

POP™ MODE ALERTS
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 is 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 **)

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.

SPEED MONITORING

Laser Tips
If you are the targeted vehicle, a laser gun can often determine your speed within a few seconds after you receive an alert. In this situation, there is generally no time to safely adjust your speed. However, if you are traveling near or behind the targeted vehicle and receive an alert, response time should be sufficient. Any laser alert, regardless of duration, requires immediate action!

Other Speed Detection Systems
Several techniques other than radar or laser are used to measure vehicle speeds. When these methods are being used, no detector can provide a warning. These techniques include:

- **Pacing** - A patrol car drives behind you and matches your driving speed.
- **Vascar/Aircraft** - The time it takes a vehicle to travel a known distance is measured.

Radar Detector Detectors: VG-2, Spectre
The Interceptor VG-2 or simply VG-2, is one type of microwave receiver used by Police to detect signals radiated by the local oscillator of a radar detector. Because its purpose is to identify persons driving with radar detectors, these devices are known as a “radar detector detector” (RDD).

An RDD is the primary tool used by the police to identify radar detector equipped vehicles. If caught in a state or country where detectors are illegal (see page 18), drivers risk losing their radar detector and receiving a fine. In addition, instant-on radar is almost always used in combination with an RDD, leaving unsuspecting motorists vulnerable to receive two tickets - one potential for speeding, and the other for possession of a detector.

VG-2 ALERTS
VG-2 Audio/Visual Alerts
Note: You must turn this feature on before it will detect VG-2.
When a VG-2 signal is detected, the detector “hides” its own radiated signal and becomes undetectable by the VG-2.
Every 30 seconds, the detector checks for a VG-2 signal. If a VG-2 signal is still present, the unit continues to hide and repeats the VG-2 alert. If no signal is detected, two beeps are provided, indicating an “all clear” condition. During a VG-2 Alert X, K, and Ka band signals cannot be received (Reference page 21 for VG-2 information).

Alert Priority
When two or more signals are received at the same time, the alert priority is:

1. Laser
2. VG-2
3. Speed Radar
4. Safety Radar

Example:
If X band is alerting, then suddenly a VG-2 signal is detected, the VG-2 warning will override the X band alert.

SPEED MONITORING

Note: Having a radar detector capable of detecting the VG-2 may alert you to the presence of a speed trap. The newest tool Police have to detect radar detectors is called Spectre. Spectre can detect the majority of undetectable (VG-2) laser/radar detectors on the market.

It is the responsibility of the individual radar detector owner to know and understand the laws in your area regarding the legality of the use of radar detectors.

WARRANTY INFORMATION
Consumer Warranty
This Whistler Laser-Radar detector is warranted to the original purchaser for a period of one year from the date of original purchase against all defects in materials and workmanship. This limited warranty is void if the unit is abused, modified, installed improperly, or if the housing and/or serial numbers have been removed. There are no express warranties covering this product other than those set forth in this warranty. All express or implied warranties for this product are limited to the above time. Whistler is not liable for damages arising from the use, misuse, or operation of this product.

RESET FEATURES
Reset Features
All user features can be reset to factory settings.

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

Unit is now reset to the following features and settings.

Default factory settings are:

1. HIGHWAY Mode.
2. Dim/Dark Mode to full illumination of display.
3. Auto Quiet Mode OFF.
4. VG-2 Detection Mode OFF.
5. Safety Radar OFF.
6. Vehicle Battery Saver ON.
7. Full Power Up sequence.
8. Default TONE 3.
9. POP ON.
10. Voice ON.
11. LED Periscope to BLINK

WARRANTY INFORMATION
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.**”
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 to:

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.

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.

- Check fuse in plug; replace if necessary with a 2 amp 3AG type.
- Check fuse for lighter socket; replace if necessary.
- Make sure lighter socket is clean.

PROBLEM: Unit alarms when vehicle hits bumps.

- Check for loose lighter socket; tighten and clean.
- Check connections at both ends of power cord. Substitute another cord to determine if cord is defective. Return defective cord to the factory.

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 FAQ page at www.whistlergroup.com/faq-detectors.asp, before returning your unit for service.

WARRANTY INFORMATION

3. Be certain your unit is returned with its serial number. For reference, please write your unit's serial number in the following space:
s/n _____.

Units without serial numbers are not covered under warranty.

Important: To validate that your unit is within the warranty period, make sure you keep a copy of your dated store receipt. You may register your warranty online at www.whistlergroup.com, however, for warranty verification purposes, a copy of your dated store receipt must accompany any unit sent in for warranty work.

Service Out of Warranty
Units will be repaired at “out of warranty” service rates when:

- The unit's original warranty has expired.
- A dated store receipt is not supplied.
- The unit has been returned without its serial number.
- The unit has been abused, modified, installed improperly, or had its housing removed.

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.

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.

WARRANTY INFORMATION
Important: When returning your unit for service, be certain to include a daytime telephone number and an email address (if applicable).
Customer Service
If you have questions concerning the operation of your Whistler detector, or require service during or after the warranty period, please call Customer Service at:
1-800-531-0004

Representatives are available to answer your questions Monday - Friday from 8:00 a.m. to 5:00 p.m. (CT) or visit the FAQ's at www.whistlergroup.com.

SPECIFICATIONS

Radar Frequencies:
10.500 - 10.550 GHz (X Band)
24.050 - 24.250 GHz (K Band)
33.400 - 36.000 GHz (Ka Superwideband)

Operating Temperature Range:-20° C to +80° C (-4° F to +176° F)

Power Requirements:
Operational 12 to 15 volts DC, 250mA nominal
Vehicle Battery Saver, 30mA nominal.

One or more U.S. patents may apply:
#5,146,227, #5,379,456, #5,666,120, #5,990,821

POP™ Mode is a trademark of MPH Industries, Inc.

SWS™ is a trademark of Safety Warning System L.C.



Specifications are subject to change without notice.

FCC INFORMATION
FCC ID : HSXWH10
FCC ID : HSXWH21
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.

ACCESSORIES
These and other accessories can be ordered directly from Whistler by calling **1-800-531-0004** or visiting our online store at www.whistlergroup.com

Order #	Description	Price
500501	Zipped Travel Case	\$ 9.95
202151	Windshield Bracket Kit	\$9.95
206552	Straight Power Cord (5')	\$14.95
206553	Coiled Power Cord (7')	\$15.95
206880	Hardwire Kit (10') (for wiring to fuse box)	\$9.95
206666	Modular* Cord Package (includes coiled and straight cords, and power adapter)	\$17.95
159032	Package of 8 Suction Cups	\$2.95
402081	Non Skid Dash Pad	\$6.95
206660	Straight Modular Cord & Socket Multiplier	\$11.95
206661	Coiled Modular Cord & Socket Multiplier	\$12.95

* Modular: Interconnecting pieces cord and plug.
Shipping and handling (per order) \$5.00 . Prices are subject to change without notice.

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

OWNER'S MANUAL
XTR-500
Total Band Protection™
LASER-RADAR
DETECTOR



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