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I . MODEL FEATURES AND CONTROLS

- Real Tone Alert
- X, K, Ka Super Wideband Detection
- All Laser Detection
- 360° Laser Detectability
- Instant – On/Pulsed Radar Alert
- Smart Text LCD Display
- User Programmable
- Memory Retention
- Signal Strength Meter
- Visual & Audible Alarms
- Electronic Power On/Off Switch with Volume Control
- External Jack for External Laser Censors
- Mute Mode
- City Mode

1. **Bracket Lock/Release Button** – Easy lock/release of the mounting bracket.
2. **Power Jack** – Connection for the power cord .
3. **Speaker** – Provides distinct tone alarms for X, K, Ka band radar and laser.
4. **Power Button** – Turns unit on/off .
5. **High Visibility Alphanumeric Text Display** – Provides distinct visual confirmation of signals strength, signal band identification and indicates engaged modes of operation.
6. **MUTE Button** – Pressing MUTE during a radar/laser encounter silences audio alerts.
7. **CITY Button** – Reduces the annoyance of false alerts typically encountered in urban driving areas.
8. **Volume Control(+, -)** – Adjusts audio level
9. **Laser Lens (Rear)** – An integrated optical waveguide provides superior detection of laser signals transmitted from behind
10. **Laser Lens (Front)** – High gain optical lens array provides increased sensitivity and field of view for leading edge laser detection.
11. **Radar Antenna** – Compact, high–efficiency antenna receives radar signals.
12. **Mounting Bracket Location** – Slot holds mounting bracket firmly.
13. **EXT** – Port for external laser sensor connection

II . ACCESSORIES INCLUDED WITH RADAR DETECTOR

- Owner’s Manual
- Power Cord & Cable
- Mounting kit
- Hook & Loop Fasteners
- Spare Fuse

III. MOUNTING INSTALLATION

- Windshield Mounting
- Dash Board Mounting
- Power connection

IV. OPERATION GUIDE

Buttons

- Buttons to have adequate tactile feel and size to be actuated while using riding gloves.
- Button Functions:
 - Button 1 (left side "VOL+")- Volume Increase and Brightness Increase.
 - Button 2 (left side "VOL-") – Volume Decrease and Brightness Decrease
 - Button 3 (left side center) – Power On/Off.(Push)
 - Button 4 (upper left) – City/Highway Mode
 - Button 5 (upper right)– Mute and Intensity Off and backlights adjust mode.
 - Button 6 (upper center)– Menu mode and Radar band on/Off setting.

“long” means about 2–3 sec

• Power on &Self test/

Press the Power Button for 2 seconds to turn the unit on or off

Start Up

“Adaptiv ” will be the Alphanumeric TEXT display, entering from the right and exiting at the left, and it will all the way through:



Then self test will start, where each band will be displayed accompanying its alerted sound:

Then the display that the system is ready:





Then the unit will display the City/Highway Mode that the unit is currently in, either:



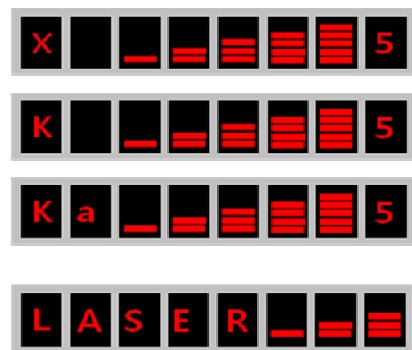
or



and the system will remember the last City/Highway setting each time it is turned off. “City” or “Highway” will be the default display on the TEXT DISPLAY when no other information needs to be conveyed.

Main Unit Functions

When radar or laser signals are detected, the detected band and its strength will be displayed, along with its distinct sound alert.

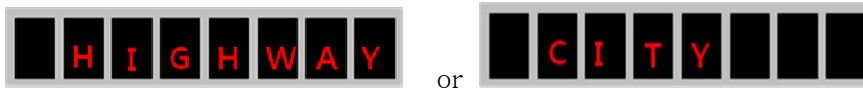


Power Button (Left side :center)

Press the Power Button for 2 seconds to turn the unit on or off.

CITY Button (upper right button)

For City/Highway Mode, each time this button is pressed it will toggle between “City” and “Highway” modes, and the display will display the mode setting selected. A beep will be emitted with each mode change.



For Peripheral Control Mode, each time this button is pressed for 2 or more seconds it will toggle between “Volume Control” (Vol), and with the following displays:



The display for the toggled Peripheral Control Mode will only be displayed on the DISPLAY for 2 seconds, then the display will revert back to either “City” or “Highway”, unless a signal is being detected.

The Peripheral Control Mode affects how the “Up” and “Down” buttons function, which will be explained later in this document.

Dim/MUTE Button (Upper left button)

If a radar or laser signal is detected, pressing this button will temporarily mute all audio alerts (main unit) and stop. Audio will be stopped for the duration of the detected signal and any new signals detected within the next seconds. When this button is pressed,



will be displayed for 1 second, and the detected radar or laser signal will return to the Text display.

When this button is pressed for 2 or more seconds, it will toggle the DIM-MUTE Buttons on the Main Unit buttons on/off.

Up and Down Buttons (Left side buttons)

The “Vol-” and “VOL+” buttons control the volume of the Main Unit. When each is pressed for 1 or more seconds, the increase or decrease in the volume will increase or decrease continuously until the maximum or minimum volume level is reached. The system will remember the last volume setting each time it is turned on, where auto-setting is the default (explained below).

The display is as follows:



Memory Retention

Electronically remembers all your own settings for a certain period of time after power-Off.

V. TROUBLESHOOTING GUIDE

PROBLEM: No display or audio.

- Check fuse in the plug and 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: Unit alarms when using vehicle equipment or electrical accessories

(brakes, power mirrors/windows, directionals, horn, etc.).

- Vehicle's electrical system, including battery and alternator, may have electrical noise. Install a filter capacitor (470mfd. 25 volt or larger capacitance value) on the back of the lighter socket.

Factory setting

All user features can be reset to factory settings. Please follow below steps for reset.

1. Unplug Power Cord from unit
2. Press and hold Power and Mute/Mod Key.
3. Plug Power Cord into unit.
4. Wait for 2 beeps.
5. Release Power and Mute button. Unit is now reset

– Factory reset –

- Highway Mode On.
- Dim/Dark Mode to full illumination of display.

VI. SPEED MONITORING DEVICES

Radar speed gun

A radar gun operates by transmitting radio waves at certain frequencies which reflect off objects and are then 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.

Laser speed gun

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 transmission can cover more than a four-lane highway at a distance of 1,000 feet, compared with a laser transmission which covers about 6 feet at the same distance.

For best protection, keep these points in mind:

- Because your vehicle's license plate or headlights are the laser gun's primary targets, mounting your 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 won'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

VII. MAINTENANCE

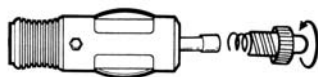
Care And Maintenance

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.

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.

VIII. SPECIFICATIONS

• General

Dimensions:	65mm(W)x 118mm(L) x 42mm(H)
Weight:	185 g
Power Requirement:	CAR Battery 12V DC
Temperature Range:	Operating -20°C to +80°C Storage -40°C to +100°C

• Laser Detector

Receiver Type	Pulse Laser Signal Receiver
Sensor Front End	Convex Condenser Lens
Detector Type	Pulse Width Discriminator
Receiver Bandwidth	30 MHz
Spectral Response	800– 1100 nm

Radar Detector

Receiver Type	Double Conversion Superheterodyne
Detector Type	Scanning Frequency Discriminator
Antenna Type	Linear Polarization
Frequency of Operation	10.525 GHz \pm 50 MHz (X Band) 24.150 GHz \pm 100 MHz (K Band) 34.700 GHz \pm 1300 MHz (Ka Band)

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.