

Rango Manual

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Congratulations on your purchase of a Rango!!

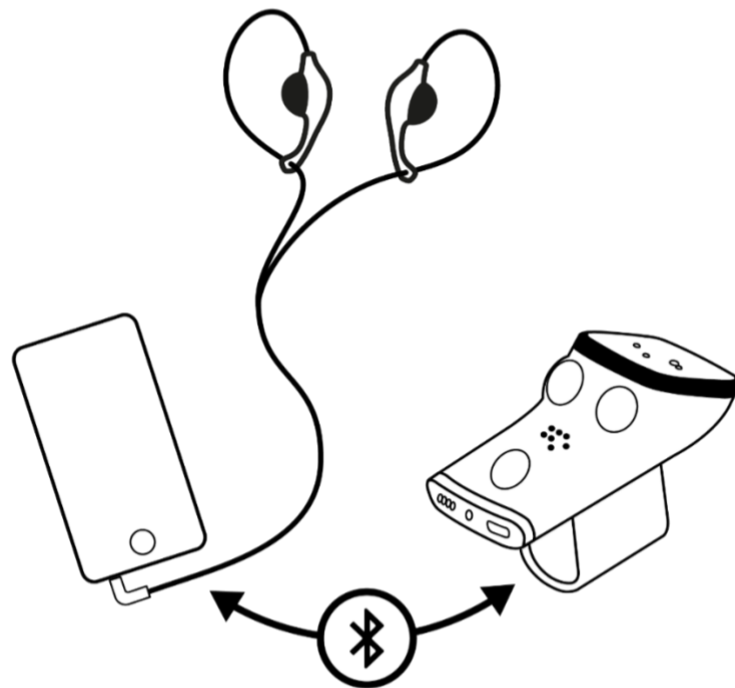
At GoSense we are delighted to have you among our users. You are indeed one of the first owners of a Rango! Thanks to your valuable user feedback and free software updates available on your mobile, your Rango will progress in the months and years ahead.

Made in France and assembled by visually impaired people, Rango alerts you of obstacles on your route by a sound feedback. In order to hear Rango's sound feedback while being alerted to your surroundings, it is recommended to use extra-auricular earphones, like the Aidrives earphones of GoSense.

To operate, Rango must be connected to your smartphone. Download the dedicated mobile application "Rango" on the App Store or the Google Play Store. It is recommended to type "Rango GoSense" in the search field of the app store to find the application more easily.

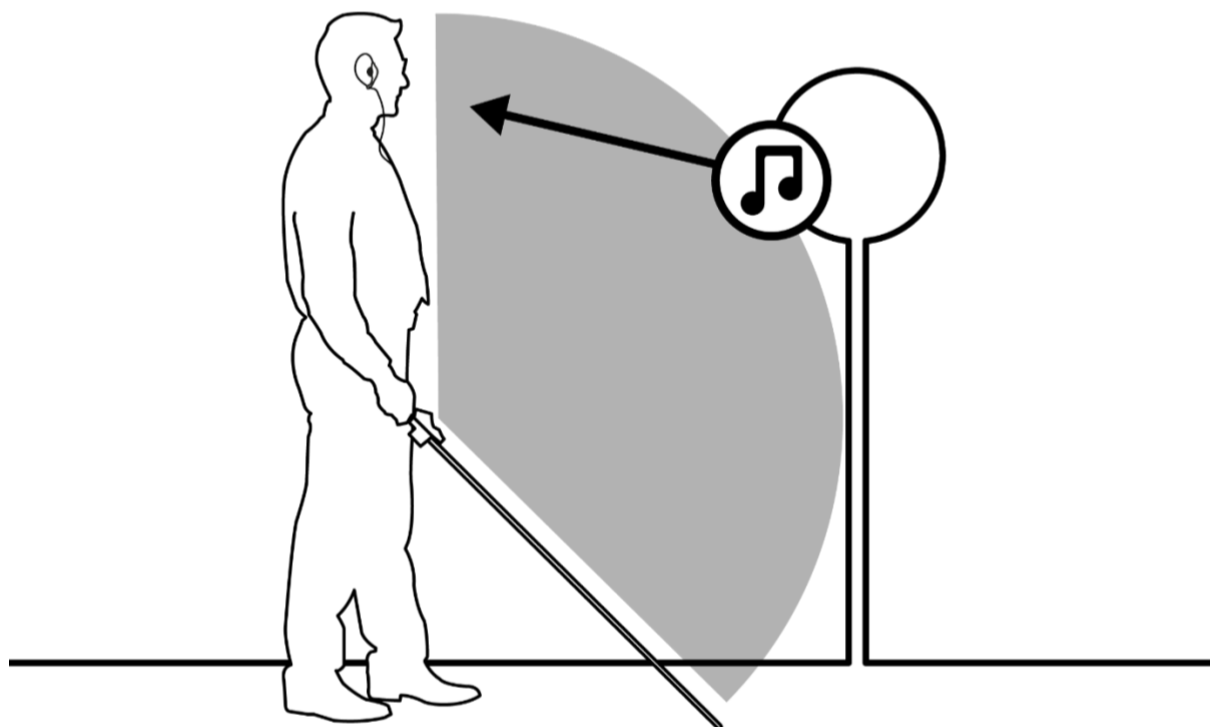
If you have an iPhone, you can otherwise click on the following link on your iPhone, to directly access the application page: <http://appstore.com/gosense/rango>

If you have an Android phone, you can also click on the following link on your phone, to go directly to the application page: <https://play.google.com/store/apps/details?id=com.gosense.rango>



Are you tired of banging or flirting with obstacles, whether on the shoulder or hip? Despite your cane technique and optimal sweeping, do you ever miss obstacles with your white cane? Are you afraid of bumping with overhead obstacles? Do you want full body protection without too many feedbacks? You want a light product, easy to use and evolutive? So, Rango is for you!

Today Rango is delivered in a first evolutionary version which is very easy to use. Indeed, we focused on producing a robust and easy-to-use first version. For this we worked on two important projects: the first being to offer the user a full detection for protection of the whole body (from head to toe, shoulder width); and the second project was to make Rango a product easy to use by all, limiting as much as possible the sound feedbacks. Thus, in its first version, Rango will alert only immediate obstacles that enter the shortened detection zone to 1.50 meters in front of you. In testing phases, we realized that the white cane only detects obstacles at ground level and not those at height. So Rango increases the white cane, detecting anything that is not detected by your cane and your sweep. Finally, the promise of Rango is to alert the immediate presence of an obstacle in front of you by a sound feedback, to offer you full security and ensure ease of use. In practice, as soon as you hear the sound; you stop; you are looking for the obstacle with your cane; then you go around the obstacle. Rango's goal is to protect your entire body.



Thanks to your valuable user feedback and free software updates available on your mobile, your Rango will progress in the months and years ahead. The upcoming software updates will indeed allow Rango to adapt its detection zone to your walking pace but also to offer a 3D sound feedback for a more precise location of where the obstacle is compared to you. Of course, you will always be protected from head to toe and shoulder width, but from 0 to 2.50 meters. Thus, in the more advanced versions of Rango, you will discover what is a fluid path. That is to say, a journey without your white cane shocking itself with an obstacle or that you do not hit or rub at these same obstacles.

All these Rango functional upgrades will be offered free of charge. These updates will be made through your dedicated mobile application "Rango".

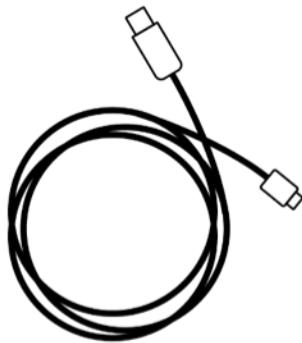
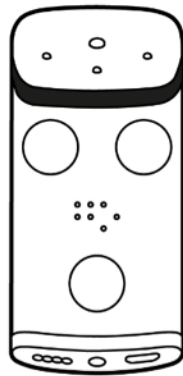
To make an appointment at the training (2 to 4h - 50 €/h), or at the initiation (30min by phone - free), contact us by email: training@gosense.com

Do you like Rango? Become a "GoSense Ambassador" and receive a percentage of your sales. Contact us by email at ambassador@gosense.com

Chapter 1: Getting started

Contents of the box

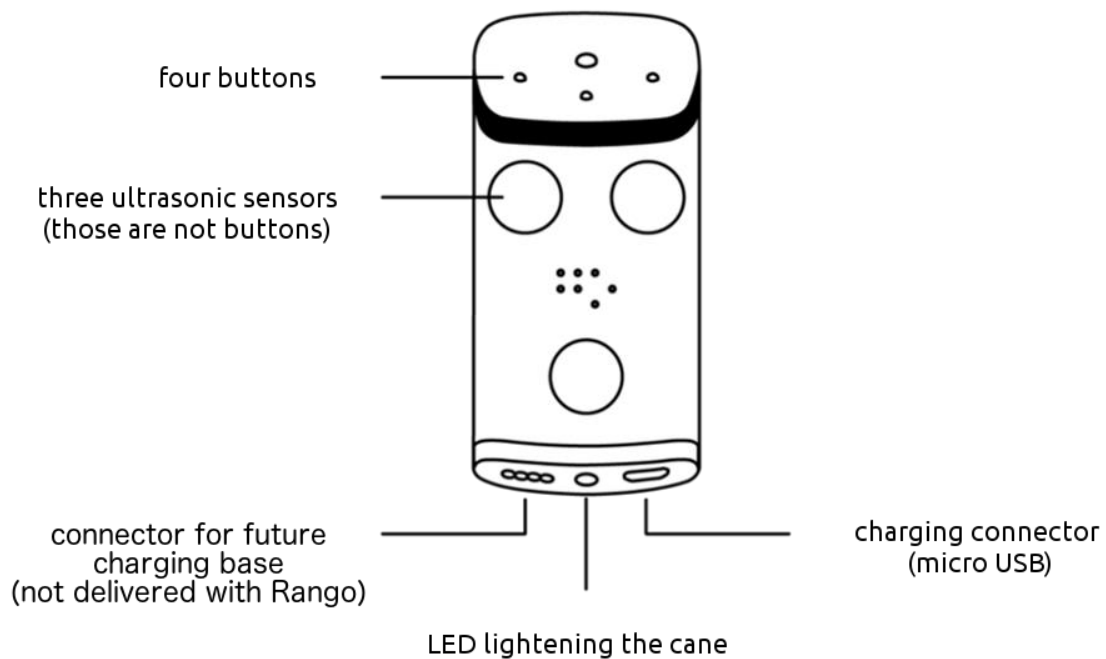
The box must contain the following items. If any of these items are missing or damaged, please contact your dealer.



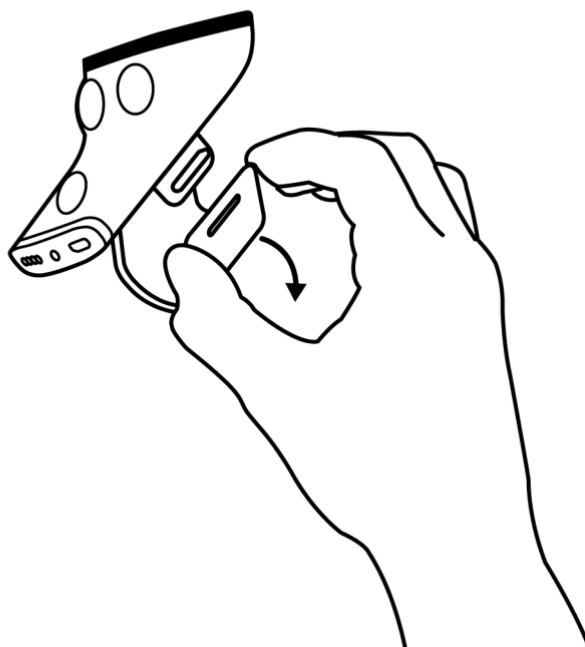
1. Rango
2. USB/Micro-USB cable
3. AC/USB charger

Overview

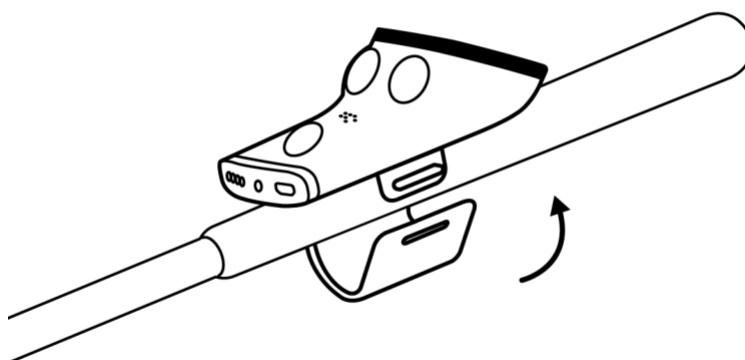
Rango has four thumb-accessible buttons, an LED to light your cane in the evening and a micro USB charging connector. By manipulating Rango, you will also notice, on the face of the top of the product, the presence of three ultrasonic sensors (they are not buttons) and on the bottom of the product, a connector with four contacts present next to the LED, which will serve for a future charging stand (not delivered with Rango).



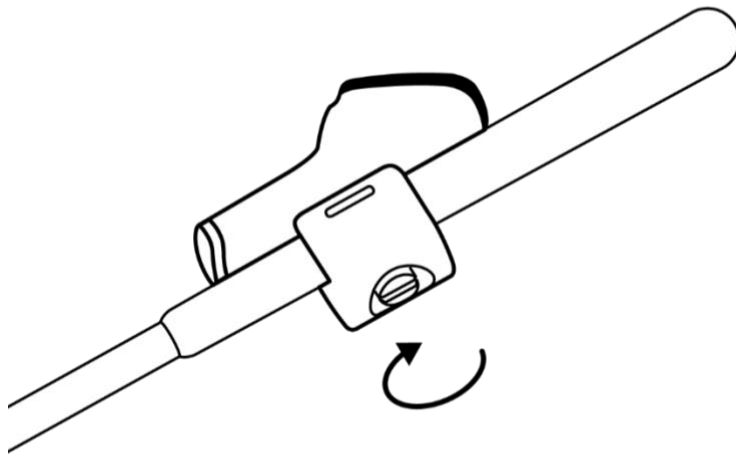
Fixation on your cane



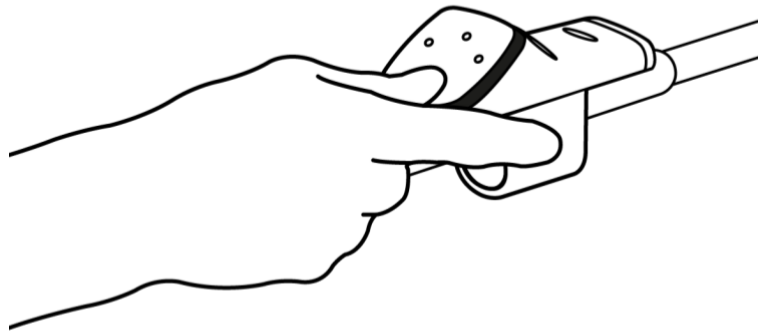
Take your Rango in one hand and then open the "U" grip behind your Rango. To open the grip an outward force of the product must be exerted.



Then place your Rango on the handle of your white cane. Close the grip. If this is difficult, make sure that the clamping screw is unscrewed as far as possible. If necessary, also think about sliding Rango down your grip. At closing you will hear a clip or feel a notch click.



Then, so that your Rango is well attached to your cane, remember to tighten the screw grip with the help of a coin. Check that Rango does not move. If so, Rango is in place.



While on the move, place your thumb on the main button and your index finger on Rango's side.

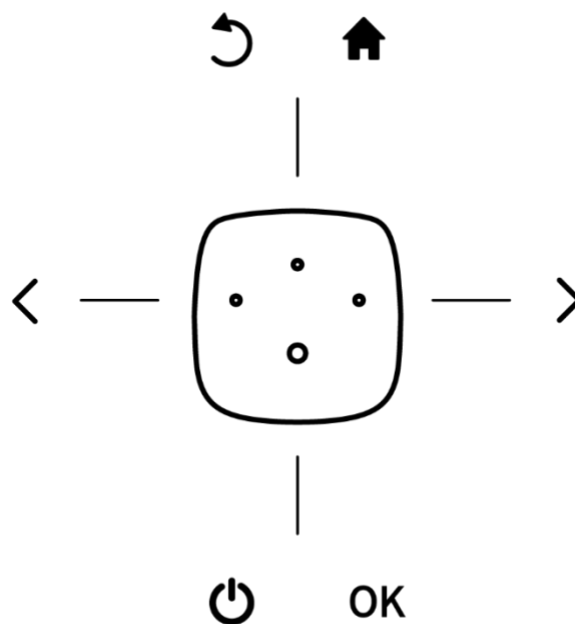
First connection of Rango to your phone

- Step 1: Download the Rango app to your phone from the App Store (on iPhone) or the Google Play Store (on Android).
- Step 2: Activate the Bluetooth of your phone and launch the Rango application.
- Step 3: Switch on Rango by pressing the bottom button (the biggest of the 4).
- Step 4: In the mobile app, press the "Start Pairing" button at the bottom of your screen.
- Step 5: The app tells you that Rango is paired with your phone.

Getting Started with Rango

- Step 1: Put on your headphones.
- Step 2: Connect the headphones to your phone, check that your phone's volume is at maximum or close to maximum.
- Step 3: Launch the Rango application.
- Step 4: Lock your phone and put it in your pocket.
- Step 5: Turn on Rango.
- Step 6: Test Rango in a secure environment outdoors. Place yourself in front of a wall, then move forward by sweeping with your cane. As soon as you get close to the wall, you hear a sound (faster and faster) alerting you of its immediate presence. Step back: the sound feedback should slow down and stop; the wall is no longer a danger.

Using the buttons



The thumb zone on the top of Rango consists of 4 buttons: up, down, left and right.

The bottom button, which is also the biggest one, is the "validation" and "on/off" button of Rango. When Rango is switched on and connected to your phone, if you press the "validation" button, a voice will tell you your location, time, and Rango's battery level.

The top button is the "back" and "home" button.

The left and right buttons allow you to access your various Rango features via a circular menu.

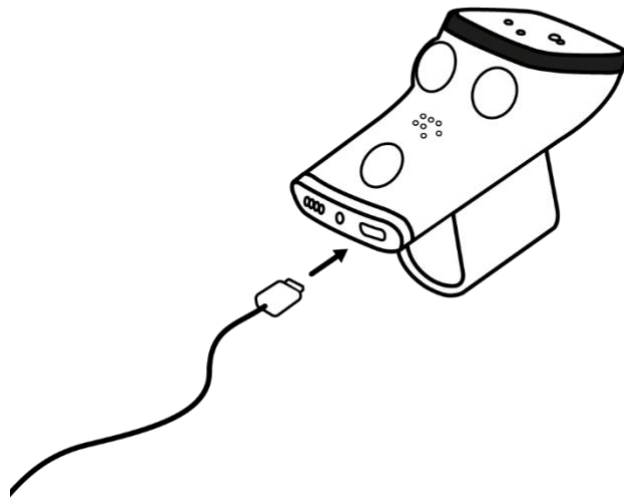
Extinction and standby of Rango

To turn off Rango simply press and hold down the button at the bottom of your thumb zone, the biggest button. You hear a set of beeps from Rango and the message "Rango is shutting down" in your headphones. You know then that Rango is off.

A standby mode is also integrated with Rango. It engages automatically when you bring your cane up. The standby mode is a mode that allows Rango to conserve his battery. During the standby mode Rango is not turned off but the detection is no longer active. Rango goes out of standby mode as soon as you start using your cane again.

If you forget to turn off your Rango, it will turn off automatically after 4 minutes of inactivity.

Charging & battery life



In continuous use and therefore without stopping or without stopping your cane, Rango can hold 3 hours and a half. But you have understood that the standby mode saves your battery and you avoid unnecessary sound feedbacks. For everyday use, we can estimate that your Rango can hold 2 days before having to be recharged.

The standby mode is activated automatically at two points: when you put your cane vertically back towards you, Rango understands it and puts itself in standby mode. The detection is then deactivated. The idea is that by your behavior you tell Rango that you are no longer in the action of looking for obstacles. Therefore, in addition to conserving your battery, Rango avoids disturbing you with unnecessary sound alerts. However, if you want to keep the active detection, just leave your white cane in displacement and Rango will stay on the lookout. The other situation is that if you put down Rango, cane folded or not, then Rango immediately goes into standby mode. If it is disconnected from the phone, then after 4 minutes Rango will turn off by itself.

You can check your battery level yourself through the thumb zone and the validation button, big bottom button. A voice then indicates you several useful information including the battery level. Soon a voice will tell you, the remaining percentage and how much time is left before Rango turns off.

To recharge your Rango, take your USB cable and connect it to Rango. The USB port is in the lower part of Rango. After 2 hours, Rango's battery is 100% charged. To find out where the charging level is while your Rango is charging, unplug it, turn it on and open your Rango app. Press the bottom button or the confirm button. A voice will tell you different information including the battery level of your Rango. Although technically it can work, Rango should not be used while it is charging.

Understanding audios feedbacks

Sounds coming from Rango

Rango embarks a beeper that allows it to emit sounds.

On switching on and off, Rango emits a sound. If needed and to locate your Rango or your white cane, you can also ring Rango from your mobile application by going into your settings.

Sounds coming from the phone

Rango is connected to your smartphone and has its own mobile app. Your smartphone manages the sound interface of Rango. Thus, your phone transmits via your headphones, the obstacle warning sound, but also vocalized information on your location, time, battery level Rango and your various features (also accessible through the 4 buttons of the thumb zone of your Rango).

Chapter 2: Your Rango daily

Using the cane with Rango

You can fold your white cane while leaving Rango fixed on it.

When traveling, it is possible that you do not always hold your cane perfectly straight. No worries, Rango compensates for this in order to stay functional and continue to protect you from head to toe and shoulder width. It is simply important to avoid Rango being turned completely to the side or to the ground.

Maintenance & cleaning

To clean your Rango, wipe it with a soft cloth or sponge with soap and water. Avoid solvents.

Your repair kit

Rango is protected against impact by two plastic parts loaded with fiberglass. These two rings, placed at the ends of Rango, are the first points of contact in case of fall of your product. Although thought to be the most robust possible, please be informed that if they come to break, it is possible to change them. You will soon be able to order a repair kit on our website www.gosense.com.

Important safety information

Obstacle detection

Although we make a point of honor to create a full protection, we can not guarantee that Rango will detect all obstacles in all situations. At times, Rango can for example be disturbed by the ground harshness. Nevertheless, know that we are already testing technical tracks to improve this.

Finally, we rely on your feedback to improve Rango in the coming months and years with free software updates.

Battery

Do not attempt to replace the battery of your Rango yourself, as it may damage the battery and cause overheating, fire and injury. The lithium-ion battery in your Rango must be replaced by GoSense or a GoSense-approved service center. It must be recycled or disposed of separately from household waste. Dispose of batteries in accordance with local laws and regulations.

Technical specifications

Charger

- Input: 100-240Vac, 50-60Hz
- Output: 5Vdc, 1A

Battery

- Type: Lithium-ion
- Capacity: 700 mAh
- Voltage: 3.7V

Radio

- Type: Bluetooth Low Energy
- Frequency range: 2400 to 2483.5 MHz
- Power: < 20dBm

Rango

- Avoid extreme temperatures. Your Rango is designed to work properly in a wide range of temperatures, with a comfort zone of 10 °C to 25 °C (degrees Celsius) considered as ideal. You can use Rango in an environment from -20 °C to 45 °C (degrees Celsius). In this or that, you may damage the battery capacity. In other words, your battery will not power your device if expected for a given charge. You can recharge your Rango in an environment ranging from 0 °C to 45 °C (degrees Celsius). You can store Rango in an environment from -20 °C to 30 °C (degrees Celsius). If you use Rango in a very cold environment, you may notice a decrease in battery life, but this situation is temporary. Once the battery temperature is back to normal, performance returns to normal.

Chapter 3: Frequently asked questions

Does Rango work on Android?

Rango works well with Android. Nevertheless, some prerequisites are necessary to pair Rango with your smartphone. Make sure that your smartphone has Bluetooth 4.0 or higher and a version of Android 5.0 or higher.

Does Rango work with specialized smartphones (Doro Smartvision, ...)?

The specialized smartphones such as Kapsys Doro Claria Vox or Olga phone are not compatible with Rango. Nevertheless, the SmartVision 2 is compatible with Rango.

My Rango has no longer sound feedback, or no longer reports my location, time or battery level; is this normal?

If there is a problem with your Rango, remember to restart your phone; once your phone is on, check that Bluetooth is enabled, turn on your Rango mobile app, then your Rango. Once Rango connected everything should work again. If the problem persists, visit forum.gosense.com. Finally, contact us on support@gosense.com

Does Rango stand up to shocks?

Rango has been designed to withstand shocks, thanks to two fiber-filled plastic parts, which are placed at the ends. Rango underwent several "crash tests" which were very conclusive. However, it can happen that your Rango is damaged after a violent shock. A repair kit will soon be available on our website www.gosense.com in ecommerce.

Is Rango waterproof? Is it resistant to rain?

Rango complies with the protection rating "IP 64", which is fully protected against dust and splashing water from all directions.

Does Rango work indoors?

Rango has been designed to work outdoors. However, Rango can also work indoors. You may just be alerted more often of the presence of a nearby obstacle. That said, remember that when you put your cane upright and bring it back to you, Rango understands it and turns it off to save energy. The idea is that by your behavior you tell Rango that you are no longer in the action of looking for obstacles, and therefore in addition to conserving your battery, Rango avoids disturbing you with unnecessary sound alerts. However, if you want to keep the active detection, just leave your white cane in displacement and Rango will stay on the lookout.

Can Rango be hung on a cane without a handle, with a curved handle or with a flat face?

With its "U" grip and tightening screw, Rango attaches to any type of white cane. If you have a round handle with a flat face, in order to better adjust the position of your Rango and in case of

difficulties, remember to check that your clamping screw is maximized and if necessary, slide your Rango more down, until you can close the grip. Finally, tighten the clamping screw with a simple coin.

In the case of a Czech Rango cane should be directly positioned on the tube of the cane just below the handle.

Can Rango be attached to a dog harness guide?

Rango is used on a white cane, it was designed like that. It is important to sweep so that Rango can correctly detect the dangers. In addition, the dog could be considered by Rango as an obstacle.

How long can I keep my Rango until I have to buy another one?

At GoSense, we make are proud of designing robust and durable products.

It is in this dynamic that a repair kit will soon be available on our ecommerce website. A replacement service for your battery is also provided.

Free software updates will also be offered regularly to improve the performance of your Rango.

Why use sound feedbacks rather than vibration?

The vibration feedbacks can be difficult to perceive, especially when wearing gloves. Understanding the different vibrations is often laborious and requires more difficult learning. In addition, the information they can transmit is limited.

At GoSense, we decided to reuse our instinctive ability to detect sounds in space. Indeed, everyone easily detects the origin of sounds. It is partly thanks to this, that Rango is intuitive and that it will allow you shortly, with a small training and a short time of adaptation, to locate obstacles in 3 dimensions.

However, in order to provide a solution for those who prefer the feedbacks per vibrations, we plan to make Rango compatible with a vibrating bracelet.

Can I put only one headset instead of both when using my Rango?

For now, yes, because we have not yet activated the Rango 3D sound interface.

Coming soon and to benefit from the 3D sound feedbacks, it will be essential to put your headphones in both ears.

Can I use my Rango without a white cane?

We do not recommend it. Rango was designed to be used with a white cane. It is indeed important to sweep so that Rango can correctly detect the dangers. So technically, if you perform a sweeping motion and you hold Rango in front of you, it is possible, but not very ergonomic.

Will I be able to customize my sound and voice feedbacks?

Yes, this will be possible thanks to upcoming updates. So, in the settings of your Rango mobile app, we will let you choose from a family of warning sounds for obstacles. You can also customize your information transmitted by voice.

Chapter 4: How to get help?

Forum

A forum is accessible at the Internet address **forum.gosense.com**. This forum is your exchange space. The idea is to allow you to ask questions about the use of Rango to the entire community of users, **but also to report your feedback of user's experiences and your ideas of changes**.

Online Tutorials

The online tutorials will be available soon to help you better understand the features of Rango.

Trainings

An initiation by telephone is offered to you to get started with Rango. During this initiation, we exchange first on Rango and on its functionalities, then we carry out together, a simple test in interior facing a wall. Secondly, a week after using Rango every day, we recontact you by mail or phone, to see if all is well. To make an appointment, we invite you to contact us at the following email address: **training@gosense.com**

If necessary, a complementary training offered at 50€ per hour is also possible. We estimate a training time between 2 hours and 4 hours to be sufficient in most cases. During this training, after getting your hand on the product, we will go together with Rango in the streets. We will then answer all your questions and we will explain the situations encountered. To make an appointment, we invite you to contact us at the following email address: **training@gosense.com**

Chapter 5: Warranty & Regulation

One-year Limited Warranty Summary

GoSense warrants Rango and its accessories against any material and manufacturing defects for two years from the date of original purchase. GoSense does not guarantee Rango against normal wear and tear, damage caused by accident or misuse. To have your device repaired, it is recommended to contact GoSense by email at support@gosense.com

EU Statement of Compliance

GoSense states that Rango complies with the essential requirements of the EU.

The GoSense company holds trademark "Rango" and "GoSense" in France and abroad.

Terms of use

Use

Your RANGO must be used in accordance with these terms of use. GOSENSE can not be held responsible for any use that does not comply with these terms of use.

Attention: at full sound power, prolonged use of RANGO can damage the user's ear. The sound level should be set reasonably and in consideration of your personal situation.

Warning

Your RANGO is an electronic device for walking assistance for people with and without disabilities. For a proper use, RANGO must first be tested and controlled in a closed and familiar environment before being used in an outdoor or unknown environment. GOSENSE recommends 2 hours of practice in a known environment, safe and closed before testing outside or in an unknown environment. GOSENSE recommends that you can be accompanied by a sighted person for your first use in an unfamiliar environment, until you have complete control of your RANGO which can take up to 3 days in daily use.

RANGO is a walking aid that can not be used as a substitute for the caution of the user adapted to his personal situation.

Your RANGO will warn you of the main objects present in the immediate environment of your cane, from 0 meter to 1.50 meters in front of you. RANGO is not able to detect the holes or small obstacles as well as soft obstacles. GOSENSE can not guarantee that RANGO will detect all types of obstacles in all situations. You must therefore remain fully aware of your environment and

adopt the same caution as when you travel without RANGO. An attention and note will have to be given to the traffic of surrounding vehicles and the roadworks.

RANGO may only be used as a walking aid to the exclusion of any other mode of transport (public transport, bicycle, car, motorized two-wheeled vehicles in particular) or other activity (sports, manual labor in particular).

Your RANGO has been designed for outdoor use. Indoor use may work but is not yet suitable, moreover use in specific and risky situations such as beachfront, riverbank or lake, mountain or hostile environment may lead to additional unsuitable risks.

In case of doubts about the adaptation of RANGO to your situation, you are invited to refer to a health professional or to ask any question to your reseller or to GOSENSE on the site <http://www.gosense.com>.

RANGO BEING ONLY A DISPLACEMENT ASSISTANCE SYSTEM, GOSENSE DISCLAIMS ALL RESPONSIBILITY IN THE EVENT OF DOMAINS TO PERSONS OR PROPERTY OCCURRING DURING ITS USE, IN PARTICULAR IN CASE OF NON-RESERVE OF THESE TERMS OF USE.

Before using the RANGO you must ensure that its batteries are sufficiently charged to accompany you for the planned journey.

Your RANGO must be handled with care: it contains sensitive electronic components that can be damaged if dropped, burned, pierced, crushed or comes in contact with liquid. If you suspect that your RANGO or battery may be damaged, stop using your RANGO.

In case of damage, do not try to repair your RANGO yourself but contact the company GOSENSE on the site <http://www.gosense.com>.

Some accessories in your RANGO may be a choking hazard for young children. Keep these accessories away from young children.

The use of RANGO by a person under the age of 10 without the help of a valid adult person is not recommended.

The presence of waves or radiofrequency may temporarily affect the operation of your RANGO, so you must be careful in all circumstances.

Your RANGO contains components and radios that emit electromagnetic fields. These electromagnetic fields and magnets can interfere with pacemakers, defibrillators or other medical devices. Keep a safe distance between your medical devices and your RANGO and headphones. Consult your doctor and the manufacturer of the medical device for information specific to your medical device. If you think your RANGO is interfering with your pacemaker, defibrillator, or other medical device, stop using your RANGO.

Your RANGO and charger are compliant with applicable standards and limits for surface temperature. However, even within these limits, prolonged contact with hot surfaces can cause

discomfort or injury (see user manual at noticerango.com). Use common sense to prevent your skin from being in prolonged contact with a device, its AC adapter, or a wireless charger while it is in use or connected to a power source. For example, do not sleep on a device, AC adapter, or wireless charger. Also, do not place them under a blanket, pillow, or your body when they are connected to a power source. It is important to keep your RANGO charger in a well-ventilated area when using or recharging. Be particularly careful if your physical condition prevents you from normally feeling the heat on your skin.

Your RANGO is surrounded by a protective hull of liquids. If liquid splashes on your RANGO, wipe it with a cloth. However, the exposure of your RANGO to a high dose of liquid (including total immersion) or to liquids other than clear water (acids in particular) may cause irreparable damage to the device. In order to limit the exposure of your RANGO to these risks, do not immerse your RANGO in the water, do not put it in the dishwasher or in the washing machine, do not expose it to water sports, saunas or steam rooms or in environments

RANGO has been designed to operate at ambient temperatures between 0 and 35 °C and stored at temperatures between -20 and 45 °C. Your RANGO may be damaged and the battery life may be shortened if stored or used outside these temperature ranges. Avoid exposing your RANGO to sudden changes in temperature or humidity.



The above symbol means that, in accordance with local laws and regulations, you must dispose of your product and/or battery separately from household waste. When this product is no longer usable, take it to a waste collection center approved by the local authorities. The separate collection and recycling of your product and/or battery during disposal helps conserve natural resources and protect the environment and human health.

Intellectual property

"RANGO" is a registered trademark at INPI by GOSENSE. Any unauthorized use may be sanctioned.

The technology used by your RANGO is the property of GOSENSE, any unauthorized use may be sanctioned.

Warranties - Liability

Your RANGO is covered by the following guarantees:

- legal guarantee of conformity, for Products apparently defective, spoiled or damaged or not corresponding to the order,
- legal warranty against hidden defects resulting from a defect in material, design or manufacture affecting the delivered products and rendering them unfit for use, under the conditions and in the manner described below.

RANGO is not covered by any other warranty.

This warranty only applies to the RANGO product itself and does not extend to consumable parts that may be supplied (such as batteries, protective coating). This Warranty shall not extend to any use of your RANGO that does not comply with these terms of use.

Provisions relating to legal warranties

French decree of December 18, 2014 relating to the information contained in the general conditions of sale regarding legal guarantee - Articles 2 and 3

The seller is held to the defects of conformity of the good to the contract in the conditions of the article L. 211-4 and following of the code of the consumption and the hidden defects of the thing sold under the expected conditions in articles 1641 and following of the French civil code.

The customer:

- benefits from a period of two years from delivery of the property to act;
- may choose between the repair or replacement of the property, subject to the cost conditions provided for in Article L. 211-9 of the French Consumer Code;
- is exempted from reporting the proof of the lack of conformity of the property during the six months following the delivery of the property. This period is extended to twenty-four months from March 18, 2016, except for second-hand goods.

The legal guarantee of conformity applies regardless of the commercial guarantee that may be granted.

The consumer can decide to implement the guarantee against hidden defects of the thing sold within the meaning of Article 1641 of the French Civil Code and that in this case, he can choose between the resolution of the sale or a reduction of the selling price in accordance with Article 1644 of the French Civil Code.

Article L211-4 of the French Consumer Code

The seller is required to deliver a good in accordance with the contract and is liable for any lack of conformity existing at the time of delivery. He also responds to any lack of conformity resulting from the packaging, the assembly instructions or the installation when it has been charged to him by the contract or has been carried out under his responsibility.

Article L211-5 of the French Consumer Code

To be in conformity with the contract, the property must:

- Be fit for the usual expected use of a similar good and, where appropriate:
 - correspond to the description given by the seller and possess the qualities that he has presented to the buyer in the form of a sample or a model
 - present the qualities that a buyer can legitimately expect given the public statements made by the seller, the producer or his representative, in advertising or labeling
- Or have the characteristics defined by mutual agreement by the parties or be fit for any special purpose sought by the buyer, made known to the seller and that the latter has accepted.

Article L211-12 of the French Consumer Code

The action resulting from the lack of conformity is prescribed by two years from the delivery of the goods.

Article 1641 of the French Civil Code

The seller is bound by the guarantee by reason of the hidden defects of the thing sold which render it unsuitable for the use for which it is intended, or which diminish the use so much, that the buyer would not have acquired it, or not would have given a lower price, had he known them.

Article 1648 paragraph 1 of the French Civil Code

The action resulting from the latent defects must be brought by the purchaser within two years from the discovery of the defect.

General provisions

No RANGO reseller or any other person other than GOSENSE is authorized to modify these.

If a stipulation herein is considered invalid or unwritten, the remainder of the stipulations will remain in effect.