX Ci®, ESCORT, TotalShield™, AutoLearn®, Laser ShifterMax®, CruiseAlert™, ESCORT Live®, DEFENDER®, TrueLock™, SpecDisplay™, ExpertMeter™, SmartMute™, and IVT Filter™ ARE TRADEMARKS OF ESCORT INC.

APPLE AND THE APPLE LOGO ARE TRADEMARKS OF APPLE INC., REGISTERED IN THE U.S. AND OTHER COUNTRIES. APP STORE IS A SERVICE MARK OF APPLE INC.

ANDROID, GOOGLE PLAY, AND THE GOOGLE PLAY LOGO ARE TRADEMARKS OF GOOGLE INC. THE BLUETOOTH® WORD MARK AND LOGOS ARE REGISTERED TRADEMARKS OWNED BY BLUETOOTH SIG, INC. AND ANY USE OF SUCH MARKS BY ESCORT IS UNDER LICENSE.

**FCC NOTE:**

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

FCC ID: QKLM7R. CONTAINS FCC ID: QKLB72

*This device complies with part 15 of the 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.*

The World's Most Advanced Detection System

**ESCORT**<sup>®</sup>  
**MAX Ci**  
INTERNATIONAL



**MAX Ci**  
INTERNATIONAL

The most powerful & complete protection available



Exclusive Digital LNA Design  
Delivers Extreme Range



ESCORT Live App Provides  
Crowd Sourced Alerts



True Stealth Operation Lets  
You Drive 100% Undetected



GPS Intelligence  
Rejects False Alerts

Owner's Manual

## Installed Power. Precision.

Your new ESCORT MAX Ci is the most advanced custom-installed radar and laser defense system ever designed.

The ESCORT MAX Ci includes multiple LNA (low noise amplifier) receivers using Ultra DSP (digital signal processing) for superior radar detection range and false alert filtering.

Also included is a full color OLED display and all the performance and features that only ESCORT can deliver.

In addition, the ESCORT MAX Ci contains the following revolutionary features:

- Updatable IVT Filter automatically reduces false alerts from moving In-Vehicle Technology systems and adaptive cruise control
- GPS location-based intelligence automatically locks out false alerts and allows you to mark locations for future reference
- Exclusive TotalShield™ Technology makes the ESCORT MAX Ci totally undetectable by any radar detector detector (RDD)
- Access to ESCORT's DEFENDER Database, which warns you of verified speed traps, speed cameras and red light cameras
- Built-In Bluetooth technology gives you access to ESCORT's award-winning real-time ticket protection app, ESCORT Live!

Please drive safely.

## Important Notes

### Warning

Never, under any circumstances, look at the Laser ShifterMax sensors while they are powered on and operating. Do not view with optical instruments (like magnifiers).

### CLASS 1 LASER PRODUCT

This product complies with IEC 60825-1:2007-03 Ed. 2.0

This product complies with 21CFR Subchapter J Parts 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50 dated June 24, 2007.

### Please Note

This product may be limited or prohibited in some jurisdictions. Check applicable laws before using.

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

# Safety and Care Information

## IMPORTANT!

It is your responsibility to ensure that the device is installed in adherence with local laws and regulations and in such a manner as to allow a vehicle to be operated safely and without distraction.

- Do not expose to extreme temperatures above 140°F or below -4°F (above 60°C or below -20°C)
- Do not expose to moisture. Do not use device near or in water. Do not touch the device with wet hands.
- Do not let any foreign matter spill into device.
- Do not expose to chemicals such as benzene and thinners. Do not use liquid or aerosol cleaners. Clean with a soft damp cloth only.
- Do not expose to fire, flame, or other heat sources.
- Do not try to disassemble and/or repair device yourself.
- Do not drop your device or subject it to severe impact.
- Do not place heavy objects on device.
- Do not subject device to excessive pressure.
- Opening the case may result in electric shock.



- Follow local guidelines for waste disposal when discarding packaging and electronic appliances.

## FCC Compliance

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

FCC ID:QKLM7R. CONTAINS FCC ID:QKLBT2

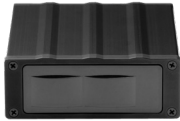
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received including interference that may cause undesired operation.

# Table of Contents

<b>Introduction</b>	<b>A1-A3</b>	• AutoPower	14
<b>What's in the Box</b>	<b>2</b>	• Band Enables	14
<b>Registration and ESCORT Live</b>	<b>2-3</b>	• Shifters	14
<b>Controls and Features</b>	<b>4-5</b>	• Marker Enables	15
<b>Settings &amp; Preferences</b>	<b>6-15</b>	• Clear Locations	15
• User Mode	9	• Restore Factory Settings	15
• Pilot Mode	9	• Serial Number and Software version	15
• Display Color	9	<b>Understanding Your Detector</b>	<b>16-19</b>
• Speed Display	9	• Interpreting Alerts	16
• Cruise Alert	9	• How Radar Works	18
• Over Speed Alert	10	• How Laser Works	19
• Meter Mode	10	• How GPS Works	19
- Standard	10	• How TotalShield™ Works	19
- SpecDisplay	10	<b>Service</b>	<b>20-24</b>
- ExpertMeter	10	• Troubleshooting	20
- Simple	10	• Service Procedure	21
• Alert Tones	13	• Warranty	22
• AutoMute	13	• Registration	23
• AutoLearn	13		
• GPS Filter/TrueLock	13		

## What's in the Box

### Front Radar Receiver



### GPS Antenna



### Display Module



### Control Module



### Interface



**Not shown:**  
**Concealed Alert Indicator**  
**Radio Mute Cable**  
**Download Data Cable**  
**Documentation & Mounting Hardware**

## Registration

Follow these steps to register your ESCORT MAX Ci. You will need the detector's serial number to complete the registration. To view the serial number, hold down the MRK and SEN buttons while powering on the detector.

- 1 Visit [www.EscortRadar.com](http://www.EscortRadar.com) and click Product Registration.
- 2 Click the "Registration for all devices" link.
- 3 Follow the onscreen instructions to register your device.

Be sure to write down the username and password you create, as you will need this information to access the ESCORT Live ticket protection app. (You will also receive an e-mail with this information, once you have registered your device.)


## System Expansion

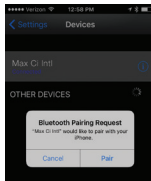
The following optional components are available separately, adding 360° radar detection to ESCORT MAX Ci. See the Installation Manual for installation directions of these optional components.

### MAX Ci International Rear Radar Receiver



## For iPhone:

- 1 Ensure ESCORT MAX Ci power is ON.
- 2 Open the App Store on your iPhone and search for **ESCORT Live Radar**.
- 3 Follow the onscreen instructions to download **ESCORT Live Radar** and then open the app.
- 4 When prompted, enter the username and password you created when registering your product at EscortRadar.com.
- 5 Press the Settings button  then select **Devices**.
- 6 You should see **MAX Ci Intl** listed with Not Connected underneath. Press the **MAX Ci Intl** device entry and when prompted select Pair.
- 7 The Bluetooth icon on the **MAX Ci Intl** display will appear to confirm that it is paired to your iPhone.



## For Android based smartphones:

- 1 Ensure ESCORT MAX Ci power is ON.
- 2 On your smartphone go to Bluetooth® Settings and make sure that Bluetooth® is ON.
- 3 Press Scan for devices and wait for the device list to populate, **MAX Ci Intl** should appear under Available devices.
- 4 Press the **MAX Ci Intl** device entry.
- 5 The Bluetooth icon on the ESCORT iX display will appear to confirm that it is paired to your smartphone.
- 6 Open Google Play on your smartphone and search for **Escort Live Radar**.
- 7 Follow the onscreen instructions to download **Escort Live Radar** and then open the app.
- 8 When prompted, enter the username and password you created when registering your product at EscortRadar.com.
- 9 Open the app, walk through the tutorial, and you're ready to hit the road!





# Controls & Features

## Sensitivity (SEN)

The SEN button selects the ESCORT MAX Ci's radar sensitivity. The choices are:

**Highway** – Full sensitivity

**Auto** – Reduces X and K band sensitivity based on the speed of the vehicle

**AutoNoX** – Same as Auto but without X band detection

**AutoLoK** – Same as Auto but with lowered K band sensitivity at all times

## Power (PWR)

Press and hold to manually turn ESCORT MAX Ci on or off. If installed properly, the system will turn on or off automatically with the vehicle's ignition.

## Volume Button (VOL)

Press and hold the VOL button to adjust the alert volume level. The audio will ramp up or down accompanied by a bar-graph on the display. To change the direction of the audio ramping simply release the VOL button and quickly press and hold it again.

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

## Control Module



## Mute Button (Mute)

The Mute button has several functions depending on the scenario:

- Press to mute the audio for a specific alert.
- Press three times to lock out a false alert.
- Press twice while receiving a grey locked-out alert to unlock it.
- Press twice while Laser Shifting to put the sensors into receive-only mode for one minute. Laser Shifting must first be enabled, see Settings & Preferences.
- When connected to ESCORT Live press and hold mute button to manually report to other users a verified X or K-band alert, or a police officer observing traffic.

## Mark Location Button (MRK)

The “MRK” button allows you to mark a specific location and label it for future reference. Once marked, the ESCORT MAX Ci 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.

## 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.

## Over Speed/Speed Limit

Over Speed Alert setting that can be adjusted in Preferences. Displays Bluetooth icon when paired to phone.



## Concealed Alert Indicator

- Multi-color indicator is:
  - Solid Green when power is ON
  - Blinking red when receiving a front alert
  - Blinking blue when receiving a rear alert (only with optional rear radar receiver)

## Radar/Laser Quick Disable

To disable radar and laser alerts press and hold the MUTE and MRK buttons until “Are you sure?” is displayed. Pressing MUTE again disables radar and laser alerts. The scanning bar on the pilot screen will stop scanning when detection is disabled. To enable radar and laser alerts, reset the system to factory default settings by holding down the MRK and BRT buttons while turning the power on.

*Note: with radar and laser alerts disabled, you will continue to receive GPS location based alerts.*

## Display Module

### Current Speed

Shows current display or battery voltage when Speed Display is turned off in Preferences



### Alert Area

ESCORT MAX Ci offers seven different settings for displaying front and rear alerts.

### Threat-Direction Arrows

Reports the direction an alert is coming from. (only with optional rear radar receiver)

# Settings & Preferences – Overview

## How To Use Preferences

To access the Preferences menu, press and hold both the SEN and MUTE buttons. ESCORT MAX Ci will display “Preferences,” indicating that it is in program mode.

Once in Preferences mode, the SEN button is used to review the preference categories, and the Up and Down buttons are used to change the individual settings within the selected category.

To exit the Preferences menu, press the power button or simply wait a few seconds without pressing any button. A “Completed” message will display, confirming your selection(s). To restore ESCORT MAX Ci to its original factory settings, press and hold MRK and BRT while turning the power on. A Restored message will display, acknowledging the reset.

*NOTE: Selecting Language during the first start up will automatically select radar and laser band defaults for that market.*

Press SEN to go from one category to the next		Press Up or Down to change your setting within a category
User Mode	<b>Advanced*</b> <b>Novice</b>	Access and customize all Settings and Preferences Access and customize units and display color, (all other Settings are set to factory defaults) <i>NOTE: Switch to Advance mode to view all Preferences</i>
Pilot Mode	<b>Scanning*</b> <b>Full Word</b>	Scanning Bar with Full Word Full Word: Highway, Auto, AutoNoX, or AutoLoK
Arrow Mode (only with optional rear receiver)	<b>Single*</b> <b>Multiple</b>	Displays a single threat-direction arrow only for the primary alert Displays threat-direction arrows for multiple alerts
	<b>Band</b>	Displays color-coded threat-direction arrows for multiple alert bands X band=green, K band=blue, Ka band/Laser=red
Display Color	<b>Blue* / Green / Red / Amber</b>	Set color to match your vehicle's dash instrumentation
Speed Display	<b>On*</b> <b>Off</b>	Displays current speed Displays battery voltage
Cruise Alert	<b>Off / 20-160 KPH</b> <b>30 KPH*</b>	Offers double beep alert tones below specified speed.
Over Speed	<b>Off / 20-160 KPH</b> <b>110 KPH*</b>	Reminds you when you exceed a specified speed up to 160 KPH
Meter Mode	<b>Standard*</b> <b>Spec</b>	Displays primary alert band with signal strength bar graph Displays primary alert band with numeric frequency and signal strength bar graph
	<b>Expert</b> <b>Simple</b>	Displays up to four alert bands with signal strength bar graphs for each Simple messages replace alert band and signal strength bar graph <b>Caution</b> (if traveling below Cruise Alert limit) <b>Slow Down</b> (if traveling above Cruise Alert limit)

Meter Mode (with optional rear receiver)	<b>Standard</b> <b>Standard FR1*</b> <b>Standard FR2</b>	Displays primary alert band with front signal strength bar graph Displays primary alert band with front and rear signal strength bar graphs Displays primary and secondary alert bands with front and rear signal strength bar graphs
	<b>Spec FR1</b>	Displays primary alert band with numeric frequency and front and rear signal strength bar graphs
	<b>Spec FR2</b>	Displays primary alert band with numeric frequency, secondary alert band, and front and rear signal strength bar graphs
	<b>Expert FR</b>	Displays up to four alert bands with front and rear signal strength bar graphs for each
	<b>Simple</b>	Simple messages replace alert band and signal strength bar graphs: <b>Caution</b> (if traveling below cruise alert limit) <b>Slow Down</b> (if traveling above cruise alert limit)
Tones	<b>Standard*</b> <b>Standard+</b> <b>Mild</b>	Standard ESCORT alert tones Standard ESCORT alert tones for primary alert and double-beep tones for additional alerts Mild doorbell chime alert tones
AutoMute	<b>Low/Med*/High/Off</b>	Automatically reduces audio to preferred volume during alert
AutoLearn	<b>On/Off*</b>	Automatically stores and locks out false alarms
Units	<b>English/Metric*</b>	Units for distance and speed
Language	<b>English* / Espanol</b>	Language for voice and text
Voice	<b>On* / Off</b>	Voice announcements
GPS Filter	<b>On* / Off</b>	Enables GPS-powered features
AutoPower	<b>Off</b> <b>1 Hour</b> <b>2 Hours</b> <b>3 Hours</b> <b>4 Hours*</b> <b>8 Hours</b>	When installed to a switch power supply, powers off with the vehicle's ignition Powers off automatically after 1 hour Powers off automatically after 2 hours Powers off automatically after 3 hours Powers off automatically after 4 hours Powers off automatically after 8 hours

*NOTE: AutoPower only works with constant power-ignition. If AutoPower is on, the display screen goes blank after 30 minutes to save screen life. Display screen will turn on automatically after you reach 10 mph.*

# Settings & Preferences - Overview

**Press MUTE to go from one category to the next**

X Band	<b>On / Off*</b>
K Band	<b>On* / Off</b>
K1	<b>On* / Off</b>
K2	<b>On* / Off</b>
K3	<b>On* / Off</b>
K4	<b>On* / Off</b>
Strelka	<b>On / Off*</b>
MultaRadar CD	<b>On* / Off</b>
MultaRadar CT	<b>On* / Off</b>
Gatso	<b>On* / Off</b>
Ka Band	<b>On* / Off</b>
KaN1	<b>On / Off*</b>
KaN2	<b>On / Off*</b>
KaN3	<b>On* / Off</b>
KaN4	<b>On* / Off</b>
KaN5	<b>On* / Off</b>
Laser	<b>On* / Off</b>

**Press Up or Down to change your setting within a category**

X Freq: 10.475 - 10.575 GHz		
Freq: 23.950 - 24.250 GHz includes Iskra 1/2 and K Pulse		
<i>NOTE: When K Band is off you can select separate segments of the band to turn on or off.</i>		
Freq: 24.050 - 24.110 GHz		
Freq: 24.110 - 24.175 GHz		
Freq: 24.175 - 24.250 GHz		
Freq: 23.950 - 24.050 GHz		
Strelka detection		
MultaRadar CD detection		
MultaRadar CT detection		
Gatso detection		
Freq: 33.400-36.000 GHz		
<i>NOTE: When Ka Band is off, you can select separate segments of the band to turn on or off.</i>		
Freq: 33.400 - 33.700 GHz	KaN6	<b>On / Off*</b> Freq: 34.800 - 35.160 GHz
Freq: 33.700 - 33.900 GHz	KaN7	<b>On / Off*</b> Freq: 35.160 - 35.400 GHz
Freq: 33.900 - 34.200 GHz	KaN8	<b>On* / Off</b> Freq: 35.400 - 35.600 GHz
Freq: 34.200 - 34.600 GHz	KaN9	<b>On / Off*</b> Freq: 35.600 - 35.840 GHz
Freq: 34.600 - 34.800 GHz	KaN10	<b>On / Off*</b> Freq: 35.840 - 36.000 GHz
Detects PoliScan, DragonEye, TruCAM, and Amata		

Shifters **Receive\*/Shift/Off** Select the mode used by all shifters.  
Receive = receive-only mode

Marker Enables **Default\*** Default settings  
**Modified** Band Enables have been modified from their default settings

**Press MUTE to go from one category to the next**

Other	<b>On* / Off</b>
Redlight	<b>On* / Off</b>
Red & Speed	<b>On* / Off</b>
Speed Camera	<b>On* / Off</b>
Speed Trap	<b>On* / Off</b>
Avg Speed Cam	<b>On* / Off</b>
HOV Lane	<b>On* / Off</b>

**Press Up or Down to change your setting within a category**

Other location
Red light camera
Red light & speed camera
Speed camera
Speed trap
Average speed camera
High occupancy vehicle lane camera

Clear Locations **Marked** Clear all user-marked locations. Press MUTE button to confirm  
**Lockouts** Clear all lockouts. Press MUTE button to confirm  
**Defender** Clear all DEFENDER Database data. Press MUTE button to confirm  
**Format** Clear DEFENDER Database, all markers, and all lockouts.  
Press MUTE button to confirm

\*Default Setting

# Settings & Preferences

## User Mode

ESCORT MAX Ci offers two unique user modes:

### Advanced

In Advanced mode you can access and customize all settings and preferences.

### Novice

In this mode, you can only access and customize units (English or metric) and display color. All other preferences are set to the factory defaults. To view all settings and preferences, you must switch to Advanced mode.

## Pilot Mode

You can select the pilot mode power-on indication of the unit. **Scanning Bar** shows an animated scanning bar along with the selected sensitivity mode. **Full Word** only displays the selected sensitivity mode.

## Arrow Mode

(only available with optional rear radar receiver)

With the rear radar receiver, MAX Ci 360 offers three arrow modes for threat direction reporting.

- **Arrow Mode: Single**

In Single arrow mode, arrows are displayed indicating the direction of only the primary threat.

- **Arrow Mode: Multiple**

In Multiple arrow mode, threat-direction arrows are displayed for multiple threats. When multiple threats are displayed, the direction arrow of the primary threat will blink.

- **Arrow Mode: Band**

In Band arrow mode, the threat-direction arrows for multiple threats are color-coded for the band that is being detected. When multiple threats are displayed, the direction arrow of the primary threat will blink.

X band = **green**, K band = **blue**, Ka band and Laser = **red**

## Display Color

Your detector screen can be displayed with blue, green, red or amber accents to match the dashboard lighting of various vehicles.



## Speed Display

ESCORT MAX Ci displays your current speed just to the right of the Over Speed Alert setting. If speed display is OFF, your battery voltage will be displayed in this location.

Speed display ON:  
Current speed



Speed display OFF:  
Battery voltage



## Cruise Alert

While you are traveling below the specified Cruise Alert speed, all alerts will only sound a short double-beep. The alert will fully sound when you exceed the Cruise Alert speed. The factory default setting is 30 kph.

# Settings & Preferences

## Over Speed Alert

You can set the Over Speed alert to notify you when you are traveling over a specified speed. When you travel above the speed threshold that you have set, the background display for your current speed will turn red and a voice prompt will announce that you have exceeded the set Over Speed limit. When using Escort Live with the ESCORT MAX Ci, the Over Speed setting is automatically set to the speed limit showing on the display. The factory default setting is 110 kph.

## Meter Mode

ESCORT MAX Ci offers seven different settings for displaying information about alerts. Standard is the factory default meter mode setting.

### Standard



The Standard meter mode provides only the band information and signal strength information of a single alert. When radar is detected, the band (X, K or Ka) and a bar graph of the signal's strength are displayed. When laser is detected, the display will simply read "Laser." If there are multiple alerts present, only the highest priority threat is displayed. Laser is the highest priority threat, followed by Ka, K, then X band radar.

### SpecDisplay



The SpecDisplay option is an advanced display for experienced detector users. In this mode, it will display the actual numeric radar frequency being received. Even long-time detector users will require some time to get familiar with this new level of information about detected signals. To use SpecDisplay instead of the Standard bar graph meter, select Spec in Preferences.

## ExpertMeter



ESCORT's exclusive ExpertMeter option is also designed for the advanced detector user. In this mode, ESCORT MAX Ci simultaneously tracks up to four radar signals. It shows each band along with a bar graph of its signal strength. In the image above, a Ka band, K band and two X bands are being detected with the greyed out X band being a locked out false. ExpertMeter can help you spot a change in your normal driving environment (e.g., a traffic radar unit being operated in an area where there are normally other signals present).

### Simple



Simple messages replace actual bands and signal strengths or frequencies. "Caution" is used when an alert is received while you are traveling below your current Cruise Alert setting. "Slow Down" is displayed when an alert is received while you are traveling above the current Cruise Alert setting.

## Meter Modes

(these modes are only available with optional rear radar receiver)

### Standard FR1



The Standard FR1 meter mode (FR1 = Front and Rear signal strengths of 1 signal) displays the band of the highest priority threat along with front and rear signal strength bar graphs. The left bar graph shows the signal strength in front of the detector while the right bar graph shows the signal strength from behind. If there are multiple alerts present, only the signal strength of the highest priority threat is displayed. Laser is the highest priority threat, followed by Ka, K, then X band radar. The number in between the bar graphs is the total number of alerts that are being detected.

### Standard FR2



The Standard FR2 meter mode (FR2 = Front and Rear signal strengths of 2 signals) displays the bands of the two highest priority threats along with front and rear signal strength bar graphs. The left bar graph shows the signal strength in front of the detector while the right bar graph shows the signal strength from behind. When using this meter mode, the rear signal strength bar graph is always the opposite color of the selected display color. For instance, if blue is the display color, then the rear bar graph will be red. If there are multiple alerts present, only the signal strength of the two highest priority threats is displayed. Laser is the highest priority threat, followed by Ka, K, then X band radar. The number in between the bar graphs is the total number of alerts that are being detected.

*NOTE: When using Band arrow mode, the rear bar graph will use the selected display color.*

## Spec FR1



The Spec FR1 meter mode (FR1 = Front and Rear signal strengths of 1 signal) displays the numeric frequency and band of the highest priority threat along with front and rear signal strength bar graphs. The left bar graph shows the signal strength in front of the detector while the right bar graph shows the signal strength from behind. If there are multiple alerts present, only the signal strength of the highest priority threat is displayed. Laser is the highest priority threat, followed by Ka, K, then X band radar. The number in between the bar graphs is the total number of alerts that are being detected.



# Settings & Preferences

## Spec FR2



The Spec FR2 meter mode (FR2 = Front and Rear signal strengths of 2 signals) displays the numeric frequency of the highest priority threat and the bands of the two highest priority threats along with front and rear signal strength bar graphs. The left bar graph shows the signal in front of the detector while the right bar graph shows the signal strength from behind. When using this meter mode, the rear signal strength bar graph is always the opposite color of the selected display color. For instance, if blue is the display color, then the rear bar graph will be red. If there are multiple alerts present, only the signal strength of the two highest priority threats is displayed. Laser is the highest priority threat, followed by Ka, K, then X band radar. The number in between the bar graphs is the total number of alerts that are being detected.

*NOTE: When using Band arrow mode, the rear bar graph will use the selected display color.*

## Expert FR



Expert FR meter mode (FR = Front and Rear signal strengths) simultaneously tracks up to four radar alerts displaying each alert's band along with front and rear signal strength bar graphs. When using this meter mode, the rear signal strength bar graph is always the opposite color of the selected display color. In the above image, a Ka band, two K bands, and an X band signal are being detected. The X band alert is grey to show that it is a locked out false alert. For more information about locking out false alerts see the GPS Filtering/TrueLock section. Expert FR meter mode can help you spot a change in your normal driving environment (e.g., a traffic radar unit being operated in an area where there are normally other signals present).

## Alert Tones

### Standard

The factory default Standard alert tones uses a Geiger counter-type sound to indicate the signal strength and type of radar signal being encountered. When you encounter radar, a distinct audible alert will sound and will increase as the signal gets stronger. This allows you to judge the distance from the signal source without taking your eyes off of the road. Each band has a distinct tone for easy identification:

X band = beep tone

K band = brap tone

Ka band = double-brap tone

Laser = solid brap tone

Pop = solid brap tone

### Standard Plus

Features the Standard alert tones outlined above for the primary alert, plus double-beep tones for additional alerts.

### Mild

Mild alert tones offer softer, simpler alert tones that are less obtrusive to the driving experience:

- X band, K band, Ka band and POP = Doorbell chime
- Low signal strength = Double chime
- High signal strength = Triple chime
- If alert remains in area more than 15 seconds = Single chime (as a reminder)
- Laser = Solid brap tone

Since laser signals are a possible threat no matter how weak, laser alerts are always full strength.

## AutoMute

Your ESCORT MAX Ci also includes ESCORT's patented AutoMute feature. Once ESCORT MAX Ci alerts you to a radar encounter at your selected volume level, it automatically reduces the volume to the selected AutoMute level. This keeps you informed without the annoyance of a continuous full-volume alert. If you prefer, you can turn the AutoMute feature off.

## AutoLearn

The AutoLearn feature analyzes (over time) the source of radar signals by location and frequency. This allows ESCORT MAX Ci to determine if a fixed location signal is a real threat or a false one. If it determines that the signal is an automatic door opener, motion sensor, etc., it automatically locks out this source at this particular location. A "Stored" message will appear on the display when a signal has been automatically locked out. AutoLearn typically needs to encounter the exact frequency in the same location approximately three times to lock it out. Since some door openers are turned on and off routinely, some variations may occur. ESCORT MAX Ci will also unlearn signals to protect you from locking out real threats. If a particular signal is no longer present at a location that was previously locked out, ESCORT MAX Ci will unlock that signal. If you prefer, you can turn the AutoLearn feature off.

## GPS Filter/TrueLock

ESCORT MAX Ci is equipped with a TrueLock GPS Filter to store and lock out, or ignore, fixed location false alerts in its memory. Common sources of fixed location false alerts are storefront automatic door openers and motion sensors. The TrueLock GPS Filter will not lock out moving false alerts that are commonly caused by vehicle's blind spot monitoring and collision avoidance systems.

# Settings & Preferences

## GPS Filter/TrueLock *continued*

### Locking Out False Alerts

To manually lock out a fixed location false alert (X band, K band or laser only), press the MUTE button three times during an alert. Pressing the first time will silence the audio. Pressing a second time will generate a prompt on the display that will read "Lockout?" Press a third time to confirm you want to lock this signal out by location and frequency. A "Stored" message will be displayed. Once a signal has been stored, ESCORT MAX Ci will not audibly alert the next time you approach this area but will display the locked-out alert in grey.

Locked Out Alert



To unlock a signal that has already been stored, simply press the MUTE button twice while receiving the locked out alert. The display will read "Unlock?" when pressing MUTE the first time. Press the MUTE button again to unlock it from memory. The display will read "Unlocked" to confirm your action.

*Note: When the GPS Filter is set to OFF, you do not have access to ESCORT MAX Ci's other GPS-enabled features (e.g., Defender Database alerts, marking locations, etc.).*

## AutoPower

This feature automatically turns off ESCORT MAX Ci after a set period of time to save unnecessary drain on your battery. This is especially useful if your vehicle has a constant-power ignition. To turn ESCORT MAX Ci on again you must press the power button.

*Note: If AutoPower is on, to save screen life the display screen goes blank after 30 minutes without moving. The display screen will turn on automatically after you reach 10MPH.*

## Band Enables

*NOTE: Selecting Language during the first start up will automatically select radar and laser band defaults for that market.*

In the factory default setting the suggested radar and laser bands are monitored and sources of some common false alerts are rejected. It is highly recommended that you use your ESCORT MAX Ci in this mode.

If you modify Band Enables then this setting will show Modified. The ESCORT MAX Ci will also notify you during the startup sequence with an audible alert, and associated text message stating which bands have changed from the factory default settings.

*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.*











## Marker Enables

In the factory default setting, the suggested fixed location alerts are reported. It is highly recommended that you use your ESCORT MAX Ci in this mode.

If you modify Marker Enables then this setting will show Modified and only the Markers that you have selected are reported.

## Marking Locations

The MRK button allows you to mark a specific location and label it for future reference. Once marked, ESCORT MAX Ci will provide an alert when you reach this area again.

Red light camera	70 OSP	45		500 FT	
Red light & speed camera	70 OSP	45		500 FT	
Speed camera	70 OSP	45		500 FT	
Speed trap	70 OSP	45		500 FT	
Other	70 OSP	45		500 FT	

To mark a location, press the MRK button. The display will read "Mark?" Press MRK again to bring up a menu of markers to choose from.

Repeatedly press MUTE to scroll through the markers then press MRK to select the marker that you wish to use at this location. The display will read "Marked!"

Average Speed cameras and HOV Lane locations cannot be marked by the user.

*Note: When a location is marked the first time, you must travel at least 1 mile away from that location to receive an alert when you return to the area.*

To unmark a location, touch the MRK button when you are receiving a marked-location alert. The display will read "Unmark?" Touch the MRK button again to confirm. The display will read "Unmarked!"

## Clear Locations

At some point, you may wish to clear some of the data in ESCORT MAX Ci's database. This may include any of the following: Defender Database data, Marked locations or false alert Lockouts. To clear all data in ESCORT MAX Ci's database. select Format then press MUTE to confirm .

## Restore factory Settings

To restore ESCORT MAX Ci to it's original factory settings, press and hold MRK and BRT while turning the power on. A Restored message will display, acknowledging the reset.

## Serial Number and Software Version

To view your ESCORT MAX Ci's serial number and software revision, press and hold the MRK and SEN buttons while powering on the detector.

# Understanding Your Detector

Although the ESCORT MAX Ci 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 detector 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 detector warning system for radar, laser and safety alerts.

## Alert

## Explanation

Detector begins to sound slowly; rate of alert increases until it becomes a solid tone. The signal meter ramps accordingly.

You are approaching a continuous radar source aimed in your direction.

Detector emits short alerts for a few seconds 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.

Detector suddenly sounds a continuous tone for the appropriate band received.

An instant-on radar or laser source is being used nearby. This kind of alert requires immediate attention.

Detector sends 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.

Detector receives weak signals. Signals may be a little stronger as you pass large, roadside objects. 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.

Detector alerts slowly for a while then abruptly jumps to a strong alert.

You are approaching a radar unit concealed by a hill or an obstructed curve.

## Alert

## Explanation

Detector alerts intermittently. Rate and strength of alerts may be consistent or vary wildly.

A patrol car is traveling 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.

Detector alerts intermittently; rate and strength of signal increases with each alert.

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

Detector gives an X band alert intermittently.

You are driving through an area populated with radar motion sensors (e.g., door openers or burglar alarms). 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: Overconfidence 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.*

# Understanding Your Detector

## 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 detector 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 device's radar detection abilities are fully operational.

## How Laser (Lidar) Works

Laser speed detection is actually light detection and ranging (LIDAR). Laser guns project a beam of invisible infrared light. The signal is a series of very short infrared light energy pulses that move in a straight line, reflecting off your car and returning to the gun. Laser 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.

Laser is a newer technology whose use is not as widespread as conventional radar; therefore, you may not encounter it on a daily basis. And unlike radar detection, laser is not prone to false alarms. Because laser 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 laser, however. Laser is much more sensitive to weather conditions than radar, and a laser gun's range will be decreased by anything affecting visibility, such as rain, fog or smoke. A laser gun cannot operate through glass, and it must be stationary to get an accurate reading. Because laser must have a clear line of sight and is subject to cosine error (an inaccuracy that increases as the angle between the gun and the vehicle increases), police typically use laser equipment parallel to the road or from an overpass. Laser can be used day or night.

## 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

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 ESCORT MAX Ci 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 ESCORT MAX Ci 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 ESCORT MAX Ci offers adjustable brightness, including a full dark mode which will provide audio alerts, but no visual indication.





# Troubleshooting

<b>Problem</b>	<b>Solution</b>
Detector beeps briefly at the same location every day, but no radar source is in sight.	A motion sensor or intrusion alarm is located within range of your route. If you have AutoLearn enabled, the factory default setting, then ESCORT MAX Ci will store this signal after about 3 passes and no longer alert to it.
Detector did not alert when a police car was in view.	Officer may not have radar or laser unit turned on. VASCAR (Visual Average Speed Computer and Recorder), a stopwatch method of speed detection, may be in use.
Detector's audible alerts become softer after the first few alerts.	Detector is in AutoMute mode. See "AutoMute" in the Settings & Preferences section for details.
The power-on sequence reoccurs while you are driving.	A loose power connection can cause ESCORT MAX Ci to be briefly disconnected and will retrigger the power-on sequence. Check all connections.
You wish to restore the factory default settings.	Press and hold the MRK and BRT buttons while powering on the detector. A "Factory Settings Restored" message will display, acknowledging the reset.
The device will not turn on.	Check that vehicle ignition is on.
The display is blank.	ESCORT MAX Ci is in Dark mode. Press the BRT button to adjust the brightness.
Detector displays "Check FR"	There is a communication issue with the Front Receiver (FR). The Front Receiver's connections and wiring should be checked. If no connection or wiring issue is found and the message persists there may be an issue with the component.
Detector displays "Replace FR"	A critical issue has been reported from the Front Receiver (FR) requiring it to be replaced or repaired.

## Service Procedure

*If your ESCORT MAX Ci 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<sup>®</sup>**  
**MAX Ci**  
**INTERNATIONAL**