



## **Owner's Manual**

**360° Laser/Safety/Radar Detector  
with POP™ and Voice Features**

**Model : EW-795**

**Manufactured For Early Warning™  
BG Tech America, Inc.**

# CONGRATULATIONS!

Thank you for purchasing the Early Warning™ Radar Detector, the World's most sophisticated laser/safety/radar detector.

The Early Warning™ radar detector is the only completely self-contained laser/safety/radar detector that responds to the X, K, and Ka Superwide bandwidths in use today – including ProLaser™ I, II and III, LTI 20-20, Ultralyte, Stalker LZ-I and Laser Atlanta L-I.

The Early Warning™ radar detector can be set to alert drivers in voice and beep tones.

The Early Warning™ is invisible to VG-2 / spectre and can be set to notify drivers of any nearby VG-2 / spectre usage. "KA-POP Mode Radar Gun Detection is equipped with a digital signal processor designed to pick up POP signals."

Enjoy your new vehicle safety device and be sure to obey all traffic laws anytime you travel with your Early Warning™ Radar Detector.

**Please Drive Safely!**



\*A radar detector is NOT a license to speed.

The purpose of this device is to increase driver safety by helping to monitor vehicle speed while driving on roads and highways with varying speed limits. Always drive safely and obey all traffic laws and speed limits at all times.

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# SUMMARY FEATURES

- **X, K, Ka-POP, Ka Band and Laser Signal Detection**

Detects signals from traffic radar / laser devices by displaying different tones and indicators, which allow drivers to know the type of signal being received.

- **360° Laser Detection**

Detects laser signals – offering the vehicle protection from all directions.

- **VG-2 Protection**

Also known as “Radar Detector Detector” – police use VG-2 to determine if drivers are using radar detectors.

- **Real Voice Alert**

Drivers are greeted as they power-on their detector and provided with the option of different vocal indicators, including radar and laser detection.

- **Power / Volume Control**

Powers unit ON / OFF and adjusts device volume.

- **Anti-Falsing Circuitry**

Helps to prevent false alarms generated by non-traffic radar sources.

- **Internal Memory Retention**

Allows device to retain all settings and operational modes after being powered-down.

- **Mute Settings**

Allows operator to turn on/off mute settings.

- **City / Highway Mode**

This impressive device can switch between **City Mode** and **Highway Mode** for precision detection. In **City Mode** the detector eliminates most X-band signals in order to reduce the occurrence of false alerts. **Highway Mode** offers drivers a fuller spectrum of scanning for maximum security.

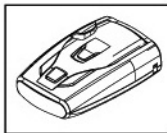
- **Instant On Pulse Radar Detection**

Alerts drivers to sudden, high-intensity radar and laser signals.

- **Signal Strength Indicator**

Indicates approximate distance between vehicle and police device(s) in use.

## Package Content



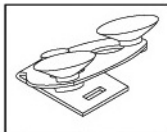
Radar Detector



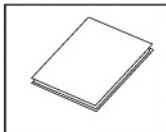
Straight Power Cord



Operation Manual



Bracket with Suction Cups



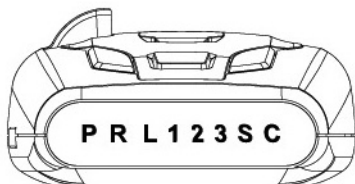
Dash Mounting Velcro Tape

## FUNCTION KEYS

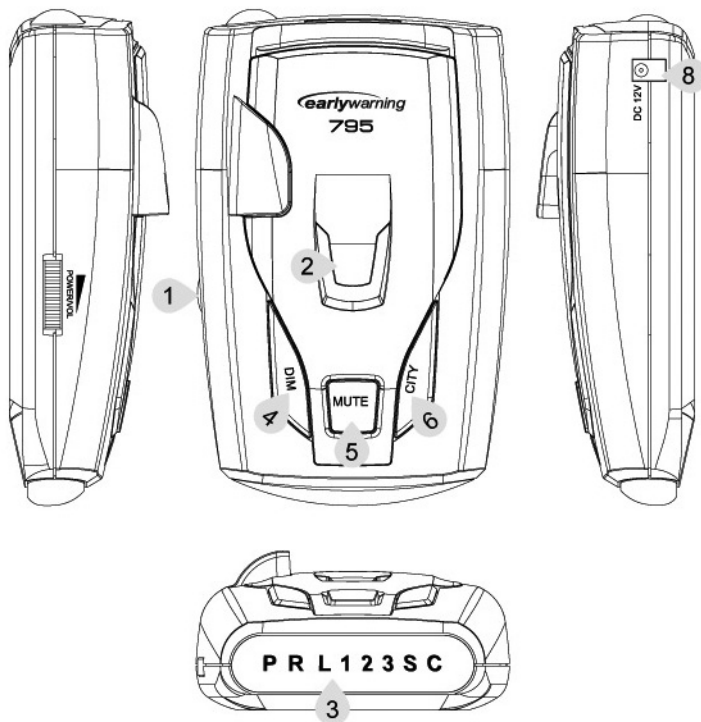
1	Volume ON /OFF	Power and volume control.
2	Speaker/Buzzer	Emits digital and Voice alerts.
3	Message Display	Displays Radar/Laser indicators, VG-2 indicators, signal strength meter and city/highway.
4	Dim	Controls display illumination for nighttime driving.
5	Mute	Toggles device audible alerts ON / OFF.
6	City	Toggles device between City and Highway modes.
7	360° Laser Sensor	Detects signals from all directions.
8	Power Plug	DC 12V power input jack.

## DISPLAYS

- P** Power on/off
- R** Radar
- L** Laser
- 1 2 3** Signal Strength Indicators
- S** Safety Alerts
- C** City -Mode



# IDENTIFYING YOUR UNIT



# INSTALLATION

## MOUNTING GUIDELINES

- Mount the unit as low and as near to the center of the windshield as possible. (See: Mounting Instructions)
- DO NOT mount unit behind wipers, ornaments, mirrored sunscreen glass, etc\*. - as these obstructions have metal surfaces which may negatively impact the effectiveness of the device by reducing critical warning time.
- Avoid placing the unit in direct contact with windshield.
- DO NOT mount unit where driver or passenger may collide with it in the event of an abrupt halt.
- Mount the unit in a level position.
- Properly store device when not in use to avoid theft and exposure to high temperatures which may temporarily impair detector performance.



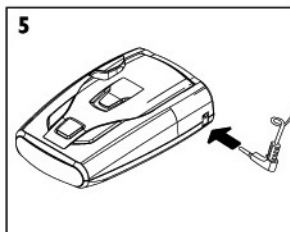
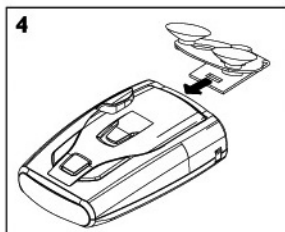
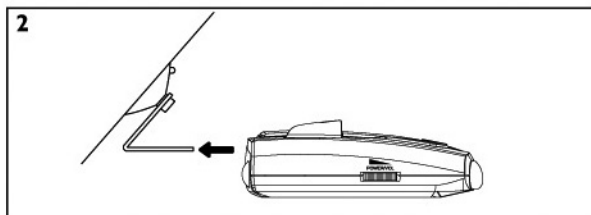
**\*Note:**

Tinted glass does not affect the device. However, some newer windshields have Instaclear™ or Electraclear™ type coatings, which can affect radar signals. Consult your dealer or your owner's manual to determine if your vehicle has this coating.



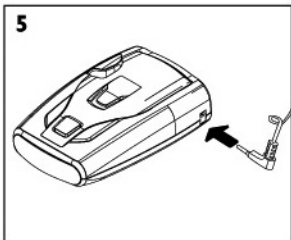
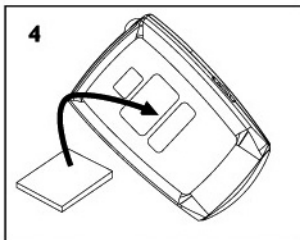
## WINDSHIELD MOUNTING INSTRUCTIONS

1. Attach the suction cups to the bracket.
2. Make sure both suction cups and windshield are clean and free of debris. Push bracket firmly onto windshield.
3. Before attaching radar detector, if necessary, adjust bracket by gently bending it to an angle best suited for both driver and vehicle.
4. Attach detector to bracket and check angle for proper visual alignment.
5. Plug AC adapter into the cigarette lighter jack and then connect to the detector.



## DASHBOARD MOUNTING INSTRUCTIONS

1. Locate a section of the dashboard providing the unit a clear level view of the road. Please note that the angle cannot be adjusted after mounting.
2. Remove paper backing from one side of the Velcro fastener.
3. Attach the pad to the dashboard at the desired area and remove the other pad backing.
4. Attach the detector to the Velcro fastener which allows unit to be removed and attached as often as needed.
5. Plug AC adapter into the cigarette lighter jack and then connect to the detector.



## POWER CONNECTION

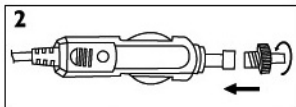
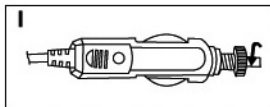
Your detector is designed to operate on most 12V, DC, negative ground, vehicle electrical systems. The power cord provided with the unit has a cigarette lighter adapter plug at one end and a small DC connector on the other.

1. Insert the small connector into the receiver jack on the side of the unit.
2. Insert the other end into the vehicle cigarette lighter/accessory socket.

## FUSE REPLACEMENT

If the detector does not operate after being powered on for the first time, remove the power adapter from the cigarette lighter/accessory outlet. Carefully check the socket for debris. Also, check the fuse in the adapter as well as the vehicle fuse box.

1. To replace the fuse, unscrew the top of the power adapter.
2. Remove and check the fuse to determine if it has blown and then replace it accordingly.

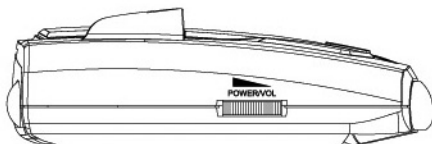


# OPERATION

## POWERING DETECTOR ON

### Power On and Self-Test

1. Rotate ON / OFF / Volume Control Dial clockwise.



2. Powering on Early Warning™ results in an automatic self-test sequence to confirm functionality of both the speaker and visual display.



Please note: In some vehicles, power is supplied to the cigarette lighter / accessory jack even while the ignition is off which may cause the Early Warning™ to drain the vehicle battery if vehicle is parked for prolonged periods of time. Please unplug the Early Warning™ to prevent such events from occurring.

## INDICATORS:

- The buttons can have multiple functions.
- A different Tone Alert will be heard for a confirmation upon each change of settings.
- All settings are stored in memory from previously set modes after it is powered off.

## SETTING AND INDICATORS

### **Tutorial Mode**

Your detector has a tutorial mode that demonstrates all of its alert indicators. In tutorial mode, you can check the status of all indicators. Each time you press DIM button, You can see each demonstration. Press CITY and DIM button simultaneously and turn on to start Tutorial mode. Press CITY button to finish any time.

### **Dim Mode**

You can select levels of brightness for your radar detector:

Bright

Dim

Dark

### **City Mode**

Your detector has two operating modes: City and Highway.

1. In City mode, the detector requires a stronger X-band signal before it sounds or displays an alert.
2. City mode prevents false alerts in densely populated areas where radar signals can bounce off surrounding structures.

### **X-Delete**

You can select X-delete Mode. It will reduce false alarms. To delete X-band, Press CITY button until the 4 Beeps sound. Repeat the procedure to activate X-band detection.

### **Mute Selection**

Each time you press Mute button, you can choose one of the following modes:

1. 90sec Mute-On Mode (Voice Msg. of "Mute On").  
Silences the alert tone and voice for 90-sec. If any radar signal is not detected within 90 seconds, reset to auto-mute.
2. Permanent Mute-On Mode (2 Beeps and Voice msg.)  
Silences the alert tone and voice.

### 3. Mute-Off Mode (Voice Msg. of "Mute Off")

Release Mute-status.

### **Automute Mode**

Automute will automatically reduce the audio volume after 4 seconds as long as the signal is detected. 20 after mute, the unit goes to its previous mode.

### **VG-2 On / Off**

Police officers could use VG-2 device to determine if a driver is using a Radar Detector. Your radar detector is invisible to VG-2. VG-2 function is always on. Using a detector where it is illegal is NOT advised (Washington DC and Virginia). Please be sure to check state laws to determine if radar detectors are legal where Early Warning™ is in use.

## **CARE&MAINTENENCE**

Early Warning™ is designed and built for years of trouble-free performance without the need for service. NO routine maintenance is required. However, if your unit does not appear to be operating properly, please follow these troubleshooting steps:

1. Ensure the power cord is properly connected.
2. Be sure the vehicle cigarette lighter / accessory socket is clean, clear and free of corrosion.
3. Check positioning of adapter to confirm it is firmly seated in your cigarette lighter / accessory outlet.
4. Check the power cord fuse. (Unscrew the ribbed end cap of the cigarette lighter adapter and examine the fuse.) If replacement is required, use only a 2A fuse.
5. Do not expose the detector to moisture, rain, dew, road splash or other liquids that can damage the internal components and detector sensitivity.

## FREQUENTLY ASKED QUESTIONS

### What is VASCAR?

VASCAR (Visual Average Speed Computer and Recorder) is a time / distance computer that determines a vehicle's average speed by timing it between two reference points - usually white stripes painted on the roadway. Used both by ground units and aircraft, VASCAR does not use radio waves and therefore is undetectable. Officers typically sit at the top of a freeway on-ramp or other vantage point, timing traffic between two reference points. VASCAR is rarely used at night. Watch for the telltale white stripes across the road which reveals use of VASCAR. (Early Warning™ Radar Detector does not detect VASCAR).

### What is the range of detection?

The range of detection is approximately 1 – 1.5 miles or 1 mile for roads with heavy curves, 1.5 miles for straight road (unless police are using "Instant-On" radar).

### What do the different bands, X K, Superwide Ka represent?

- X-band -the first band used for traffic radars, which uses a frequency of 10.525GHz.
- K-band – traffic radar units are lower powered and more difficult to detect than X-band, it operates at 24.15GHz.
- Superwide Ka-band - operates on any frequency between 33.4 and 36.0GHz.

### What is VG-2

Also known as a "Radar Detector Detector", will alert you when a police device is in use near your vehicle. In addition to speed traps, in the state of Virginia and Washington D.C., radar detectors are illegal.

Therefore, drivers need to activate or deactivate the VG2 feature

### What is LIDAR and how does it work?

LIDAR is the correct name for LASER. It cannot penetrate through glass, can be effected by rain, snow, fog, smoke and other airborne dust particles.

# TROUBLE SHOOTING

Problem	Cause	Solution
<b>Power Malfunction</b>	Be sure all power connection is secure.	Reinsert plug and rotate.
	Fuse in Power Plug is defective	Replace with a 2A fast acting fuse.
	Cigarette lighter socket is NOT clear of debris	Clean with fine emery cloth to ensure a good, clean connection
	Fuse or electrical wiring for cigarette light is defective.	Consult auto mechanic or dealer
<b>False Alerts</b>	High volume of non-police X-band in use	Activate City Mode to reduce alerts
<b>Poor Laser Detection</b>	Laser detection lenses potentially blocked	Reposition unit. (see mounting instructions)
	Radar signal is undetectable through windshield	Determine if vehicle has a "heated windshield coating" (see mounting instructions)
<b>Partial Display</b>	Dark Mode engaged	Disengage DIM or Dark mode
<b>No Signal Response</b>	The police vehicle may not be equipped with radar OR police may be using VASCAR-type speed detection	



# SPECIFICATIONS

## **RADAR**

Receiver Type:	Dual conversion Superheterodyne
Antenna Type:	Linear polarized, self-contained antenna
Detector Type:	Scanning frequency Discriminator
Frequency of Operation:	10.525 GHz $\pm$ 50MHz (X-band) 24.150 GHz $\pm$ 100 MHz (K-band) 34.7 GHz $\pm$ 1.300 MHz (Ka Super Wide-band)

## **LASER**

Receiver Type:	Pulse laser signal receiver
Detector Type:	Digital signal processor plus width discriminator
Opto Sensor:	Dual convex condenser lens and high-speed photo diode detector

Spectral Response: 800- 1,100nm

## **GENERAL**

Temperature:	Range -4° F to 158° F (-20 to 70 C)
Power Requirements:	12 - 16VDCV. 310mA (Negative Ground)
Dimensions (HWD):	1.4"x2.8"x4.4"
Weight:	4.76 OZ



Note:

Specifications are typical. Individual units may vary and change without notices. Performance may vary depending on drivers' behavior and environment.

Subject to one or more of the following patents: (#5,917,430).

Other patents pending: n/a

## LIMITED WARRANTY

BG Tech America, Inc. warrants that its Early Warning Radar Detectors, and the component parts thereof, will be free of defects in workmanship and materials for period of one (1) year from the date of first consumer purchase.

This warranty covers all defects in materials and workmanship. This warranty does not apply if the unit has be subject to physical abuse, improper installation, modification or if the housing or serial number of the unit has been removed. The enforceability of this warranty is limited to the original consumer purchaser and is not transferable, to enforceable by, any subsequent owner.



In the event of a defect, malfunction or other failure to conform to this warranty. BG Tech America will, at its sole discretion, repair or replace the unit at no charge. You are responsible for all shipping costs in connection with warranty .

There are no express warranties covering the unit other than those set forth in this warranty. All implied warranties are eliminated to the period of this warranty and nor warranties, expressed or implied, extend beyond this period.

BG Tech America will in no event be liable for any consequential, incidental, Indirect w special damages (including, but not limited to, lost profits) arising out of or in connection -with the use, misuse, or function of the unit.

## **HOW TO GET WARRANTY SERVICE?**

Type or print your Name, Address, Telephone number and Model number of the unit in need of service. Also attach your dated sales receipt and description of the problem and send to:

**BG Tech America, Inc.  
300 Park Blvd., Ste. 335  
Itasca, Illinois 60143, USA**

Or, email your request to [cs@bgtechamerica.com](mailto:cs@bgtechamerica.com)

Or, call us to 1-866-363-0550



**PLEASE DO NOT SEND THE DETECTOR TO THIS ADDRESS.**

**PLEASE NOTE THAT IT WOULD BE MORE CONVENIENT  
FOR US TO RESPOND YOU BY EMAIL COMMUNICATION.  
YOU WILL GET THE FASTEST SERVICE USING EMAIL.**

## ACCESSORIES

If you require additional accessories or replacement accessories for your unit, send a money order payable to BG Tech America and brief note stating your name, address, telephone number, model number, and the list of accessories requested.

DESCRIPTION	PRICE USD
Power Cord	\$5.00
Power Cord Fuse	\$5.00
Windshield Bracket w/suction cups	\$5.00
Suction cups	\$1.00
Speaker	\$10.00
Owner's Manual	N/C

## NOTE

## NOTE

Federal Law Governs the Use of Radar Detectors. It is not against federal law to receive radar transmissions with your Early Warning™ radar detector. The Communications Act of 1924 guarantees your right to receive radio transmissions on any frequency. Local laws that contravene this Act, while illegal, may be enforced by your local law enforcement officials until and unless they are prohibited from doing so by federal court action.

**\*FCC STATEMENT\***

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,
- (2) this device must accept any interference received, including interference that may cause undesired operation

**NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT**



