

Smart

DANGER ZONE AND SPEED CAMERA WARNING SYSTEM



User manual
V 1.3

INFORAD
driving road safety ■■■

▶ Assistance 0 844-2323411

0.05p/min

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INFOCERT certifies that this device complies with NF-469-12/24 and respects French statute N°2012-13 of January 4th 2012.



Inforad Ltd. certifies that the Inforad SMART GPS/GPRS warning system conforms to the essential requirements and other relevant provisions of the 1995/5/EC directive.



The «dustbin» symbol means that this product must not be disposed of with household waste. It should undergo specific selective waste sorting. Take it to an authorised collection point for recycling. Recycling electronic waste contributes to environmental and health protection.

Not recommended for persons with reduced physical, sensory or mental abilities. Keep out of the reach of children (amendment A2 of the NF 60335-1 standard).

PREFACE

We would like to thank you for choosing the **INFORAD Smart**. We have designed the **Smart** to enable you to drive safely, to avoid traffic violations, to inform you of danger zones and speed cameras and provide access to emergency services (112).

DISCLAIMER

The **Smart** uses GPS and GSM/GPRS networks and emits no electromagnetic or laser detection signals that could interfere with the operation of police or traffic measurement instruments. Consequently, it is perfectly legal in most European countries. Nevertheless, it is your duty to ensure its legitimacy in the country in which you intend to travel. **INFORAD** cannot, under any circumstances, be held responsible for the consequences of or damages caused by its use in countries where this type of device is prohibited.

1 - OVERVIEW

The **Smart** is a multi-function, community-based warning system that identifies danger zones such as fixed and mobile speed cameras, road works, traffic jams and other road hazards stored in its database or flagged by other **Smart users** (**INFORAD Club**). It calculates your vehicle's position with its GPS (Global Positioning System) receiver and updates its database in real-time using its on board mobile telephone (GSM/GPRS).

The **Smart** warns you of approaching danger zones and informs you of your current speed compared to the authorised speed limit on the road you are driving on. To do this, the **Smart** contains a map of the European road network and displays the name of the road, street, trunk road or motorway with its speed limit.

The **Smart** enables you to set speed limits and will warn you when you exceed them.

The **Smart** also displays the number of fellow **Smart users** driving ahead of you. This gives you a sense of accuracy for short lived danger zones such as mobile speed cameras or traffic jams.

The **Smart's** mobile telephone enables you to make emergency calls free of charge using the common emergency telephone number **112** from anywhere in the European Union (EU) and European Economic Area (EEA). You may also receive SMS messages or even phone calls as your unit can be assigned with its own telephone number. *(SMS and phone call services require an optional subscription. Speak to your local dealer.)*

The **Smart** allows you to save «*Points of Interest*» from your favourite trip locations. You can share this information with other **Smart users** if you so wish, using the forum available on the web site.

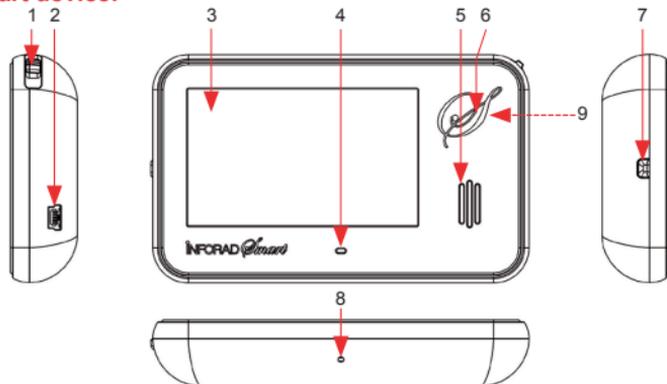
You will find more details and updates to services on our website through the user forums.

2 - GET TO KNOW YOUR SMART

2.1 - Box contents:

- A **Smart** device,
- A windscreen/dashboard self-adhesive suction cup mount,
- An infrared remote control,
- A steering wheel mount for the remote control,
- A 12/24V USB cigarette lighter adapter,
- A USB cable,
- A getting started guide.

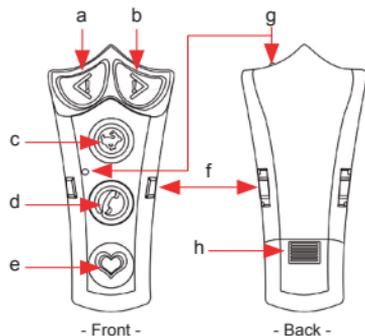
2.2 - The Smart device:



1. Configuration menu
2. Mini-USB power supply / recharge adapter,
3. 3-inch widescreen display,
4. Microphone,
5. Loudspeaker,
6. Infrared receiver,
7. On/Off switch,
8. Reset button,
9. GPS antenna (rear side).

2.3 - The remote control:

The **Smart**'s unique remote control fixes to your steering wheel and enables you to keep your eyes on the road and both hands on the wheel.

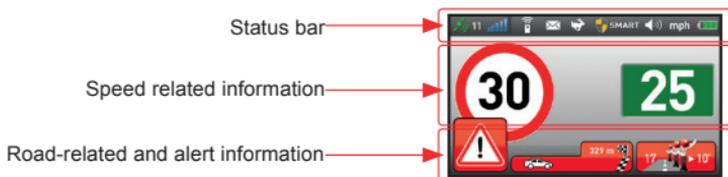


- a. Flag danger zone left side of road,
- b. Flag danger zone right side of road,
- c. Speed limiter,
- d. Emergency call (112), settings,
- e. Flag a Point Of Interest (POI),
- f. Mounting slots,
- g. Infrared transmitter,
- h. Battery.

2.4 - The display:

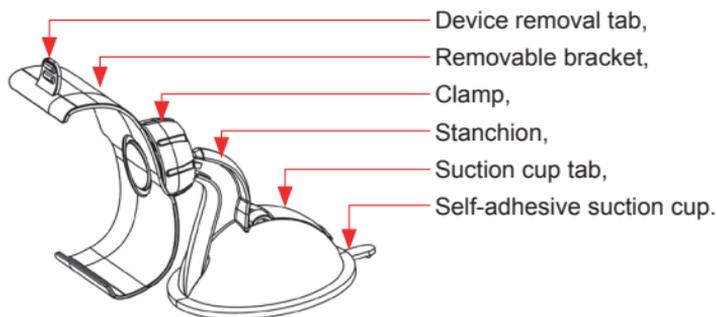
The display is divided into three distinct sections so that you can see the device's status at a glance.

- The status bar flags the current available resources (GPS - GSM - REMOTE CONTROL - SPEED LIMITER) l'état (MESSAGE BOX - BATTERY LEVEL), and the settings (VOLUME - ALERT MODE),
- Speed-related information (ACTUAL SPEED - AUTHORISED LIMIT - SELF-SET SPEED LIMIT),
- Road-related and alert information.



2.5 - Self-adhesive suction cup mount:

The **Smart's** self-adhesive mount is designed to provide exceptional grip (up to 12Gs) on your windscreen or dashboard. Make sure to wipe clean both surfaces from time to time to ensure continued grip if you remove your Smart frequently.



3 - BEFORE YOU START

In order to make best use of your **Smart**, you need to activate the GPRS SIM card by registering your device. This will give you access to information exchange services between **Smart community users**.

Go to the <http://www.inforad.eu> web site and follow the instructions. You should also update your Smart's database at the same time.

4 - INSTALLATION

4.1 - Assembling the mount

The car mount is made up of two parts. A removable part allowing you to position your **Smart** as you wish, and a fixed part, with the self-adhesive suction cup, which holds the mount firmly in place.

To assemble your mount, simply loosen the clamp screw slightly and snap the stanchion's ball joint into the socket. Place the mount as desired on the clean windscreen or dashboard, removing the suction cup's reusable protective film first. Position the mount as desired, lowering the suction tab on the cup. Now slightly tighten the clamp screw in order to position the mount with the device removal tab on top. Once this is done, tighten the clamp screw further to lock firmly in position. To remove the mount, simply lift the suction tab on the cup, then pull the suction cup tab. You can then easily remove the mount.

- i** **N.B. :**
- *With certain thermal resistant windscreens, position your device near the un-treated area (generally near the rear-view mirror) to improve the GPS signal's reception.*
 - *Do not over-tighten the clamp screw as you could damage or break the plastic parts.*
 - *Make sure that the GPS antenna (9), situated on the back of the Smart, is facing up and on the right side of the device.*

4.2 - Installing the Smart in the mount

Take your **Smart** in one hand and grip the mount with the other. Insert the bottom of your **Smart** into the mount, and then apply slight upward pressure until the device clips into the mount.

To remove your **Smart** from the mount, hold the mount with one hand, then gently press the device removal tab while pulling the **Smart** towards you. Alternatively, you can simply slide it to one of the sides of the mount.

- !** **IMPORTANT :**
- For your own safety, avoid placing your **Smart**, or any related accessory, on an area of the dashboard containing an airbag. If you are using the power cable to recharge, position it such that it does not hinder your driving and does not obstruct access to the vehicle's controls.*

4.3 - Assembling and mounting the remote control

Take one of the supplied straps and fold it back on itself at the third hole (**Fig.1**).

Take the remote control holder in the other hand and pass the strap through the hole facing you (**Fig.2a**) being careful to position the fold towards the inside of the holder (**Fig.2b**).

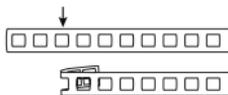


Fig. 1

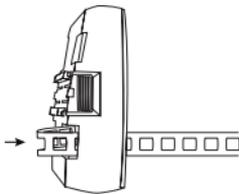


Fig. 2a



Fig. 2b

Now gently tighten the strap against the holder. The strap should not slip any more (**Fig.3**). Repeat the operation for the second strap (**Fig.1 à Fig.3**).

Fit the holder to the desired position on the steering wheel. Pass the straps around the wheel and slip the ends into the two free holes in the holder. Gently pull the straps so that the holder no longer moves (**Fig.4**).

You can now fit the remote control. Fit the remote control so that your thumbs can easily reach the buttons (**Fig.5**).

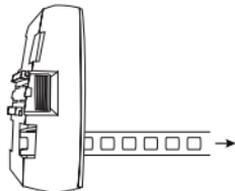


Fig. 3

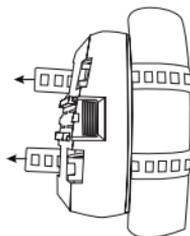


Fig. 4

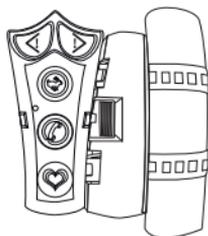


Fig. 5

5 - TURNING ON AND OFF



ATTENTION :

- If your **Smart's** battery is flat, the device needs one minute of charging before it will start (cf. «Charging and autonomy»).
- Make sure the battery's protective film is removed from the remote control.
- During the initialisation sequence a screen message tells you if a new software release is available for your device.

5.1 - First start-up:

To turn your **Smart** on, press the on/off switch (7).

The first time you turn it on, a welcome screen is displayed while the **Smart** application system boots. You will be prompted for your language (cf. «Configuring your device»).

Once the language has been set, the **Smart** continues its boot sequence (cf. «Normal start-ups»).

5.2 - Normal start-ups:

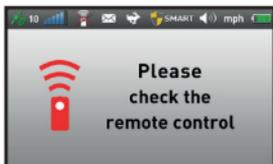
During normal start-ups, an audible welcome message sounds and a welcome screen, asking you to press the remote control, is displayed.

To activate the remote control, you must press any key for 15 seconds.

The main screen is displayed as soon as it detects the key.



If the **Smart** does not detect a key within 15 seconds, a message asking you to check the remote control is displayed for 5 seconds, after which the main screen appears. If the « check remote control » message is displayed even though you pressed one of the keys during the allotted time, the remote control may be defective. Check the batteries (h) and restart your Smart to try again.



To optimize the GPS reception, install the **Smart** on its cradle and **make sure that the GPS antenna (9) located on the rear side of the right upper corner is visible to the sky**. Once your **Smart** is operational, satellite data acquisition starts and the GPS icon (A) remains disabled (crossed out in red) throughout the process. This may last from several minutes depending on your location (acquisition is faster in open areas than in the city or under tree cover). Once acquisition is complete, the GPS icon (A) is enabled (the cross disappears), indicating that your **Smart** is fully functional.

5.3 - Turning the device off

To stop the device, press the «on/off» button (7).

6 - THE DISPLAY

Your **Smart**'s graphical interface has been carefully designed for maximum clarity:



- Standard screen -

- | | |
|--------------------------------|--|
| A. GPS acquisition status, | I. Battery charge level, |
| B. GSM/GPRS signal level, | J. Speed limit, |
| C. Remote control status, | K. Road name, |
| D. Message notification, | L. Current speed, |
| E. Speed limiter notification, | M. Number of Smart users heading in the same direction as you, |
| F. Selected protection mode, | N. Time to reach the first Smart user heading you |
| G. Volume level, | |
| H. Selected speed units, | |

- **GPS (A)**: disabled until satellite data acquisition is complete, or when GPS connection is temporarily lost. When this icon is enabled, the number of tracked satellites is displayed. Without a GPS signal, your Smart cannot locate your position.
- **GSM/GPRS (B)**: displays the GSM/GPRS signal level. Disabled until GSM/GPRS data acquisition is complete, or when the connection is temporarily lost.

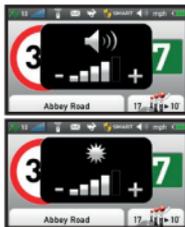
- **Remote control (C)**: indicates remote control status. By default, it is disabled at start-up. It is enabled as soon as you activate it by pressing a key (cf. «Normal Start-up»).  - Inactive - Active -
- **Messages (D)**: enabled when the service is available through a separate subscription. An open envelope is displayed when one or more messages are received.
- **Speed limiter (E)**: indicates whether you have set a personal speed limit. If this is the case, the icon is enabled and your personal speed limit is displayed below it. The icon is disabled if no satellite data have been acquired. 
- **Alert level (F)**: the shield followed by the alert level informs which protection mode has been set (cf. «Configuring your device»).
- **Volume (G)**: disabled if the volume has been muted (cf. «Configuring your device»).
- **Speed unit (H)**: indicates the configured units of speed (km/h or mph) (cf. «Configuring your device»).
- **Battery (I)**: indicates the battery charge level (cf. «Charging and autonomy»).
- **Speed limit (J)**: indicates the actual speed limit. When this value is not available, «---» is displayed inside the circle.
- **Name of the road (K)**: indicates the name of the actual road. When not available, one of the following messages is displayed:
 - *Cannot locate* : in the event of a loss of GPS signal,
 - *Map incomplete* : in the event of an incomplete map download,
 - *Out of range* : if you are outside of the covered territories.
- **Vehicle speed (L)**: in white on a green background when the vehicle is under the speed limit (cf. «Speed camera and other warnings»).
- **Number of users (M,N)**: indicates the Smart users currently ahead of you, and the time to reach the first one. This value is replaced by «---» if not available.

7 - THE REMOTE CONTROL

The 5 keys on the **Smart** remote control provide access to the following services:

- **Mobile speed camera notification**: the «flag left side speed camera» (a) and «flag right side speed camera» (b) are used to notify the presence of a mobile speed camera.
- **Speed limiter (c)**: this key is used to set, modify, or cancel your personal speed limit.
- **Telephone (d)**:
 - **Pick-up, hang-up call**: when a call (available with subscription) is forwarded to your **Smart**, one press of this button will pick the call up. A second will hang it up. When in communication, the «Speed Limiter» button (c) increases the volume and the «Points of Interest» button (e) decreases it.

- **Sound Level:** press the telephone key **(d)** **once** to transform the «*Speed Limiter*» key **(c)** into «*increase volume*» and «*Points of Interest*» key **(e)** into «*decrease volume*» key.
- **Screen brightness level:** press the telephone key **(d)** **twice** to transform the «*Speed Limiter*» key **(c)** into «*increase brightness*» and «*Points of Interest*» key **(e)** into «*decrease brightness*» key.
- **Conciergerie (d):** appuyez **trois fois** sur cette touche pour être mis en relation avec l'opérateur pour vous permettre de signaler un événement important ou accéder aux services payants.
- **Emergency call (d):** **press the telephone key for 10 seconds** dials **(112)** and puts you in contact with the police or fire brigade (**WARNING: wrongful use of this number is severely punished**).
- **Points of interest (e):** this key allows you to save important or favourite locations during your trips and share them with fellow Smart users in the web site forum.



8 - ALERTS

Your **Smart** is permanently updated about danger zones in your vicinity through the mobile telephone network. These updates, enhanced by alerts from fellow **Smart users**, reduce your risks from danger zones by keeping you informed with the most complete information on hand.

Your **Smart** is also equipped with an embedded road network map that can pinpoint your exact road location and thus limit false alerts from adjacent roads..

8.1 - Different types of speed cameras or danger zones:

The **Smart** emits various alerts (cf. «*Icons and security messages*» for more information):

- Confirmed danger zone (*fixed speed camera*),
- Dangerous cross roads (*traffic light camera*),
- Dangerous level crossing (*level crossing camera*),
- Dangerous tunnel (*speed camera inside*),
- A SPECS speed camera,
- Mobile speed camera flagged by Smart user (*during the past 2 hours*),
- Mobile speed camera whose presence is highly probable,
- Mobile speed cameras frequently present at this location at this time of day
- Possible danger zone,
- Traffic jam ahead,
- Road works ahead,
- Accident ahead,
- Obstacle ahead.

i **N.B. :**

Alerts levels may be configured ((cf. «*Configuring your device*»).

8.2 - Entering danger zones:

When entering danger zones, the **Smart's** «road-related information and alert zone» informs you as follows:

- What type of danger zone (**N**) is approaching,
- Your progress in the danger zone (**P**), with the distance to exit the zone (**O**).



The **Smart** will «beep» when entering the zone accompanied by a vocal message. When leaving the zone, you will hear a second «beep» and the main display returns to normal. Alarms and alert distances can be configured (cf. «Configuring your device»).



N.B. :

The **Smart** factory setting is «**Smart mode**» which provides alerts for fixed or certified mobile speed cameras. (cf. «Configuring your device»).



WARNING :

For quality control purposes, you will be prompted to confirm the presence of a danger zone declared by another **Smart** user.

8.3 - Excessive speeding:

If you exceed the authorised limit (**J**) in a danger zone, the display switches to flashing red (**L**) and an alert sounds, followed by a continuous beeping. This beeping stops as soon as your speed drops below the limit.



8.4 - Speeding threshold:

If your speed lies between $\pm 4\%$ of the authorized speed limit, the display blinks with a hashed orange background.



8.5 - Danger zone alerts:

When approaching a danger zone such as road works, a traffic jam, an accident, etc. beep accompanied by a danger specific message (**R**), sound and icon (**Q**) will appear for 10 seconds.



8.6 - Tunnel alerts:

GPS signals cannot penetrate buildings and so your location will be temporarily lost when entering a tunnel. The **Smart** will display your last known speed and authorised limit so extra vigilance is required when entering tunnels.

9 - EVENT NOTIFICATIONS

9.1 - Declaring danger zones:

You can notify other **Smart** users of unidentified danger zones such as mobile speed cameras by pressing remote control buttons (a) or (b).

- The «right danger zone alert» (b) is used to notify a speed camera on the right side of the road
- The «left danger zone alert» (a) is used to notify a speed camera on the left side of the road.
- You will be prompted to identify the type of danger zone according to the diagramme opposite.



- Confirmation mode -

i **N.B. :**
Please note that traffic jams and accidents can only be flagged on motorways.

9.2 - Other event notifications:

To notify other types of dangerous road hazards press the «Telephone» button (d) 3 times and wait for a message requesting a final confirmation to talk to an operator.

The Smart require a acknowledgement which you can confirm by pressing shortly the phone button again.

! **WARNING :**
Please be careful when using the «Telephone» (d). Abuses will be invoiced. Don't let children play with the device. Only «Emergency» calls and bona fide alerts are free of charge.

10 - SPEED LIMITER

The **Smart** enables you to set your own speed limit and alert you in the event you exceed that limit. The personal speed limit is displayed with the icon (E).

- **Engage:** Drive at the desired speed and press the «Speed limiter» key (c) on your remote control.
- **Modify:** Drive at the new speed and press the «Speed limiter» key (c) on your remote control again.
- **Disengage:** Disable the speed limiter by pressing the «Speed limiter» key (c) on your remote control for 2 seconds.



 **WARNING :** Please be careful when using the “telephone”. Abuses will be invoiced. Don't let children play with the device. Only “Emergency” calls and bona fide alerts are free of charge.

11 - MENUS

Three menus enable you to **configure, manage SMS messages and diagnose problems.**

- **Enter menus:** press button **(1)** downwards or lift upwards.
- **Select menu:** press button **(1)**.
- **Scroll down:** press button **(1)** downwards.
- **Scroll up:** lift button **(1)** upwards.
- **Enter selection:** press button **(1)**.
- **Exit menus:** select «Exit» from the list and press button **(1)**.

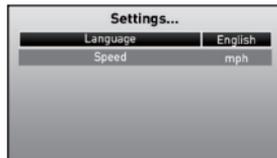
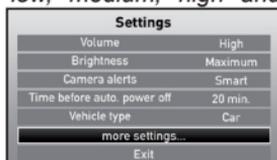


- Configuration menu -

12 - CONFIGURATION:

Access the configuration menu at any time by pressing the configuration button **(1)**. Press again to validate your choice.

- **Volume:** 5 sound levels are available (*mute, low, medium, high and maximum*).
- **Brightness:** 5 bright levels are available (*minimum, low, medium, high and maximum*).
- **Alert types:**
 - **Maximum:** all known declared and certified danger zones alerted accompanied by a voice message.
 - **Smart (default):** all certified and highly probable danger zones alerted accompanied by a voice message.
 - **Taxi:** smart mode without voice alerts.
 - **Minimum :** only certified and **Smart user** danger zones are alerted accompanied by voice.
 - **Mute :** all alerts disabled.
- **Vehicle type:** select vehicle or motorbike (needs **INFORAD Motorbike kit**).
- **Language:** French, English, Spanish, Dutch, German, Portuguese or Italian.
- **Speed unit:** km/h or mph.
- **Automatic shutdown:** turns device off when parked for a prolonged period of time.



- Settings screen -

13 - SMS MESSAGES

If you have subscribed to the «SMS option» you are entitled to receive incoming SMS messages and calls. SMS messages are displayed in the information zone on the bottom of the screen

- **An open envelope** means that you have a new message,
- **A closed envelope** means that there are no new messages,
- **An envelope with a red cross** means that the SMS service is unavailable.



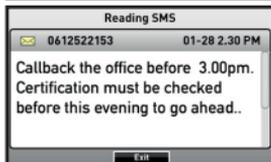
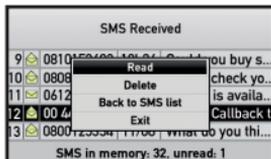
An incoming SMS scrolls automatically until you press any remote control key.

13.1 - Reading SMS messages

Push button (1) and navigate through the configuration menu to select the «SMS» section. Navigate through the SMS directory and select the desired message. The message is displayed using the entire screen. Lift up or press down (1) to scroll through the message.

To exit from message push button (1) and select «exit» or «delete message»,

To exit the SMS menu navigate until the end of the SMS list, select «exit» and push button (1)



14 - BATTERY CHARGING AND AUTONOMY

Your **Smart** is equipped with a lithium-ion battery of 1400mAh with autonomy from 6 to 8 hours, depending on how you use your **Smart**. You can use the device while it is connected to your cigarette lighter.

Once the battery is flat (*battery icon (!) crossed out with a flashing red cross*), connect the USB cable between the **Smart**'s connector (2) and the cigarette lighter adapter, then insert the adapter into the vehicle's cigarette lighter socket. You can also charge your **Smart** from a mains socket using a USB mains adapter (not provided), or directly from a computer with a USB port.

While your device is charging, the battery icon (!) flashes until the device is fully charged, you can then use the **Smart** for its full battery life.



WARNING :

*Your **Smart** is equipped with a lithium-ion battery. It must therefore be kept away from flames to avoid explosion.*

To save battery life, wait at least 2 minutes before shutting your Smart down after turning it on.

15 - OTHER ITEMS

15.1 - Caution

Do not leave your **Smart** in the vehicle's cabin in direct sunlight such as on the dashboard. Exposure to excessive temperatures can damage and considerably reduce your device's service life.

15.2 - Safety

The **Smart** includes a telephone and is thus governed by the same regulations as mobile phones. Do not remove your **Smart** from its mount while driving.

15.3 - Guarantee:

Your **Smart** is guaranteed for 3 years, parts and labour from the date of purchase. Excluded from this guarantee is the battery whose life is dependent on user behaviour. Only **INFORAD** technicians are authorised to open the device, otherwise **INFORAD** reserves the right to terminate the guarantee.

15.4 - Online technical Support technique:

If you have difficulties fitting or using your **INFORAD** device, see the «FAQ» section on the <http://www.inforad.eu> website, or contact our customer support service by email: support@inforad.eu or by phone on **0 826 100 823** (0.15€/min).

16 - ICONS AND SECURITY MESSAGES

16.1 - Non-exhaustive list of icons



16.2 - Non-exhaustive list of security messages



17 - SPECIFICATIONS

GPS receiver: Atlas V™ 64 channels,

GSM/GPRS module: TELIT four-band,

Processor: ARM 11 - 600Mhz,

RAM: SDRAM DDR2 64 Mo,

Mass storage: 4 Gb,

Battery: Built-in 1400 mAh rechargeable,

Autonomy: up to 8 hours,

Power supply: 5Vdc (max 500mA),

USB Cigarette lighter adapter: 12/24Vdc input, 5Vdc output, max 1A,

Remote control power supply: CR 2032 3V battery,

Remote control: Infrared,

Car-mount: self-adhesive suction cup,

Alarms: visual and audible (customizable),

Microphone: built-in,

Loudspeaker: 8 ohms 1W with volume control,

TFT screen: 3-inch (66 X 40mm), High-definition (240 X 400 pixels), 262 000 colours,

Device dimensions: Length 105mm - Width 65mm - Depth 19mm - Weight 130g,

Remote control dimensions: Length 81mm - Width 38mm - Depth 21mm - Weight 31g,

Car-mount dimensions: Length 103mm - Width 63mm - Height 96mm - Weight 49g,

Complete device weight: 214g.

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0.05p/min

The features and details presented in this manual may be modified without notice as a result of technical upgrades and the addition of new features. **INFORAD** would like to apologise for any errors that may occur and kindly requests you to report any mistakes or emissions on our website. **INFORAD** will inform you of any significant changes and shall provide you, free of charge, with any new software and manual updates from its website <http://www.inforad.eu>. The diagrammes, photos and text herein may change without notice and are not contractual binding

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