

## OPERATION

### Alert Priority

When two or more signals are received at the same time, the alert priority is:  
**1. Laser 2. Speed Radar 3. Safety Radar**  
**Example:** If X band is alerting, then suddenly a laser signal is detected, the laser warning will override the X band alert.

### Compass Calibration Set-up

The unit will need to be calibrated in order for the compass to provide accurate readings. To calibrate the unit, perform the following procedure:

1. Mount the unit level in the center of the vehicle's windshield. Make sure there are no other magnetic sources near the detector (i.e., speaker).
2. Select a large clear area (parking lot or field) without any power lines.
3. Press the Menu button until display shows **CAL MODE**. Then press the Dark and Quiet buttons simultaneously. The display shows (scrolling):  
**(Drive in two complete circles)**
4. If calibration does not automatically finish press the Dark and Quiet buttons simultaneously to complete calibration. The unit will beep twice and display shows, for example:  
**CAL DONE → (E 45 H)**

**Note:** In Combo Mode an "H" or "C" will be shown to indicate mode of operation.

**Important:** If unit mounting is relocated in the vehicle, (i.e., visor to windshield mounting or dash mounting), or if the unit is moved to another vehicle, you must recalibrate the compass.

14

## OPERATION

### Reset Features

#### POP™ Mode Alerts

Because POP™ Mode radar utilizes the same K or Ka band frequencies, POP™ Mode Alerts will be displayed as regular radar alerts.

### LASER/RADAR ALERTS

#### Speed Radar Audio/Visual Alerts

When X, K or Ka is detected, the band ID and signal strength are displayed. The audio alert is continuous and has a geiger counter-like pattern. The faster the beep, the closer or stronger the radar source.

#### Unit is now reset to the following features and settings.

#### Default factory settings are:

1. S1: (For Intellicord®) Power ON or OFF.
2. S2: (For Intellicord®) Quiet feature.
3. Combo Mode.
4. HIGHWAY Mode.
5. Dim/Dark Mode to full illumination of display.
6. Auto Quiet Mode OFF.
7. Safety Radar OFF.
8. Vehicle Battery Saver ON.
9. Full Power Up sequence.
10. Default TONE 3.
11. All Bands ON.
12. Laser ON.
13. POP ON.
14. Voice ON.
15. LED Periscope to BLNK.

#### Intellicord® Ready

Using Whistler's optional Intellicord® Power Cable allows some models to control the detector's features such as Power On/Off, City Modes, Dim/Dark, and Quiet/Auto Quiet with a simple press of the button on the Power Cable. Two features can be controlled: one by a short press of the button, and the second by a long press of the button. Option Mode allows the user to program the feature assignments.

15

## POP™ MODE ALERTS

## TROUBLESHOOTING

Your Whistler detector is expertly engineered and designed to exacting quality standards to provide you with reliable, trouble-free operation. If your unit has been correctly installed following the guidelines in this manual, but is not operating optimally, please refer to the troubleshooting guide below.

#### PROBLEM: No display or audio.

- Unplug the Power Cord from the unit.
- Press and hold the Power and Quiet buttons.
- Plug the Power Cord into the unit.
- Wait for 2 beeps.
- Release the Power and Quiet buttons.

#### Unit is now reset to the following features and settings.

#### Default factory settings are:

1. S1: (For Intellicord®) Power ON or OFF.
2. S2: (For Intellicord®) Quiet feature.
3. Combo Mode.
4. HIGHWAY Mode.
5. Dim/Dark Mode to full illumination of display.
6. Auto Quiet Mode OFF.
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15

#### Speed Radar Audio/Visual Alerts

When X, K or Ka is detected, the band ID and signal strength are displayed. The audio alert is continuous and has a geiger counter-like pattern. The faster the beep, the closer or stronger the radar source.

#### Laser Audio/Visual Alerts

When a laser signal is detected the audio alert is continuous for a minimum of 3 seconds.

- The Displays Shows: **(LASER III)**

#### Pulse Protection®

Pulse (or instant-on) radar is more difficult to detect than conventional radar because it remains 'off' until activated to measure the speed of a targeted vehicle.

When a pulse type transmission is detected, your Whistler detector sounds an urgent 3-second audio warning and the display shows:

#### 'PULSE'

After the 3-second pulse alert, the standard alert pattern continues for as long as the signal is present.

It is important to respond promptly to a pulse alert, since warning time may be minimal.

16

## CARE AND MAINTENANCE

### Care And Maintenance

During the summer months, avoid prolonged exposure to direct sunlight by removing your unit from the dash when your vehicle is parked for an extended period of time. Do not spray water, cleaners, or polishes directly onto the unit. The spray may penetrate through the openings and damage the unit. Also, do not use any abrasive cleaners on the unit's exterior.

### ARE DETECTORS LEGAL?

#### In Most States YES!

Laser-Radar detectors are legal in every state (with the exception of Virginia and Washington, D.C., which have local regulations restricting the use of radar receivers in any vehicle) when used in automobiles or light trucks (under 10,000 lbs.).

Concerning trucks over 10,000 lbs., the Federal Highway Administration (FHWA) issued a regulation, effective January, 1994 which prohibits radar and laser detector use in these types of vehicles nationally. Prior to the FHWA regulation, laws existed in the state of New York restricting the use of radar detectors in trucks over 18,000 lbs. and in Illinois in trucks over 26,000 lbs.

#### PROBLEM: Audio alerts are not loud enough.

- Cancel Auto Quiet Mode or City Mode.

- Check audio level setting (see page 8).

If difficulties occur which cannot be solved by information in this Troubleshooting Guide, please call Whistler Customer Service at 1-800-531-0004 or visit our F.A.Q. page at [www.whistlergroup.com/faq-detectors.asp](http://www.whistlergroup.com/faq-detectors.asp), before returning your unit for service.

## WARRANTY INFORMATION

### Warranty

#### Service Under Warranty

During the warranty period, defective units will be repaired without charge to the purchaser when returned with a dated store receipt to the address below. Units returned without a dated store receipt will be handled as described in section "Service Out Of Warranty."

#### Service Out Of Warranty

Due to the specialized equipment necessary for testing a Laser-Radar receiver, there are no authorized service stations for Whistler brand detectors other than Whistler.

When returning a unit for service, please follow these instructions:

1. Ship the unit in the original carton or in a suitable sturdy equivalent, fully insured, with return receipt requested:

#### Whistler Repair Dept.

1201 North Dixieland Rd.  
Rogers, AR 72756

#### Please allow 3 weeks turnaround time.

#### Important:

Whistler will not assume responsibility for loss or damage incurred in shipping. Therefore, please ship your unit insured with return receipt requested. **CODs will not be accepted!**

2. Include with your unit the following information, clearly printed:

- Your name and street address (for shipping via UPS), a daytime telephone number and an email address, if applicable.
- A detailed description of the problem (e.g., "Unit performs self-test but does not respond to radar").
- A copy of your dated store receipt or bill of sale.

The minimum out of warranty service fee for your Whistler detector is \$55.00 (U.S.). If you require out of warranty service, please return your unit as outlined in the section "Service Under Warranty" along with a certified check or money order for \$55.00. Payment may also be made by MasterCard, VISA, or American Express; **personal checks are not accepted.**

**In the event repairs cannot be covered by the minimum \$55.00 service fee, you will be contacted by a Whistler technical service specialist who will outline options available to you.** If you elect not to have your unit repaired, it will be returned to you along with your certified check or money order.

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## FCC INFORMATION

### FCC ID: HSXWH20

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.

**Important:** FCC requirements state that changes or modifications not expressly approved by Whistler could void the user's authority to operate the equipment.

## SPEED MONITORING

### Radar Facts

A radar gun operates by transmitting radio waves at certain frequencies which reflect off objects and are picked up by the radar gun's receiving section. When a radar beam reflects off a moving target, a measurable frequency shift occurs. The radar unit converts this shift into miles per hour to determine your vehicle's speed. Currently, the FCC (Federal Communications Commission) permits operation of traffic radar guns at X Band (10.500 - 10.550 GHz), K Band (24.050 - 24.250 GHz), and Ka Band (33.400 - 36.000 GHz).

**Note:** A radar detector will only alarm if an officer is transmitting on any one of the above radar bands.

19

## SPEED MONITORING

### POP™ Mode

POP™ Mode is a feature on some newer radar guns operating on K and Ka bands. When the gun is in POP™ Mode and activated, a brief burst of energy, less than 1/15 of a second, is transmitted and the vehicle's speed is quickly acquired. A detector without POP™ Mode detection capability cannot respond to this brief transmission.

### Laser Facts

It's well documented that many radar guns cannot reliably provide the speed of a targeted vehicle that is traveling in a group of vehicles. In contrast, a laser gun can target a specific vehicle out of a line of traffic and determine its speed. The advantage of laser over radar in terms of target identification is the result of the laser gun's narrow beam. A radar gun's transmission can cover more than a four-lane highway at a distance of 1,000 feet, compared with a laser gun's transmission which covers about 3 feet at the same distance. For best protection, keep these points in mind:

- Because the vehicle's license plate or headlights are the laser gun's primary targets, mounting the Whistler detector on the dashboard can improve laser detection at short range.
- Do not follow closely behind any vehicle you cannot see through. If you can't see past a vehicle ahead of you, chances are your detector can't either.
- The receiving range of your laser detector will not be the same as a radar detector. Laser guns are most often used at short range.

Whistler Laser-Radar detectors receive all current laser guns which operate at a laser wavelength of 905 +/- 10nm.

Pro Laser™ I II III • LT1 20-20 • Ultra Lyte

20

## OWNER'S MANUAL

# XTR-690

## Total Band Protection™ LASER-RADAR DETECTOR



The Whistler Group Corporate Headquarters  
13016 N. Walton Blvd. • Bentonville, AR 72712  
Tel 479.273.6012 • Fax 479.273.2927

### Customer Return Center

1201 N. Dixieland Rd. • Rogers, AR 72756  
Customer Service Tel 800.531.0004  
[www.whistlergroup.com](http://www.whistlergroup.com)

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WHISTLER

Specifications are subject to change without notice.

25

21

22

23

24

25

26

## INTRODUCTION

Dear Whistler Owner,

If you have questions concerning the operation of this Whistler product please call:

### CUSTOMER SERVICE 1-800-531-0004

Monday - Friday • 8:00 am - 5:00 pm CT  
or visit our website  
[www.whistlergroup.com](http://www.whistlergroup.com)

Please keep the receipt in a safe place. You may register your product online at [www.whistlergroup.com](http://www.whistlergroup.com). For warranty verification purposes, a copy of your dated store receipt must still accompany any unit sent in for warranty work. If the unit is returned without a dated store receipt, an out of warranty service charge applies.

Enjoy your Whistler detector and please drive safely.

Sincerely,

The Whistler Group, Inc.

## OPERATION

### Power On, Self Test

To turn the Power ON or OFF, push the center of the Power/Volume button.

Each time your Whistler detector is turned on, an automatic self-test sequence confirms that the speaker and visual displays are functional.

• Display shows in order:

1. WHISTLER
2. X-band
3. K-band
4. Ka-band
5. LASER
6. SR OFF
7. VOICE ON
8. POP ON
9. B SVR ON
10. FILTER
11. HIGHWAY

### Teach/Tutorial Mode

Provides simulated alerts for each type of signal.

- Press City and Quiet buttons simultaneously
- Display Shows: **TEACH**
- Press Dark button to exit.

### Setting Saver

Setting Saver saves your personalized settings so that when the detector is turned off and then on again, you do not have to re-enter them.

### Feature Engaged Confirmation

Each time a button is pressed, one beep confirms feature "on", two beeps confirm feature "off".

### Integrated Real Voice®

When selected, Real Voice® will be used to articulate the following:

1. Band Identification
2. Safety Warning System messages
3. Feature Selection

**Note:** In certain cases the voice message does not replicate the text message.

## OPERATION

### Audio Level Adjustment

The audio levels can be adjusted high to low or low to high.

- Move Power/Volume button back to increase audio level.
- Move Power/Volume button forward to decrease audio level. As audio level is adjusted, beeps are provided and the display indicates volume level.

### Auto Quiet Mode

Auto Quiet reduces the selected audio level to level (1) approximately 5 seconds after a radar or safety radar signal is detected. The alert for any new signal within 20 seconds will resume at level (1). Auto Quiet does not affect laser alerts.

- Press Quiet (before a signal is detected) to engage Auto Quiet.
- Once the Auto Quiet mode is engaged, you may cancel the audio alarm by pressing Quiet.
- Press Quiet (when the unit is not alarming) to cancel Auto Quiet mode.

### Quiet Mode

Quiet cancels audio during an alert and any new alert within 20 seconds. After 20 seconds of no radar signal detected, 2 beeps are provided on any new alert and then the audio remains quiet.

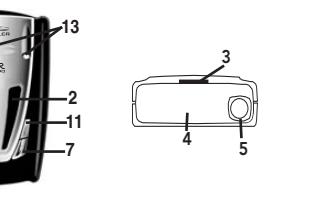
- Press Quiet to cancel the audio.
- Press Quiet a second time during an alert to restore the standard audio alert pattern; or turn the unit off, then on.

**Note:** In certain cases the voice message does not replicate the text message.

Model Features Summary .....	3-4
Installation .....	5-6
• Mounting Guidelines .....	5
• Windshield Mounting .....	6
• Power Connection and Fuse Replacement .....	6
Operation .....	7-15
• Power On, Self Test .....	7
• Teach/Tutorial Mode .....	7
• Setting Saver .....	7
• Feature Engaged Confirmation .....	7
• Integrated Real Voice® .....	7
• Audio Level Adjustment .....	8
• Auto Quiet Mode .....	8
• Quiet Mode .....	8
• City / City 1 / City 2 Mode .....	9
• Highway Mode .....	9
• Dual LED Alert Periscope .....	10
• Compass Mode .....	10
• Dim/Dark Mode .....	10
• Vehicle Battery Saver Mode .....	11
• Filter Mode .....	11
• Option Select Mode .....	12
• Stay Alert Feature .....	13
Safety Warning System™ .....	13
• Alert Priority .....	14
• Compass Calibration Set-up .....	14
• Reset Features .....	15
• Intellitouch® .....	15
POP™ Mode Alerts .....	16
Laser/Radar Alerts .....	16
• Speed Radar Audio/Visual Alerts .....	16
• Laser Audio/Visual Alerts .....	16
• Pulse Protection® .....	16
Troubleshooting Guide .....	17
Care and Maintenance .....	18
Are Detectors Legal? .....	18
FCC Information .....	19
Speed Monitoring .....	19-22
• Radar Facts .....	19
• POP™ Mode .....	20
• Laser Facts .....	20
• Other Speed Detection Systems .....	21
Warranty Information .....	22-25
Specifications .....	25
Accessories .....	26

## WHISTLER FEATURES

### Feature Listings of XTR-690



**Features of XTR-690**

- Dim/Dark Mode
- Digital Compass
- Stay Alert™
- Setting Saver
- Vehicle Battery Saver™
- Safety Warning System™
- Alert Priority
- Dual LED Periscopes

### FEATURE DESCRIPTIONS

Whistler's ergonomic and user-friendly design provides a new level of operating convenience. Special features include:

1. **Bracket Release Button** – provides quick and easy release of the mounting bracket.
2. **Speaker** – provides distinct audio warnings for X, K, Ka band radar, safety radar, and laser.
3. **Mounting Bracket Location** – slot holds mounting bracket firmly.
4. **Radar Antenna** – compact, high-efficiency antenna receives radar signals.

## FEATURE DESCRIPTIONS

5. **Front Laser** – high gain optical lens provides increased sensitivity and field of view for leading-edge laser detection.
6. **Rear Laser** – an integrated optical waveguide provides superior detection of laser signals transmitted from behind.
7. **City Button** - reduces the annoyance of false alerts typically encountered in urban driving areas.
8. **Quiet Button** - pressing QUIET before a signal is detected engages Auto Quiet Mode which automatically reduces the audio level after the initial warning to a low audio level setting. Pressing QUIET during a radar/laser encounter silences audio alerts, while allowing visual alerts to keep you informed.
9. **Power / Volume Control** – push this button to turn the unit on/off. Move back or forward to adjust the audio level.
10. **Dim Dark** - engages Dim/Dark modes.
11. **Menu Button** - enters Option Select Mode.
12. **Blue Backlit LCD Text Display** – provides distinct visual confirmation of signals detected, signal strength, and indicates engaged modes of operation.
13. **Dual Alert LED Periscope** - provides an additional attention getting visual alert.

**IMPORTANT: The unit must be calibrated to provide accurate compass readings. See Compass Calibration Set-up section on page 14.**

3

## OPERATION

### Dual LED Alert Periscope

Whistler's new Dual LED Alert Periscope provides an added attention getting visual alert. The two extra LED's flash on and off when the unit alarms to provide a unique visual alert. This alert can be programmed, through the Option Select Mode to: 1. flash for all alarms, 2. remain on, or 3. turn LEDs off completely.

### Compass Mode

The unit is programmed from the factory in "Combo Mode". **COMBO** mode means that the unit provides both compass readings as well as detecting laser/radar signals. Through the "Option Select Mode", either laser / radar or compass features can be turned off meaning. **RADAR** equals detection of all police bands and laser; **COMPASS** equals no detection of police laser/radar.

**Note:** The unit must be calibrated to provide accurate compass readings. See Compass Calibration Set-up section on page 14.

**Caution:** Some towns/small cities may still be using X band radar. City Modes do not change the audio alert for laser.

### Filter Mode

There are times when a radar detector can emit the same frequency as police radar and can cause your detector to falsely alarm. Sometimes a detector can display a signal when picking up another radar detector in vehicle close by. The Whistler Filter Mode options provide a method to study the signal which will verify if the signal is a legitimate police radar or a false alarm from another detector. Three options exist:

**Filter:** Allows for normal filtering.

**Filter 1:** Provides an extra step to analyze the legitimacy of the signal.

**Filter 2:** Provides 2 extra steps to analyze legitimacy of the signal.

Filter is the factory default and should provide adequate filtering for most conditions. If you experience excessive alerts due to radar detectors in other vehicles, try the Filter 1 option. If you continue to receive alerts from radar detectors, use the Filter 2 option. Filter Mode does not override Highway or City settings. See Option Select Mode to change Filter settings.

- Pressing the Dark button a third time restores full illumination to the display.

10

## INSTALLATION

### Mounting Guidelines

- Mount the unit as low as possible near the center of the windshield.
- Do not mount the unit behind wipers, ornaments, mirrored sunscreens, etc. These obstructions have metal surfaces which can affect radar and laser signals and reduce critical warning time. (Regular tinted glass does not affect reception).
- Some windshields have an Instaclear™ or Electriclear™ type coating, which affect radar signals. Consult your dealer or the owner's manual supplied with your vehicle to determine if your windshield has this coating.
- Avoid placing the unit in direct contact with the windshield.
- To reduce the possibility of theft, conceal your unit when not in use.



11

## INSTALLATION CONT.

### Windshield Mounting

- Install the two suction cups and rubber bumper onto the bracket by fitting them into their holes.
- Press the suction cups onto the windshield at the location you have chosen.
- Important:** Some newer cars have a plastic safety coating on the inside of the windshield. The windshield bracket may leave permanent marks on this type of surface. To find out if your vehicle has this type of windshield, check the owner's manual or ask your dealer. We recommend that you do not leave the suction cup bracket on the window in direct sunlight. If the detector is removed, this may cause blistering of the dash in some vehicles.

### Power Cord Connection

- Plug the small end of the power cord into the unit's power jack.
- Plug the large end into the vehicle's cigarette lighter.

**Note:** Cord fits tightly into detector. When installing the cord, expect some resistance.

### Fuse Replacement

The lighter socket plug is equipped with a replaceable 2 amp 3AG fuse located behind the silver tip. To replace the fuse, carefully unscrew the tip of the plug.

**Important:** Unscrew slowly. The tip contains a spring which may fly out when disassembling. Insert the new fuse with the spring and screw on the tip. With use, screw cap on plug may loosen. Retighten occasionally.



6

## OPERATION

### Stay Alert Feature

The Stay Alert Feature is designed to test a driver's alertness. To engage (when the unit is not alarming):

- Press and hold the City button for approximately 2 seconds. Release the button during or immediately after the alert is given. Display shows: **(R) ALERT**

Within 30-60 seconds, two beeps are sounded; to show alertness, the driver must press either the City, Menu, or Quiet buttons within 3-5 seconds. If a button is pressed within 3-5 seconds, the cycle is repeated.

If a button is not pressed within 3-5 seconds, an alarm sounds and the display shows: **(GET REST)**

- Press the Dark button to exit the Stay Alert feature.

**WARNING!!!** Stay Alert is NOT intended as a substitute for adequate rest. You should NOT operate a vehicle if you are drowsy. During extended periods of vehicle operation, you should take frequent breaks. Improper reliance on the Stay Alert feature may result in vehicle damage, personal injury or death. **NEVER OPERATE A VEHICLE IF YOU ARE DROWSY.**

**SWS™**

### Safety Warning System™

In communities where transmitters are located, the Safety Warning System™ displays over 60 text messages. When Safety Radar is detected the audio alert is geiger counter-like.

### Safety Warning System Text

Example: Poor - Road - Surface.

**Note:** Not all areas have Safety Warning System™ transmitters.

12

8

9

10

11

12

13