



# Safe Spacer

Wearable social distance monitor





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## 1 SAFETY INSTRUCTIONS

Before using this product, carefully read this user manual. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to Safe Spacer or other property. Do not dispose of this manual. Ensure that this information is retained and used appropriately by the product user.

- Users must fully understand and strictly observe the instructions. Use the product only for the purposes specified in this document. Comply with all local and national rules and regulations associated with this product.
- Users of Safe Spacer must be familiar with the relevant safety concepts of the industrial environment they are operating in, as well as applicable standards and other regulations. Always obey site-specific signs and instructions.

### RF EXPOSURE AND INTERFERENCE

Safe Spacer uses radio signals to connect to wireless networks and other devices. It is designed, tested, and manufactured to comply with regulations governing radio frequency emissions. Even so, radio-signal emitting devices can negatively affect the operation of other electronic equipment, causing them to malfunction.

### POSSIBLE MEDICAL DEVICE INTERFERENCE

Safe Spacer contains components that emit electromagnetic fields. This may interfere with medical devices, such as pacemakers and defibrillators. Consult your physician and medical device manufacturer for information specific to your medical device and whether you need to maintain a safe distance of separation between your medical device and Safe Spacer.

If you suspect Safe Spacer is interfering with your medical device, stop using it immediately and consult your physician.

### SAFE SPACER IS NOT A MEDICAL DEVICE

Safe Spacer is not a medical device and should not be used as a substitute for professional medical judgement. It is not designed or intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of any condition or disease.

### NOT FOR USE IN A POTENTIALLY EXPLOSIVE ENVIRONMENT

Charging or using Safe Spacer in any area with a potentially explosive atmosphere, such as areas where the air contains high levels of flammable chemicals, vapors, or particles (such as grain, dust, or metal powders), may be hazardous.

Exposing Safe Spacer to environments having high concentrations of industrial chemicals may damage or impair Safe Spacer functionality.



## 1.1 REPAIR AND MODIFICATIONS

- Only trained and competent personnel are permitted to inspect, repair and service Safe Spacer.
- Use only original parts and accessories for using and maintaining this product. Otherwise, the correct functioning of the product could be impaired.



**CAUTION:** Modifications to any component of Safe Spacer are not permitted, as they can endanger your safety or damage the device. Disassembling Safe Spacer may cause damage, result in loss of water resistance, and may cause injury to the user.

## 1.2 BATTERY SAFETY AND DISPOSAL



**WARNING:** Safe Spacer contains a non-user replaceable lithium-ion battery. It should be serviced only by IK Multimedia. Don't incinerate or damage the battery. This could cause overheating and injury.

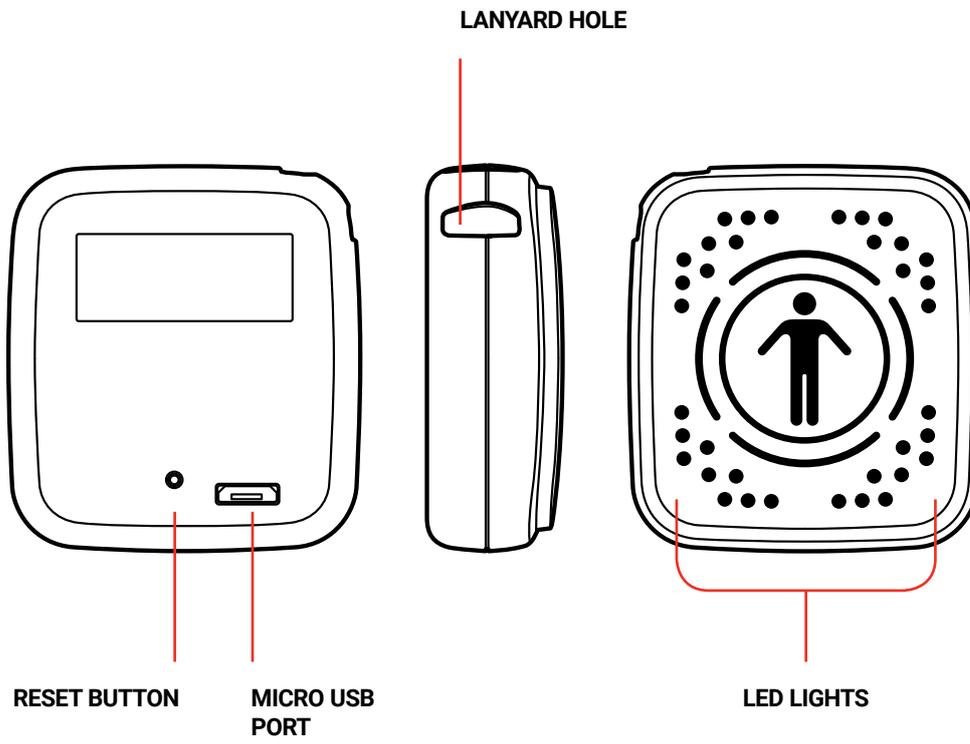


### EUROPEAN UNION—DISPOSAL INFORMATION

The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.



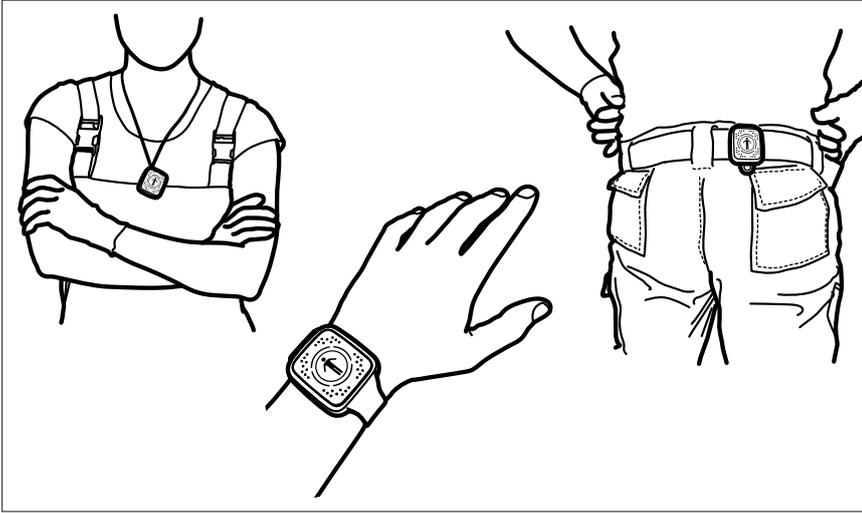
## 2 OVERVIEW





### 3 INSTALLATION

Safe Spacer can be worn using a **LANYARD**, **WRISTBAND**, or **BELT LOOP**.

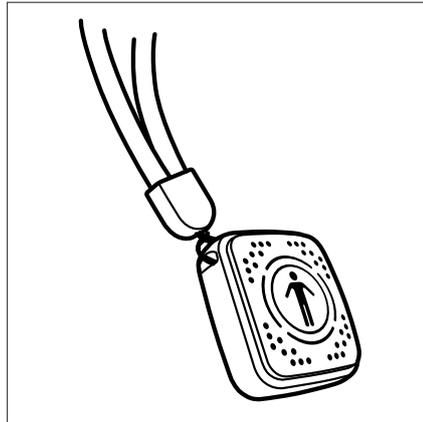
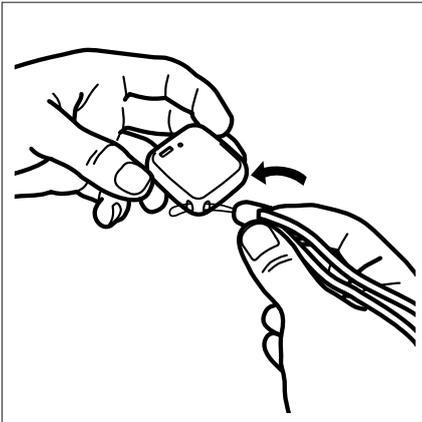


NOTE: Before starting to use Safe Spacer, make sure it is fully charged (see: 5 Battery level and charging).

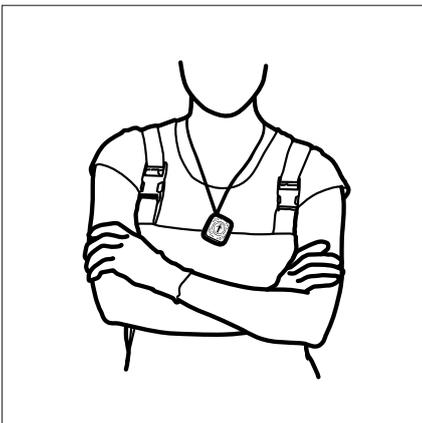


### 3.1 LANYARD

- Use the lanyard to wear Safe Spacer as a necklace.



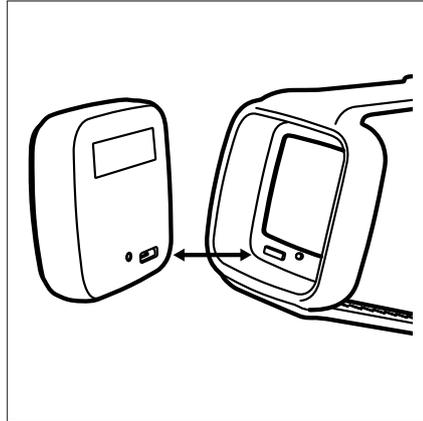
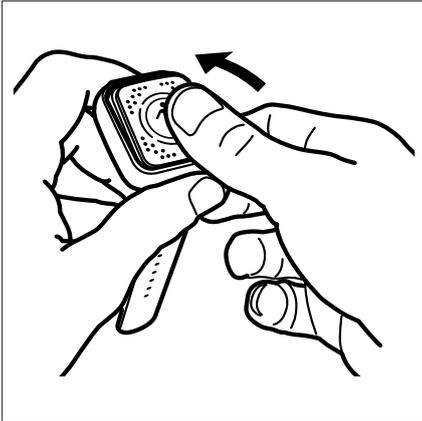
- Insert the loop of the lanyard into one of the holes and push the loop in until it comes out of the other hole.



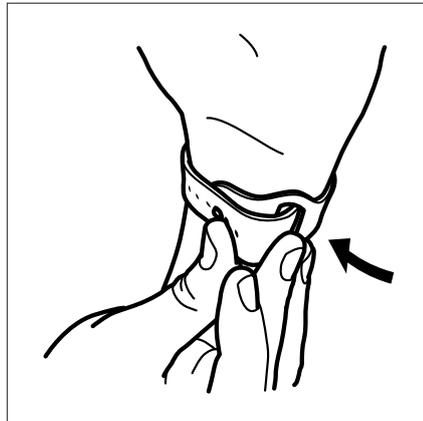
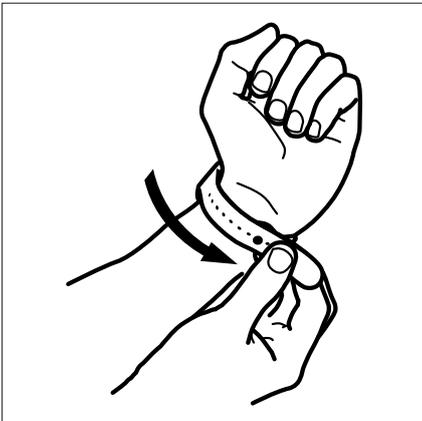
- Thread the lanyard cable through the loop, then pull the lanyard cable to secure it in place.



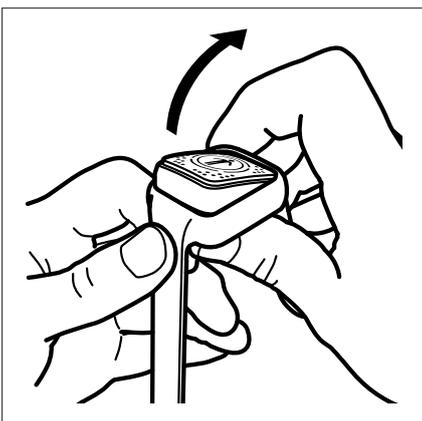
### 3.2 WRISTBAND



- Put the Safe Spacer into the wristband with the logo facing outwards.

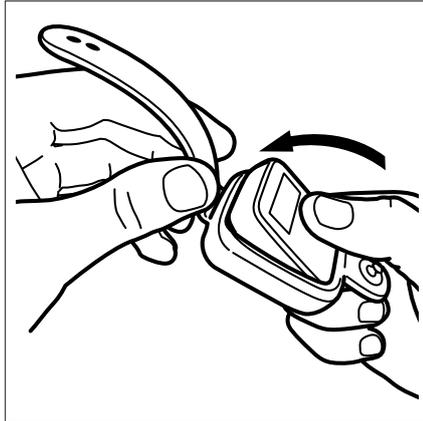
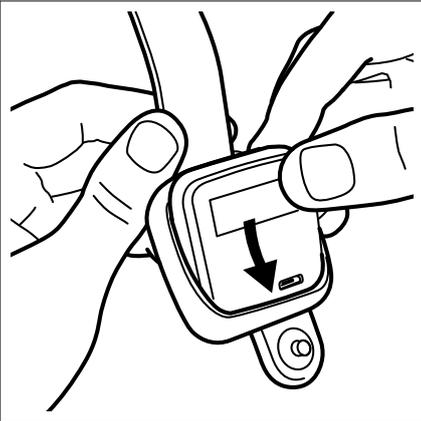


- Put the wristband around either wrist and push the clasp firmly through the hole most comfortable to wear. Put the loose end of the top strap through the loop until both straps lie flat.

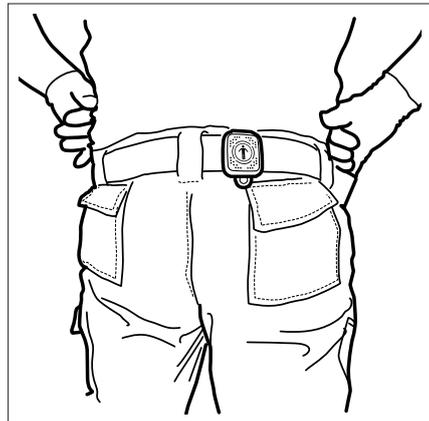
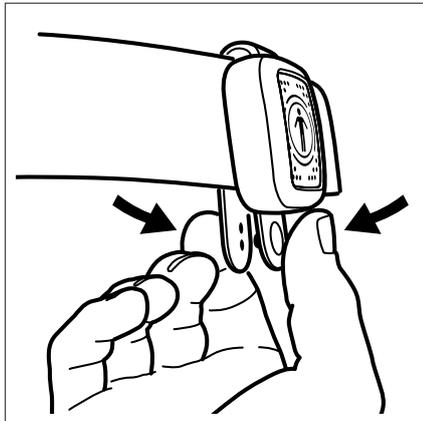
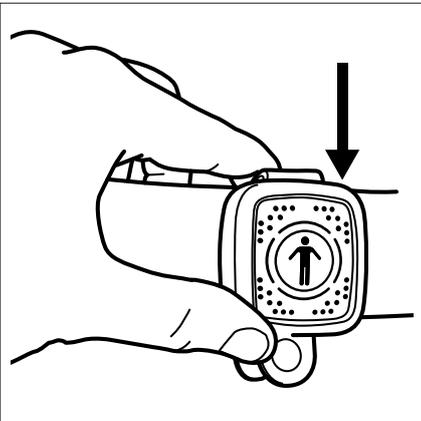


- It is possible to remove the Safe Spacer from the wristband in order to access either the push-button or the micro-USB port.

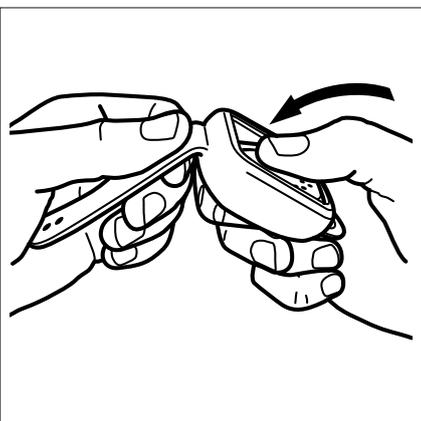
### 3.3 BELT LOOP



- Put the Safe Spacer into the belt loop with the logo facing outwards.

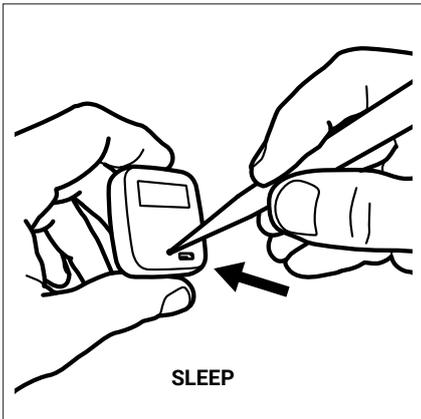


- Put the belt loop around the belt and push the clasp firmly through the hole.

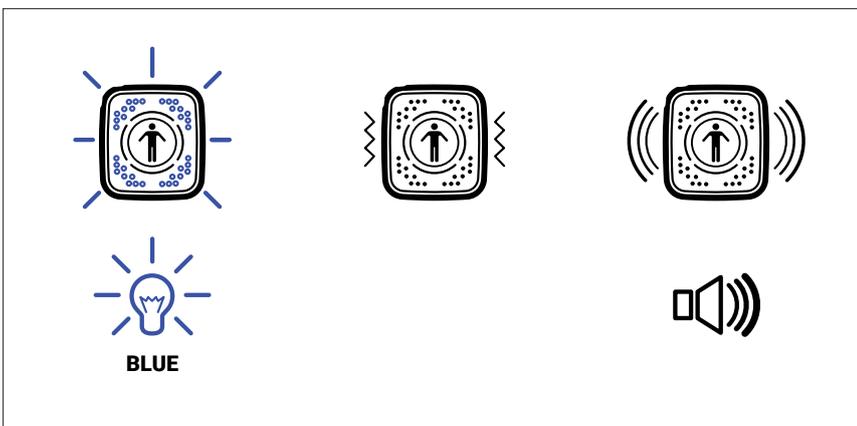


- It is possible to remove the Safe Spacer from the belt loop.

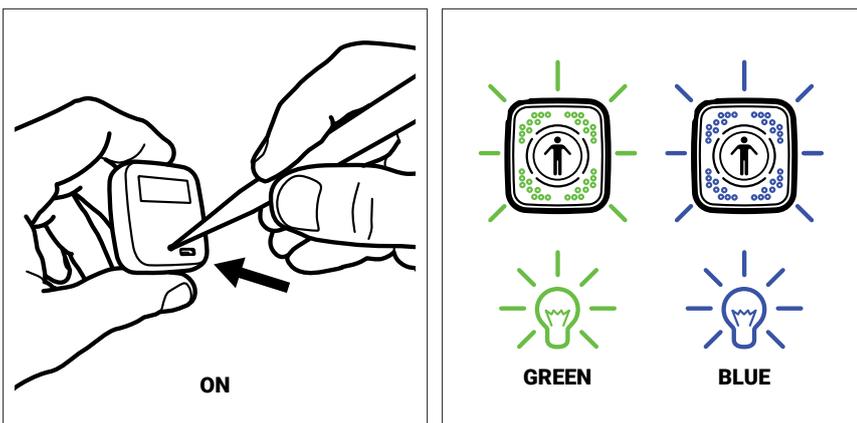
## 4 RESET BUTTON



- Put the Safe Spacer to **SLEEP** by pushing the button on the back of the unit.



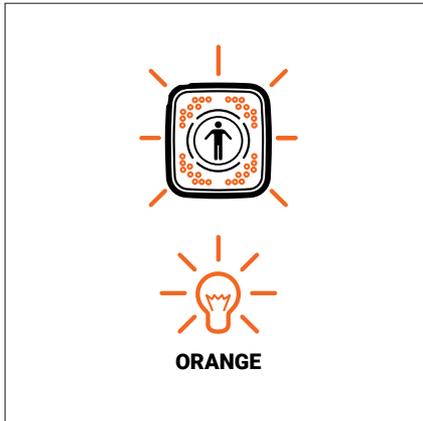
- The lights on the unit will flash **blue** once and emit a single vibration accompanied by a tone when the unit has turned off.



- Turn the Safe Spacer **ON** by pushing the button on the back of the unit. The unit will turn on and the lights will blink **green/blue** alternatively for 10 seconds.
- To trigger a reset, push and hold the button on the back of the unit for more than 5 seconds.

## 5 BATTERY LEVEL AND CHARGING

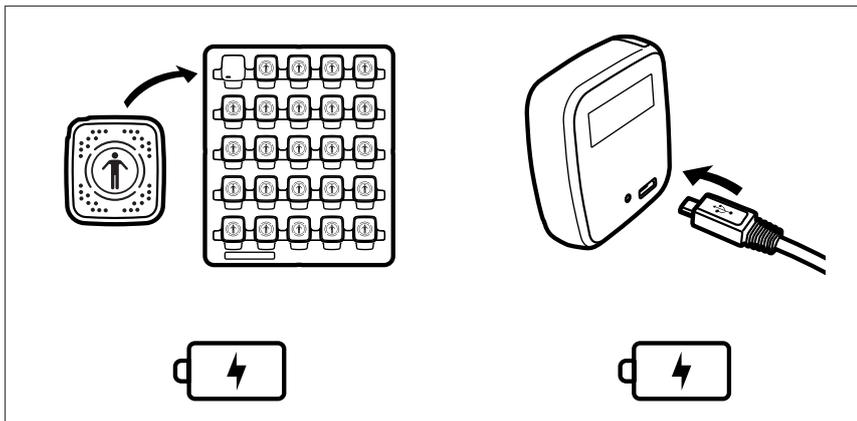
### 5.1 BATTERY LEVEL ALERTS



When the battery level is below 8% the LED lights will flash **red** 4 times, every 30 seconds.

**Charge the device as soon as possible.**

### 5.2 CHARGING

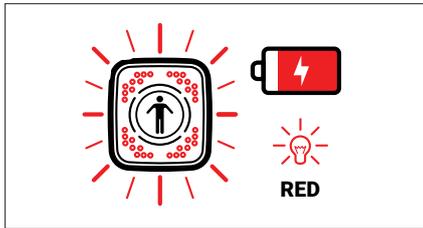


- It is possible to use the dedicated **S-Charger** bay or any micro-USB power supply capable of 5VDC and 1A.

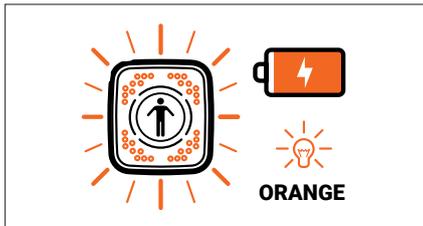


### 5.3 BATTERY LEVEL STATUS

While the Safe Spacer is charging, the lights on the unit will show you the battery level status:



when the battery level is below 70% the LED will glow a steady **red**;



when the battery level is above 70% the LED will turn **orange**;



when the battery is fully charged the LED will turn **green**;

- On removing the Safe Spacer from the micro-USB power supply, the unit will turn **ON** and the lights will blink an alternating **green & blue** for 2 seconds.



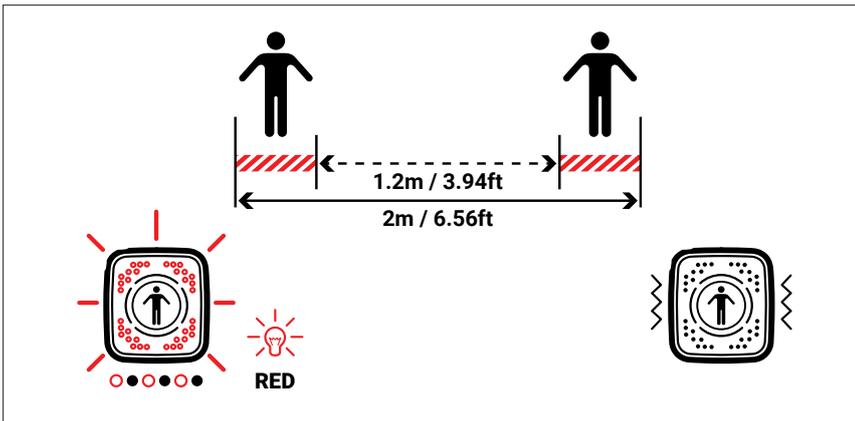
**CAUTION:** Keep Safe Spacer and the power adapter in a dry, well-ventilated area when charging. Don't use a charging cable or power adapter that is damaged or modified. Failure to do so may cause fire, electric shock, injury, or damage to Safe Spacer or other property. Don't wear Safe Spacer on your body or under clothing when charging the device.

## 6 SOCIAL DISTANCE WARNING

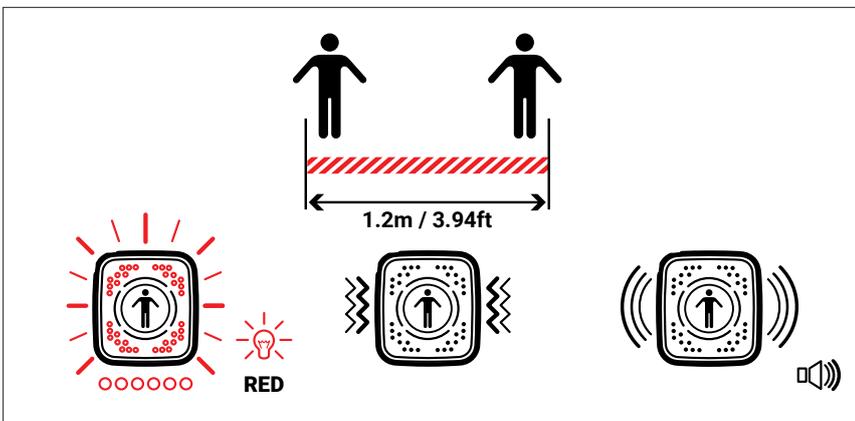
Social distancing between workers is ensured by alerting them if they come too close to each other.

The social distancing warning thresholds can be configured with dedicated software or the command line interface (CLI).

### Default threshold values:



- **ALERT 1:** When the distance between two or more units is between 1.2m / 3.94ft and 2m / 6.56ft, the lights on the unit will flash **red** and the unit will vibrate every 2 seconds.



- **ALERT 2:** When the distance between two or more units falls below 1.2m / 3.94ft, the lights will flash red and the unit will vibrate every second, accompanied by an intermittent sound alert (IK141-108 version only).

## 7 CONTACT DATA LOG

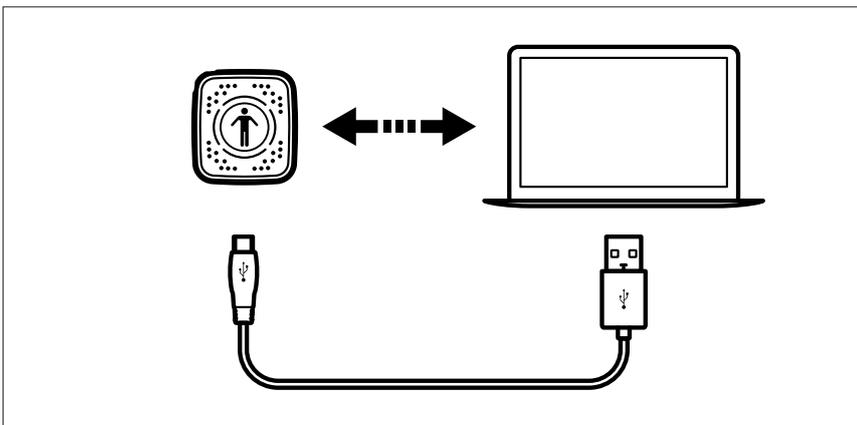
The Safe Spacer can work as a **proximity alarm** and/or a **contact tracing** device.

The two features can be **enabled** or **disabled** independently.

When contact tracing is active, each device that comes within **2 meters** is logged, regardless of the alarm status and the alarm threshold settings.

The idea is to log the most reliable contact tracing data possible, independent of distance and/or time thresholds that may change.

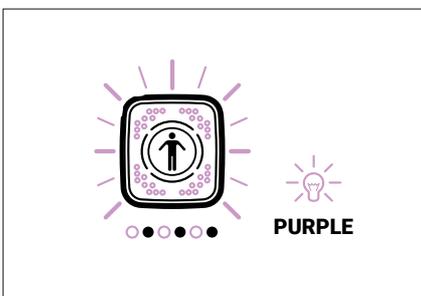
It is possible to enable/disable the contact data log via the dedicated software or command line interface.



- By default, the contact data log is disabled: to turn it **ON**, connect the unit to a computer: the Safe Spacer software can automatically set date and time and turn on contact data logging. Alternatively, you can use the command line interface (CLI) to set date and time and then turn contact data logging on manually.

### 7.1 ERROR MESSAGES

Once data logging is enabled, it is advisable to download the data regularly to prevent the internal memory from filling up.



If the internal memory becomes full, or date and time are not valid, the Safe Spacer will blink **purple** rapidly every 2 seconds until the data log is downloaded or date and time is properly set.



## 8 CARE INFORMATION

### 8.1 CLEANING THE WRISTBAND OR BELT LOOP

- Clean the wristband regularly. The wristband is made of thermoplastic elastomer, and can be cleaned with a mild soap solution and warm water.
- Do not use abrasive cleaners or silicone-oil based products on the wristband, as it can deteriorate the material.
- The strap can be sanitized by wiping it with isopropyl alcohol. Remove the Safe Spacer casing from the wristband before doing so.
- After cleaning, dry the wristband with a clean, lint-free cloth and let it air dry before using it again.

### 8.2 CLEANING THE DEVICE CASING

- Clean the casing of Safe Spacer with a damp cloth or a mild soap solution. Don't use abrasive cleaners.
- The casing of Safe Spacer can be sanitized by wiping it with isopropyl alcohol. Do not boil or autoclave the casing of Safe Spacer, as this may cause permanent damage to the device.
- After cleaning, dry the casing of Safe Spacer with a clean, lint-free cloth and let it air dry before using it again.

NOTICE: As the effectiveness of certain cleaning products and disinfectants against COVID-19 are not yet fully known by health authorities, IK Multimedia recommends checking the latest guidelines, which can be found on [www.ecdc.europa.eu](http://www.ecdc.europa.eu).

### 8.3 ALLERGY INFORMATION

- Safe Spacer is designed to the highest safety standards and manufactured from high-purity materials.
- As with all things worn close to the body, moisture and bacteria can cause irritation when wearing a wet or dirty wristband for extended periods of time. If you have known skin sensitivities, please take special care when wearing Safe Spacer. Clean the band and wrist regularly, especially after intense sweating or working in very dirty environments. Be aware that products such as lotions, perfume, soap or insect repellants are known to get trapped under items as jewelry and wristbands and cause irritation.
- Do not use aggressive products to clean the wristband. Keeping Safe Spacer and the band clean and dry will reduce the possibility of skin irritation.
- Take off the safety wearable when not using it, to allow your skin to breathe. If you experience redness, swelling, itchiness, or other irritation on your skin around Safe Spacer, remove the device and consult your physician.



## 9 SPECS

### Safe Spacer

<b>Wireless technology</b>	UWB - Channel 5
<b>Indicators</b>	Multicolor LED, sound buzzer, vibration feedback
<b>Battery</b>	Lithium Polymer battery, 3.7V, 200mAh
<b>Battery duration</b>	Up to 10 hours of continuous operation
<b>Re-charge time</b>	Approx. 3 hours (using optional S-Charger docking station)
<b>Power supply</b>	5V, 1A max. through micro USB connector
<b>Water resistant option</b>	IP67 rated (IK141-100)
<b>Operation</b>	-20°C to 55°C, 0 % to 98 % relative humidity
<b>Storage</b>	-20°C to 55°C, 0 % to 98 % relative humidity
<b>Certification</b>	FCC, IC, CE, CE-RED
<b>Data Matrix</b>	Unique Data Matrix for each unit
<b>Identification label</b>	25x10 mm free space for identification label
<b>Casing material</b>	PA polyamide
<b>Casing dimensions and weight</b>	47 mm x 42 mm x 16 mm, 25 g
<b>Power Supply Unit (PSU)</b>	available separately
<b>Power rating</b>	5V 130 mA max (with USB connection)
<b>RF Power</b>	
	UWB: -41.3 dBm/Mhz (e.i.r.p. power spectral density) / 0dBm / 50MHz (peak e.i.r.p. power)
<b>Operational RF Bands</b>	
	UWB: Nominal frequency 6489.6MHz (Bw=499.2MHz)



## 10 SAFE SPACER SOFTWARE – QUICK START GUIDE

The **Safe Spacer software** for Mac/PC allows you to control Safe Spacer settings and access contact tracing information. The convenient interface gives you essential data at a glance, so you can ensure employees are respecting social distancing and easily adjust the device settings.

When opening the app for the first time, you will be asked to fill out a simple form with your personal information and set a password to protect contact tracing data.

PLEASE NOTE: remember to store your password safely, if you lose it you will no longer be able to access the contact tracing data.

Click “Done” to complete the process.

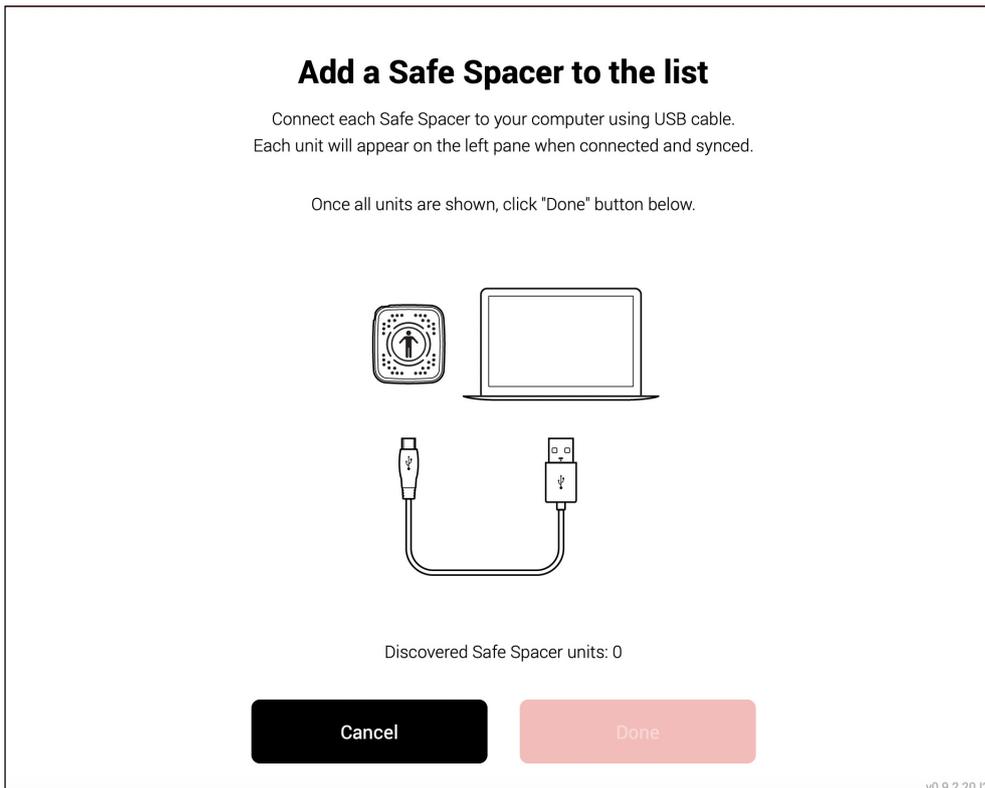
The Safe Spacer software interface is divided into several sections:

- **Top Bar:** use it to navigate through the sections of the software. Click on the different icons to access to the main Safe Spacer pane, the device settings, and the user menu, which includes the Global Settings menu and the Export Interactions option.
- **Safe Spacer pane:** use this pane to monitor your devices, the interactions between devices, and to look at the 3 charts graphically showing the device’s status history.
- **Device Settings pane:** from here you can easily change the settings for each device individually, or for all of them simultaneously.

## 10.1 ADD A NEW SAFE SPACER

To add a new device to the device list, proceed as follow:

- Plug one or more Safe-Spacer to your Mac or PC via USB.
- From the Safe Spacer pane, click on the + icon positioned at the top-left corner of the interface, a simple wizard will appear.
- Wait for the device to be discovered. When the device is discovered click “Done”, the Safe Spacer will be added to the Device List on the left of the Safe Spacer pane.
- Repeat the procedure each time you need to add a new device.



Via the Safe Space software, you can choose whether to set your device as a contact tracing device or as a proximity alarm. If you use it as a contact tracer, the application will store the logs, otherwise it will just work as a proximity alarm with sound, light and vibration alerts.

To set your device as a contact tracer or proximity alarm, flag the corresponding option in the global settings menu (see the global settings paragraph for more information).



## 10.2 SAFE SPACER PANE

The Safe Spacer pane lets you manage all your device at a glance. It is divided into 3 tabs:

Serial Number	Firmware Version	Sync Date	Status
0001121	FW 2.3.0	Sync: 1 May 2021 3:18am	At risk (red dot)
0001122	FW 2.3.0	Sync: 5 May 2021 11:52pm	At risk (red dot)
0001123	FW 2.3.0	Sync: 5 May 2021 11:58pm	At risk (red dot)
0001129	FW 2.3.0	Sync: 5 May 2021 8:34pm	At risk (red dot)
0001131	FW 2.3.0	Sync: 1 May 2021 3:18am	At risk (red dot)
0001136	FW 2.3.0	Sync: 1 May 2021 3:18am	At risk (red dot)
0001137	FW 2.3.0	Sync: 1 May 2021 3:18am	At risk (red dot)
Enclosure 1	000114B FW 2.4.0	Sync: 5 May 2021 11:49pm	At risk (red dot)

**Device List:** On the left, the device list shows you all the registered devices. Each device displays a serial number, firmware version, last sync date and status icons. The status icons tell if a device is compliant (green icon), non-compliant (yellow icon) or at risk (red icon). “Compliant” means the device is respecting the default security distance of 2 meters (6.6 feet), “non-compliant” means the device crossed the threshold of 2 meters and it is not in a safe area anymore, while “at risk” means the device is in a risk position, closer than 1.2 meters (3.9 feet). It is also possible to filter the device list “by status” or simply use the sorting options to re-arrange the list. In addition, if you want to flash the synced devices to make them recognizable, just click on the blinking icon positioned on top of the device list.

**Device labeling:** Double-click on a device from the list in order to add a label on it. Type the name you want to rename the device with and click OK to confirm. The label is now displayed in the device list.

PLEASE NOTE: A device label has a maximum limit of 30 characters.

Insert a label for unit 00013A2:

OK Cancel

**Charts:** On top of the Safe Spacer pane, 3 charts display the Compliant, Non-Compliant and At-Risk devices on a graphic timeline. The time scale of the charts is based on the last 14 days.

On top of each chart, the number of compliant, non-compliant and at-risk devices is shown.





**Interaction Pane:** On the device list, click on a device and the Interaction Pane will appear at the center of the interface. From here you can see a summarized list of interactions between the selected device and all the other registered devices. You can set the arrangement of the list by:

“Interactions with”, “Last interaction”, “Number of interactions”, “Minimum Distance” and “Interaction Time”.

If you want to display a list of all the single interactions between devices, move the slider located at the top right above the table of interactions on the ALL position. Now the table displays all the single interactions between devices.

Interactions					Summary	All
Interactions with	▲	Last Interaction	Number of Interactions	Minimum Distance	Interactions Duration	
00014AD		Wed Oct 21 15:53:23 2020	1	1 cm	56 secs	



## 10.3 REMOVE DEVICE AND INTERACTIONS

From the device pane, one or more devices can be removed. Select one or more devices from the list, click on the three-dot icon and select the “Delete” option. The deleted devices will remain in the list but will be greyed out. To restore the deleted devices, click on the three-dot icon and select the “Restore” option.

The screenshot shows the Safe Spacer interface. On the left is the 'Safe Spacer (24)' device list with status indicators for Compliant, Non-Compliant, and At risk. The main area is divided into 'Overview' and 'Interactions' panes. The Overview pane contains three line graphs: 'Compliant: 3', 'Non-compliant: 0', and 'At risk: 21'. The Interactions pane shows a table of device interactions.

Interactions with	Last Interaction	Number of Interactions	Minimum Distance	Interactions Duration
00010FB	Thu Apr 29 15:13:44 2021	1	17 cm	35 secs
0001122	Thu Apr 29 15:13:44 2021	1	22 cm	35 secs
0001123	Thu Apr 29 15:13:44 2021	1	18 cm	35 secs
0001129	Thu Apr 29 15:13:44 2021	1	17 cm	35 secs
0001131	Thu Apr 29 15:13:43 2021	1	0 cm	36 secs
0001132	Thu Apr 29 15:13:44 2021	1	0 cm	35 secs
0001136	Thu Apr 29 15:13:44 2021	1	37 cm	35 secs
0001137	Thu Apr 29 15:13:44 2021	1	0 cm	35 secs

From the interactions pane, “All Contacts” interactions can be manually removed. Select one or more interactions from the list, right-click and select the “Delete” option.

NOTE: Interactions cannot be removed in the “Summary” tab.

This screenshot shows the 'Interactions' pane with the 'All' tab selected. A right-click context menu is open over the first row, showing a 'Delete' option. The table columns are 'Interaction with', 'Interaction Time', 'Distance', and 'Interaction Duration'.

Interaction with	Interaction Time	Distance	Interaction Duration
0001131	Apr 29 15:13:45 2021	5 cm	33 secs
00011AD	Thu Apr 29 15:13:44 2021	26 cm	34 secs
00011AF	Thu Apr 29 15:13:44 2021	34 cm	35 secs
0001121	Thu Apr 29 15:13:44 2021	17 cm	35 secs
00011CC	Thu Apr 29 15:13:44 2021	8 cm	36 secs
Enclosure 1	Thu Apr 29 15:13:44 2021	18 cm	36 secs
0001137	Thu Apr 29 15:13:44 2021	2 cm	36 secs
00010FB	Thu Apr 29 15:13:44 2021	0 cm	36 secs
Enclosure 2	Thu Apr 29 15:13:44 2021	12 cm	26 secs



## 10.4 DEVICE SETTINGS

From the top bar, click on the settings icon to access the settings panel. Now select one or more devices from the device list (multiple selection: command + click on macOS and ctrl + click on Windows) to display the settings.

**Distance:** You can use the slider to set “Warning” and “Danger” status on your device. Move the slider to set a distance range for each status. By default, the “Warning” status is set to 2 meters (6.6 feet) and the “Danger” status is set to 1.2 meters (3.9 feet). From the Global Settings menu, you can set the unit of measure (meters or feet) you want to display for the distance settings.

**Alert:** Set the vibration, sound and light for the Warning and Danger status

**Firmware:** Click on the “Browse” button to upload a firmware update file and proceed to update firmware on the devices

Always click “Apply” in order to complete the edit of the settings.

PLEASE NOTE: New settings will be applied the next time the device(s) is synchronized.

PLEASE NOTE: Alert settings cannot be applied to multiple devices simultaneously.

The screenshot shows a settings interface with three main sections: Distance, Alert, and Firmware. The Distance section features a horizontal slider between two human icons, with a yellow marker at 6.6 labeled 'Warning' and a red marker at 3.9 labeled 'Danger'. The Alert section is divided into two rows, one for 'Warning' (yellow icon) and one for 'Danger' (red icon). Each row has three columns of toggle switches for 'Vibration', 'Sound', and 'Light'. The Firmware section includes a 'Browse...' button, a text input field with the placeholder 'Select a valid Safe Spacer firmware package from disk', a greyed-out progress bar, and an 'Update' button. An 'Apply' button is located in the top right corner of the settings panel. The version number 'v0.9.2.20J20' is visible in the bottom right corner.



## 10.5 GLOBAL SETTINGS

Access the global settings by clicking on the user menu, positioned at the right-corner of the top bar. In this menu, the following options are available:

- **Unit:** Set the unit of measure you want to display in the Safe Spacer and S-Bridge settings.
- **Contact Tracing:** flag this option to enable or disable contact tracing. When the option is enabled, the devices will store the logs. When contact tracing is disabled, the devices will just act as proximity alarms and will not store the logs.
- **Remember Password:** flag this option to enable or disable the password saving feature. When enabled, the password will be remembered and no longer required at startup.
- **Minimize on Startup:** If the “Remember Password” option is enabled you can choose to startup your Safe Spacer application in the system tray, otherwise this option will be grayed out. Flag “Yes” to start the application as minimized in system tray. Flag “No” to normally start the application in window mode.
- **Database Archive:** Flag “Yes” to create a backup file for the interactions older than 30 days. Flag “No” if you want interactions older than 30 days to be deleted.

## 10.6 EXPORT DATA

From the User menu (top right of the screen), select “Export Interactions”, in order to export data to one or more .csv documents. Select “Single File” in order to export all interaction logs into a single .csv document, select “Multiple Files” in order to create multiple .csv files each containing data from individual Safe Spacer devices. When choosing the “Multiple Files” option, it is possible to select how to rename the Interaction Log files: by Serial Number, Label, or both.

Interaction logs will now be exported to the “Documents/Safe Spacer” folder within the sub-folder “Exported Data”.

**PLEASE NOTE:** All the previous existing .csv files contained in the Exported Data folder will be deleted. If you want to save this data, remember to move the files to another folder before exporting the new data.



## 10.7 SCHEDULED EXPORT

From the User menu (top right of the screen), select “Scheduled Export” in order to schedule an automatic export of the interactions on a monthly or daily basis.

When selecting the Monthly option, the app will automatically export the file on the first day of the month at 0.00 AM. If the app isn't running, the file will be exported the first time the app is opened. When selecting the Daily option, the app will automatically export the file each day at 0.00 AM. If the app isn't running, the file will be exported the first time the app is opened.

**Export Dir:** Select a path for the export file.

**Launch Script:** Use this option providing the full path of the command to be executed. The command will be invoked with an additional argument that specifies the full path of the contacts log file that was just exported. You can use the additional argument to open the contacts log and perform custom operations on the file.

The screenshot shows a dialog box titled "Scheduled Export". At the top, there are two radio buttons: "Enable" (selected) and "Disable". To the right of these buttons is the text "App will export automatically interactions data logs." Below this is a section titled "Export Frequency" with two radio buttons: "Daily" and "Monthly" (selected). To the right of these buttons is the text "App will export interactions monthly". Below this is a section titled "Export Dir" with a text input field containing the path "/Users/erik/Documents/Safe Spacer/Scheduled Export" and a "Browse..." button. Below this is a section titled "Launch Script (optional)" with an empty text input field and a "Browse..." button. At the bottom of the dialog box are two buttons: "OK" (red) and "Cancel" (black).



## 10.8 EDIT USER DATA

From the user menu, select “Edit User Data” to manually edit the user’s information. When completed, click “Save” to proceed.

## 10.9 FACTORY RESET

From the user menu, select “Hardware Maintenance -> Factory Reset” in order to reset all the connected Safe Spacer units to their initial factory settings. This procedure also works on those units that are not directly managed by the Safe Spacer application. Click “Start” to begin the process, upon completion of the progress bar, a status message indicating the result of the procedure will appear in the dialog window.

PLEASE NOTE: The procedure may take a few minutes, please be patient and don’t disconnect any devices during the process.

## 10.10 BULK FIRMWARE UPDATE

From the user menu, select “Hardware Maintenance -> Bulk Firmware Update” in order to update the firmware on all connected units simultaneously. This procedure works also on those units that are not directly managed by the Safe Spacer application. Click “Start” to begin the process, upon completion of the progress bar, a status message indicating the result of the procedure will appear in the dialog window.

PLEASE NOTE: The procedure may take a few minutes, please be patient and don’t disconnect any devices during the process.

## 10.11 UNIT RECOVERY

From the user menu, select “Hardware Maintenance -> Unit Recovery” in order to start a procedure which will attempt to recover units that may have failed during a firmware update and are displaying a steady white/purple light. This procedure also works on those units that are not directly managed by the Safe Spacer application. Click “Start” to begin the process. Upon completion of the process, a status message indicating the result of the procedure will appear in the dialog window.

PLEASE NOTE: The procedure may take up to 10 minutes, please be patient and don’t disconnect any devices during the process.



## 10.12 PAIR A NEW S-BRIDGE

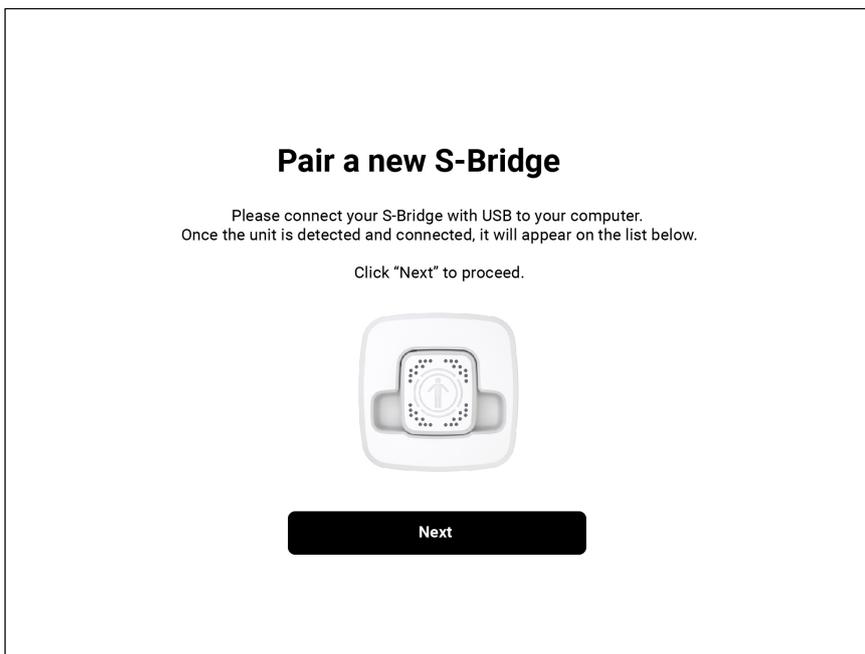
With the **S-Bridge** access point, Safe Spacer data can be collected wirelessly from the field, using the UWB network, and stored into any Mac/PC computer with a USB port running the Safe Spacer software.

PLEASE NOTE: Safe Spacer software supports only a single S-Bridge setup. Small facilities can place the S-Bridge at their entry/exit point and use the Mac/PC Safe Spacer software for data monitoring.

To pair a new S-Bridge proceed as follows:

Click on the S-Bridge button located in the top bar of the interface. A simple setup wizard will appear.

Now, plug your S-Bridge with USB to your computer and, once it is detected, click NEXT to proceed.



Now the S-Bridge is paired and ready to collect data from Safe Spacer devices. Place the S-Bridge in the desired position and adjust the detection range using the slider.

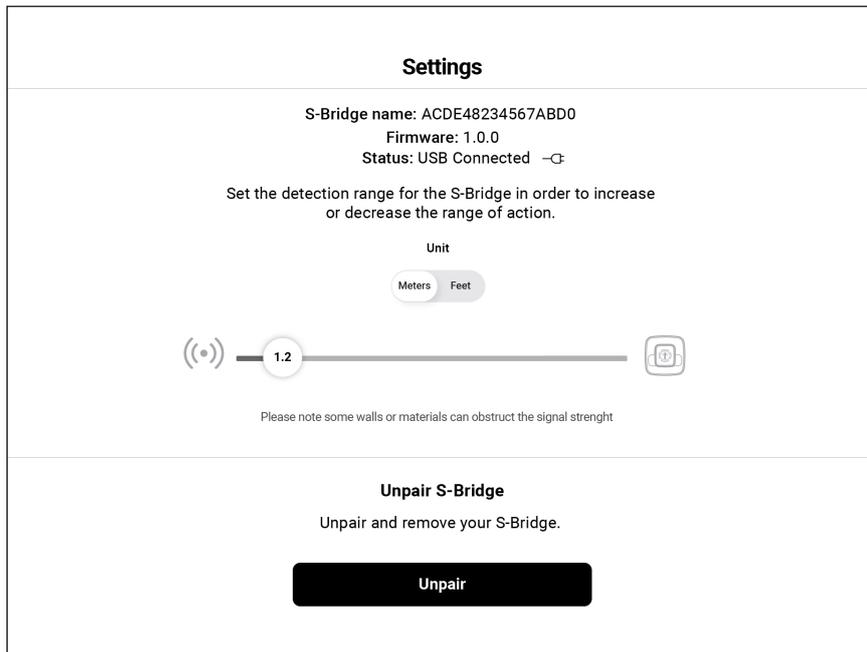
PLEASE NOTE: Some walls or materials can obstruct the signal strength.

Click "Done" to complete the setup process.



## 10.13 S-BRIDGE SETTINGS

Once completed the S-Bridge setup wizard, the S-Bridge Settings tab will be displayed.



**S-Bridge Name:** Shows the S-Bridge unit name.

**Firmware:** Shows the S-Bridge unit firmware version.

**Status:** Shows the S-Bridge unit connecting status.

**Distance:** Use the slider to set the detection range for the S-Bridge and increase or decrease the range of action. From the Global Settings menu, you can set the unit of measure (meters or feet) you want to display for the distance settings.

**Unpair:** Click this button to “Unpair” your S-Bridge unit from the app.



## 10.14 QUIT THE SAFE SPACER APPLICATION

When you close the Safe Spacer software, the application will continue to work in the background to allow the S-Bridge to communicate with the Safe Spacer devices. Therefore, the application will remain accessible via the tray icon in the system menu. To permanently close the Safe Spacer software, right-click on the tray icon and select Quit.





## REGULATORY

### Safe Spacer

P/N: IK141-107 (contains P/N:IK141-100)

P/N: IK141-112 (contains P/N:IK141-108)

Model Nr.: IK141



Contains FCC ID: 2AQ33-DWM1001

Contains IC: 23794-DWM1001

#### FCC statement

This device complies with Part 15.107 and 15.109 Class B of the FCC Rules CFR47: October 2010.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.