radenso
SP

user manual

contents.

foreward

Congratulations on your new investment! The Radenso SP was designed to deliver class-leading radar detection performance on all radar bands, coupled with the best false alert filtering in the industry.

Features

- LNA equipped antenna board
- Long range on all radar bands
- RJ11 power connection
- Bright orange-red OLED display
- Selectable radar bands (X, K and Ka band)
- 10 Ka band segments selectable
- K narrow band
- Ka POP radar
- Low power K band detection
- BSM/CAS filter to eliminate falsing from newer cars
- TSR filter to eliminate falsing from Traffic Sensors
- Multiple Threat display
- Auto Mute
- Mute Mode
- Voltage display
- VG2/VG3 undetectable
- Spectre undetectable (up to 15 feet)
- Highway and City mode
- Free firmware updates for life
- Voice alerts
- Test Mode

what's inside.

A. Radenso SP
- Small, easily mountable radar detector
- Intuitive OLED display

B. Power Cable
- Provides power to the SP through the car's 12V power outlet

C. Windshield Mount
- Attaches easily to the SP
- Strong suction cups attaches securely to the windshield

D. Travel Case
- The travel case fits your detector and cords for compact travel

E. USB Cord
- Mini USB cord connects your SP and computer to allows firmware updates

F. Extra Fuse
- An extra fuse for your power cord

additional accessories

Direct Wire Kit (optional)

- Allows you to hardwire your unit directly to your vehicle
- Frees up your car's power adapter
- Compatible with the Radenso XP / SP

Radenso Mute Power Adapter with USB Port (optional)

- Provides power to the SP through the car's 12V power outlet
- Allows you to easily mute and create GPS lock-outs without having to reach up at your SP
- You can also charge a device using the USB port.

Visor Mount (optional)

- The visor mount allows you to clamp your SP to your visor rather than your windshield
- Compatible with the Radenso XP / SP

installation guide

Quick Start Up Guide
To start using your Radenso SP radar detector, follow these easy steps:

1. Slide the windshield mounting bracket into the QuickMount slot at the front of the radar detector.
2. Insert the RJ11 connector of the power cord into the power jack of the Radenso SP, located on the left side. Insert the 12V plug into the power socket of your vehicle.
3. Once connected to a 12V power source, the radar detector starts up with a very brief startup sequence.
4. Adjust the volume setting by pressing and holding the VOL-/CITY or VOL+/DIM button for 2 seconds.

Factory Reset
1. Select "Factory Reset" in menu mode to reset all settings back to their factory defaults, except GMT setting.

Firmware Update
1. Connect the radar detector to a Windows-based PC via mini-USB cable and use the Firmware Update Manager program to download a new firmware to your Radenso SP.
2. The Firmware Update Manager program can be found on the "Support" section of the Radenso homepage at http://radenso.com.

SP user interface

The Radenso SP has an easy to use interface. The unit has four buttons on top to make changing settings simple and quick.

A. Power/Menu Button
Short Press: Power on/off
Long Press: Enters menu mode
When in menu mode: Toggle setting option, or long press to exit menu mode

B. Vol -/City Button
Short Press: Change the driving mode (Highway or City)
Long Press: Decreases volume (0-9)

C. Mute button
Short Press: Toggle mute mode on/off (Mute mode will mute all X and K band signals)
When in menu mode: Toggle setting option

D. Vol +/Dim Button
Short Press: Changes display brightness
Long Press: Increases volume (0-9)

E. Release Button
Press the button and slide the windshield mount until it is locked. Press the button to unlock the mount for removal.

settings

BEGINNER SETTINGS

Smart Dark
Setting options: Bright, dim, dimmer

User Mode
Setting options: Beginner, expert

X Band
Setting options: off, on

K Band
Setting options: off, narrow, wide

Ka WIDE Band
Setting options: off, on

Laser
Setting options: off, on

TSR Filter
Setting options: off, on

Driving Display Mode
Setting options: voltage, off

Firmware Version (FW VER)
Setting options: X.XX

Factory Reset
Resets your SP settings to the factory default settings.

EXPERT SETTINGS

Once you activate "Expert" as the user mode, these options will be available to customize in addition to the beginner settings.

Ka1-Ka10
Setting options: off, on

POP
Setting options: off, on

BSM Filter
Setting options: off, on

Auto Mute
Setting options: 0%, 20%, 40%, 60%, 80%

City Mode Filter
Setting options: 0-90% for each band (X, K, and Ka)

Display Mode
Setting options: Standard, frequency, threat

Voice
Setting options: off, on

Test
Setting options: off, on

settings

Alert Priorities

1. The radar detector will alert in the following priority order (highest to lowest):
   POI detected alert and POI pass alert
   - Laser
   - Ka band:
     - Standard:
     - Frequency:
   - K band:
     - Standard:
     - Frequency:
   - X band:
     - Standard:
     - Frequency:
   - POI Limit Speed

Brightness Mode

1. Display brightness can be selected as follows:
   - **Bright:** Full brightness
   - **Dim:** Reduced brightness
   - **Dimmer:** Further reduced brightness
   - **Dark:** The display turns off (completely dark). The display only turns on when a button is pressed
   - **Smart Dark:** The display turns off (completely dark). The display turns on when a button is pressed or during an alert

Brightness Mode

1. 1. Display brightness while in Smart Dark Mode can be selected as follows:
   - **S.D.Bright:** Full brightness
   - **S.D.Dim:** Reduced brightness
   - **S.D.Dimmer:** Further reduced brightness

Mute Mode

1. Pressing the MUTE button during an alert will temporarily mute the detected signal and will automatically un-mute 20 seconds after the signal has passed, or if a new or different signal has been detected.
2. Pressing the MUTE button without an alert will permanently mute the radar detector on X and K bands until manually unmuted or after a new startup cycle. Ka band and laser alerts will NOT be muted in this mode.

Mute Mode: Auto

1. Auto Mute Mode is selectable and reduces the alert vlume by 0%, 20%, 40%, 60%, or 80%. The default is 40%.
2. Radar bands (X, K, and Ka) and POI limit speed: current volume level stays for the first 3 seconds after the alert begins, afterwards, it's reduced to the selected Auto Mute level. Auto Mute is not applicable to laser alerts.
3. Auto Mute ends 10 seconds after the alert ends. If the same radar frequency is detected or begins within 10 seconds, the radar detector keeps Auto Mute active.
4. If a different radar band is detected or begins while Auto Mute is active, Auto Mute will be disabled and will revert back to the current volume level.

Notifications

When a radar signal is detected, the driver will be alerted by a visual text warning and a voice/tone alert that will indicate the detected radar band, frequency and signal strength. The display will blink for 3 seconds and a beeping, warning tone will increase its intensity with increasing signal strength. The signal strength has 9 levels. The GPS alerts are reported by voice and text.

settings

Threat Display
1. If the radar detector detects more than one signal, the additional received signal/s will also be displayed when display setting is set to "THREAT."
2. The display will show the three strongest signals in the following priority (highest to lowest)

User Setting Memory
1. All features selected and configured are stored in the radar detector's memory.
2. If "MUTE ON" is enabled, it will revert back to "MUTE OFF" (default) after the radar detector restarts.

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

FCC ID: 2AEE3XP
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.

tech specs

Detector Type
- Dual conversion super-heterodyne receiver
- Linear polarized self-contained antenna Scanning frequency discriminator

Operating Frequency
- X band: 10.475 - 10.575 GHz
- K band wide: 23.950 - 24.250 GHz
- K band narrow: 24.080 - 24.200 GHz
- Ka band wide: 33.400 - 36.000 GHz

Technical Parameters
- Operating temperature:
    -30° to +185° F
- Power requirement:
    11V-16V DC
    200mA Negative ground
- Dimensions:
    72(W) x 116(L) x 34(H) mm
    2.83(W) x 4.75(L) x 1.34(H) in
- Weight:
    8.2 oz (200g)

troubleshooting

The dectector will not turn on.
- Check if the power cable is connected.
- Turn on ignition.
- Check the fuse located at the tip of the plug.

The display will not turn on.
- Power cable is disconnected or switch has not been turned on
- Display is set to "Dark" or "Smart Dark" mode

The detector alerts visually but there are no voice or audio alerts.
- The alert volume is turned down. Increase the volume.

The windshield mount does not adhere to the windshield.
- Clean the suction cups and the windshield.

The detector alerts to a signal but no police radar trap can be located.
- The detector could have received a false alert signal from a motion sensor. Lockout the known false alert location.

The unit suddenly alerts at high intensity while driving on the Interstate although there is no police in sight.
- Radar operated traffic sensors are placed along your road; turn on Traffic Sensor Rejection (TSR) filter in the menu

The detector starts alerting with low intensity following another vehicle.
- The vehicle in front of you is equipped with Blind Spot Mirror (BSM) or Lane Assist feature. Turn on the BSM filter in the menu

The detector did not alert to approaching police vehicle.
- The officer is not operating radar equipment.
- One or more radar bands have been deactivated. Check in the menu if all radar bands used in your area are turned on.
- You may have activated a speed limit in the menu and you were traveling below the set speed limit.

Radenso SP never alerts to radar or alarm turns on after passing the radar source.
- Your vehicle might be equipped with a metal coated windshield that prevents the reception of radio waves. **Check with your local dealer.**
- The speed limit setting in the menu has been set above normal traveling speed. Turn off speed limit setting or set to a lower speed.

warranty

One (1) Year Limited Warranty

RADENSO warrants, for one year, to the original retail owner, this RADENSO product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty, to the original user, is valid for 12 months after the date of the original retail sale.

SCOPE OF WARRANTY:
From the date of original consumer purchase and for the respective periods specified above, RADENSO agrees to repair or replace, at its sole expense, all RADENSO brand products purchased directly from RADENSO or from an Authorized RADENSO Dealer, which are defective in material and/or workmanship during ordinary consumer use. Repairs may be completed using new or refurbished parts that meet or exceed RADENSO specifications for new parts. RA-DENSO, at its sole discretion, may replace a product, with a refurbished or reconditioned unit having comparable features and a limited consumer warranty.

EXCLUSIONS:
IF YOU PURCHASE A RADENSO PRODUCT FROM AN UNAUTHORIZED DEALER, YOUR RADENSO WARRANTY WILL NOT BE VALID.

This Warranty does **not** apply with respect to the following:

1. Defects or damage cause by accident, fire/smoke, flood/water damage, power surge (or related electrical abnormalities), lightning or other acts of nature.
2. Defects or damage caused by abuse, misuse, negligence, accident, unauthorized product modification or service, or failure to observe the instructions.
3. Deterioration/failure due to corrosive atmosphere, including but not limited to; smoke, high humidity, or extreme temperature.
4. Damage caused during shipment or handling.
5. Products purchased from anyone other than RADENSO or an Independent RADENSO Authorized Dealer. If you are uncertain as to whether a dealer is authorized, please contact RADENSO's Customer Service.
6. Products that have had their serial numbers altered or removed.
7. Products purchased in "AS IS" condition or noted as "DEMO", "DISPLAY", "OPEN BOX", or "CLEARANCE".
8. Products that have been altered or repaired by anyone other than RADENSO or a RADENSO authorized service station in a manner that has affected their performance, stability, or reliability.
9. Any product attached to or used with the RADENSO product.
10. Packing materials or cosmetic items.

warranty

11. Installation and removal of RADENSO products from the vehicle.
12. Maintenance, cleaning or periodic check-ups.

OBTAINING OF WARRANTY SERVICE:
If, after contacting Radenso Customer Service, you are certain that the product is defective, pack the product carefully (preferably in its original packaging) and include evidence of original purchase and a note describing the defect. The product should be shipped freight prepaid, by traceable means, or delivered, to warrantor at:

RADENSO,
1100 Sycamore St. Floor 1
Cincinnati OH 45241

1-888-RADENSO (1-888-723-3676) 9 a.m. to 5 p.m., Eastern Time, Monday through Friday

support and contact

Contact Information
Thank you for purchasing the most advanced radar and laser defense in the world. Here at Radenso, we take your support very seriously; if you need support in any capacity, please contact us immediately.

Address

noLimits Enterprises
1100 Sycamore Street
Floor 1
Cincinnati, OH 45202

Phone

1-888-RADENSO
(1-888-723-3676)

9AM-5PM EST, Monday - Friday

Email

support@nolimitsenterprises.com

We hope you enjoy your product for many years!

Regards,

The Radenso Team