radenso

USER + INSTALLATION MANUAL

Radar Detector Radenso RC-M

Congratulations on your purchase of world's most intelligent radar and laser detector Radenso RC-M.

Main functions of Radenso RC-M

Radenso RC-M is the most advanced detector from Radenso family and is designed to protect the driver from speeding fines. Radenso RC-M communicates with driver in English language and its main functions are detection of microwave radars (X / K / Ka bands), red light cameras and sectional speed cameras (using its own GPS database), MultaRadars CT/CD and radar Gatso RT3, or jamming laser guns. It also provides a quick deactivation of all functionality via removing the magnetic display. Radenso RC-M also displays connectivity status of GPS antenna and all connected radars and accessories. Disconnected GPS is signaled by flashing GPS icon on the screen, and accessories are signaled in the same way by flashing the HWY, A-C or CTY icon.

Notifications:

Text warning and voice alert appears on Radenso RC-M during radar alert. The strength of the signal and beeps expresses the intensity of the received signal. Signal strength has ten levels. GPS alerts are reported by voice. For example “Speed Camera”. Accessories alerts are reported by voice: „Laser”.

Control:

1) First button MENU / ON-OFF

Short press: You will enter into the setup menu.
During the signaling radar, you will mute the volume. The next alarm will be reported again in the standard volume.
Long press: Turn ON / OFF Radenso RC-M.
During radar signaling, you enter the menu via long press

2) Second button BRIGHTNESS / ALERT SUPPRESSION

Short press: You can change the brightness of the display - Bright -> Dim -> Smart Dark -> Full Dark. Long Press: If you hold it during an alert you will mark the place of false radar reporting so at a given point detector during the next passage will be suppressed. If you suppress a false alert, the detector will not detect radars. Hold button during the "suppressed" radar alert and this listing will be canceled. After next passage radar alert will be signaled acoustically.

3) Third button SENSITIVITY / ADD YOUR OWN GPS POINT

Short press: You can scroll between Highway / City / Auto City modes. In City or Auto City modes the sensitivity of X / K / Ka bands can be reduced according to user preference. Long Press: Add your own GPS point.

4) Buttons ∧ ∨

Short press: Changing volume of the detector.

Menu:

Press first button for entering into the menu.

Press the second button to go from one category to the next.

Press VOLUME ∧ or ∨ (on the right side of the detector) to change your setting within a category. To complete this change, simply wait a few seconds without pressing a button. The unit will display “Setting Completed” to confirm your selection. Alternatively, you can get out of the menu by pressing the third button. After five seconds of inactivity, the menu will automatically save and quit. Alternatively, you can quit the settings menu by pressing the mid button.

Items in the menu are as follows:

(recommended settings are highlighted)

Front Radar: **On** / Off - Switches on Front Radar functionality. In case this option is turned off, further menu items controlling the Front Radar are not displayed.

Rear Radar: On / **Off** - Switches on Rear Radar functionality. In case this option is turned off, further menu items controlling the Rear Radar are not displayed.

Sensitivity: **Highway** / City / Auto City

Setting the speed in Auto City (item is present only if the sensitivity is set to Auto City): Through second button you are selecting between speeds for editing (left number indicates the speed below which the detector will not respond to alerts. Right number indicates the speed below which the detector will detect alerts like in City mode). ∧∨ buttons on the detector change the specific speed. When the detector is set up to “20 50” speed below 20 km/h on the radar will not respond. In the velocity range, 20-50 km/h will only respond to stronger radar signals. Maximum detector sensitivity on the radar starts from 50 km/h.

Setting values City and Auto City sensitivity (entry is present only if the detector sensitivity is set to other than Highway): Via the second button you can select radar band for editing. To change the signal level which will respond to radar signals use ∧∨. The level of suppression can be selected in the range 0-9. For example, when setting is X2 K2 and Ka2 the level of detection in all bands are slightly decreased.

The minimum speed for signaling radar: Off, 10 km/h, 20 km/h, 30km/h .... 130 km/h

F - X-Band: On / **Off**

F - K-Band: Wide / Narrow / Instant Only / **Off** (In countries, where police use K band radars, it is recommended to use K Narrow setting)

F - K Filter: **Off** / Low / High - Filtering false alerts from blind spots and ACC. (When K Filter is activated, pulsed radars such as Iskra are not detected)

F - Ka-Band: Wide / **Narrow** / Off
F - Ka 34.0 On / Off (if you are sure that police in your region does not use this band, then Off)
F - Ka 34.3 On / Off (if you are sure that police in your region does not use this band, then Off)
F - Ka 34.7 On / Off (if you are sure that police in your region does not use this band, then Off)
F - Ka 35.5 On / Off (if you are sure that police in your region does not use this band, then Off)

F - Ka Filter: Off / **Low** / High - Filtering false alerts from blind spots and ACC. (When Ka Filter is activated, detection distance on Ka band radars is slightly reduced. We recommend using „Normal“ which is very good in sensitivity/false alerts immunity ratio.)

F - Laser: **On** / Off

F - MR CT: Wide / Narrow / **Off** - These radars are being used in countries SR, A, PL, NL, ES, P, LT. We recommend using „Narrow” settings in these countries. In any other country, we recommend to leave the function „Off”. F - MR CD: Wide / Narrow / Off

F - Gatso: On / **Off**

F - MR Filter: Low / High / **Off** - Filtering false alerts from blind spots and ACC. (When MR Filter is activated, detection distance on MR band radars is slightly reduced. We recommend using „Normal“ which is very good in sensitivity/false alerts immunity ratio.)

R - X-Band: On / **Off**

R - K-Band: Wide / Narrow / Instant Only / **Off** (In countries, where police use K band radars, it is recommended to use K Narrow setting)

R - K Filter: **Off** / Low / High - Filtering false alerts from blind spots and ACC. (When K Filter is activated, pulsed radars such as Iskra are not detected)

R - Ka-Band: Wide **/ Narrow** / Off
R - Ka 34.0 **On** / Off (if you are sure that police in your region does not use this band, then Off)
R - Ka 34.3 **On** / Off (if you are sure that police in your region does not use this band, then Off)
R - Ka 34.7 On / **Off** (if you are sure that police in your region does not use this band, then Off)
R - Ka 35.5 On / **Off** (if you are sure that police in your region does not use this band, then Off)

R - Ka Filter: Off / **Low** / High - Filtering false alerts from blind spots and ACC. (When Ka Filter is activated, detection distance on Ka band radars is slightly reduced. We recommend using „Normal“ which is very good in sensitivity/false alerts immunity ratio.)

R - Laser: On / **Off**

R - MR CT: Wide / Narrow / **Off -** These radars are being used in countries SR, A, PL, NL, ES, P, LT. We recommend using „Narrow” settings in these countries. In any other country, we recommend to leave the function „Off”.

R - MR CD: Wide / Narrow / **Off**

R - Gatso: On / **Off**

R - MR Filter: Low / High / **Off** - Filtering false alerts from blind spots and ACC. (When MR Filter is activated, detection distance on MR band radars is slightly reduced. We recommend using „Normal“ which is very good in sensitivity/false alerts immunity ratio.)

Jammer: ALP / FF / **Off** - Turns on accessories. Please note, that it is important that you would select the correct type of accessories you have installed in your car, for the PRO will not work as intended if your settings are incorrect.

Parking Assistance: On / **Off**

Jamming: **Off** / 1s / 2s / … / 9s / Unlimited - Sets the length of laser gun jamming.

Display Mode: **Speed/Time**, Speed/Voltage, Battery Voltage, Time, Speed, Speed/Compass Auto Mute: On / Off: If it´s activated, after two seconds of ongoing alert the volume will be reduced.

Startup sound: **On** / Off

GPS connect announce: **On** / Off

GPS detection by database type: Via Second button you can select the type of GPS points. For editing use ∧∨. You can turn on and off particular type of point.

GPS warning distance: **Normal (approx. 250m)** / Farther (approx. 375m) / Farest (approx. 500m)

Unit**: Imperial** (mph) / Metrics (km/h)

Setting local time: You can change time zone via ∧∨

Language: English / Deutsch / Czech

Factory reset: For reset press third button.

Delete all user points: For deleting all user points press third button.

S/N: XXXXX - Displays you Serial Number, that might be needed for you Radenso RC-M Update

SpeedMeter Option:

This function is intended for the legalization of the detector when used in countries where radar detectors are illegal. The detector stops alerting you on GPS points, radars, and lasers and there is only current speed shown at the display. To activate this function you need to hold the Second and third button for approximately 5 seconds. After that, you will enter into SpeedMeter. In SpeedMeter mode GPS points, radars and laser functions are disabled. To reactivate your detection capabilities you need to run a complete FW update.

Operating frequency:

GPS: SiRF STAR IV
Ka narrow: 34.0GHz, 34.GHz, 34.7GHz, 35.5GHz (±120MHz)
Ka wide: 33.4 GHz ~ 36.0 GHz
K narrow: 24.125GHz (±70MHz)
K wide: 24.125GHz (±150MHz) MultaRadar CD/CT, Gatso RT3
Laser: 904nm

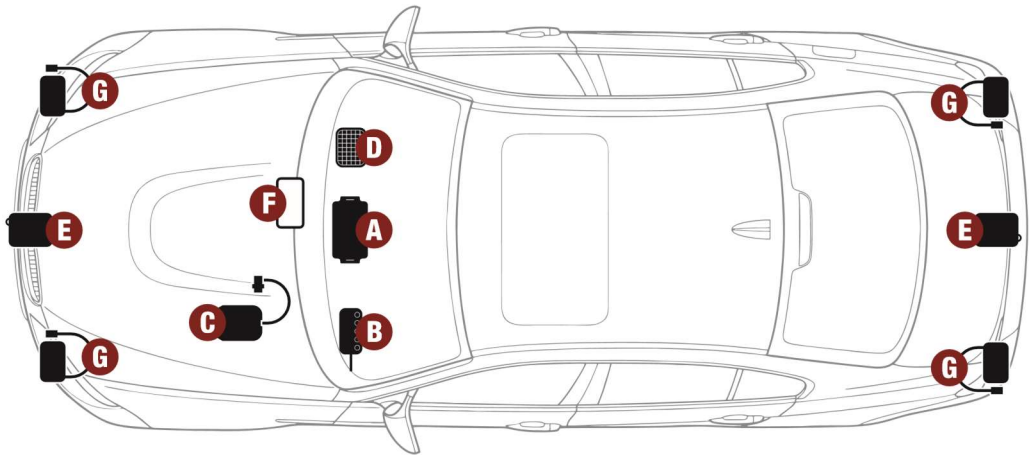
Technical parameters:

Operating temperature: -20 +85 °C
Storage temperature: -20 +85 °C
Operating voltage: 11 – 16 V
Power consumption: 250mA normal, 330mA max
Dimenisons: 62 x 92 x 34 mm

Database Updates:

Database update is recommended to check once in three months.
Download of the new database is performed according to the instructions at www.radenso.com
You can register and receive notifications of new and updated database to your email

Installation manual Radenso RC-M



A) Radenso RC-M CONTROL UNIT

The control Unit is usually placed in a fuse box, space above pedals, using stripping tape to wires in your car, or using double-sided duck tape. Connecting individual components is obvious thanks to writing on the control box. All can be easily done thanks to plug-in connectors. When connecting individual accessories please mind the plug you are trying to connect the cables into, as they must be connected to a correct plug, in case it isn't so the RADENSO RC-M might not work properly or be permanently damaged. Also be mindful of placing the control unit so that the speaker on top of it is placed facing in free space.

B) DISPLAY

The display is usually placed in vehicle cabin on your consideration using the double-sided sticky tapes, or magnetic tape. We recommend placing the display in an easily accessible area.

C) GPS ANTENNA

Place the GPS antenna using double-sided duck tape to a place where the antenna can see the sky. Ideally on the dashboard of your car. If you are placing it under the dashboard, make sure that the antenna is not covered by any metal objects. you can check the antennas functionality on the display. If the GPS icon glows constantly, it means it works as intended, in case it's blinking it means that it can not find a GPS signal. The first time it can take 1-5 minutes for the GPS to connect.

D) SPEAKER

Signaling speaker should be placed somewhere in the leg-space of the driver, or passenger. Youneed to pace it so that when the speaker goes off you can clearly hear the alerts

E) RADAR ANTENNA HD+ / HDM+

The antenna captures signals emitted by radars; the choice of the installation place is, therefore, crucial to its proper functioning and good sensitivity of the detector. The antenna is mounted to the front of the car, usually into its plastic bumper or behind the front grille in front of the vehicle radiator. It must be installed in the place from where the front part has a good view of the road ahead. It is ideal to locate the antenna into the bumper vent, 30-50 cm above the ground. If you choose to mount the antenna so that the bumper covers its front part, check the material from which the bumper is made and whether it contains a metal reinforcement. Some types of plastic can weaken radar waves and reduce the efficiency of the detector. Never mount the antenna behind metal parts of the vehicle! When installing the antenna, you can use self-tapping screws in places where the nut can be attached from the other side, as well as classic nut bolts.After selecting a suitable location for the antenna and the type of screws, drill two to four screw holes. It is recommended that the antenna is attached with 4 screws. The antenna cable can be slightly bent. Firstly, attach the antenna with two screws crosswise against each other and tighten them partly; then mount the remaining two screws.

In some vehicles, it is advisable to carry out the installation using a special support plate that is included in the sales package. It has the shape of the letter “L” and is made of thick steel plate with pre-drilled holes. Firstly, screw the support plate to the appropriate place, and then attach the antenna to the plate.

F) LASER SYSTEM CONTROL UNIT

Control unit is installed in the interior of the vehicle, either under the dashboard or under the padding, however you see fit. The only important thing is that the control unit must not get into contact with water. Connect the control unit power cord to the control unit using the dedicated pins.

NOTE: 1A fuse is placed inside the control box. If you require extra fuse it can be installed on the cables (not necessary). After the laser system control unit is connected to the Radenso RC-M hub, connect the sensors into one of the „S" slots. In case you use multiple sensors connect all of the regardless of the order

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G) LASER SENSORS

Laser sensors can be mounted on the front of the vehicle in the front grill, above the bumper or in the rear of the vehicle. Be extra careful to not damage the cable, sensor or connector during installation, as it will terminate your warranty. To ensure better looks of your vehicle we recommend to use plexiglass „Perspex" to hide the sensors. For more information about the glass please contact your distributor.

To drive the cables to the fuse box, please use the original cable pass. In case there is not enough space there you will need to drill an extra hole for the connector and the cable. Please be extra careful again to not damage cables or other car installation. After you finish the cable installation, you should seal the gap using silicon or other fillings to prevent water and humidity entering the vehicle. Check the cable if its long enough to reach the desired destination. When you have connected together with a cable from the sensor (1m long) with the control box cable (4m long) make sure to use waterproofing duck tape. You can use hot air or lighter to make the seal even tighter. Place the sensors so that they have a clear view to the front or the rear using the included holders and double sided duck tape. If necessary, you can bend the holder into required position. Make sure that the sensor is held firmly and can withstand vibrations caused by cruising and is still in horizontal front/rear facing position.

To ensure proper functionality of all assets of the Radenso RC-M detector, we recommend having the device installed in authorized garage.

To arrange installation, please contact your dealer.

Your Dealer:

Manual REV: 2017-10-15

FCC Notes

This device complies with part 15 of 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 GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE.
SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not ocurr in a particular installation. If this equipment does cause harmful interference to radio or television reception, wich can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.