



# MOBILE AND FIXED RADAR DETECTOR KAZA DM 480 DEFENDER II

## EUROPEAN MODEL



### 1. Introduction

Thank you for purchasing the KAZA DM 480 DEFENDER II Mobile and Fixed Radar Detector.

The new KAZA DM480 Defender II is a state-of-the-art radar detector that has been equipped with a new DSP antenna specially designed to detect new MTR (MULTARADAR) radars at great distances, without producing false alerts.

With extended range and fewer false alerts thanks to advanced digital signal processing (DSP) and in-vehicle technology (IVT) filtering.

The Kaza DM 480 DEFENDER II DSP Radar Detector and Warning System offers an improved detection range, increased detection distances and the practically complete elimination of false alerts caused mainly by adaptive cruise control systems and blind spot sensors fitted in some modern vehicles.



Radar detectors equipped with DSP technology recognize radar wave data by its unique signature. These detectors detect and block data that doesn't include individual signaling, offering an improvement in canceling false alerts and identifying real radars with digital signatures. Furthermore, DSP technology allows a permanent evolution of the firmware, adapting it to changes, such as: new radars, sensors in vehicles that could interfere with the radars, etc.

This powerful antenna increases sensitivity by more than 30% compared to the previous version. It relies on a new DSP chip to identify radar signals quickly and more efficiently. It multiplies by 100 the filtering and detection capacity of radio frequency emissions and optimizes the detections in MTR and KA bands.

The new radars called MTR, with intelligent multi-rail control, are being strongly implemented throughout Europe. They entail more than 30% of the radars in Spain and more than 80% in Portugal. They have become the model most used by police officers.

This type of radars that are replacing the older Multanova (34.3 Ghz and 35.5 Ghz) are able to act motionless and in motion, controlling several roads/vehicles at the same time.

The Kaza DM480 DEFENDER II radar detector and warning unit offers a DOUBLE SHIELD OF PROTECTION:

- GPS speed camera warning system.
- Exclusive DSP detector antenna with digital signature technology.

Do not use the KAZA DM 480 DEFENDER II to evade speed controls, but to make your driving safer. The device will remind you of the limits that must be followed at all times, helping you to avoid distractions that could lead to accidents or fines.

Do not operate the unit inside the vehicle while driving, as this may divert your attention from the road.

**Do not forget to check your country's legislation regarding the detector!**

**The user of this appliance is solely and personally responsible for its use, taking into account the provisions of each country. The manufacturer or distributor assumes no liability if its use contravenes with the regulations in force in the country in which it is used.**



## **2. Recommendations for use of the KAZA Radar Detector DM 480 DEFENDER II**

- Place it close to the glass, completely parallel to the road, and facing forward.
- Position it so that windshield wipers or other objects do not obstruct the view of the detector.
- Do not place it on top of the sun visors if the glass has a tinted sun protection area as the detector will not work properly.
- Make sure your vehicle does not have athermic leaded glass. With this type of glass, the detector will not work properly. Athermal glass has a leaded metal coating on the inside of the windshield. This metal coating can nullify or weaken the signal emitted by the radar, thus reducing or nullifying the strength of the signal reaching the detector. This can cause the detector to take longer to warn or even not to warn at all. In these athermic windows there is an area of black dots, just behind the rearview mirror, where it does not have the metal layer. To improve the reception somewhat, we recommend placing the portable detector there.

Detection distances depend on many factors: Detector installation and orientation, configuration, type of radar, traffic, interference, etc. But above all, it depends on the type of radar.

### **Considerations to use the KAZA DM 480 DEFENDER II Mobile and Fixed Radar Detectors**

#### **Differences between a radar detector and a GPS radar warning device?**

The radar **detector antenna**, located inside the device, detects the presence of a radar by receiving radio waves (Ghz) emitted by the radar.

The GPS **radar warning device**, located inside the device, knows the position of the vehicle at all times and also the position of fixed radars through the complete, careful and constantly updated database that is incorporated. Therefore, it does not have to pick up the signal of a radar, nor does it have to detect it. When your car approaches this point, the speed camera will warn you to slow down early enough thanks to its database. The effectiveness of a GPS speed camera depends on the quality of the database.

**The KAZA DM 480 DEFENDER II Mobile and Fixed Radar Detector combines both technologies, making it highly effective.**

#### **How does a police radar work?**

The unit emits high frequency electromagnetic radiation which is reflected from objects. The frequency of this radiation reflected from a static object is different from that reflected from a moving object and radars rely on this principle to calculate the speed of the vehicle. This is known as the '**Doppler effect**'.

The only way to 'detect' these radar emissions is by using 'radar detectors' like KAZA DM 480 DEFENDER II.

### **RADAR WARNING USING GPS ON THE KAZA DM 480 DEFENDER II**

In general, the GPS will announce all fixed radars, speed cameras, traffic light cameras, fixed variable speed cameras (photo 1, photo 2, photo 3).

The antenna will also detect them in some cases, but the GPS will give you a much earlier warning.



(Photo 1)



(Photo 2)



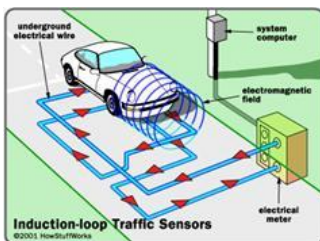
The **fixed Autovelox** (photo 3), are of the transverse laser type (**undetectable by any system**) and will therefore only be announced well in advance by the GPS warning device.



(Photo 3)

Other radars that do not emit waves and that can only be anticipated with the GPS warning device are induction radars and speed cameras:

**Induction radars** are cables placed under the asphalt that calculate the speed of the vehicle when you drive above them; they are also used in traffic light radars (photo 4).



(Photo 4)

The **speed cameras** are two video cameras, with an optical system to read license plates, separated by a fixed distance of X km (photo 5). The system measures the time the vehicle takes to cover the distance and calculates the average speed. This type of speed camera will be announced to you by your GPS.





(Photo 5)

### RADARS DETECTED WITH THE DETECTOR ANTENNA

The KAZA DM 480 DEFENDER II detector antenna detects radars that emit waves and use KA bands in 34.3 and 35.5 Ghz and the band of the new Multiradar CD and CT, as well as K band and X band (We recommend not connecting it as they do not exist in Spain and will produce false alerts).

In Spain, the KA band is used and they are of the Multanova 6F type, both fixed and mobile. In the KAZA DM 480 DEFENDER II model, this band comes as factory settings, as well as those in the new Multiradar. See examples (photo 6).



(Photo 6)

## RADARS NOT DETECTED BY ANY DETECTOR

**Autovelox mobile and velolaser** that work with a laser transverse to the road. There are about 2% of these radars. They can be identified by observing a car on the hard shoulder with the glass behind the driver half lowered (photo 7).

Sometimes the velolaser (central photo) if pointed straight ahead, could be detected by the laser detector.



(Photo 7)

## OTHER INFORMATION YOU SHOULD KNOW

Occasionally, your detector's antenna will not issue an alarm when passing in front of radar. This could be due to the following reasons:

1. Radar is off.
2. The radar is in calibration mode.
3. The radar may have been sabotaged.
4. The mobile radar is temporarily off because officers have stopped many vehicles and are ticketing.

In these cases, the detector antenna will not issue warnings, but you may receive alerts from your device's GPS system.

### 3. Interpretation of alarm messages

**The detector antenna suddenly emits an almost continuous tone and the visual alarm is visible.**

You are approaching a radar source nearby. This situation requires immediate attention.

**The detector antenna starts to make sounds slowly, gradually increasing in tone, the visual alarm is visible.**

You are approaching a radar source aimed at your vehicle.

**The detector antenna emits a weak signal and suddenly beeps at maximum intensity.**

You are approaching a radar source behind a mound or a curve. Because it is hidden, the signal is weakly detected. You will detect it at maximum strength when you approach the radar.

**The detector antenna issues short alarms for a few seconds.**

You are approaching a radar source, or transmitting station, located far away and out of sight. They are simply echoes of radio waves.

**The detector antenna receives a short laser-like alarm.**

There's a laser emitter, probably very close.



**The detector antenna emits intermittent alerts for no apparent reason.**

It is probably an official vehicle with a radar-emitting device driving in front of your vehicle. The radar signals are reflected by other vehicles and the radar detector picks up the echo. It may also be that another vehicle has a detector antenna and these detect each other.

**The detector antenna warns of a KA band weakly and intermittently.**

You are probably driving in an area with radar sensors (garage door remote controls, burglar alarms, mobile phone repeaters, etc.).

**The detector antenna warns of a MultaRadar weakly and intermittently.**

You are probably driving in an area with radar sensors (garage door remote controls, burglar alarms, mobile phone repeaters, etc.).

**The detector antenna beeps intermittently as you drive by the same place, but there is apparently no radar.**

There is probably an emission that produces a false alarm. When using the device, you can distinguish real alarms from false alarms.

**The detector antenna does not seem to react to mobile radars.**

Make sure that nothing is interfering with the device's field of view and that the antenna is correctly powered. Also check that there is no radar interference memory recorded by mistake. Try deleting the radar interference memory.

The radars are not always in operation. Please note that they are switched on and off periodically.

**The detector antenna does not warn me in advance of speed cameras.**

Fixed radars installed on gantries and on the roadside (in a booth) are the most difficult to detect. This is because they emit at very low intensity. To detect this type of fixed radars, the GPS that your device incorporates is the best solution. The detector antenna is not designed to detect fixed radars, although, exceptionally, it can detect them. That is what the GPS in the device will anticipate.

**The detector antenna did not emit any alarm when it passed a police car.**

They don't always have active radars, especially if they already have a stopped car ahead.

**Laser radar warnings.**

Only forward-focused portable laser radars, not used in Spain, can be detected. All other fixed transverse laser radars are undetectable and will only be anticipated by GPS.

#### 4. Features of the equipment



##### Display

- OLED display with descriptive icons for both operation and setup.
- Easy to read, both day and night. Brightness adjustable manually or automatically.
- Detector Antenna Function
- It incorporates a new state-of-the-art DSP digital antenna with digital signature detection.
- Sensitivity increased by 30% compared to previous models.
- Equipped with a powerful processor, 100 times faster, that allows it to accurately scan all radar signals and differentiate real threats, minimizing false alarms to 0.
- Detects radars with radiofrequency emission: police vehicles, mobile tripod radars, with KA band, CD/CT multi radar detection, Laser detector 800 - 1100 nm, and radars in K band and X band (not used in Spain, only used abroad).
- Antenna On/Off function. This function allows you to manually activate/deactivate the antenna according to the legislation of each country, and automatically when the vehicle speed is less than 30km/h (Configurable).
- It can work as a warning unit + detector, only warning unit, or only detector as desired by the user.

##### GPS function

- The latest database in the market.
- A track record of more than 15 years of expertise.
- Regular publication of updates
- With contributions from thousands of users.
- Possibility of incorporating a database for all of Europe.
- Warns of: fixed radars, variable speed, possible areas frequented by mobile radars, possible undetectable LASER, Autovelox or LIDAR radars, speed camera section controls, seatbelt cameras or mobile devices, radars on traffic lights, radars inside tunnels, dangerous points, etc.
- With the possibility of setting filters on the notifications and adjusting the distance at which the notification is sent.
- Smart Mode: allows you to adjust the distance to the vehicle's speed to reduce false GPS warnings on nearby streets, especially in the city.
- Several operating modes: Smart, Highway and City. You can adjust both the sensitivity of the detector, as well as the distance at which you want to receive GPS warnings.
- Silence Zones: Allows you to add zones where you do not want the detector antenna to alert.
- User dots: Allows you to insert dots where you want reminders.
- Auto cruising speed limiter: You can program your cruising speed to self-limit the maximum speed at which you drive, very useful on motorways or dual carriageways.
- Configurable voices in Spanish, English, French, Portuguese and German.



- Database update system via PC.
- Displays the actual speed at which the vehicle is travelling and the time.
- No installation required.
- Flat and compact design to enhance antenna signal reception and heighten invisibility.
- Voice and visual announcements.
- Automatic system for the warning message readjustment in case of persistent radar detection at long distances.

#### **Box contents:**

- KAZA DM 480 DEFENDER II Detector.
- Car adapter 12V -24 DC with GSM/GPRS modem.
- User manual.
- Anti-slip mat for the dashboard.
- Metal supports with suction cups.
- USB cable for database update.

#### **5. Starting to use the equipment**

**The unit's factory settings are suitable for a standard operation in Spain and Portugal. If you wish to change anything, please read this manual carefully before making any changes.**

In the car:

1. Connect the adapter cable to the car lighter socket and to the equipment.
2. Attach the detector using one of the methods provided, making sure it is facing forward and as horizontal as possible. Incorrect positioning will considerably reduce detection.
3. To connect the detector, press the red button on the adapter cable. To disconnect it, perform the same operation.

#### **6. Installation with brackets supplied**

The suction cups will be inserted into the device.



Stick the suction cups to the glass. To affix the suction cups, turn on the heat on with the front window defrosting for a while, if the window is cold, these will not stick.

You can also use the anti-slip mat on the dashboard.

#### **Important notice:**

To achieve good detections, make sure that the detector's view is clear. Do not place the detector near metallic objects, it must be facing forward and completely horizontal to the road. Make sure that the windscreen wipers do not interfere with the detector.

#### **7. Display Information**



Example: Multa CD / CT level 5, fixed camera 680 m, speed limit of 80 km, your driving speed is 74 km

GPS warnings on screen:

- When you are driving, it will inform you of the actual GPS speed of your vehicle.
- When you are about to pass a speed camera, you will be informed of the remaining distance to it with a countdown.
- When you pass through an area where mobile radars are often placed, it will show you a countdown to zero.

## 8. GPS warning types

Database notifications:

Fixed Radars

Tunnel radars

Traffic light cameras

Induction Radars

Fixed variable speed cameras

Speed cameras (optical)

Seatbelt control cameras and mobile devices




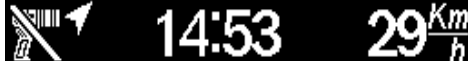




Statistics of mobile radars

Statistics of dangerous points, curves, crossroads...

Undetectable mobile speed camera statistics (Autovelox database only)

Others...

**9. Display, voice and sound interpretation of a radar detection (With factory default options).**

EVENT	MONITOR	DETAIL
STANDBY MODE	 	<p>No GPS connection yet.</p> <p>GPS connected (sensitivity mode, GPS connection ICON, time)</p>
BLOCKING MODE	 	<p>If the driving speed is less than 30 km (disable the signal alarm setting according to the set speed "Menu function), all RD signal detections are blocked in any mode.</p>
STANDBY MODE (DRIVING MODE)		<p>Road, GPS connection, time, driving speed.</p>
Ka BAND  (DRIVING MODE)		<p>Display: motorway, Ka signal + signal strength and speed.</p> <p>Sound: Double beep, then voice announcement of radar type only once and one beep.</p>
"Multa" (signature of radar detected)  (Sensitivity level in city mode)	 	<p>Screen: displays the name "Multa" (fine) and then moves to the next screen (sensitivity level, ICON, signal strength and driving speed).</p> <p>Sound: Double beep once =&gt; "Multa" voice alert =&gt; continuous beep.</p>

**10. Interpreting the screen, voice and sound in a GPS warning (With factory default options).**

EVENT	MONITOR	DETAIL
<p><b>DB (Danger Point)</b> Speed limit information "0".</p>		<p><b>Monitor:</b> City3 (sensitivity mode), DB danger point icon, distance and driving speed.</p> <p><b>Sound:</b> When entering the database area, <b>Danger point type voice announcement</b>, only once and no beep. After passing this alert, Passing Beep sound only once.</p>
<p><b>DB (Fixed Radar)</b> your speed is less than the Speed Limit.</p>		<p><b>Monitor:</b> City1 (sensitivity mode), camera type, distance, speed limit information, driving speed.</p> <p><b>Sound:</b> When entering the database area, <b>Fixed radar voice announcement</b> only once and no beep until it passes.</p>
<p><b>DB (Fixed Radar)</b> your speed is greater than the Speed Limit.</p>		<p><b>Monitor:</b> City1 (sensitivity mode), camera type, distance, speed limit information (flashing), driving speed.</p> <p><b>Sound:</b> When you enter the database area, <b>Fixed speed camera type voice announcement</b> only once and continues to beep until the speeding is less than the speed limit of the speed camera.</p>
<p><b>DB (Section Control)</b> your speed is less than the Speed Limit</p>		<p><b>Monitor:</b> City2 (sensitivity mode), type of camera, distance, speed limit information, average driving speed.</p> <p><b>Sound:</b> When you enter the database area, <b>Section control type voice announcement</b> only once and no beep until it passes.</p>
<p><b>DB (Section Control)</b> your speed is greater than the Speed Limit</p>		<p><b>Monitor:</b> City2 (sensitivity mode), type of camera, distance, speed limit information, average driving speed.</p> <p><b>Sound:</b> When entering the database area, <b>Section control type voice announcement</b> only once and it continues to Beep until the average speed is less than the road speed limit.</p>

**11. Interpreting the display, voice and sound of a user point of interest warning (with factory default settings).**

EVENT	MONITOR	DETAIL
<p><b>POI NORMAL</b></p> <p>SAVE POI</p>		<p><b>Monitor:</b> After pressing the Save button "Normal POI" =&gt; Sensitivity Mode, POI icon, POI No</p> <p><b>Sound:</b> When you press the "Normal POI" button, you can hear "Save POI".</p>
<p><b>POI NORMAL</b></p> <p>DELETE POI</p>		<p><b>Monitor:</b> After pressing the "Normal POI" delete button, =&gt; Sensitivity Mode, POI icon, POI No.</p> <p><b>Sound:</b> When you press the "Normal POI" button, you can hear "Delete POI".</p>
<p>ENTERING NORMAL POI</p>		<p><b>Monitor:</b> Sensitivity mode, POI icon, distance and driving speed.</p> <p><b>Beep:</b> When you enter the "normal POI" area, double beep and voice alert once and then <b>No Beep</b> regardless of current excess driving speed until you pass the point of interest.</p>
<p>While driving in a normal POI area (Detects a Multiradar only in Highway mode)</p>		<p><b>Monitor:</b> "Multa" ICON, signal strength, POI icon, POI distance, driving speed</p> <p><b>Sound:</b> While driving in the POI, if the "Multa" signal appears, <b>Voice alert and double beep, and beep according to the strength signal</b> according to the setting value of the sensitivity mode.</p>
<p>POI WHAT'S GOING ON</p>		<p><b>Monitor:</b> After passing POI, the display will return to normal driving mode.</p> <p><b>Sound:</b> When you hear a POI, you may hear a Passing Beep.</p>



**12. Interpreting the display, voice and sound in a point of silence warning (With factory default options).**

EVENT	MONITOR	DETAIL
<p><b>POI OF SILENCE</b> RECORD POI</p>		<p><b>Monitor:</b> After pressing the Save button "Mute POI" =&gt; Sensitivity Mode, POI icon, POI No. <b>Sound:</b> When you press the "Mute POI" button, you can hear "Save POI".</p>
<p><b>POI OF SILENCE</b> DELETE POI</p>		<p><b>Monitor:</b> After pressing the delete button "Mute POI" =&gt; Sensitivity Mode, POI icon, POI No. <b>Sound:</b> When you press the "Mute POI" button, you may hear "Delete POI".</p>
<p><b>ENTERING POI</b> (no DB and RD signal detection at all)</p>		<p><b>Monitor:</b> sensitivity mode, mute POI icon, distance and driving speed. <b>Sound:</b> When you enter the "Mute POI" area, <b>double beep and voice alert once</b> and then <b>No Beep</b> regardless of the current driving speed until you pass the point of interest.</p>
<p>While driving in a quiet POI area (Recognizes a Multa Radar Signal)</p>		<p><b>Monitor:</b> "Multa" ICON, signal strength, POI icon of silence, distance, and driving speed. <b>Sound:</b> While driving POI, if encountering "Multa" signal, <b>Voice alert and double beep and No beep</b> according to the sensitivity mode setting.</p>
<p>POI WHAT'S GOING ON</p>		<p><b>Monitor:</b> After passing the POI, the display will return to normal driving mode. <b>Sound:</b> When you pass a POI, you may hear a Passing Beep.</p>

**13. Interpreting display when detecting a GPS point and then a radar (with factory default settings).**

EVENT	MONITOR	DETAIL
While driving in a database area, if you encounter a Multiradar signal		<p><b>Monitor:</b> (1) Text display "Multa" (2) Signal "Multa", Signal strength, Camera type, Distance, Speed limit information, Excessive driving speed.</p> <p><b>Sound:</b> Double beep =&gt; Multiradar Voice, and Beep depending on signal strength.</p>

**14. Interpreting display when it detects a Multiradar and then a GPS point (with factory default settings).**

EVENT	MONITOR	DETAIL
While detecting the Multiradar signal, if you get close to a GPS point		<p><b>Monitor:</b> short Multa icon, signal strength, camera type, distance, speed limit information, driving speed, etc.</p> <p><b>Sound:</b> Multa beep =&gt; Camera type with voice =&gt; Multa Beep continues (RD signal is before DB)</p>

**15. Smart Mode Concept (Recommended), Highway & City**

Depending on the speed of the vehicle, the Smart mode adjusts the warning distance of the GPS points and the sensitivity of the antenna at this speed. In this mode, you minimize GPS warnings from nearby areas - that should not be triggered because you are not going to drive through them. It also minimizes false alarms from the detector antenna in cities with a lot of electrical noise.

In the following table you can see the warning distances of the GPS points as well as the sensitivity mode automatically selected while driving.

Car speed (Km/h)	GPS warning distance (m)	Radar sensitivity
0-20	100	City2
21-40	200	City1
41-60	300	Highway
61-80	500	Highway
81-100	700	Highway
101-120	900	Highway
Above 120	1000	Highway

Modes	Highway	City 1	City 2
K Band	OFF	OFF	OFF
Ka Band	ON	ON	OFF
MTR Band	ON	ON	OFF
Band X	Off	OFF	OFF
Laser	ON	ON	ON
GPS warnings	ON	ON	ON
Smart Mode	> 41 Km/h	21-40 Km/h	0-20 Km/h

## 16. Advanced: Programming, operation and menu options.



### Volume Adjustment

To turn on and adjust the volume, turn the side knob.

## Key functions

### MUTE (▲)

- Short press in detection mode to mute the sound.
- Short press in standby mode to activate or deactivate the mute mode.



- Short press in "Menu" mode to go to the previous option.
- Long press in motion to add or delete a user point; if we are passing by a point already recorded it deletes it, if the point doesn't exist it adds it.



### CITY (▼)

- Short press switches between HIGHWAY/CITY1/CITY2/CITY3/SMART mode, default and recommended SMART mode.



- Short press in "Menu" mode to go to the next option.

- Long press in motion adds or deletes a silence point; if we are passing through a point already recorded it deletes it, if the point does not exist it adds it. A silence point is an area where we don't want the detector to issue warnings. For example an area where we know there is a false alarm.



#### MUTE (▲) + CITY (▼) (At the same time)

- Long press the two keys to display the battery status of the vehicle.



If the battery power is below 10.5V, it automatically displays the "low battery" alert and beeps 2 times at 30-second intervals continuously.



#### MENU

- In "Menu" mode, long press to enter or exit the "Menu" mode.

- **Within a MENU, short press the MENU key to enter the submenu options.**

**Example: If you are in GPS SETTINGS in the Fixed Radars OPTION, if you short press the menu key, you can activate or deactivate; another short press allows you to adjust the distance.**

- Short press changes between brightness modes (100 => 50 => Auto => Dark => Instant Dark)

BRIGHT (100%)



BRIGHTNESS (50%)



AUTOMATIC



DARK



INSTANT DARK



INSTANT DARK 0% works as if it was dark (only 1-point shines on the BLACK DISPLAY), but when any GPS or radar warning occurs, the display starts to work in Bright (100%), and after losing the signal, the display returns to DARK mode.



- Long press to enter or exit the Menu mode



## SETTING

MUTE (▲) + CITY (▼) + MENU (at the same time)

- Reset to factory defaults.



## FACTORY RESET

**Note:** It does not erase the loaded GPS database, it only resets the settings to their original recommended values, **it is important to do this after a GPS firmware update!**

### Menu functions (overview)

In menu mode, short press the menu key to enter the option or set of options; long press to return from the option.

#### \*\*Radar setup

- (1) Band selection on / off
- (2) Sound notification setting according to signal level
- (3) Radar deactivation according to the set speed

#### \*\*GPS database configuration

- (1) GPS database on/off
- (2) Distance control of GPS database points
- (2) Point of interest activated / deactivated

#### \*\*POI Setup

- (1) Remove all normal points of interest.
- (2) Remove all mute POIs
- (3) Delete the last saved POI

#### \*\*Other settings

- (1) Activating/deactivating the sound alert type
- (2) Automatic control
- (3) Intelligent control for radar
- (4) Intelligent control for database
- (5) Maximum driving speed control
- (6) GMT setting
- (7) GPS calibration setting
- (8) Current latitude and longitude data
- (9) Welcome message activated / deactivated
- (10) Work style
- (11) Display settings



## Menu Functions (Detail)

We recommend not changing the setup options without knowing what you are doing. Please read first before making a change, if you are not sure ask support.  
If you change options and the unit doesn't work the way you want it to, return to the factory settings recommended by the manufacturer.

## RADAR SETTINGS

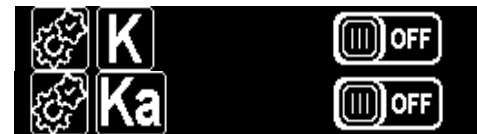
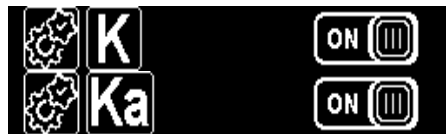


Inside a MENU, short press the MENU key to enter the submenu options.

Example: If you are in RADAR SETTINGS in the KA OPTION, if you short press the menu key you can activate or deactivate it. This applies to all menus and submenus.

### (1) RADAR BAND SELECTION FUNCTION (we recommend not modifying it, it is already programmed for Spain and Portugal).

K-Band On/Off  
(Default)  
Ka-Band On  
(Default)/Off



CD/CT Multiradar On  
(Default)/Off  
X-Band On/Off  
(Default)  
Laser Enabled  
(Default)/Off



Gatso 3 On/Off  
(Default)



Gatso 4 On/Off  
(Default)



### (2) Setting sound notification according to signal level

Default: OFF / values: from 0 (OFF) to Level 6



This option increases or decreases the volume of a radar detection signal according to its strength.

### (3) Deactivating the radar according to the set speed.

Default: 30 KM / Value: from 0 (OFF) Up to 60 (EVERY 10 KM)



With this option, if the selected speed is not exceeded, the radar detector will be deactivated. If it is set to Off mode, it will always be active.

## GPS SETTINGS



## GPS SETTINGS

Inside a MENU, short press the MENU key to enter the submenu options.

Example: In GPS SETTINGS in the Fixed Radars OPTION, if you short press the menu key, you can activate or deactivate it; short press again to adjust the distance.

### (1) FIXED RADAR On/Off Default: On

Distance control to FIXED RADAR. Default warning distance: 800M (FROM 100 TO 1000 M)



### (2) SECTION CONTROL CAMERA On/Off Default: On

Distance control to SECTION CONTROL CAMERA. Default warning distance: 800M (FROM 100 TO 1000 M)



### (3) CAMERA ON TRAFFIC SIGNALS ON/OFF Default: On

Distance control to CAMERA ON TRAFFIC SIGNAL. Default warning distance: 300M (FROM 100 TO 1000 M)



### (4) CAMERA CONTROL USE OF SEATBELT OR MOBILE DEVICES On/Off Default: On

Control distance to CAMERA CONTROL USE OF SEATBELT OR MOBILE DEVICES. Default warning distance: 800M (FROM 100 TO 1000 M)



### (5) POSSIBLE HIDDEN RADAR WARNING On/Off Default: On

Distance control to POSSIBLE HIDDEN RADAR WARNING. Default warning distance: 800M (FROM 100 TO 1000 M)



### (6) ACCIDENT WARNING ZONE On/Off Default: Off

Distance control to ACCIDENT WARNING ZONE. Default warning distance: 500M (FROM 100 TO 1000 M)



### (7) POI (Points of silence) On/Off Default: Off





## POI SETTINGS



## POI SETTINGS

(1) Delete all normal POIs (User Points)



(2) Delete all mute POISs



(3) Delete the last saved POI (whether it is user point or mute point)



## OTHER SETTINGS

## OTHER SETTINGS

### (1) Type of sound alert

#### SOUND CONTROL

a) GPS voice On/Off, default **on**



b) GPS continuous beep when exceeding the speed limit On/Off, default **On**



c) Radar Voice On/Off, default **on**



d) Radar Beep On/Off, default **on**



### (2) Automatic sound control

#### AUTO MUTE

a) Default: 5 Seconds (RANGE: OFF/ 3/5/7/10/15/20/30/45/60 sec)

If this is turned on and a signal persists longer than the selected time, the sound will be cut off or the volume will be reduced as selected in the next option.



b) Default: 50% (RANGE: OFF/30/40/50/60/70%.)

If this is on and a signal persists longer than the selected time, the volume will be reduced by the selected percentage. If Off is selected and the above option time elapses, the sound will be turned off.



### (3) Intelligent Radar Control

#### INTELLIGENT RADAR

a) Intelligent sound in Highway mode

The display works and shows the detected radar and signal level, but there is no voice or sound at less than 40 km driving speed. **Default: 0 km** (from 0 to 100 km).



b) Intelligent sound in City mode

The display works, but there is no voice or sound at less than 40 km driving speed. **Default: 0 km** (from 0 to 100 km).



### (4) Intelligent GPS Control

#### INTELLIGENT GPS

(a) Intelligent sound in all modes

The display works and shows the warning data, but there is no voice or sound unless you exceed the driving speed limit at the selected value for GPS warnings. **Default: 0 km** (0 to 20 km)



Note: The set value will be added to the GPS database speed limit for alarm. Example: If the limit is 60 Km/h and you have selected 20 in this option, the alarm will not be triggered if you drive at 80 Km/h.

### (5) Cruise control

#### SPEED LIMIT

a) **Default: Off** (RANGE: 0 to 160 Km/h)

If it is on, a warning voice will be heard and a beep will be heard if the driving speed exceeds the set speed.





### (6) GMT (Local Time Zone) setting



a) **Default: +1** (RANGE: -11 to +11 h)

Set to 1 or 2 depending on whether it is winter or summer time, in the Canary Islands it is always -1 hour.

### (7) GPS calibration



a) **Default: 0** (RANGE: -5 to +5 km/h)

Adds or subtracts the selected amount in Km/h to the speed displayed on the screen, useful to adjust it to the car speedometer measurement.

### (8) Current position



Displays the latitude and longitude of the vehicle's position. Useful if you need to call a tow truck.

### (9) Initial greeting when turning on the device



Gives the initial fasten seatbelts greeting, **default On**.

### (10) Mode of operation



a) **Default: GPS + Radar**

Select between the three modes, GPS only, radar detector only, or both systems at the same time.



### (11) Setting the language on the display



a) **Default: English**

Select between the two display languages





## 17. False GPS warnings.

### Warnings with speed lower than the road speed

If the GPS gives a warning with a speed lower than that of the road you are driving on, it is because, in certain circumstances, the GPS may be issuing a warning about a service road, a nearby intersection or a parallel road. Since it does not carry cartography like a navigator, the GPS warns you when you are approaching a point in the database in a specific direction, but it does not know if you are exactly on that road or on an adjacent one.

Other times, we might receive a warning of a point that is 500 meters ahead, but if we make a turn before arriving, the warning will stop.

### Possible mobile radar warnings

The GPS carries a database with a statistic of positions where mobile radars are normally found. Remember that this is a statistic and these do not have to be there when we pass through that point. To detect these radars, the device uses a detector antenna.

### Danger point warnings, curves

These warnings occur when you are within a radius of approximately 250 meters. You might not see them, but they may be on a service road, adjacent road, etc.

### The GPS has not given me a warning for a fixed radar, tunnel, traffic light, etc.

Update the database version. In the unlikely event that it still does not give warning, please contact the website [www.kazaradares.com](http://www.kazaradares.com) to report that this item is missing from the database.

### The GPS did not give me a warning of a fixed radar inside a tunnel.

Inside a tunnel there is no GPS coverage, so the device will warn you before entering but not inside.

## 18. False alarms from the detector antenna.

The detector antenna of the KAZA is a microwave receiver. In order to be able to detect radars, this antenna has to be very sensitive, as they emit with very little power. Due to the high sensitivity of the antenna, it can detect strong transmissions and issue a false alarm.

There are devices that can confuse the detector antenna:

- **Pre-collision systems (PCS)/adaptive cruise control systems (ACC) and radar-based blind spot detection (BSD) systems** (not optical) in some cars and trucks may produce some false alarms on the MTR band.
- **Another radar detector installed in a car.** If another vehicle has a radar detector and is driving close to you, the detector antenna will detect the KA band that is emitting from the other device and will issue a false alarm. If you are driving in heavy traffic and you move closer and further away from this vehicle, the signal will come and go. This is perhaps the most difficult false alarm to detect, as the detector could be in any of the vehicles around us.

- **Mobile phone repeaters, radio data links.** These repeaters emit on frequencies with harmonics that could coincide with the KA band. The KAZA detector has a software filter to limit the KA band to 34.3 Ghz and 35.5 Ghz as well as the frequency of the multiradar, but, sometimes, the harmonic coincides and produces a false alarm. This type of false alarm is usually repeated in the same places.

Because of this, all radar detectors can issue false alarms, and it does not mean that they are faulty. If your device emits a false alarm, check if any of the above circumstances is happening before sending it for service. Sometimes, on an isolated road, a false alarm may occur, leading us to think that it is broken. However, in isolated areas there are radio links for automatic farm irrigation, air navigation radio links, and other devices.

### Important notice:

If you activate the "K" or "X" band in Spain, there will be many interferences and false warnings. All the radars that emit in band "K" are fixed and the GPS will warn you 500 m in advance. It is advisable to have it disconnected.

### 19. Updating the database

To update the database of the device, you must register the detector on the website

**kaza kaza kaza kaza**

La Empresa | DESCARGAS | CONSULTAS | TIENDA | CONTACTA | Políticas de venta | Seleccionar idioma

**PROTÉGETE DE LOS MINIRADARES**

MEJORES EQUIPOS VIGILAN POR TI

Nombre de Usuario:

Contraseña:

**aceptar**

¿Ha olvidado su contraseña? Pulse aquí.

Entrada exclusiva para nuestros usuarios registrados. Si deseas registrarte en nuestra web, puedes [ir al formulario de registro](#) y dar de alta tu cuenta.

**¡Registrar nuevos dispositivos Kaza y Angel Driver!**

**REGISTRATE**

Si tienes alguna duda con el proceso de registro ver el video pinchando aquí el proceso de registro ver el video pinchando aquí

Click on the link **to go to the registration form** and follow the registration process. Once registered you can download the program and the database to update your unit. If you have any doubts click on the link: **"If you have any doubts with the registration process see the video by clicking here"**.



When you are registered and your account is activated by email, go to in <http://www.kazaradares.com> and enter your username and password, you will see a screen like this one.

Download the program the first time and the database every time you want to update. Copy them to your PC.

**Device: DM480 Defender II**



<a href="#">Download the update program installer</a>
<a href="#">Download the program without installer</a>
<a href="#">Product manual and updates</a>
<b>Voice files in other languages</b>
<a href="#">Spanish voices file (default)</a>
<a href="#">Voices file in Portuguese</a>
<a href="#">English voices file</a>
<a href="#">French voice file</a>

**PREFERRED updates.**

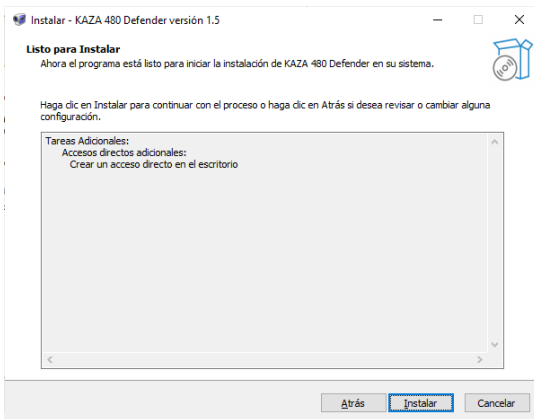
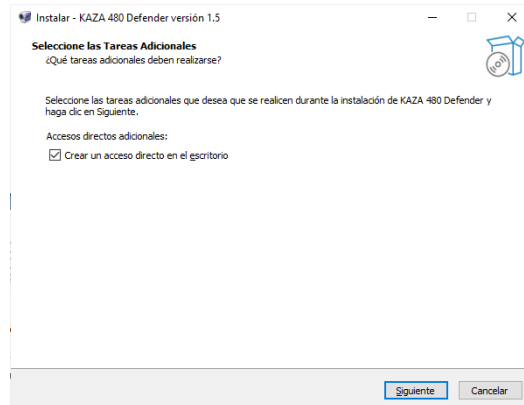
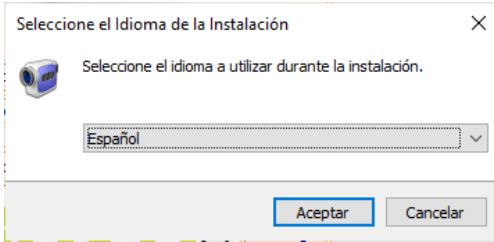
Voices in Spanish with velolaser warnings, belt and mobile control cameras (Europe) v2109_DM480 - September 6, 2021		<a href="#">Download</a>
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**Free Updates.**

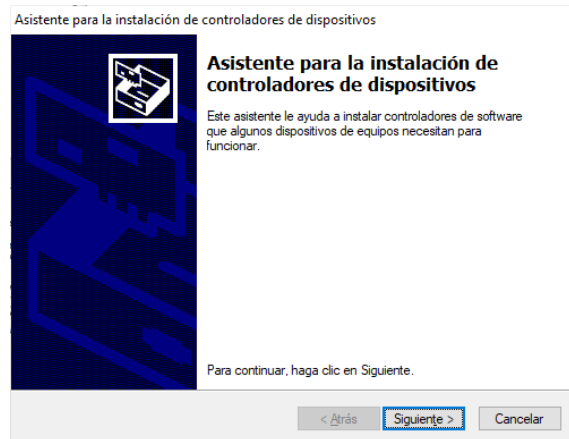
Voices in Spanish with velolaser notices, belt and mobile control cameras (Europe) v2107_DM480 - July 28, 2021		<a href="#">Download</a>
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## OPTION 1 With the automatic installation program

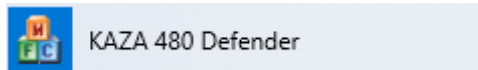
Run the installation program and follow the wizard:



Let it install the drivers

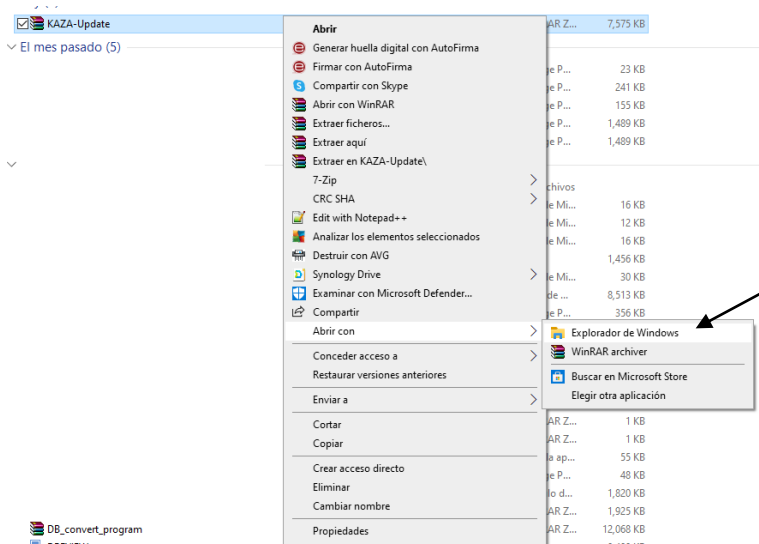


Run the program that will be on your desktop or the program bar.

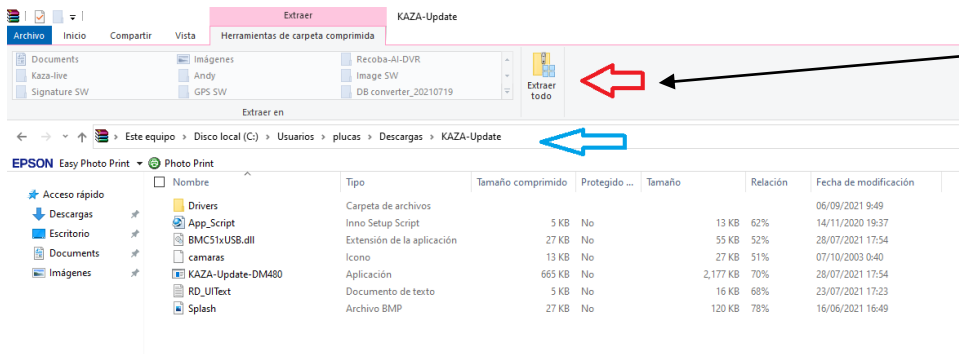


OPTION 2 Without the installer (Only recommended if you fail option 1 that does everything automatically)

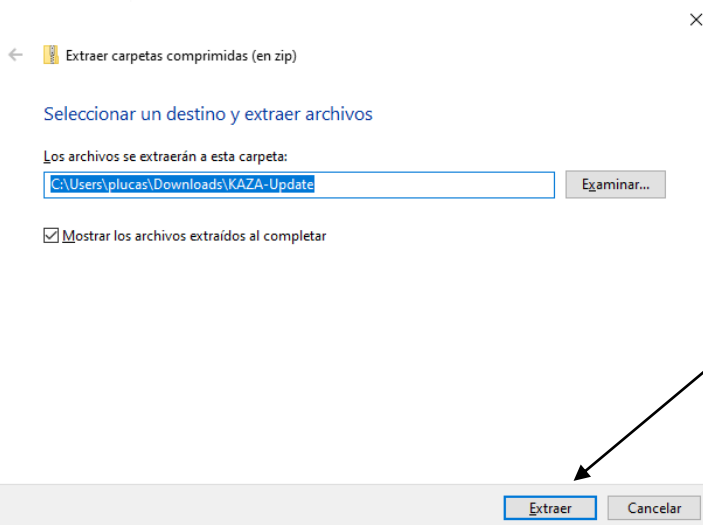
Download ZIP file with program and drivers



Download the ZIP file and click on it to open. Right-click on it and select open with Windows Explorer or another ZIP unzipping program if you have one.

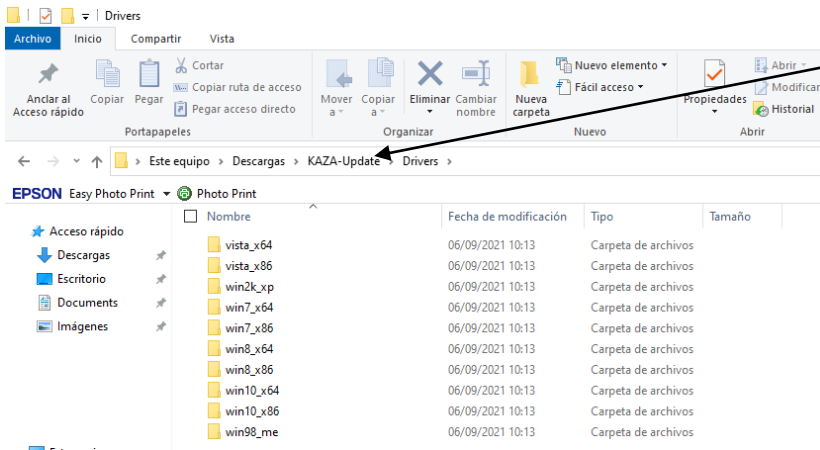


It will show you the files, then click Extract All.

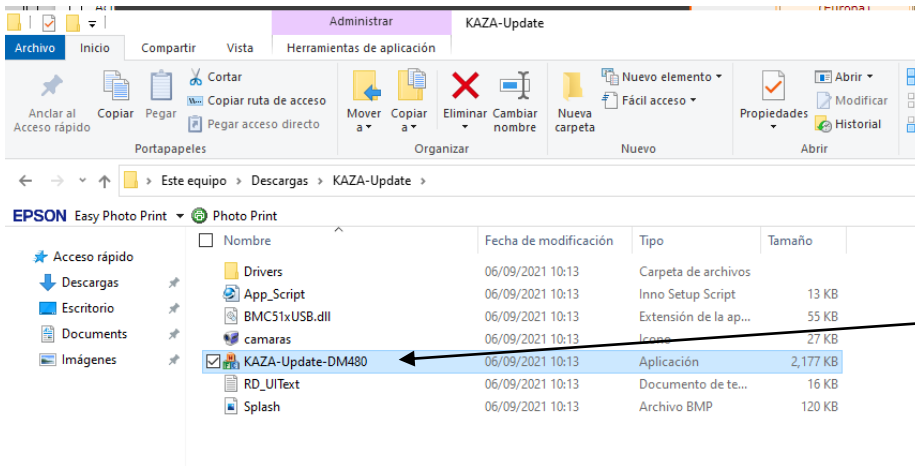


You can choose the directory where you want to extract it.

Press extract.



In the directory selected, extract the program and a folder that says "drivers". Select the driver for your operating system and run it following the wizard.

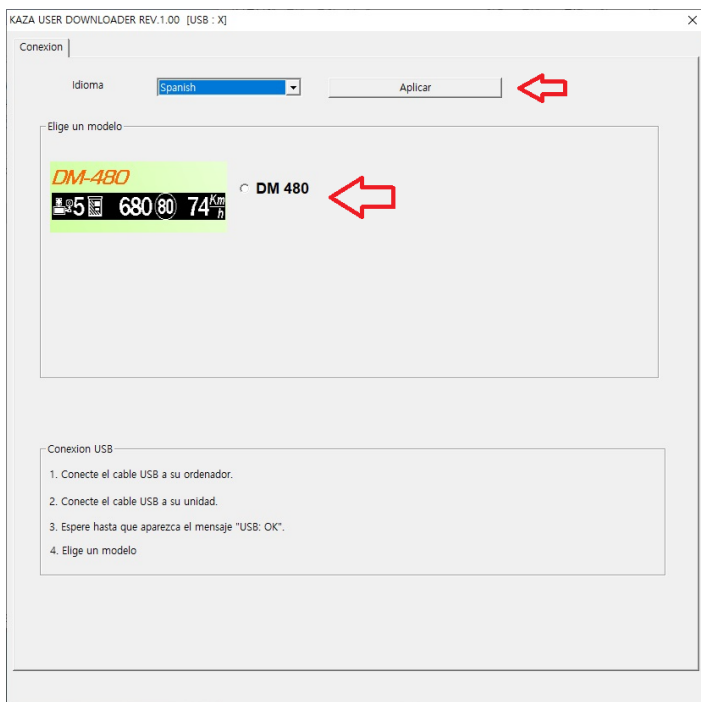


Once the driver is installed, you can run the update program by double clicking on it, which is in the main folder selected.

"Kaza-Update-DM480"

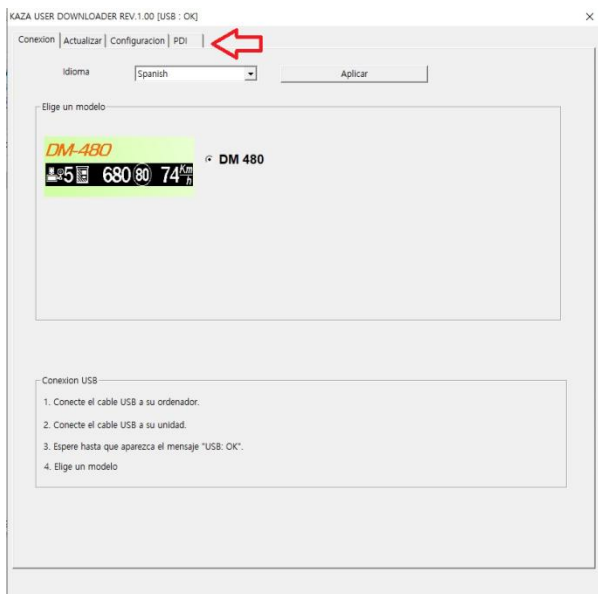


Once installed, you can run the program. "Select Spanish" and click "Apply".

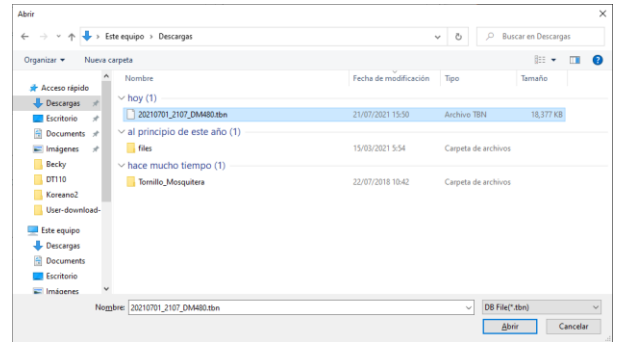
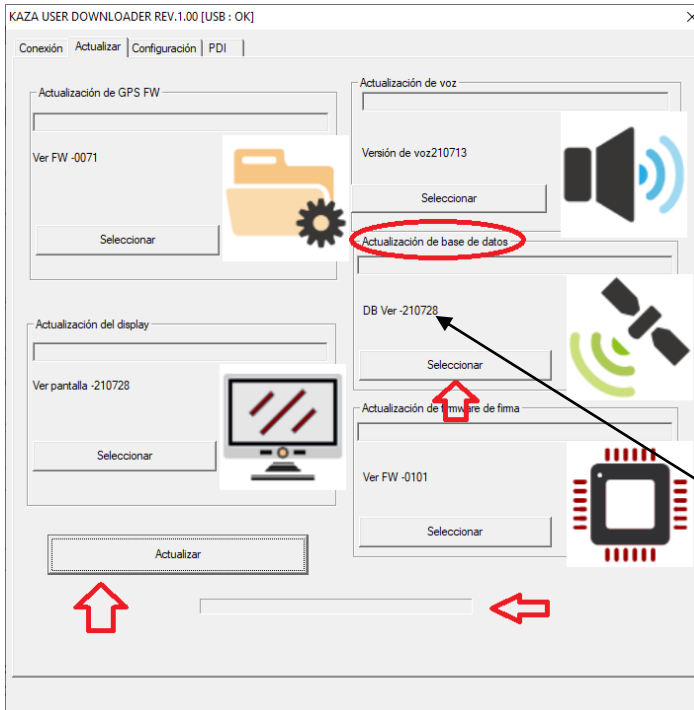


Connect the USB cable supplied to the computer, connect the USB to the unit and wait until OK appears in the top bar and choose the model.

The following tabs will light up:



Choose the "Update" tab



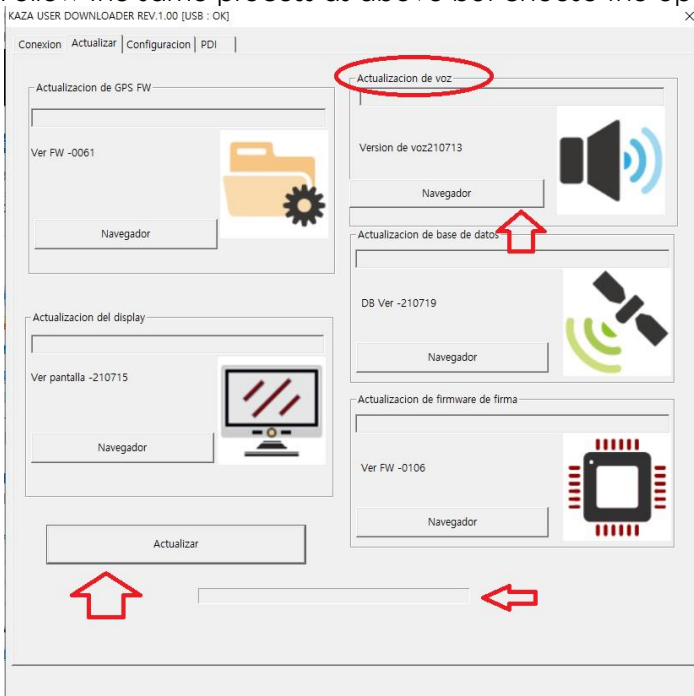
Current  
database  
version

In the option that says database, click the "Select" button and select the database that has been downloaded, which will normally be in the downloads folder with a .tbn extension.

Finally, click Refresh and wait for the process to finish.

## 20. Updating voices

Follow the same process as above but choose the option to update voices.



## 21. Display, GPS firmware and digital signature firmware update

This is done in the same way as the previous steps. Be careful with these updates, a mistake could render the device unusable and it will not be covered by the warranty.

## 22. Setup tab

**The factory settings of the equipment are suitable for the standard operation of the equipment in Spain and Portugal. If you wish to change anything, please read this manual carefully before making any changes.**

In this tab, you can modify all the settings in the same as it is done in the device menu.

The "Reset" button, uploads all factory default options (recommended).

The "Load" button reads the current device configuration and displays it on the screen.

The "Save" button saves the values displayed on the screen to the device.

KAZA USER DOWNLOADER REV.1.00 [USB : OK]

Conexión | Actualizar | Configuración | PDI

**AJUSTES DEL RADAR**

Selección de banda

X Desactivar

K Desactivar

Ka Activado

Mtr Cd/Ct Activado

Láser Activado

Quick Function

Ciudad/Autopista Inteligente

Brillo Automático

**AJUSTES GPS**

Radares Fijos Activado 800m

Controles de Tramo Activado 800m

Radares en Semáforos Activado 300m

Controles de Cámaras Activado 800m

Radares Móviles Activado 800m

Puntos Peligrosos Desactivar 500m

Puntos de Usuario Desactivar

**OTROS AJUSTES**

Configuración desactivación del detector Desactivar Km/h

Advertencia límite velocidad Límite Desactivar Km/h

Saludo inicio Activado

Sonido inteligente GPS 0 Km/h

Ajuste fino velocidad indicada 0 Km/h

Configuración de pantalla ESPAÑA

Sonido inteligente Radar Autopista 0 Km/h Ciudad 0 Km/h

Modo de operación GPS+RD

Ajuste zona horaria UTC+2

**AJUSTES DE FÁBRICA**

Reinicio

Cargar

Grabar





## 25. Contact details.

### **C.D.Products S.A.**

Kanna nº 2 Local 3  
Industrial Estate P-29.  
28400 Collado Villalba - Madrid.  
[www.cdpsa.eu](http://www.cdpsa.eu)  
[www.kazaradares.com](http://www.kazaradares.com)  
E-mail address: [clientes@cdpsa.es](mailto:clientes@cdpsa.es)

### **IMPORTANT NOTICE:**

C.D. PRODUCTS S.A. reserves the right to modify the manual and the characteristics of the product without prior notice. Furthermore, some of the functions described in this manual may vary depending on the version of the software installed or the optional components purchased.

This device is designed to help the responsible driver to comply with the regulations of the Highway Code. The user of this device is solely and personally responsible for its use, taking into account the provisions of each country. The manufacturer or its distributor shall not assume any liability if its use contravenes the provisions of the legislation in force in the country in which it is used.