

**BELTRONICS®**  
—PERFORMANCE RULES.™

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—PERFORMANCE RULES.™



Owner's Manual

***GX65***  
*Professional Series*

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BELTRONICS Pro GX65

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***GX65***  
*Professional Series*

RADAR / LASER / SAFETY CAMERA / DETECTOR

## Congratulations

You've just purchased the most sophisticated radar and laser detector in the world—the BELTRONICS Pro GX65.

The GX65 delivers the best long-range warning on all radar bands including X, K, Superwide Ka, Ku and instant-on POP. Multiple front and rear laser sensors provide 360 degree laser protection, including the widest field of view.

For the ultimate in Laser protection, the BELTRONICS Pro GX65 can also be used in conjunction with our Laser Shifter product. Visit our website at [beltronics.com](http://beltronics.com) or call us toll-free at 800.341.2288 for more details.

The BELTRONICS Pro GX65's GPS-powered technology provides permanent relief from false alarms including automatic door openers, motion sensors and other radar-based sensors. And, it comes pre-loaded with thousands of red light and fixed position speed camera locations throughout North America. Data for additional countries are also available. Call or visit our web site for details.

In addition, the Pro GX65 introduces the following state-of-the-art performance and features:

- New web-ready access allows you to update your safety camera data and other software through our website.
- Revolutionary AutoScan mode provides real-time radar performance based on vehicle speed, plus Highway and AutoNoX settings.

- SpeedCheck feature provides an instant view of your vehicle's speed during an alert.
- Mark Location feature allows you to instantly "Mark" known speed traps, cameras and other places of interest.
- Easy-to-use Programming allows you to customize up to 8 features.
- Ultra-bright alphanumeric display with 280 LEDs.
- Exclusive Threat Display tracks multiple radar signals and their relative signal strength.
- Exclusive Tech Display provides actual numeric frequency for any radar signal.
- Selectable radar and laser bands (on/off) allow you to customize which bands are monitored.
- Selectable Markers (on/off) allow you to customize which Markers are monitored.
- Includes exclusive SmartPlug for easy access to Mute and AlertLock features.

If you've used a radar detector before, a review of the Quick Reference Guide on pages 4 and 5, and the Programming information on pages 14-18 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 BELTRONICS' revolutionary performance and innovative features.

Please drive safely.



## Quick Reference Card

▼ Remove card along perforations ▼

### BELTRONICS Pro GX65 Quick Reference Card

There are 8 user-selectable options so you can customize your Pro GX65 for your own Programming.

The buttons labeled "MRK" and "BRT" are also used to enter the Programming Mode, REVIEW your current Programming settings, and to CHANGE any settings as desired. The words "PGM," "MRK" and "BRT" are located on the top of the detector.

#### How to use EZ-Programming

- 1 To enter Programming, press and hold the "MRK" and "BRT" buttons down for 2 seconds.** The unit will beep twice, and display the word **Program**.
- 2 Then press the "BRT" button to review the categories.** You can either tap the button to change categories, or simply hold the button down to scroll through the categories.
- 3 Press the "MRK" 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 exit Programming, simply wait 8 seconds without pressing any button, or press the power button.** The unit will display **Complete**, beep and return to normal operation.

#### Restoring the Factory Default Settings

To restore your GX65 to its original factory settings, press and hold the "SEN" and "BRT" buttons while turning the power on. A **Reset** message will be displayed, accompanied by an audible alert, acknowledging the reset.

#### An example:

Here is how you would turn GX65's AutoMute feature off:

- 1** Enter Programming by holding both the "MRK" and "BRT" buttons down for 2 seconds. GX65 will beep and display **Program**.
- 2** Then hold the "BRT" button down. The GX65 will scroll through the categories, starting with **Pilot (Pilot)**, then **SpeedCheck (Spdck)**, then **Signal Strength Meter (Meter)**, then **AutoMute (aMute)**.
- 3** Release the "BRT" button when the GX65 displays the **AutoMute** item. Since the factory setting is for **AutoMute to be on**, GX65 will display **aMute ON**.

*Note: If you accidentally don't release the "MRK" button in time, and the GX65 goes to the next category, simply hold the "MRK" button down again, the GX65 will scroll through all of the categories. Once you're back to your desired category, release the "MRK" button.*

- 4** Press the "MRK" button to change from **aMute ON** to **aMute OFF**.
- 5** To exit Programming, simply wait 8 seconds without pressing any buttons, or press the power button. The GX65 will display **Complete**, beep and return to normal operation.

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Programming Details ▶

## Quick Reference Card



▼ Remove card along perforations ▼

### BELTRONICS Pro GX65 Quick Reference Card

<p><b>Press the BRT button to go from one category to the next</b></p>	<p><b>Press the MRK button to change your setting within a category</b></p>
<p>PILOT LIGHT (Power-on indication)</p>	<p>Pilot HWY * Full word: Highway or AutoScan                  Pilot H Letter: H or A or ANX                  Pilot V Vehicle voltage                  Pilot SPD Vehicle speed</p>
<p>SPEEDCHECK</p>	<p>Spdck ON * Displays current speed during alert                  Spdck OFF SpeedCheck feature off</p>
<p>SIGNAL STRENGTH METER</p>	<p>Meter STD * Standard signal strength meter                  Meter THT Threat Display mode                  Meter TEC Tech Display mode</p>
<p>AUTOMUTE</p>	<p>aMute ON * Automatically reduces audio in alert                  aMute OFF AutoMute feature is off</p>
<p>UNITS</p>	<p>Units ENG * Speed/distance in English units                  Units MET Speed/distance in Metric units</p>
<p>VOICE</p>	<p>Voice ON * Voice announcements on                  Voice OFF Voice announcements off</p>
<p>BANDS</p>	<p>Bands DFT * Default settings                  Bands MOD Bands have been modified</p>
	<p>Turn bands on/off by pressing the mute button</p>
	<p>X ON or OFF (default is on)                  Ku ON or OFF (default is off)                  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 ON or OFF (default is on)</p>
<p>MARKERS</p>	<p>Markers DFT                  Markers MOD</p>
	<p>rCam ON or OFF (default is on)                  sCam ON or OFF (default is on)                  sTrap ON or OFF (default is on)                  Other ON or OFF (default is on)</p>

▼ Remove card along perforations ▼

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\* Factory Default Settings

## Quick Reference Guide

### To begin using your GX65, just follow these simple steps:

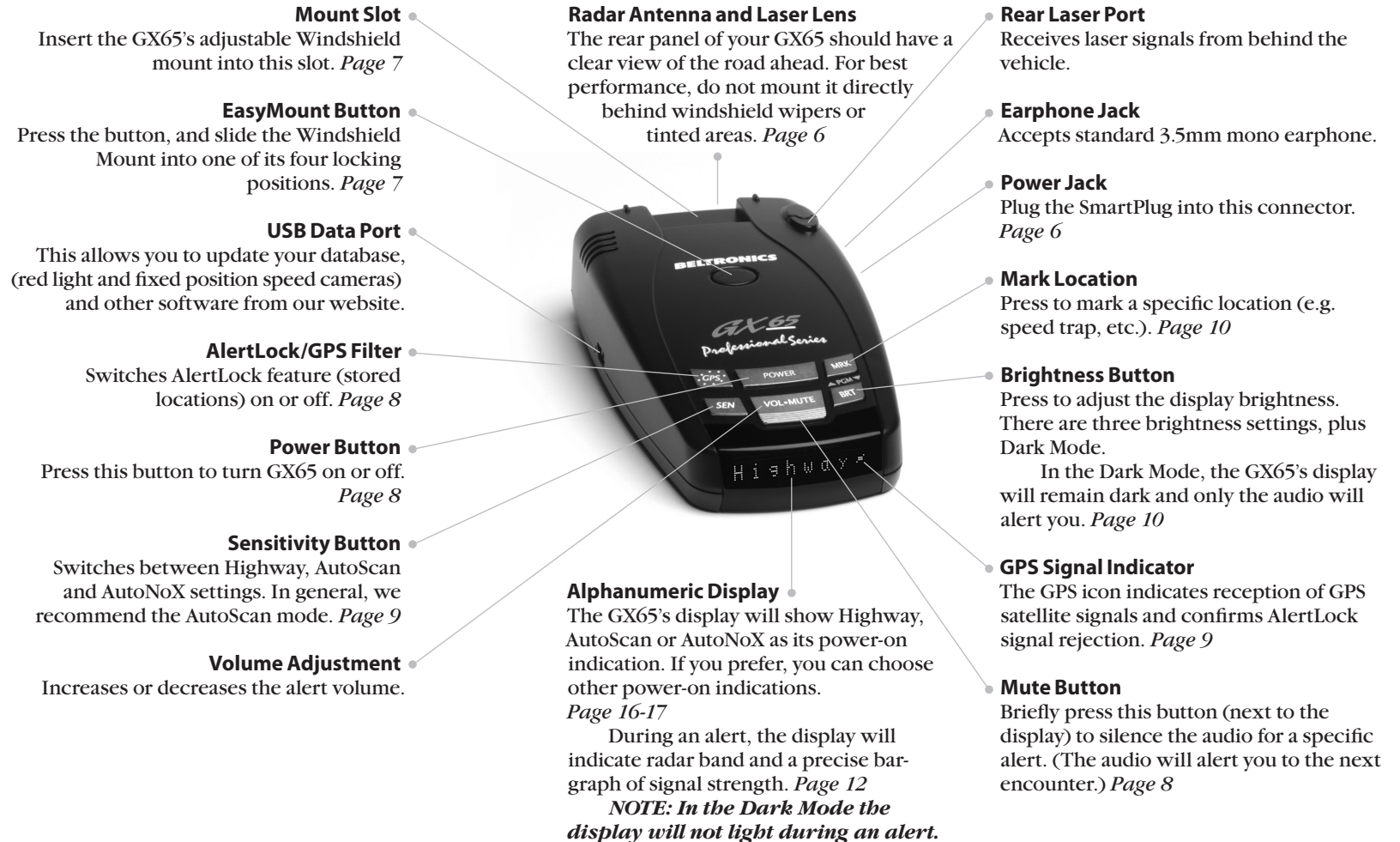
- 1 Plug the small end of the power cord into the side jack of the detector, and plug the large end of the power cord into your car's accessory socket.
- 2 Mount your GX65 on the windshield using the supplied windshield mount.
- 3 Press the power button, located on the top case.

Adjust the volume level by pressing and holding the "VOL•MUTE" button, also located on the top case.

Please read the manual to fully understand GX65's operation and features.

#### Programming

GX65 is ready to go, just plug it in and turn it on. But you can also easily change 8 features for your preferences. *Pages 14-18*



## Installation

### Power Connection

To power the GX65, plug the small end of the SmartPlug, (telephone-type connector) into the modular jack on the GX65's right side, and plug the lighter plug adapter into your vehicle's lighter socket or accessory socket.

The GX65 operates on 12 volts DC negative ground only. The lighter plug provided is a standard size and will work in most vehicles. However, some vehicles may require our optional sleeve to ensure a snug fit. If so, simply call or visit our website.

**NOTE: depending on your vehicle, the lighter socket power may either be continuously on, or it may be switched on and off with your ignition switch.**

### Optional power cords

Call or visit our website for our optional Direct-wire cords.

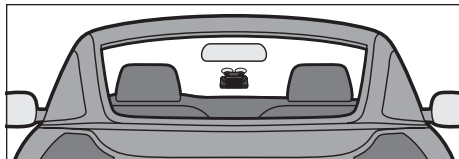
### Mounting Location

**WARNING: BELTRONICS cannot anticipate the many ways the GX65 can be mounted. It is important that you mount the GX65 where it will not impair your view or present a hazard in case of an accident.**

### Where to mount GX65

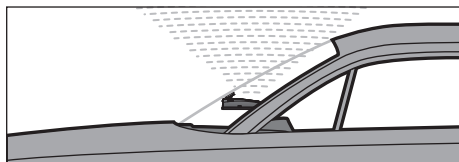
For optimum detection performance, we recommend the following:

- Using the supplied windshield mount, mount your GX65 level and high enough on your front windshield to provide a clear view of the road ahead. For optimum rear detection, center the detector between the driver and passenger.



- Mount the GX65 away from windshield wipers, other solid objects, and heavily tinted areas that might obstruct the radar antenna or laser lens.

**NOTE: In order for the GX65's GPS based features to work properly, the top case must have a clear view of the sky.**

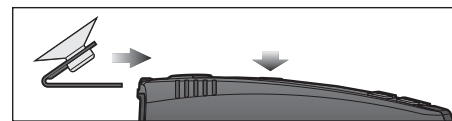


## Windshield Mount

### Windshield Mount

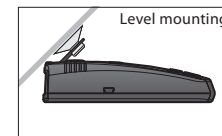
The GX65's windshield bracket is designed for unobtrusive and hassle-free mounting.

- 1 Depress the adjustment button on the top of the GX65 (by the word BELTRONICS) and slide the bracket into the slot until it is locked into the position which best fits the angle of your windshield (there are four settings available). For extremely horizontal or extremely sloped windshields, the bracket can also be bent to the correct angle. However, we suggest that you do not do this when the bracket is connected to the detector.

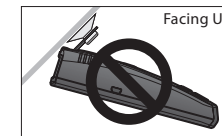
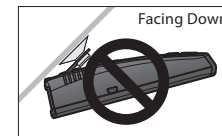


To ensure that the suction cups adhere to the windshield firmly, be sure to keep both your windshield and the suction cups clean.

- 2 To adjust the GX65 on your windshield, use the EasyMount adjustment button located on the top of the GX65, and slide GX65 forward or backward to obtain a level horizontal position.



When installed and adjusted properly, the back top edge of the GX65 should rest solidly against your windshield.



### User's Tip

You can leave the bracket in place on your windshield, and easily remove the GX65 by pressing the adjustment button and sliding it off the mount. Again, be sure to position the bracket where it won't present a hazard in the event of an accident.



### Power

To turn the GX65 on or off, press the power button on the top case. When you turn the GX65 on, it will provide a double beep tone, acknowledging it's ready.

### Volume Control (VOL)

To increase or decrease the audio volume, press and hold the VOL•MUTE button located on the top case. A sample alert tone will be generated, along with a corresponding bar-graph on the display. Once you have reached your desired volume level, simply release the button. This level will be stored in memory.

### Power-on Indication

After the GX65's start-up sequence is complete, the display will show the full word: Highway, AutoScan or AutoNoX to indicate which sensitivity mode it is in.

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

### Mute

The Mute button, located on the GX65's top panel and SmartPlug, allows you to silence the audio alert during a radar encounter. To mute the audio for a specific signal, briefly press the Mute button. After that radar encounter has passed, the mute will automatically reset and the audio will alert you to the next encounter.

### AutoMute

Your GX65's has our patented AutoMute feature. After the GX65 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 the AutoMute feature off. See the Programming section for details.

### AlertLock/GPS Filter

The "GPS" filter button turns the GX65's GPS-powered AlertLock feature on and off. (default is on)

To lockout a false alert, press the mute button (on the top case or on the SmartPlug) three (3) times during the alert. Pressing the mute button the first time will silence the audio. Pressing it a second time will generate a prompt on the display that will read: "Lockout?" Press it a third time to confirm that you want to lock this signal out by location and frequency. A "Stored" message will be displayed.

Once a signal has been stored, the detector will reject this signal the next time you approach this area. You will see confirmation of this by the GPS indicator spinning clockwise on the display, which confirms that the signal is being rejected.

To unlock a signal that has already been stored, simply press and hold the mute button while the GPS indicator is spinning. The display will read: "Unlock?" Press the mute button again to unlock it from memory.

### GPS Signal Indicator

The GPS signal indicator provides a visual indication that the GX65 is receiving satellite data.

***NOTE: Satellite reception is required to get the most out of your GX65. To receive satellite data, the top of the detector must have a clear view of the sky. See Mounting Location for more details.***

The GPS indicator will flash on and off until it receives satellite data. Once received, the icon will stop flashing and remain on the display.

The GPS indicator also provides a visual acknowledgement that the detector is rejecting a signal that has been stored in memory using the AlertLock feature. Once a false alarm has been stored, the GPS indicator will rotate clockwise, indicating that it is rejecting that signal.

### Sensitivity Switch (SEN)

The "SEN" button selects the GX65's sensitivity mode. We recommend the AutoScan mode for most driving.

In the AutoScan mode, the GX65 provides real-time radar performance based on your vehicle speed. As your vehicle speed increases, the radar sensitivity (X and K-band) is set to maximum range. As the vehicle speed decreases, the radar sensitivity (X and K-band only) is minimized to further reduce unwanted false alarms. Full sensitivity is maintained on all other bands.

You can also select conventional Highway and AutoNoX modes. Highway mode provides maximum sensitivity on all bands. AutoNoX is the same as AutoScan mode with X-band turned off.

### Brightness (BRT)

The GX65's BRT button selects the brightness of its display and keypad. There are five settings: Minimum (BRT MIN), Medium (BRT MED), Maximum (BRT MAX), Auto (BRT AUTO) and Full Dark (BRT DARK).

### Brightness (BRT AUTO) (default)

In this setting, the display and keypad brightness will automatically adjust based on the ambient light in the vehicle.

### BRT Dark (Full Dark Mode)

When you select the Dark mode with the BRT switch, the display will not show any visual alerts, (i.e. display or ) when the GX65 detects signals. Only the audible alert will tell you of detected signals.

In this mode, visual alerts can be seen on the SmartPlug in addition to the audio alerts on the detector.

### Mark Location (MRK)

The “MRK” button allows you to mark a specific location and label it for future reference. Once marked, the GX65 will provide an alert with an arrow indicating the direction of the location when you reach this area again. This can be extremely useful when there are known speed traps or camera locations that you would like to remember.

To mark a particular location, press the “MRK” button. The display will read: “Mark?” Press the “MRK” button again to assign a label to it. There are four (4) labels: Red Light, Speed Camera, Speed Trap and Other.

To scroll through the labels, simply press the Mute button until you reach the desired label. Once you’ve selected the label, press the “MRK” button again to confirm.

Once marked and assigned a label, the GX65 will provide the following alert distances:

- Red Light Cameras = 250' or 10 seconds
- Speed Cameras = 250' or 10 seconds
- Speed Traps = .5 mile below 55 mph or 1 mile above 55 mph
- Other = .5 mile below 55 mph or 1 mile above 55 mph

**NOTE: When a location is marked the first time, you must travel at least one mile away from it before it will alert you to it.**

To unmark a location, simply press the “MRK” button when you are receiving a “marked location” alert. The display will read “Unmark?” Press the “MRK” again to confirm. The display will read: “Unmarked.”

### Audible Alerts

#### **For Radar signals:**

When you encounter radar, a distinct audible alert will sound and occur faster, (Geiger-counter-like) as the signal gets stronger. This allows you to judge the distance from the signal source without taking your eyes from the road.

**NOTE: If your vehicle is moving less than 20 mph and you encounter a radar or laser signal, only a double-tone (specific to the type of signal) is used. However, the GX65's meter will keep you informed of the signal strength until it has passed or until you reach a speed above 20 mph.**

Each band has a distinct tone for easy identification:

- X-band = chirp tone
- K-band = buzzing tone
- Ka-band = double-chirp tone
- Ku-band = high pitched buzzing
- POP = same as Ka-band

#### **For Laser and POP signals:**

Since laser and POP signals are a possible threat no matter how weak, the GX65 will provide a solid audio alert for these signals.

### SmartPlug

The GX65's power jack uses a telephone-type connector. This 4-conductor connector only works with the coiled SmartPlug (included), or the optional Direct-wire SmartPlug.

The coiled SmartPlug is a special power cord that has a power-on indicator (which only lights up when the GX65 is turned on), a bright alert light that warns of radar or laser, and a convenient mute button right on the plug. It's perfect for any car where reaching the detector's mute button on the windshield is a stretch. For discreet night driving, you can put the GX65 in the Dark mode and use the SmartPlug for your visual alerts. Other drivers won't know you have a detector.

An optional Direct-wire SmartPlug is also available. This version includes a small display module which can be wired directly into your electrical system. This allows the GX65 to turn on and off with the ignition when connected to a switched power source.

For more information or to order, visit our website at [beltronics.com](http://beltronics.com) or call us toll-free at 800.341.2288.

### Speed Check

The GX65's Speed Check feature provides a visual indication of your vehicle speed during the first few seconds of an alert. This allows you to instantly check your speed without looking at your speedometer. Speed Check is displayed regardless of your meter setting.

**NOTE: When traveling 15 mph or less, your speed will not be displayed. If you prefer, you can turn the Speed Check feature off. See Programming for details.**

### Signal Strength Meter

The GX65's display provides an intuitive ultra-bright display of signal strength and text messages. The GX65's standard bar-graph meter provides information on a single radar signal. If there are multiple signals present, the GX65's internal computer will determine which one is the most important threat to display.

When the GX65 detects radar, it displays the band (X, K, Ka, or Ku), and a precise bar-graph of the signal strength. When a laser signal is detected, the display will read "LASER."

**NOTE: If you are operating GX65 in the Dark mode, the display will not light when a signal is detected—only the audio and the flashing alert lamp on the SmartPlug.**

### Threat Display

The GX65's Threat Display option is an advanced display for experienced detector users. Please use the GX65 for a few weeks to get familiar with its other features before using Threat Display.

To use the Threat Display instead of the bar graph signal strength meter, you must select "THT" in the GX65's Programming (see pages 14-17).

The GX65's Threat Display tracks detailed information on multiple radar signals and their signal strength.

Threat Display 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 Threat Display is actually a miniature spectrum analyzer. It shows what band each signal is on and its relative signal strength.

A black rectangular display showing the text "Ka9 K2 X1" in a white, monospaced font. The "Ka9" is on the left, "K2" is in the middle, and "X1" is on the right.

*Above is the Threat Display display if the GX65 was detecting a strong Ka-band, a weak K-band, and a weak X-band signal.*

As you can see, there are numeric values indicating the signal strength for each band.

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

A black rectangular display showing the text "K9 X1" in a white, monospaced font. "K9" is on the left and "X1" is on the right.

*Here Threat Display shows a strong K-band signal, and a weak X-band signal.*

A black rectangular display showing the text "Ka1 X9" in a white, monospaced font. "Ka1" is on the left and "X9" is on the right.

*Here Threat Display shows a weak Ka-band signal, and a strong X-band signal.*

#### Threat Display Details

The band designators (X, K, Ka) will stay on the display for a few seconds after the signal has passed. This allows you to see what the unit detected, even on very brief signals.

### Tech Display

The GX65's Tech Display option is also for the experienced detector user. In this mode, the GX65 will display the actual numeric frequency of the radar signal being received.

A black rectangular display showing the text "K 24.150" in a white, monospaced font. "K" is on the left, followed by a space, and "24.150" is on the right.

*Here Tech Display shows one K-band signal at 24.150 gigahertz.*

**NOTE: Even long-time detector users will require some amount of time to get familiar with this new level of information about detected signals.**

### Clearing The Database

At some point you may want to clear all of the data in the GX65's database. This includes everything in the database including all markers and your AlertLock locations. In order to do this, simply press and hold the "SEN", "BRT" and "MUTE" buttons while powering the GX65 on. Once the "Erase?" message appears, confirm by pressing the GPS button.



## How to use Programming

There are 8 user-selectable Programming options so you can customize your GX65 for your specific driving needs. The buttons labeled “MRK” and “BRT” are also used to enter Programming, REVIEW your current settings, and to CHANGE any settings as desired. The word PGM is located on the top of the detector, and is highlighted in colored graphics. Pages 16-18 explain each option in more detail.

### How to use Programming

**1 To enter Programming, press and hold the “MRK” and “BRT” buttons down for 2 seconds.** The unit will beep and display the word Program.

**2 Then press the “BRT” 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 “MRK” 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 Programming, simply wait 8 seconds without pressing any button, or press the power button.** The unit will display Complete, beep and return to normal operation.

### An example

Here is how you would turn GX65’s AutoMute feature off.

**1** Enter Programming by holding both the “MRK” and “BRT” buttons down for 2 seconds. *The GX65 will beep and display Program.*

**2** Hold the “BRT” button down. *GX65 will scroll through the categories, starting with Pilot Light (Pilot), then SpeedCheck (spdck), Signal strength meter (Meter), and then AutoMute (aMute).*

**3** Release the “BRT” button when the GX65 shows the AutoMute item. *Since the factory setting is for AutoMute to be on, the GX65 will display aMute ON.*

*If you accidentally don’t release the “BRT” button in time, and the GX65 goes to the next category, simply hold the “BRT” button down again and the GX65 will scroll through the categories.*

**4** Press the “MRK” button to change from aMute ON to aMute OFF.

**5** To complete choosing your Programming, simply wait 8 seconds without pressing any buttons, or press the power button. *The GX65 will display Complete, beep and return to normal operation.*

## Overview of Programming

Press the BRT button to go from one category to the next

PILOT LIGHT  
(Power-on indication)

Pilot HWY  
Pilot H  
Pilot V  
Pilot SPD

Press the MRK button to change your setting within a category

\* Full word: Highway or AutoScan  
Letter: H or A or C or ANX  
Vehicle voltage  
Vehicle speed

SPEEDCHECK

Spdck ON  
Spdck OFF

\* Displays current speed during alert  
SpeedCheck feature off

SIGNAL STRENGTH METER

Meter STD  
Meter THT  
Meter TEC

\* Standard signal strength meter  
Threat Display mode  
Tech Display mode

AUTOMUTE

aMute ON  
aMute OFF

\* Automatically reduces audio during alert  
AutoMute feature is off

UNITS

Units ENG  
Units MET

\* Speed/distance in English units  
Speed/distance in Metric units

VOICE

Voice ON  
Voice OFF

\* Voice announcements on  
Voice announcements off

BANDS

Bands DFT  
Bands MOD

\* Default settings  
Bands have been modified

### \* Restoring the Factory Default Settings

To restore your GX65 to its original factory settings, press and hold the “SEN” and “BRT” buttons while turning the power on. A Reset message will be displayed, accompanied by an audible alert, acknowledging the reset.



Turn bands on/off by pressing the Mute button

X  
Ku  
K  
Ka  
POP  
SWIS  
LSR

ON or OFF (default is on)  
ON or OFF (default is off)  
ON or OFF (default is on)  
ON or OFF (default is on)  
ON or OFF (default is off)  
ON or OFF (default is off)  
ON or OFF (default is on)

MARKERS

Marks DFT  
Marks MOD

rCam  
sCam  
sTrap  
Othr

ON or OFF (default is on)  
ON or OFF (default is on)  
ON or OFF (default is on)  
ON or OFF (default is on)

### Pilot Light (Power-on indication)

PilotHWY (Full word)

In this setting the GX65 will display “Highway,” “AutoScan,” or “AutoNoX” as its power-on indication. (factory default)

Pilot H (Letter)

In this setting, the GX65 will display “H” for Highway, “A” for AutoScan and “ANX” for AutoNoX.

Pilot V (Vehicle voltage)

In this setting, the GX65 will continually display “H” for Highway, “A” for AutoScan and “ANX” for AutoNoX plus the vehicle’s battery voltage.

***NOTE: If the vehicle’s voltage drops below 10.5 volts, a low voltage warning is displayed, followed by an audible alert. A high voltage warning is also given if the voltage goes above 16.5 volts. The high-voltage warning is also followed by an audible alert.***

Pilot SPD (Vehicle speed)

In this setting, the GX65 will continually display “H” for Highway, “A” for AutoScan and “ANX” for AutoNoX plus the vehicle speed.

### Speed Check

Spdck ON (Speed Check on)

In this setting, your vehicle’s speed will be displayed for a few seconds during an alert. After a few seconds, the GX65 will display the meter type you have selected, (e.g. bar-graph, Threat Display or Tech Display. (factory default)

SpdckOFF (Speed Check off)

In this setting, the GX65 will display the meter type you have selected.

### Signal Strength Meter

MeterSTD (Standard meter)

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

MeterTHI (Threat Display)

In this setting, the meter simultaneously tracks multiple radar signals. It can display multiple radar signals and their signal strength at the same time.

***NOTE: The Threat Display feature is explained in more detail on pages 12-13.***

***NOTE: Ku band is displayed as an X-band signal.***

***NOTE: If a Marker and a real threat are encountered at the same time, the display will alternate between the meter and type of marker being reported.***

MeterTEC (Tech Display meter)

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

***NOTE: The Tech Display feature is explained in more detail on page 13.***

### AutoMute

aMute ON (AutoMute on)

In this setting, the GX65’s audio alerts will initially be at the volume you set, but after a few seconds the GX65 will automatically reduce the volume level to keep you informed, but at a lower audio level. (factory default)

aMuteOFF (AutoMute off)

In this setting, the GX65’s audio alerts will remain at the volume you set for the duration of the radar encounter.

### Units

Units ENG (Speed measured in miles per hour)

In this setting, all speed related features are displayed in miles per hour (MPH). (factory default)

Units MET (Speed measured in kilometers per hour)

In this setting, all speed related features are displayed in kilometers per hour (KPH).

## Details of Programming

### Voice Announcements

VoiceON (Voice announcements on)

In this setting, all alerts and instructions are communicated using a voice announcement. (factory default)

VoiceOFF (Voice announcements off)

With voice off, normal tones will be used for alerts.

### Bands

BandsDFT

In this setting all radar and laser frequencies, (with the exception of POP mode and Ku-band) are monitored. This is the factory setting, and it is recommended that you use the GX65 in this mode.

BandsMOD

In this setting, the GX65 will warn you with an audible alert, and associated text message stating which band has been modified (i.e. "X OFF"). This warning is displayed during the start up sequence.

**WARNING: Only modify bands if you are absolutely certain that there are no traffic radar units using that specific band in your area.**

### Markers

MarksDFT

In this setting, all markers in the database will be reported as you approach them. This is the factory setting and it is recommended that you use the GX65 in this mode.

MarksMOD

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

***NOTE: The GX65 has plenty of built in memory to store thousands of locations. In the rare case that the database would become 80% full, a message will appear at start up to let you know you're reaching its limit.***

## 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
- Ku-band 13.450 GHz  $\pm$ 25 MHz (Europe)
- Laser 904nm, 33 MHz bandwidth

#### Radar Receiver / Detector Type

- Superheterodyne, Varactor-Tuned VCO
- Scanning Frequency Discriminator
- Digital Signal Processing (DSP)

#### GPS Receiver

- SiRFstar III

#### Laser Detection

- Quantum Limited Video Receiver
- Multiple Laser Sensor Diodes

#### Display Type

- 280 LED Alphanumeric
- Bar Graph, SpeedCheck, Threat Display, or Tech Display
- 5-Levels of Brightness Control, including Full Dark Mode

#### Power Requirement

- 12VDC, Negative Ground
- SmartPlug (included)

#### Programming

- Power-On Indication
- SpeedCheck
- Signal Strength Meter
- AutoMute
- Units
- Voice Alerts
- Radar / Laser Bands
- Markers

#### Sensitivity Control

- AutoScan, Highway and AutoNoX

#### Auto Calibration Circuitry

#### VG2 Immunity

#### Dimensions (Inches)

- 1.40" H x 2.90" W x 5.35" L

#### Patented Technology

BELTRONICS is covered by one or more of the following patents:

U.S. Patents

7,098,844 6,836,238 6,779,765 6,693,578  
6,670,905 6,614,385 6,587,068 6,400,305  
6,249,218 6,127,962 6,069,580 5,668,554  
5,600,132 5,587,916 5,559,508 5,446,923  
5,402,087 5,365,055 5,347,120 5,305,007  
5,206,500 5,164,729 5,134,406 5,111,207  
5,079,553 5,049,885 5,049,884 4,961,074  
4,954,828 4,952,937 4,952,936 4,939,521  
4,896,855 4,887,753 4,862,175 4,750,215  
4,686,499 4,631,542 4,630,054 4,625,210  
4,613,989 4,604,529 4,583,057 4,581,769  
4,571,593 4,313,216 D314,178 D313,365  
D310,167 D308,837 D296,771 D288,418  
D253,752

Canadian Patents

2,337,077 2,330,964 1,295,715 1,295,714  
1,187,602 1,187,586

European Patents

1,145,030 1,090,456

Other patents pending.

## Interpreting Alerts

Although the GX65 has a comprehensive warning system and this handbook is as complete as we can make it, only experience will teach you what to expect from your GX65 and how to interpret what it tells you. The specific type of radar being used, the type of transmission

### Alert

The GX65 begins to sound slowly, then the rate of alert increases until the alert becomes a solid tone. The Signal Meter ramps accordingly.

The GX65 emits short alerts for a few seconds and then falls silent only to briefly alert and fall silent again.

The GX65 suddenly sounds a continuous tone for the appropriate band received. All segments in the Signal Strength Meter are lit.

A brief laser alert.

The GX65 receives weak signals. These signals may be a little stronger as you pass large, roadside objects. The signals increase in frequency.

The GX65 alerts slowly for awhile and then abruptly jumps to a strong alert.

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

The following examples will give you an introduction to understanding the GX65's warning system for radar and laser alerts.

### Explanation

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

An instant-on radar source is being used ahead of you and out of your view.

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

Laser is being used in the area. Because laser is inherently difficult to detect, any laser alert may indicate a source very close by.

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.

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

### Alert

The GX65 alerts intermittently. Rate and strength of alerts may be consistent or vary wildly.

The GX65 alerts intermittently. Rate and strength of signal increases with each alert.

The GX65 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.***

## Radar

### 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.

## POP

Because intrusion alarms and motion sensors often operate on the same frequency as X, and K-band radar, your GX65 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 GX65's radar detection abilities are fully operational.

### 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.**

## Laser

### 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.

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

## Red Light Cameras

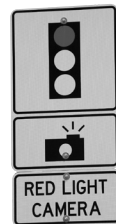
angle between the gun and the vehicle increases) police typically use LIDAR equipment parallel to the road or from an overpass. LIDAR can be used day or night.

### How Red Light Cameras Work

Red-light cameras use three basic things: 1) a camera, 2) a way to trigger the camera, and 3) a computer.

An intersection may have more than one camera to monitor traffic from multiple directions. The trigger is typically a series of wires buried just beneath the surface of the road. These wires are separated by a pre-set distance in order to create a magnetic field or induction loop. Once a vehicle is in the intersection, the loop or circuit becomes closed and alerts the computer to take a picture.

In some states, tickets are issued to the car's owner, no matter who's actually driving. In this case, the red-light camera only needs to photograph the vehicle's rear license plate. In other states, the actual driver is responsible for paying the ticket. In this case, the system needs a second camera in front of the car, in order to get a shot of the driver's face.





## How Speed Cameras Work

There are several types of fixed position speed cameras used, including radar, laser, induction loop and photo-based.

Radar and laser based cameras are typically mounted near the road and transmit a short range signal across the lanes monitored. Since this signal is transmitted across the road instead of down the road like many handheld systems, detecting them in time is critical.

Another technology used is an inductive loop system. This type of system utilizes wire buried just beneath the surface of the road to trigger a computer which calculates speed between the two points.

Photo-based systems take two sets of pictures of all passing vehicles between two separate fixed locations. Both sets of photographs are date and time stamped, which enables the system to calculate average speed between the two locations.

Fixed speed cameras can also be set up to monitor one to four lanes of traffic in the same direction. To achieve this, a sensor is installed in each lane and a wide angle camera lens is used to photograph the vehicle which is speeding.

## How SWS Works

Safety Warning System, or SWS, uses a modified K-band radar signal. The SWS safety radar system has 64 possible messages (60 currently allocated). The SWS messages your GX65 can display are listed on the facing page.

From the factory, your GX65 is programmed with SWS decoding OFF. If you wish to detect this system, use the Programming feature to turn the GX65's SWS decoding ON. If SWS is used in your area, your GX65 will display the safety messages associated with the signal.

***NOTE: Some of the safety messages have been condensed, so that each message can be displayed on one or two screens on the GX65'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. Do not be surprised if you encounter emergency vehicles, road hazards and railroad crossings that are unequipped with these transmitters. 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

## GPS

### 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.



## Updates

### Software Updates

The GX65's red light and speed camera database is easily updated using our exclusive detector software tools found on our web site. Firmware, or the operating software for the detector, can also be updated using these tools.

In order to have access to these updates, you must register your GX65 at [www.beltronics.com](http://www.beltronics.com). Once registered, you will receive email notifications that updates are now available for your database or firmware.

The GX65 will need to be powered up to use the software tools. If you have a laptop computer, you can take it out to the vehicle to download the updates. If not, you will need to purchase a 12-volt adapter. These can be found at your local electronics retailer or our website under accessories.



## Service

### Service Procedure

If your GX65 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 Call us at 800.341.2288. We may be able to solve your problem over the phone. If the problem requires that you send your GX65 to the factory for repair, we will provide you with a Service Order Number, which must be included on the outside of your shipping box.

Enclose the following information with your GX65:

- Your Service Order Number
- A copy of your sales receipt
- Your name and return address
- Your daytime telephone number
- A description of the problem you are experiencing

### Out Of Warranty Repairs

For out of warranty repairs, include prepayment in the amount you were quoted by the Beltronics Customer Service Representative. If the detector has been damaged, abused or modified, the repair cost will be calculated on a parts and labor basis. If it exceeds the basic repair charge, you will be contacted with a quotation. If the additional payment is not received within 30 days (or if you notify us that you choose not to have your GX65 repaired at the price quoted), your GX65 will be returned, without repair. Payment can be made by check, money order, or credit card.

Ship GX65 and SmartPlug to:

BELTRONICS  
Customer Service Department  
Service Order Number \_\_\_\_\_  
5442 West Chester Road  
West Chester OH 45069

For your own protection, we recommend that you ship your GX65 postpaid and insured. Insist on a proof of delivery, and keep the receipt until the return of your GX65.

## Troubleshooting

Problem	Solution
The GX65 beeps briefly at the same location every day, but no radar source is in sight.	<ul style="list-style-type: none"><li>• An X-band motion sensor or intrusion alarm is located within range of your route. Use the AlertLock feature to filter this signal out.</li></ul>
The GX65 does not seem sensitive to radar or laser.	<ul style="list-style-type: none"><li>• Make sure that windshield wipers do not block the GX65's radar antenna and that the laser lens is not behind tinted areas.</li><li>• Determine if your vehicle has an Instaclear<sup>®</sup>, ElectriClear<sup>®</sup> or solar reflective windshield which may deflect radar or laser signals.</li><li>• The GX65 may be in City Mode.</li></ul>
The GX65 did not alert when a police car was in view.	<ul style="list-style-type: none"><li>• VASCAR (Visual Average Speed Computer and Recorder), a stopwatch method of speed detection, may be in use.</li><li>• Officer may not have radar or laser unit turned on.</li></ul>
The GX65's display is not working.	<ul style="list-style-type: none"><li>• Press the BRT button to deactivate Dark Mode.</li></ul>
The GX65's audible alerts are less loud after the first few alerts.	<ul style="list-style-type: none"><li>• The GX65 is in AutoMute Mode. See page 9 for details.</li></ul>
The GX65 bounces or sags on windshield.	<ul style="list-style-type: none"><li>• The GX65 is not making contact with the windshield to provide stability. While holding down the GX65's EasyMount button, slide the GX65 further back toward the windshield so that the back top edge makes firm contact.</li></ul>
The GX65's power-on sequence reoccurs while you are driving.	<ul style="list-style-type: none"><li>• A loose power connection or dirty lighter socket can cause the GX65 to be briefly disconnected.</li></ul>
Your 14-year old son has changed all 8 of the Programming options.	<ul style="list-style-type: none"><li>• You can return all of the user Preferences to the factory defaults settings by holding down the "SEN" and "BRT" buttons while you turn the GX65 on.</li></ul>
The GX65 feels very warm.	<ul style="list-style-type: none"><li>• It is normal for the GX65 to feel warm.</li></ul>

Problem	Solution
The GX65 will not turn on.	<ul style="list-style-type: none"><li>• Check that vehicle ignition is ON.</li><li>• Check that vehicle lighter socket is functional.</li><li>• Try the GX65 in another vehicle.</li></ul>
GPS indicator will not stop flashing.	<ul style="list-style-type: none"><li>• The GX65 does not have a clear view of the sky. Reposition it or try it in another vehicle.</li></ul>
AlertLock lock filter does not seem to be working.	<ul style="list-style-type: none"><li>• Check to make sure the GPS button is on.</li></ul>
At first detect, numbers come up on the display.	<ul style="list-style-type: none"><li>• SpeedCheck feature is on. You can turn it off in Programming.</li></ul>

## Explanation of Displays

<i>No display</i>	The GX65 is in Dark mode. Press the BRT button to change the brightness. (page 10)
PilotHWY	One of the many Preferences. (pages 14-18)
Ka1 X9 or K9 X1, or Ka9 K2 X1, etc.	The GX65 has been set to Threat Display Mode in Programming. (pages 12-13)
Reset Power	The GX65 needs to cycle power. Unplug it from power socket and restart.

## Accessories

### Accessories

Visit our website for our complete line of accessories at [beltronics.com](http://beltronics.com)

### BELTRONICS Extended Service Plan

Beltronics offers an optional extended service plan. Contact Beltronics for details at 800.341.2288.

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

 **www.**  
**beltronics**  
**.com**

**Register** ▼

**online:**

**@**

**Remove card along perforations** ▼

### PRODUCT REGISTRATION CARD

**BELTRONICS®**

- ▶ If you purchased your detector directly from BELTRONICS, you do not need to fill this out.
- ▶ If you did not purchase your detector directly from BELTRONICS, please fill out this section and return to us, or register online at our web address: [www.beltronics.com](http://www.beltronics.com).

1. First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_ Last Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Phone Number (In case we have a question) \_\_\_\_\_
2. Product Purchased **PRO GX65** \_\_\_\_\_ Serial Number \_\_\_\_\_
3. Place of Purchase \_\_\_\_\_ Date \_\_\_\_\_ Price \_\_\_\_\_
4. Primary reason for purchasing this BELTRONICS product \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Warranty

### BELTRONICS One Year Limited Warranty

#### What this warranty covers:

BELTRONICS 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:** BELTRONICS, at our discretion, will either repair or replace your Product free of charge.

**What we will not do:** BELTRONICS 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 BELTRONICS 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.

**To obtain service:** 1. Contact BELTRONICS (800.341.2288) 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: Beltronics Inc, 5442 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. BELTRONICS SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY INCLUDING, BUT NOT LIMITED TO THOSE CONCERNING THE MERCHANTABILITY AND SUITABILITY OF THE PRODUCT FOR A PARTICULAR PURPOSE. BELTRONICS 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.

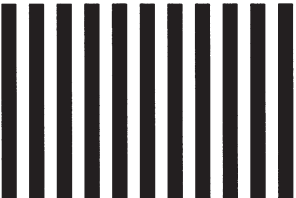
The above limitations or exclusions shall be limited to the extent they violate the laws of any particular state. BELTRONICS is not responsible for products lost in shipment between the owner and our service center.

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

Remove card along perforations



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES



**BUSINESS REPLY MAIL**

FIRST-CLASS MAIL PERMIT NO 300 WEST CHESTER OH  
POSTAGE WILL BE PAID BY ADDRESSEE

ATTN CUSTOMER SERVICE  
BELTRONICS INC  
5442 WEST CHESTER RD  
WEST CHESTER OH 45069-9789

