VOKKERO®
RADIO COMMUNICATION SYSTEM

VOKKERO STAFF
VOK-STAFF-US/CAN/AUS/NZ

User Guide Version 2.0

211952

VOKKERO

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PRÉAMBULE / PREAMBLE

- Ce guide décrit les fonctionnalités des produits VOK-STAFF-US/CAN/AUS/NZ , ses options et ses accessoires.
- This guide describes the functionality of the VOK-STAFF-US/CAN/AUS/NZ products, options and accessories.
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INFORMATIONS

Document Information	
Title	VOK-STAFF-US/CAN/AUS/NZ
Subtitle	FCC
Document type	User Guide
Version	Version 2.0

This document applies to the following products:

Nom	Référence
VOK-STAFF-US/CAN/AUS/NZ	VO8438CAG/VO8438CAH

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TECHNICAL SUPPORT

Website

Our website contains a lot of useful information: information on modules and wireless modems, user guides, and configuration software and technical documents which can be accessed 24 hours a day.

If you have technical problems or cannot find the required information in the provided documents, contact our Technical Support on our website: www.vokkerousa.com. This ensures that your request will be processed as soon as possible.

Helpful Information when Contacting Technical Support

When contacting Technical Support, please have the following information ready:

- Product type (for example Guardian)
- Firmware version (for example V1.0)
- A clear description of your question or the problem
- A short description of the application

FCC STATEMENT

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

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Specific Absorption Rate (SAR) information:

This VOK-STAFF-US/CAN/AUS/NZ meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. FCC RF Exposure Information and Statement the SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: VOK-STAFF-US/CAN/AUS/NZ has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the phone kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the phone. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

ISED STATEMENT

English:This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES--3 (B)/NMB--3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.
L'exploitation est soumise aux deux conditions suivantes :
(1) Cet appareil ne doit pas provoquer d'interférences.
(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

L'appareil numérique du ciem conforme canadien peut -3 (b) / nmb -3 (b).

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé..

Specific Absorption Rate (SAR) information:

This VOK-STAFF-US/CAN/AUS/NZ meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. ISED RF Exposure Information and Statement the SAR limit of Canada (ISED) is 1.6 W/kg averaged over one gram of tissue. Device types: Tablet has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the VOK-STAFF-US/CAN/AUS/NZ kept 0mm from the body. To maintain compliance with ISED RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the Tablet. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with ISED RF exposure requirements, and should be avoided.

Informations sur le débit d'absorption spécifique (DAS):

Ce VOK-STAFF-US/CAN/AUS/NZ répond aux exigences du gouvernement en matière d'exposition aux ondes radio. Les lignes directrices sont basées sur des normes élaborées par des organisations scientifiques indépendantes à travers une évaluation périodique et approfondie des études scientifiques. Les normes comprennent une marge de sécurité substantielle conçue pour assurer la sécurité de toutes les personnes, quel que soit leur âge ou leur état de santé. Information et déclaration d'ISDE sur l'exposition aux RF la limite DAS du Canada (ISDE) est de 1,6 W / kg en moyenne sur un gramme de tissu. Types d'appareils: la tablette a également été testée par rapport à cette limite SAR. Cet appareil a été testé pour des opérations typiques portées sur le corps avec le dos de la VOK-STAFF-US/CAN/AUS/NZ gardé à 0 mm du corps. Pour maintenir la conformité avec les exigences d'exposition RF d'ISDE, utilisez des accessoires qui maintiennent une distance de séparation de 0 mm entre le corps de l'utilisateur et l'arrière de la tablette. L'utilisation de clips de ceinture, d'étuis et d'accessoires similaires ne doit pas contenir de composants métalliques dans son assemblage. L'utilisation d'accessoires qui ne satisfont pas à ces exigences peut ne pas être conforme aux exigences d'exposition aux RF d'ISDE et doit être évitée.

Identification :

- FCC ID: 2AU6N-VO8438CA
- IC ID: 25704-VO8438CA

Product reference: USA/CANADA: VO8438CAG/VO8438CAH

Authorised representative in Canada
ZEAT SPORTS
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USAGE RESTRICTIONS: THE USE OF VOK-STAFF-US/CAN/AUS/NZ

IMPORTANT: Before using the device, please observe the legal provisions in force in your country.

Table ID Frequencies:

Channel	Frequency (MHz)
Home 4	916.75
Home 5	917.80
Home 6	921.00
Home 7	921.80
Home 8	922.60
Away 4	923.40
Away 5	925.00
Away 6	925.80
Away 7	926.60
Away 8	927.40

For the use of GUARDIAN outside FCC zone, please contact customer support: «https://vogoassist.freshdesk.com/fr/support/home».
In the VOKKERO HELPDESK space, log in with your identifiers (or sign up to create your account) to access the support.

ENVIRONMENTAL RECOMMENDATIONS

All superfluous packaging materials have been eliminated. We have done everything possible to make it easy to separate the packaging into three types of materials: cardboard (box), expanded polystyrene (filler material) and polyethylene (packets, foam protective sheets). Your device is composed of materials that can be recycled and reused if it is dismantled by a specialist company. Please observe local regulations concerning the manner in which waste packaging material, used batteries and your obsolete equipment are disposed of.

WARNINGS

Valid for :
VOK-STAFF-US/CAN/AUS/NZ : VO8438CAG/VO8438CAH
VOK-GUARD-CHARGER/CONFIGURATOR: VO8118AA
VOK-GUARD-EXTENSION : VO8139AA

Read the instructions in the manual.

The safety of this product is only guaranteed when it is used in accordance with its purpose.
Maintenance should only be carried out by qualified persons.

Please note: Do not install the equipment close to a heat source or in damp conditions.

Please note: When the equipment is open, do not carry out any operations other than the ones set out in this document.

Please note: Do not open the product as there is a risk of electrical shock.

Please note: For your own safety, you must ensure that the equipment is switched off before carrying out any work on it.

Please note: For your own safety, the power supply circuit must be SELV (Safety Extra Low Voltage) and must be from limited power sources.

The product must be equipped with a switching mechanism so that the power can be cut. This must be close to the equipment. Any electrical connection of the product must be equipped with a protection device against voltage spikes and short-circuits.

USAGE OBLIGATIONS

- Before using the system, check that the power supply voltage shown in the user manual corresponds to your supply. If it doesn't, please consult your supplier.
- Place the device against a flat, firm and stable surface.
- The device must be installed in a location that is sufficiently ventilated so that there is no risk of internal heating and it must not be covered with objects such as newspapers, cloths, curtains, etc.
- The device must never be exposed to heat sources such as heating equipment.
- Do not place the device close to objects with naked flames such as lit candles, blowtorches, etc.
- The device must not be exposed to harsh chemical agents or solvents likely to damage the plastic or corrode the metal parts.
- To fulfill RF exposure limit, the device VO8438CAH must be attached to belt with the belt-clip provided by Vokkero.

DISPOSAL OF WASTE BY USERS IN PRIVATE HOUSEHOLDS

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste by taking it to a collection point designated for the recycling of electrical and electronic appliances. Separate collection and recycling of your waste at the time of disposal will contribute to conserving natural resources and guarantee recycling that respects the environment and human health. For further information concerning your nearest recycling centre, please contact your nearest local authority/town hall offices, your household waste collection company or the shop where you bought the product

Warning: If the charger is used with any other batteries or products whatsoever, there is a risk of an explosion. After use, the batteries must be disposed of at an appropriate recycling centre. They must not be thrown away to degrade in the environment. When batteries are replaced, the device must be corectly implemented.

This symbol on the devode or its packaging means the use of a DC voltage.

INTRODUCTION (VO8438CAG VERSION)

The operations described below allow you to rapidly and easily implement your VOKKERO Guardian communication system.

All the operations described are valid for all the VOKKERO® Guardian products listed below:
VOK-STAFF-US/CAN/AUS/NZ: VO8438CAG
VOK-GUARD-CHARGER/CONFIGURATOR : VO8118AA
VOK-GUARD-EXTENSION : VO8139AA

Note:
Your product reference is given on the label on the back of the terminal housing.

The VOKKERO Guardian system is ready-to-use; it comprises the following three main elements:

Terminals
Configurator/Charger
(Optional) Charger extension (1 to 4 maximum)

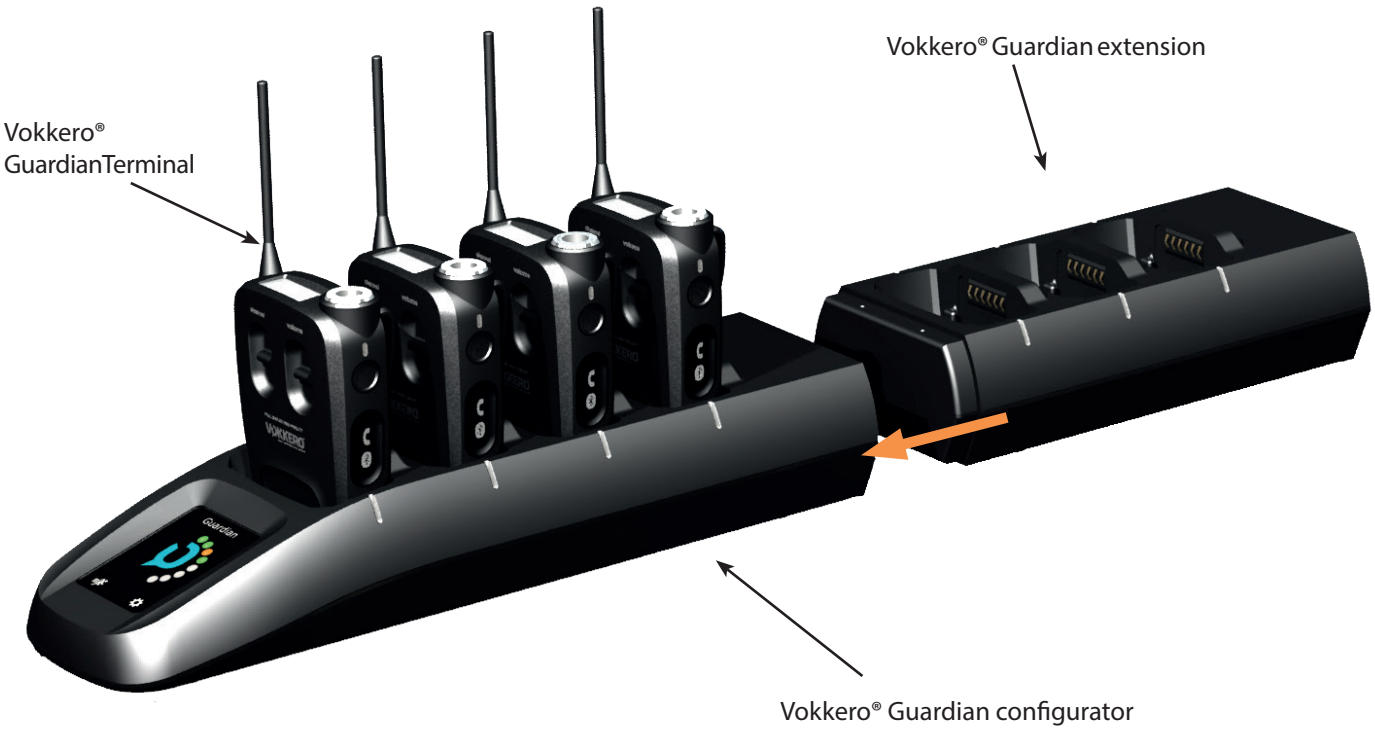
All the operating settings of the VOKKERO Guardian system are managed by the configurator which gives access to the Settings menu via a touchscreen. The configurator must be connected to the power unit (otherwise it will not work) and up to 4 extensions can be associated with the configurator.

1. SYSTEM INSTALLATION PROCEDURE

- Connect the power unit to the end charger (if several are connected in a row).
- Connect the power unit to the mains.
- Connect the VOKKERO Guardian terminals as shown below.

Note 1: the order and position of the terminals on the charger(s) are irrelevant.
Note 2: if the purpose of the operation is solely to charge terminals, then the configurator is not required.

The first configurator slot (i.e., closest to the LCD) is of importance to the system-configuration process.



1.1. General Technical Specifications
1.2.

General Specifications	Value
Supply voltage	3.7V nominal
Maximum consumption	800mA (emission)
Terminal power supply	Lithium battery
Battery life	11 hours (normal usage) 7 hours (permanent communication)
Operating temperature	-20°C / +55°C
Dimensions	110 x 70 x 27mm
Weight	190g (including battery)

Specifications for VOK-GUARD-CHARGER/CONFIGURATOR : VO8118AA VOK-GUARD-EXTENSION : VO8139AA	Value
AC/DC Power Converter (standard)	100 to 240V 12VDC/5A - 50/60Hz (maximum of 10 terminals charging)
AC/DC power converter (extended system)	100 to 240V, 12 VDC/6.67A - 50/60Hz (more than 10 terminals charging)
Operating temperature	-5°C / +40°C
Dimensions Configurator/Charger	337 x 95 x 58mm
Dimension extension	216 x 95 58mm
Weight configurator/charger	470g
Weight extension	310g

2. STARTING UP THE TERMINAL

Before starting your terminal, make sure that it has been properly charged using a compatible charger.

- Press the On/Off button to turn on the terminal.

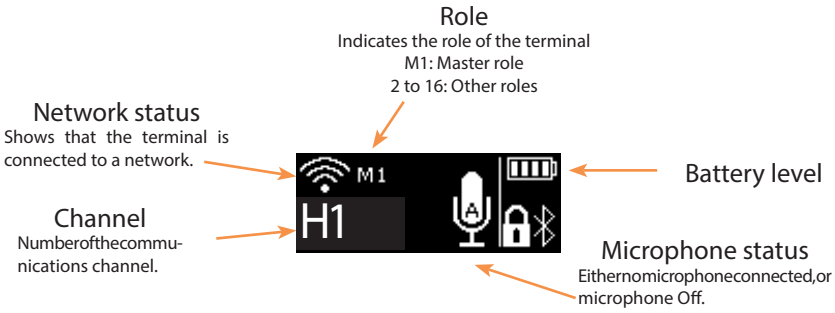
The LCD screen should turn on and display the VOKKERO® logo. The LED above the On/off button should also light up permanently.

Next, the Welcome Screen displays, followed by the product name. By default, the product name "Guardian" displays. This text can however be customized in the configurator for each terminal (refer to §4.3.1).

- To turn off the terminal, press and hold the "on/off" button.

Note 1: all settings, including volume, remain unchanged when the terminal is turned off (i.e., will be identical when the terminal is turned again).

2.1. Screen Icons (by Default)



2.2. Setting up Audio Conference

You can set up a VOKKERO audio conference. The first step consists in attributing the Master role (M1) to a single terminal. This role is used to synchronize the other terminals.

The Master role (M1) is automatically attributed to the terminal located in the first slot of the configurator during a quick configuration (see §4.2).

See Quick start guide for more info.

2.3. Connecting a headset

Several types of headsets from the VOKKERO range can be connected to VOKKERO Guardian. The headset is automati-cally detected by the terminal when the headset is plugged in.

2.3.1. Plugging in a headset

Plug the headset into the slot at the top of the product, beside the LCD.

Line up the 2 red marks of the product and the connector.

Note:
Do not force the headset; it should connect easily; if this is not the case, check the headset to make sure it isn't damaged.

2.3.2. Removing the headset

To remove the headset

- Firstly, pull on the ring of the headset to release the connector switch.
- Then remove the headset connector

Attention

Do not attempt to remove the headset by pulling the cable.

Attention

Do not turn the connector

Use the "Micro" icon on the terminal screen to make sure that the headset is properly connected. After disconnection of a headset, it is necessary to wait a few moments for the micro icon to be crossed out before reconnecting a headset.

No accessory connected

Accessory connected

2.4. Terminal operation

2.4.1. Volume

Adjust the terminal volume with the Volume trigger button.
- Push the trigger upwards to increase the volume
- Push the trigger downwards to decrease the volume

When you increase or decrease the volume, you will hear a beep.
When you reach the maximum or minimum volume setting, you will hear 2 consecutive beeps.
The volume setting is also indicated on the terminal LCD.
The sound level can be adjusted between 0 and 10. When level 8 is reached, an alert message is displayed on the terminal screen («Warning: high volume. Consult User Guide»).
To avoid possible hearing damage, do not listen at high volume for a long time.

2.4.2. Channel (mode activated by default)

Adjust the terminal's communication channel with the Channel trigger button.
- Push the trigger upwards to increase the channel number
- Push the trigger downwards to decrease the channel number

The channels available on the terminal depend on the terminal version; for more information, refer to the channels table (document annex).

When you change channel, you will hear a beep.
When you reach the top or bottom channel, you will hear 2 consecutive beeps.
The selected channel is also indicated on the terminal LCD.

2.4.3. Group (accessible by configuration)

To change groups, you must also use the Channel trigger button:
- Push the trigger up to increase the group number
- Push the trigger down to lower the group number

Group 0 links all available groups.
Thus, the terminals in groups 1 to 3 can only hear and speak with the members of their group. Group 0 terminals (Gr0) can hear and speak with all groups.

When you change groups, a beep in the accessory's loudspeaker signals that the terminal has taken the change of group into account.
A double beep signals that you have reached the upper or lower limit.

Check the number of the selected group on the terminal's LCD.

Even in Group mode, you can access several parameters directly on the terminal, via the Multi-parameter menu, without going through the configurator again.

2.4.4. Multi-parameter Menu

In Group Mode, pressing and holding the Channel button for 2 seconds opens the multi-parameter menu for changing the PTT mode, Channels and Stadium ambiance.
Changing the menu is done by pressing the Channel trigger and changing the parameters by the Volume trigger. The last parameter displayed on the LCD is automatically validated after 5 seconds of inactivity.

PTT Mode:
You can change the action of the Micro button directly on the terminal. For more details on how the various options work, see paragraph 3.3.1, section 2.

- PTT (Push-to-talk)
- Latch
- Latch + PTT
- PTM (Push-to-mute)

Channel:
You have the possibility to change the frequency directly on your terminal.
Teams are invited to choose « Home » if playing at home. Or « Away » if playing away.
Note: The available frequencies depend on the selected channel table. If you want to switch from DUAL to SINGLE mode, you have to go through the configurator again.
For more details on difference frequencies, see paragraph 3.3.2, section A.

Stadium ambiance:
You can adjust the noise filter according to the environment.
- Noisy: allows clear communication in very noisy environments thanks to Voice Detection
- Quiet: allows also using Voice detection for noise filtering but with a lower threshold than the Noisy mode.

2.4.5. "Micro" button (Latch mode by default)

Adjust the Microphone setting using the Micro button.
The microphone can be configured in various modes using the configurator; for full information on available modes, refer to §3.3.1.

Check the microphone status on the terminal LCD:

- if there is a Struck-through micro icon, then the microphone is Off and you can be heard on the network.
- if there is no Struck-through micro icon, then the microphone is On and you cannot be heard on the network.

2.4.6. Call button

Use the Call button to send an alert to all the terminals on the network; concretely, the terminal gives off a beep for 1 second and vibrates for 4 seconds and the LED above the On/Off button blinks.

The terminal screen displays the "Call" icon, as well as the name of the terminal.
All the other terminals connected to the network behave in the same way, namely, beep for 1 second, vibration for 4 seconds, LED blinking, and the calling terminal displays.

Note: if the "GROUP" function is active, then the notification is only sent to that group to which the calling terminal be-longs.

2.4.7. Locking the terminal

You can lock the terminal by pressing and holding the Channel button for 5 seconds.
The locked functions are as follows:

- Channel
- Push To Talk
- Bluetooth (option)

By contrast, even if the terminal is locked, the following functions are made available:

- Volume
- Call
- On/Off

Note: in Group mode, the Product Lock parameter is always available with a long press of 5 seconds on the central «Channel» button.
The 'Locked' status of the terminal will display on the LCD.

2.4.8. Side Tone

By default, the side tone is disabled. To activate the side tone, press and hold the centre of the volume knob.

The product then displays the side tone menu. To choose among the following options toggle the trigger:

- Side tone disabled (OFF)
- Side tone volume 1, 2 or 3

The system automatically exits the menu after a few seconds.
We do not recommend using the side tone (especially at high-level) if you use a Push-to-Talk other than the one you can set up and run on the terminal (if, for example, you use a Push-to-Talk from an accessory headset).

2.4.9. Battery

The terminal's button can be removed and recharged on the charger.

Removing the battery
Remove the battery from the terminal by pressing the locking mechanism at the top of the terminal and then slide the battery downwards.

Inserting the battery
Slide in the battery at the back of the product; keep pushing until you hear the locking clip.

2.4.10. Belt clip

Removing the belt clip
The terminal comes with a belt clip. However, you can remove this; simply take out the battery, pull on the locking mechanism in the center of the belt clip, and then slide it downwards.

Attaching the belt clip
Slide the belt clip into the slot; keep pushing until you hear the locking clip.

NOTE : the terminal must always be positioned at the belt.

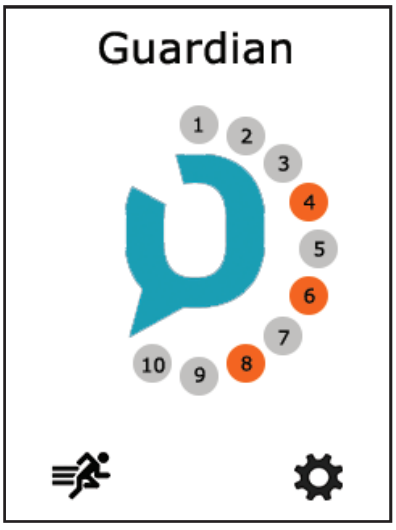
3. DESCRIPTION OF THE CONFIGURATOR

The configurator does not have an On-Off switch. To turn it on, the configurator must be connected to the power unit provided with the VOKKERO Guardian. The configurator has a USB port for updates. The configurator screen is a high-resistance touchscreen.
The configurator can also be used to download products.

Immediately upon starting up the system, the configurator displays the VOKKERO logo, with the firmware version of the configurator, followed by the Home Screen.

3.1. Home Screen

The screen indicates the number of terminals that the configurator can hold (each number corresponds to one terminal). The configurator uses a color code to indicate the terminal's charging status or the battery's charging status,



- Empty space
- Terminal in charge
- Terminal loaded
- Terminal battery fault
- Battery in charge
- Battery loaded
- Battery in error

using the following code:
If red icon, then the terminals placed on the configurator have not been correctly configured to work together;

A "WI" icon displays when you connect the WI interface on the configurator.

This system is optional.

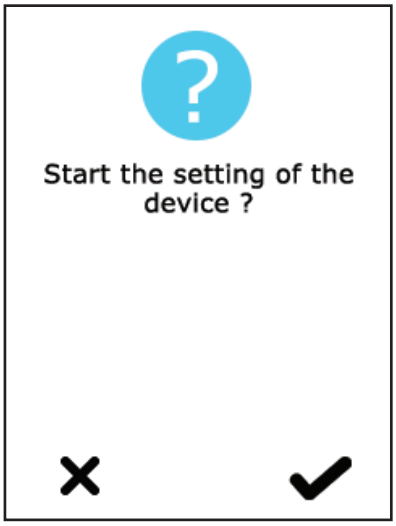
You can rapidly configure the entire system by selecting the icon.

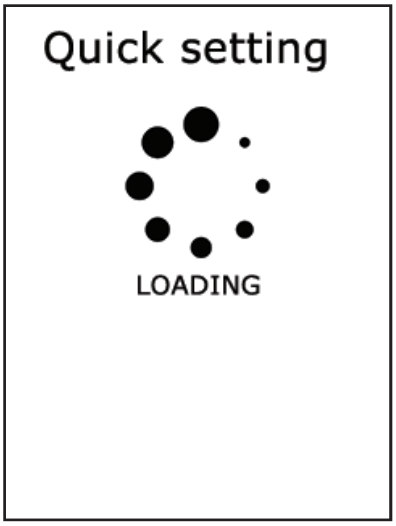
Alternatively, you can fine-tune the system config-uration by using the settings icon.

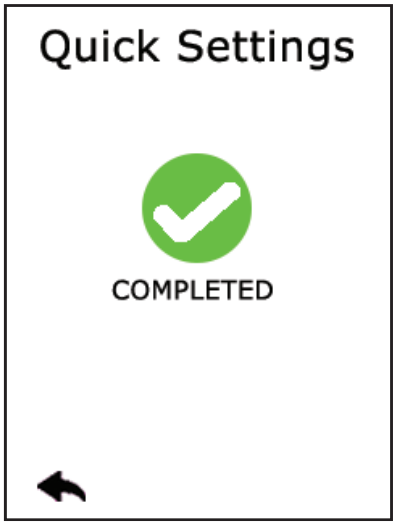
You can also proceed directly to the configuration of the terminal by selecting the desired terminal number.

3.2. Quick configuration

The terminals are delivered pre-configured and ready-to-use. With Quick Configuration, you can rapidly reconfigure all system devices; with this option, any devices on the configurator/charger will be automatically reconfigured in one single action, and will once again be ready-to-use.







The screen displays the channel that you have configured (by default, channel 1, namely 917.800 MHz, displays).

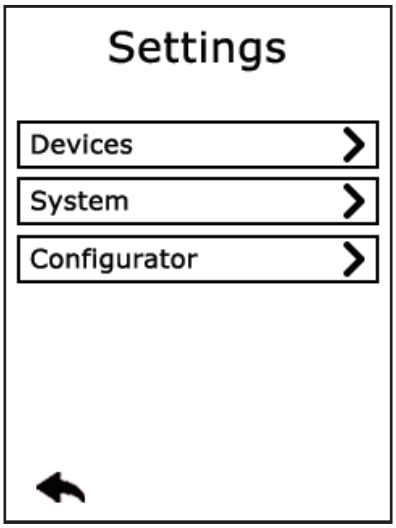
You can choose another channel from the list of channels available for your terminal; do this using the Channel setting. This channel is the terminal start-up channel; the other channels are available using the Channel button on the terminal.

Start the configuration by selecting "GO" on the screen, and then validating the confirmation screen; the configuration starts.

If the configuration completes successfully, the indication "COMPLETED" displays. Alternatively, the indication "ERROR" displays if a problem is encountered.

To return to the Home Screen, use the left arrow.

3.3. Settings



This menu enables a more detailed configuration of the system in order to configure the terminals, the system or the configurator.

In "Devices", you can change the name of your terminal as well as the operation of the "Call" button, the «Alarm» mode, set the Voice gate preset or reset your terminals to the factory configuration.

In "Systems", you can change the system language, change the radio operation of the products, activate the multi-master mode, update the terminal and the configurator's software, and change the encryption mode.

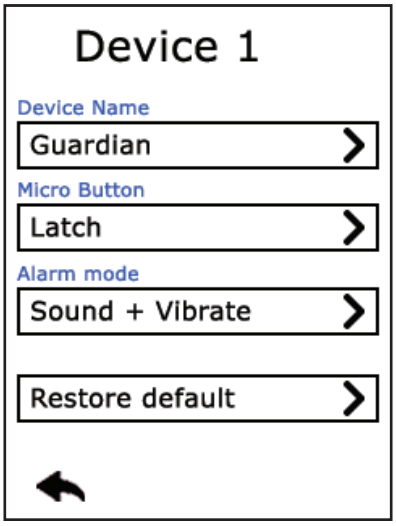
In Configurator, you can calibrate the touchscreen and lock the access to the configurator.

The details for each element are given below.

3.3.1. Configuring the terminal

This screen indicates the terminals present on the configurator. The charge status as well as the name of each terminal displays. The terminals display in their order of presence on the configurator, going from the closest (position 1) to the furthest away.

To modify a product, select the product row; this displays all the settings available for the selected product.



<u>The available settings are as follows:</u>

- Terminal name (1): product name displayed on the LCD
- Microphone action (2): defines the behavior of the audio button in the middle of the terminal
- Alarm mode (3): defines the operating mode of the alarm
- Stadium ambiance (4) : provides access to the voice detector presets
- Advanced Settings (5): Provides access to the following options: Assignment buttons, Alarm button, Expert mode
- Version (6)
- Factory Setting (7): allows to reset the products to factory settings

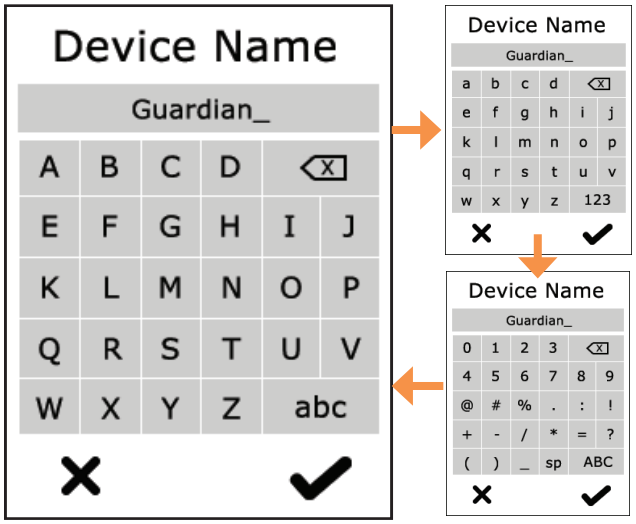
1 - Terminal name

To change the name of the terminal, you can use the available keyboard. Three screens/keyboards are available to de-fine the product name. To switch between screens/keyboards, use the button on the bottom right-hand side.

"abc" to switch to the lowercase words screen
"123" to switch to the numbers and symbols screen
"ABC" to switch to the uppercase words screen

Use ⌫ to delete the most recently entered character.

To validate, select ✔ on the bottom right-hand side.



2 - Microphone action

The central button can have a number of operating modes:

- Latch: press to switch the microphone from Microphone On to Micro-phone Off; the microphone status displays on the terminal LCD

- Push to talk: the microphone is On for as long as the button is pushed and held.
To note: it is implemented a latency of a second at the closing of the micro-phone after release of the button. This avoids any audio interruptions even with unwanted release of the pressing of the button during a conversation.

- Latch /Push-To-Talk: combination of Latch and Push-to-Talk functions
A short press switches from Microphone On to Microphone Off.
If the microphone is Off, press and hold this button to switch to Micro-phone On.

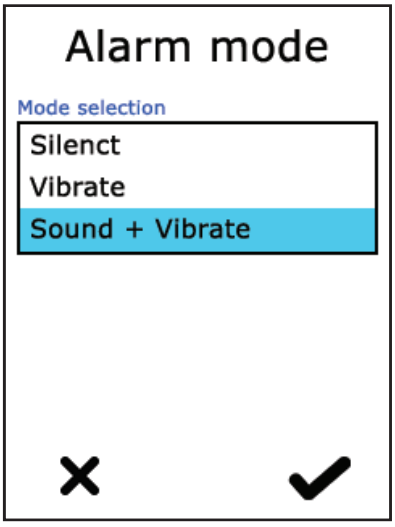
- Push to mute: The microphone is Off for as long as the button is pushed and held

Make your selection and validate.

3 - Alarm Mode

Whenever the product receives a call from another terminal or from a paired Bluetooth device, it can notify the user depending on the configured mode.
The modes available are:

- Silent: visual notification on the screen
- Vibration: the terminal vibrates + visual notification on LCD
- Audio + Vibration: combined action: sound beep + vibration + visual notification on LCD



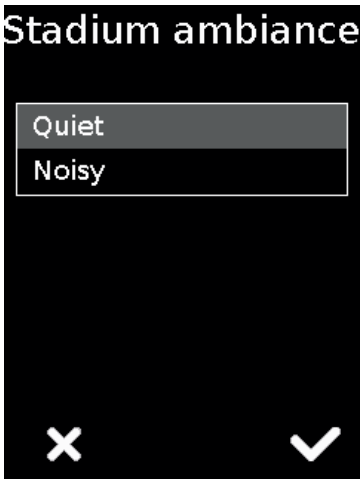
4 - Stadium ambiance

This feature allows you to adapt the level of voice detection to the noisy environments.

Noisy mode allows clear communication in very noisy environments thanks to Voice Detection.

Quiet mode allows the terminal to recognize whispers and low tones.

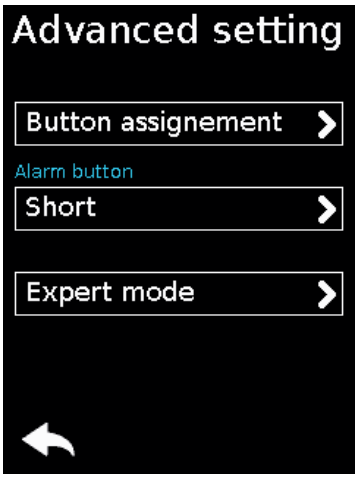
Important note: Quiet mode only works in a quiet environment (it should not be activated in a noisy environment).



5- Advanced settings

Provides access to the following options:

- Assign buttons: to change the functions of the buttons on the terminal
- Alarm button: to change the press mode of the alarm button
- Expert mode: Users cannot access this mode as it has settings that can disrupt the smooth-running of your VOKKERO® Guardian system.



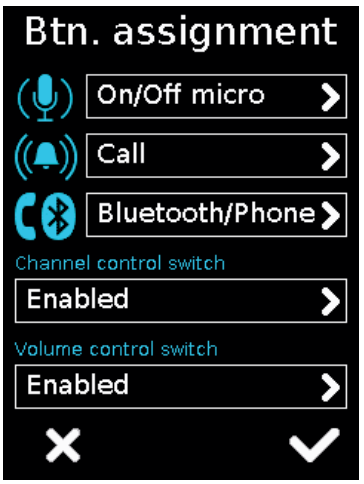
5.1 Assignment buttons

Reset the functions of the terminal buttons or disable certain functions.

The microphone On / Off + Call + Bluetooth buttons can be switched or deactivated. Click the option shown by the pictogram on the button of your choice and reassign the chosen function to it.

The Channel and Volume Selector triggers can only be turned on or off.

To reset the original functions, reload the terminal's default settings via the «Factory Setup» menu.



5.2 Alarm button

Allows you to change the way you press the «Call» button to activate the alarm, regardless of the selected alarm mode (silencer, vibrator or sound + vibrator).

The possible ways of activating the alarm are:
- Short: 1 short press on the Call button triggers the alarm
- Long: 1 long press on the Call button triggers the alarm
- Long + Acknowledgment: 1 long press on the Call button triggers a loop alarm. To stop the alarm, press again continuously on the same button from one of the network terminals.

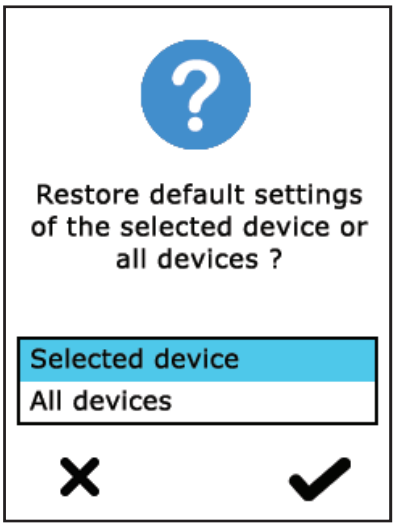
6 - Version

Shows you the factory version of the terminal used.

7 - Factory settings

This menu returns, to the factory setting, a product or all products connected to the configurator.
After selecting and validating your choice, the configurator lets you know if the return to factory settings completed successfully.

To finalize the operation, select the arrow on the bottom left-hand side to return to the configuration screen of the terminals.

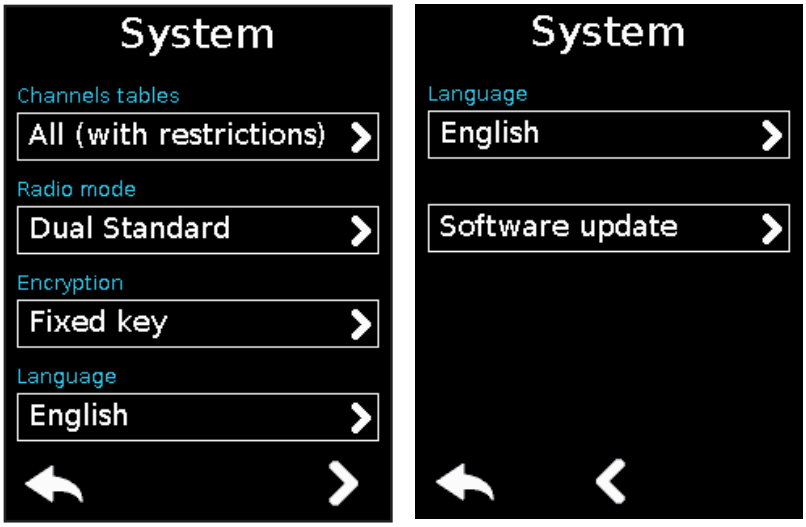


3.3.2. System configuration

In this screen you can see all the settings related to the system configuration. The settings in this menu apply to all the terminals present on the configurator.

The available settings are:
- Channels Tables: Allows you to select the product's operating channel table
- Radio mode: allows to activate the group mode or to switch to single or DUAL frequency
- Encryption: allows you to choose the encryption operating-mode
- Language: allows you to select the display language of the configurator
- Software update: allows you to update the software version of the terminals and configurator

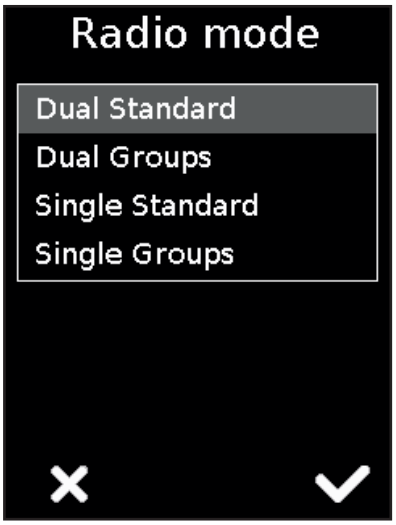
The settings are displayed over several pages. To browse the pages, select the left and right arrows at the bottom of the screen.



1 - Channels Tables

Use this setting to select a predefined table of channels so as to be able to use the terminal. By default, the terminals are configured without any channel restrictions (i.e., ALL selected); this means that all the channels can be used while making sure to correctlyrespect the use case of each country in which the product is used.

2 - Radio Mode

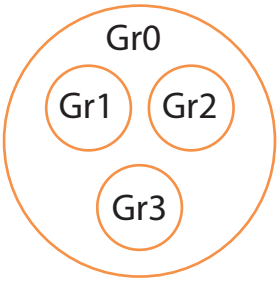


Use this setting to activate and deactivate the Group mode and choose the preset frequency mode.
Teams are invited to choose « Home » if playing at home. Or « Away » if playing away.

By default, standard channel tables (Single or DUAL) are Home 1/2 and Away 1/2. You can activate access to others frequencies with the System menu.

DUAL frequency:
By selecting the «DUAL» mode, the system will be configured to operate in dual frequency channel mode.
This means that the terminals send their radio frames to other terminals on 2 separate frequencies (so that if one frequency is interfered, the terminals receive exactly the same radio frames on the second frequency). With the «DUAL» mode, the «Quick config.» provides access to Home 1, Home 2, Away 1, and Away 2.

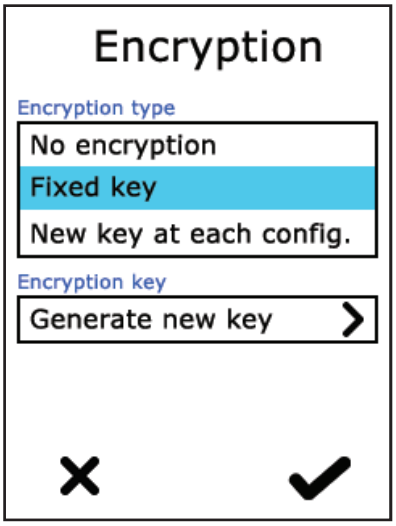
SINGLE frequency:
By selecting the «SINGLE» mode, the system will be configured to operate on single frequency channel mode.
This means that only one frequency is used by all terminals to send radio frames. With the «SINGLE» channel mode, the «Quick config.» provides access to Home 4, Home 5, Home 6, Home 7, Home 8, Away 4, Away 5, Away 6, Away 7, Away 8.



We advice you to communicate with the other team and the referee crew to ensure that everyone configure their communication systems at best according to recommendations above.

Group mode:
This parameter allows the Group mode to be associated with the DUAL or SINGLE channels.
If activated, the terminal works in Group mode; use the Channel button (front of terminal) to switch between groups.
When first used, all the products are configured in the same group (group 0).
After first use, a group must be selected individually on each terminal; this choice will be retained.

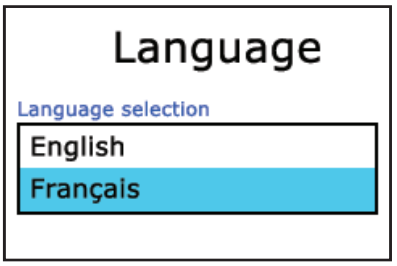
Details of groups:
Group 0 (Gr0): you can hear and talk with all groups.
Group 1 to 3 : you can only hear and talk with members of that group.



2 - Encryption

The encryption key is used to make communications within a given system secure. Only the devices using the same encryption key are authorized to communicate on the network. Several options are available:

- No encryption: the communications are not secure; all the Guardian devices can join the network, even if they have no encryption key.
- Single key: the system uses one single encryption key; this key can be occasionally changed by the user by selecting "New Key"
- New Key with each configuration: the configurator generates a new key with each new successfully performed con-figuration.



3 - Language

You can change the system's display language by means of the "Language" setting.
Choose the language you want and validate with ✔ on the bottom right-hand side.

4 - Updating software

Used to update the software versions of the terminals and / or the configurator.

4.1 - Updating terminals

To update terminals you have to use a USB key.
Contact your vendor to obtain the most recent software version.

The USB key used must be < or = 4Go.

On the USB key:
- Copy the update software to the root
- The files mustn't be in a folder
- No others files or folder have to be on the USB key

To know the version currently installed in the terminal:
Menu > System > Software > Device update:
The version currently installed in the terminal appear on the display. (Screen No. 1).

To configure a new software version on the terminals:
- Once the USB key ready, insere it into the dedicated USB port, situated on the left located on the left side of the configurator. (Screen No. 2)
- Once the USB key connected, the available software version is displayed. (Screen No. 3)

(If the USB key is empty or involves wrongs files, you will read on the display: «Update file missing from the USB key»)
- Click «GO» to validate. (Screen No. 3)
- Then, click ✔ to launch the installation. (Screen No. 4)

1

2

3

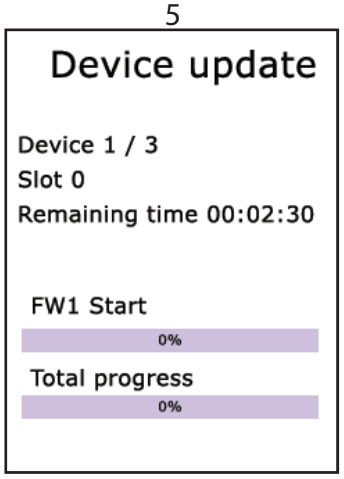
4

- The update of the terminals is launched (Screen No. 5).

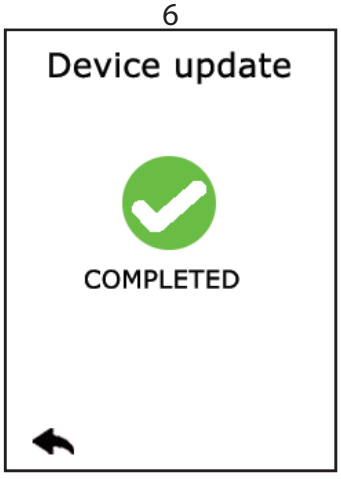
- The update is finished (Screen No. 6).

Note: All terminals on the Configurator will be updated regardless of their location on the Configurator.

5



6



4.2 - Updating the configurator

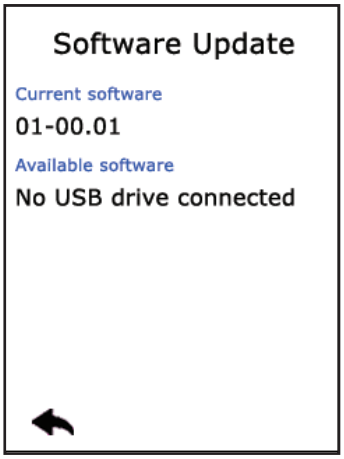
To update the configurator you have to use a USB key.
Contact your vendor to obtain the most recent software version.

The USB key used must be < or = 4Go.

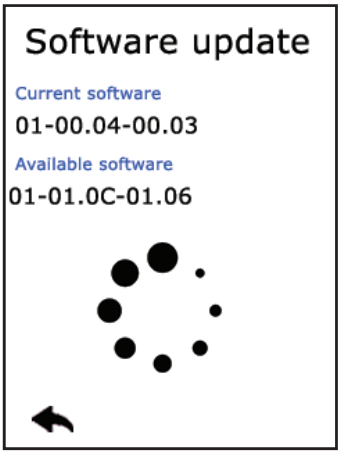
On the USB key:
- Copy the update software to the root
- The files mustn't be in a folder
- No others files or folder have to be on the USB key

To know the version currently installed in the configurator:

1



2



3

4

Menu > Configurator > Software update:
The version currently installed in the configurator appear on the display. (Screen No. 1).

To configure a new software version on the configurator:

- Once the USB key ready, insere it into the dedicated USB port, situated on the left located on the left side of the configurator. (Screen No. 2)

- Once the USB key connected, the available software version is displayed. (Screen No. 3)

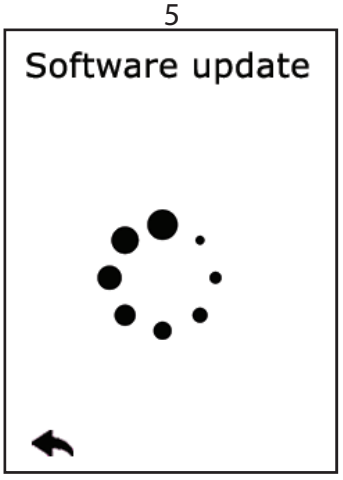
(If the USB key is empty or involves wrongs files, you will read on the display: «Update file missing from the USB key»)

- Click «GO» to validate. (Screen No. 3)
- Then, click ✔ to launch the installation. (Screen No. 4)

- The update of the configurator is launched (Screen No. 5).

- The update is finished (Screen No. 6).

5



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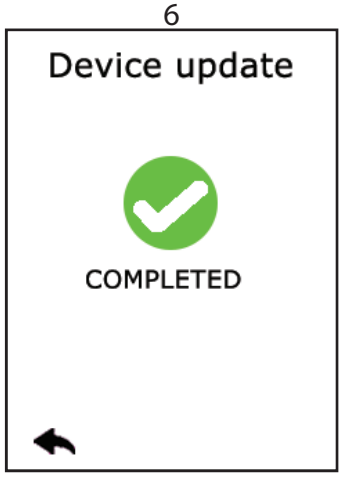
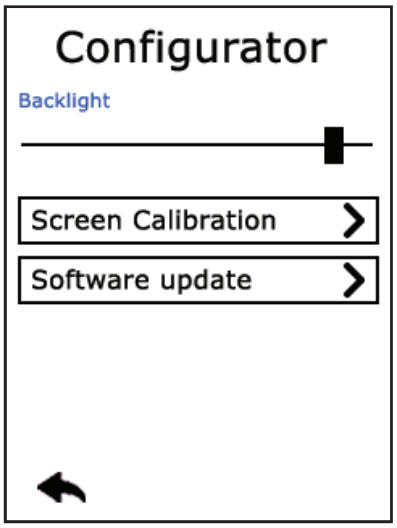


3.3.3. Configuring the configurator



Use this setting to adjust the screen.
In this area, you can adjust the screen lighting, calibrate the touchscreen, and lock the configurator.

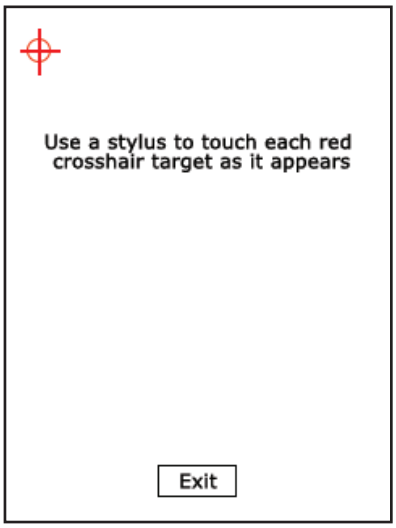
1 - Adjusting the screen lighting

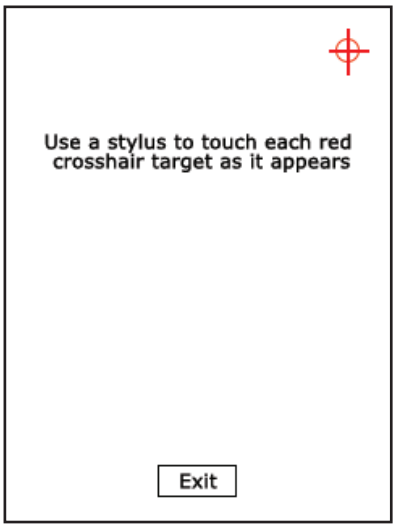
Slide the cursor from left and right to decrease and increase, respectively, screen lighting.

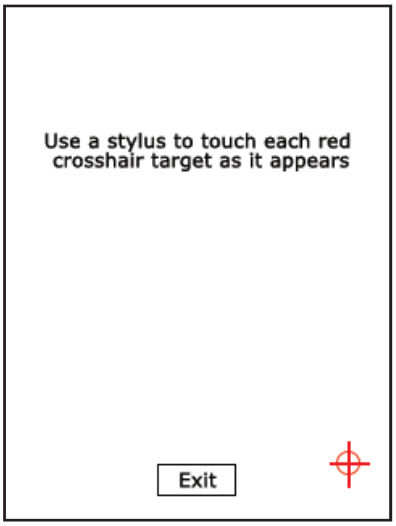
2 - Calibrating the touchscreen

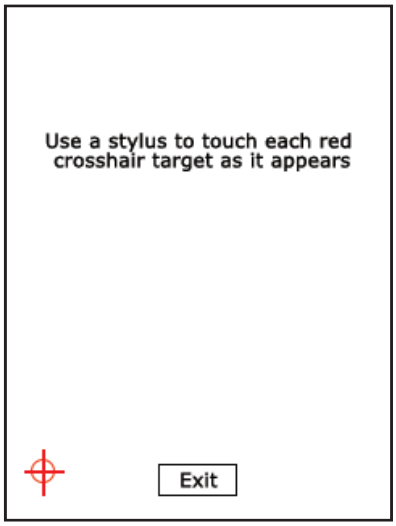
The configurator touchscreen is already calibrated in the factory; you can however calibrate your own touchscreen if you note a significant change in screen detection.

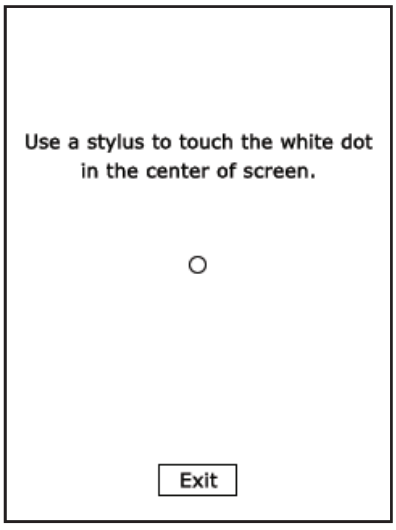
To do this, carry out the following 5 steps:
Select each angle with the yellow pointer, then select the circle at the middle of the screen.
The calibration is complete.







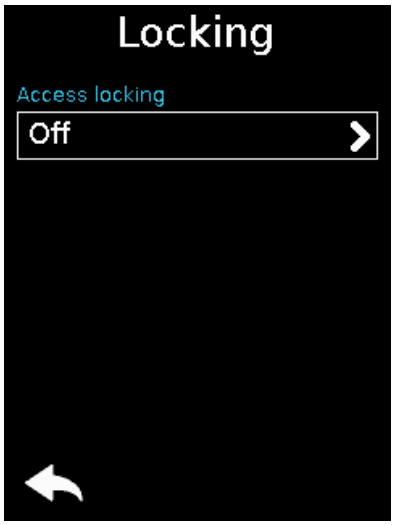


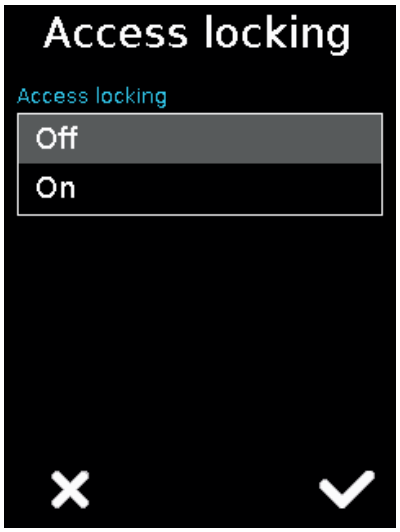


3 - Locking

Allows you to block access to the configurator using a PIN code.
In Lock mode, only the «Quick Config" option is available. You can only access the other settings after validating the PIN code.
Note: The PIN code consists of 1 to 6 digits

Once the lock has been activated, the PIN code can be modified or deactivated (see screen below showing the options available in the «Lock» menu, once the lock has been activated).





3.3.4. Resetting the configurator functions

In order to put the configurator back in factory mode (and thus cancel all the configuration changes made previously), do the following:

1. Unplug the configurator
2. Reconnect the configurator
3. When the configurator is switched on, on the first home screen, consisting of the «VOKKERO®» logo: press the 2nd «O" of VOKKERO®.
4. Then you can restore the default settings of the configurato
5. Confirm
6. The configurator parameters have been reset.

INTRODUCTION (VO8438CAH VERSION)

The operations described below allow you to rapidly and easily implement your GUARDIAN C2C communication system.

All the operations described are valid for all the VOK-STAFF-US/CAN/AUS/NZ terminals listed below:

- VO8438CAH

Note: Your product reference is given on the label on the back of the terminal housing.

The GUARDIAN C2C system is ready-to-use; it includes the following three main elements:

- Terminals
- Configurator/Charger
- Headsets
- (Optional) Charger extension (1 to 4 maximum)

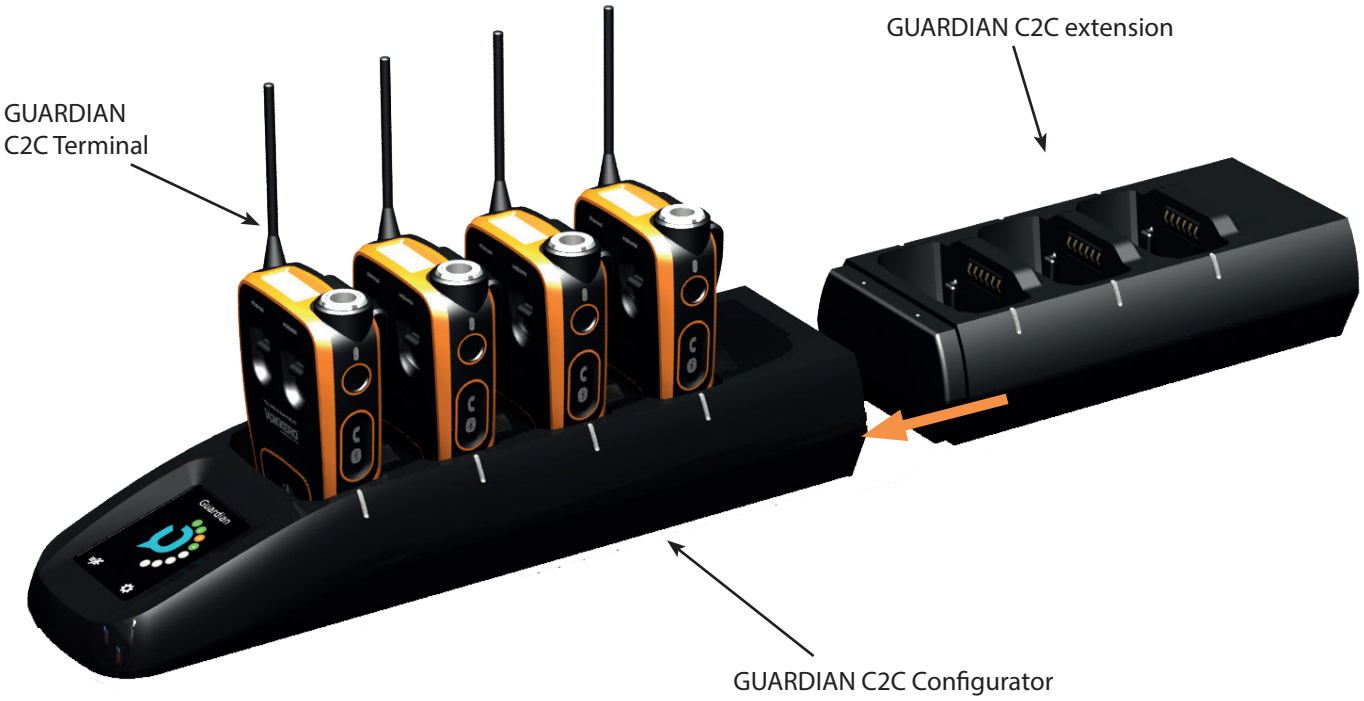
All the operating settings of the GUARDIAN C2C system are managed by the configurator which gives access to the Settings menu via a touchscreen. The configurator must be connected to the power unit (otherwise it will not work) and up to 4 extensions can be associated with the configurator.

1. SYSTEM INSTALLATION PROCEDURE

- Connect the power unit to the end charger (if several are connected in a row).
- Connect the power unit to the mains.
- Connect the GUARDIAN C2C terminals as shown below.

Note 1: the terminal in first postion on the charger is IMPORTANT (slot #1 = HEAD COACH).
Note 2: if the purpose of the operation is solely to charge terminals, then the configurator is not required.

The first configurator slot (i.e., closest to the LCD) is of importance to the system-configuration process; for more details, refer to paragraph 4.2.



2. SYSTEM DESCRIPTION

2.1. Functioning and communication capabilities

GUARDIAN C2C system enables clear communication between Football coaches and specific communication interfaces during game phases and situations.
Advanced Game management is possible thanks to the 3 available modes of communication which are mastered by the HEAD Coach.

ROLES

3 Roles are available:

- HEAD COACH
- OFFENSIVE COACH
- DEFENSIVE COACH

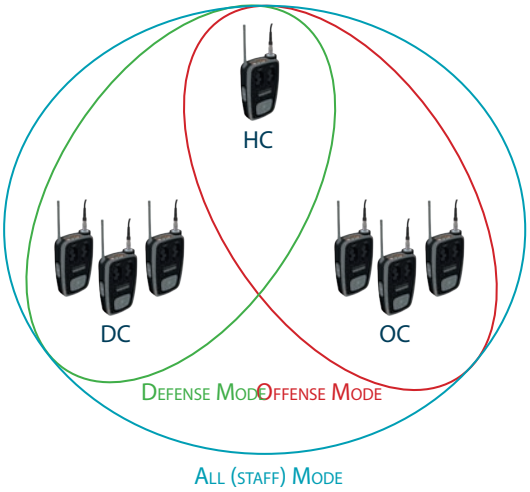
There is only one HEAD COACH.
Up to 16 Offensive Coaches and Defensive Coaches in total can be added in the communication.
The setting of the needed Roles is done by the user accordingly to its needs.

If the Role Change option is activated, Offensive Coaches and Defensive Coaches can switch from a role to another.

COMMUNICATION MODES

3 modes are available:

- OFFENSE MODE: Offensive Coaches + HEAD Coach on one side (in communication together) and Defensive Coaches on the other side
- DEFENSE MODE: Defensive Coaches + HEAD Coach on one side and Offensive Coaches on the other side
- ALL STAFF MODE: Offensive Coaches + Defensive Coaches + HEAD Coach all in communication together



Only the HEAD COACH can change the communication mode for everyone by using the channel switch! Once he changes the communication mode, the name of the new mode is displayed on all the headsets of the coaches & then permanently displayed on every C2C terminals.
If a coach is not part of the current group of discussion, he can ALERT the HEAD Coach with a alarm/call button if he needs to communicate with him. The HEAD Coach will then be able to change the channel of discussion to the desired communication mode.

CHANNEL TABLES

Teams are invited to choose « Home » if playing at home. Or « Away » if playing away.
By default, standard channel tables are Home 1 and Away 1. You can activate access to others channels with the System menu.

US DUAL:
By selecting the «US DUAL» mode, the terminals send their radio frames to other terminals on 2 separate frequencies (so that if one frequency is interfered, the terminals receive exactly the same radio frames on the second frequency). With the «US DUAL» mode, the «Quick config.» provides access to Home 1, Home 2, Home 3, Away 1, Away 2 and Away 3.

US SINGLE:
By selecting the «US SINGLE» mode, only one frequency is used by all terminals to send radio frames. With the «US SINGLE» channel mode, the «Quick config.» provides access to Home 4, Home 5, Home 6, Home 7, Home 8, Away 4, Away 5, Away 6, Away 7, Away 8.

We advice you to communicate with the other team and the referee crew to ensure that everyone configure their communication systems at best according to recommendations above.

2.2. GUARDIAN C2C Terminal

2.2.1. Description of product interface

2.2.2. General characteristics

General Specifications	Value
Supply voltage	3.7V nominal
Maximum consumption	800mA (emission)
Terminal power supply	Lithium battery
Battery life	11 hours (normal usage) 7 hours (permanent communication) If Bluetooth option activated, then 10% drop in battery life
Operating temperature	-20°C / +55°C
Dimensions	110 x 70 x 27mm
Weight	190g (including battery)

2.3. GUARDIAN C2C Charger/Configurator

2.3.1. Description of product interface

2.3.2. General Technical Specifications

Specifications	Value
AC/DC Power Converter (standard)	100 to 240V 12VDC/5A - 50/60Hz (maximum of 10 terminals charging)
AC/DC power converter (extended system)	100 to 240V, 12 VDC/6.67A - 50/60Hz (more than 10 terminals charging)
Operating temperature	-5°C / +40°C
Dimensions Configurator/Charger	337 x 95 x 58mm
Dimension extension	216 x 95 58mm
Weight configurator/charger	470g
Weight extension	310g

3. STARTING UP THE TERMINAL

Before starting your terminal, make sure that it has been properly charged using a compatible charger.

- Press the On/Off button to turn on the terminal.

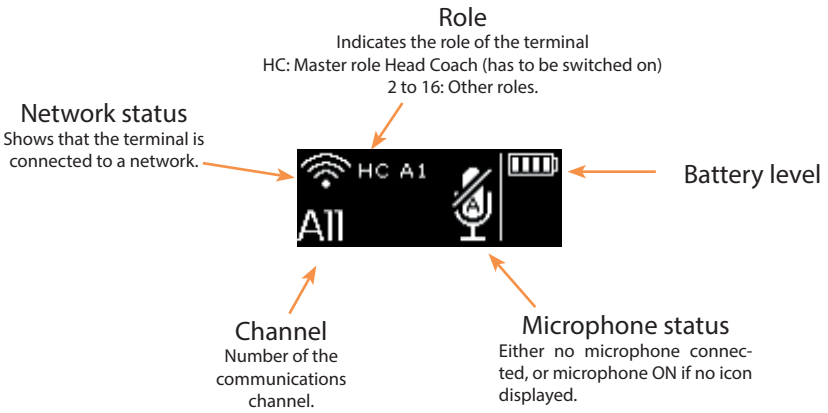
The LCD screen should turn on and display the VOKKERO® logo. The LED above the On/off button should also light up permanently.

Next, the Welcome Screen displays, followed by the product name. By default, the product name «Guardian» displays. This text can however be customized in the configurator for each terminal (refer to paragraph 4.3.1).

- To turn off the terminal, press and hold the «on/off» button.

Note: all settings, including volume, remain unchanged when the terminal is turned off (i.e., will be identical when the terminal is turned again).

3.1. Screen Icons (by Default)



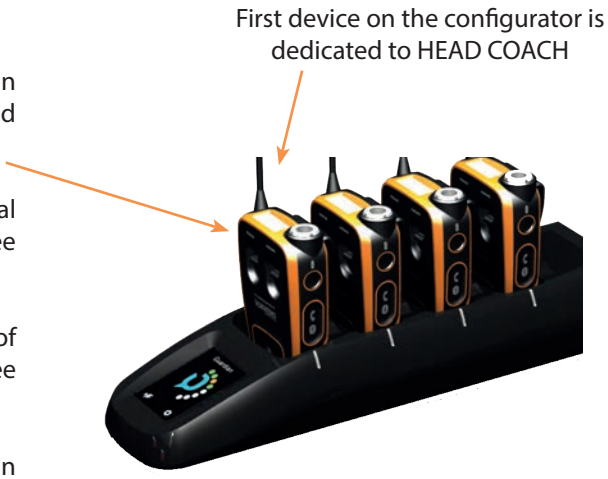
3.2. Setting up Audio Conference

You can set up a VOKKERO audio conference. The first step consists in attributing the HEAD COACH role (HC) to a single terminal. This role is used to synchronize the other terminals.

The HEAD COACH role (HC) is automatically attributed to the terminal located in the first slot of the configurator during a quick configuration (see paragraph 4.2).

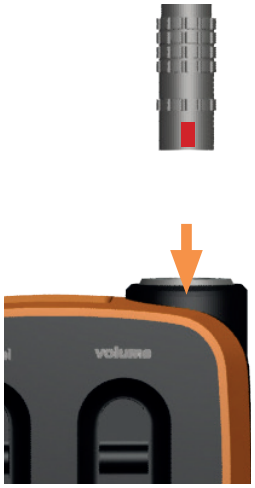
Then, during the Quick Configuration, you have to specify the number of OFFENSIVE coaches and DEFENSIVE coaches you want to configure (see paragraph 4.2 for complete procedure).

If you want to add other terminals to an existing audio conference chain without having to reposition all the terminals on the configurator, the first configurator slot must remain available.



3.3. Connecting a headset

Several types of headsets from the VOKKERO range can be connected to GUARDIAN C2C. The headset is automatically detected by the terminal when the headset is plugged in.



3.3.1. Plugging in a headset

Plug the headset into the slot at the top of the product, beside the LCD.
Line up the 2 red marks of the product and the connector

Note:
Do not force the headset; it should connect easily; if this is not the case, check the headset to make sure it isn't damaged.

3.3.2. Removing the headset

To remove the headset
- Firstly, pull on the ring of the headset to release the connector switch.
- Then remove the headset connector

Attention

Do not attempt to remove the headset by pulling the cable.

Attention

Do not turn the connector

Use the "Micro" icon on the terminal screen to make sure that the headset is properly connected. After disconnection of a headset, it is necessary to wait a few moments for the micro icon to be crossed out before reconnecting a headset.

No accessory connected

Accessory connected

3.4. Terminal operation

3.4.1. Volume

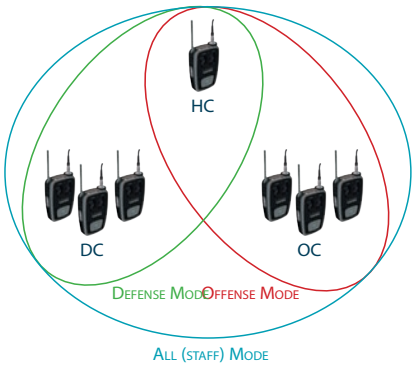
Adjust the terminal volume with the Volume trigger button.
- Push the trigger upwards to increase the volume
- Push the trigger downwards to decrease the volume

The volume can be adjusted in a range from 0 to 10

When you increase or decrease the volume, you will hear a beep.
When you reach the maximum or minimum volume setting, you will hear 2 consecutive beeps.

The volume setting is also indicated on the terminal LCD.

3.4.2. Channel (mode change)



<u>FOR HEAD COACH</u>

This Channel trigger knob is dedicated to Mode Change (ALL / OFFENSE MODE / DEFENSE MODE). Push the trigger upwards or downwards to change the communication mode.

Only the HEAD COACH can change the communication mode for everyone. Once he changes the communication mode, the name of the new mode is displayed on all the headsets of the coaches & then permanently displayed on every C2C terminals.

<u>FOR OFFENSIVE AND DEFENSIVE COACHES</u>

By default this button is not activated for standard OFFENSIVE OR DEFENSIVE coaches. If desired, OFFENSIVE and DEFENSIVE coaches can have the capability to switch from one role to the other (changing from DEFENSIVE coach to OFFENSIVE coach and in return) with pushing this Channel button.
For activating this option and full information on the available Role Change cabability, refer to paragraph 4.3.1.

3.4.3. «Micro» button (disabled by default)

Adjust the Microphone setting using the Micro button.
The microphone can be configured in various modes using the configurator; By default this button is not activated, for reactivating this button and full information on available modes, refer to §4.3.1.

Check the microphone status on the terminal LCD:

- if there is a Struck-through micro icon, then the microphone is Off and you cannot be heard on the network.
- if there is NO micro icon, then the microphone is On and you can be heard on the network.

3.4.4. Call button to Head Coach

Use the Call button to send an alert to the Head Coach; If you are not part of the current group of discussion, you can ALERT the HEAD COACH with a alarm/call button if you need to communicate with him. He will then be able to change the channel of discussion to the desired communication mode.

The terminal who emits the call as well as all the other terminals connected to the network will have LED blinking, display of the calling terminal and a voice synthesis specifying the name of the calling Role (Defense alert, Offense alert, HC alert).

3.4.5. Locking the terminal

You can lock the terminal by pressing the Channel button for 5 seconds.
The locked functions are as follows:

- Channel
- Push To Talk

By contrast, even if the terminal is locked, the following functions are still available:

- Volume
- Call
- On/Off

The 'Locked' status of the terminal will display on the LCD.

3.4.6. Side Tone

By default, the side tone is disabled.
To activate the side tone, press and hold the centre of the volume knob.

The product then displays the side tone menu. To choose among the following options toggle the trigger:

- Side tone disabled (OFF)
- Side tone volume 1, 2, 3

The system automatically exits the menu after a few seconds.
We do not recommend using the side tone (especially at high-level) if you use a Push-to-Talk other than the one you can set up and run on the terminal (if, for example, you use a Push-to-Talk from an accessory headset).

3.4.7. Multi-parameter Menu

Pressing and holding the Channel button for 2 seconds opens the multi-parameter menu for changing the PTT mode, Channels and Stadium ambience.
Changing the menu is done by pressing the Channel trigger and changing the parameters by the Volume trigger.
The last parameter displayed on the LCD is automatically validated after 5 seconds of inactivity.

PTT Mode:
You can change the action of the Micro button directly on the terminal. For more details on how the various options work, see paragraph 4.3.1, section B.

- PTT (Push-to-talk)
- Latch
- Latch + PTT
- PTM (Push-to-mute)

Channel:
You have the possibility to change the frequency directly on your terminal.
Note: The available frequencies depend on the selected channel table. If you want to switch from US DUAL to US SINGLE mode, you have to go through the configurator again.
For more details on difference frequencies, see paragraph 4.3.2, section A.

Stadium ambiance:
You can adjust the noise filter according to the environment.

- Noisy: allows clear communication in very noisy environments thanks to Voice Detection
- Quiet: allows also using Voice detection for noise filtering but with a lower threshold than the Noisy mode.

3.4.8. Battery

The terminal's button can be removed and recharged on the charger.

Removing the battery
Remove the battery from the terminal by pressing the locking mechanism at the top of the terminal and then slide the battery downwards.

Inserting the battery
Slide in the battery at the back of the product; keep pushing until you hear the locking clip.

3.4.9. Belt clip

Removing the belt clip
The terminal comes with a belt clip. However, you can remove this; simply take out the battery, pull on the locking mechanism in the center of the belt clip, and then slide it downwards.

Attaching the belt clip
Slide the belt clip into the slot; keep pushing until you hear the locking clip.

NOTE: the terminal must always be positioned at the belt.

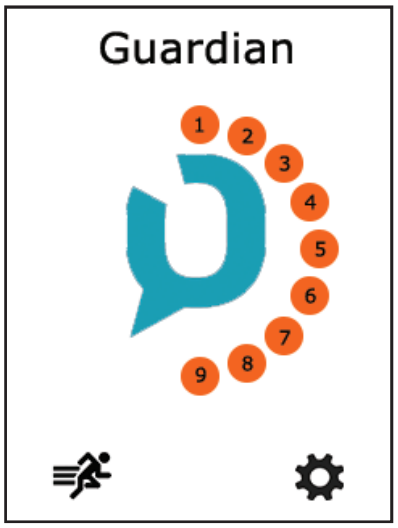
4. DESCRIPTION OF THE CONFIGURATOR

The configurator does not have an On-Off switch. To turn it on, the configurator must be connected to the power unit provided with the GUARDIAN C2C. The configurator has a USB port for updates. The configurator screen is a high-resistance touchscreen.

Immediately upon starting up the system, the configurator displays the VOKKERO logo, with the firmware version of the configurator, followed by the Home Screen.

4.1. Home Screen

The screen indicates the number of terminals that the configurator can hold (each number corresponds to one terminal). The configurator uses a color code to indicate the terminal's charging status or the battery's charging status, using the following code:



- 4 Empty space
- 4 Terminal in charge
- 4 Terminal loaded
- 4 Terminal battery fault
- 4 Battery in charge
- 4 Battery loaded
- 4 Battery in error

If red icon, then the terminals placed on the configurator have not been correctly configured to work together. Please try to position them again or contact our Technical Support.

A "WI" icon displays when you connect the WI interface on the configurator.

This system is optional.

You can rapidly configure the entire system by selecting the icon.

Alternatively, you can fine-tune the system configuration by using the settings icon.

You can also proceed directly to the configuration of the terminal by selecting the desired terminal number.

4.2. « Quick settings » menu

The terminals are delivered pre-configured and ready-to-use. With the Configuration («Quick Settings» menu), you can rapidly reconfigure all system terminals (devices) and pair them in communication;
With this option, any additional terminals (devices) on the configurator/charger will be automatically reconfigured in one single action, and will once again be ready-to-use.

If the configuration completes successfully, the indication "DONE" displays. Alternatively, the indication "ERROR" displays if a problem is encountered.

Choose your radio frequency channel table (Channel)! « Home » if you are playing at home. « Away » if you are playing away.

Select the number of Offensive Coaches terminals you want to have… Note: Offensive coaches start in slot #2 as slot #1 is dedicated to HEAD COACH.

Select the number of Defensive Coaches terminals you want to have…

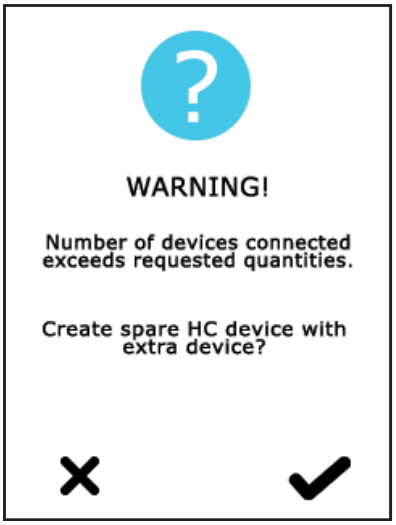
The number of Offensive Coaches you enter + the number of Defensive Coaches you enter + 1 HEAD COACH (in the slot #1) =
TOTAL number of C2C terminals put on the configurator and GO!

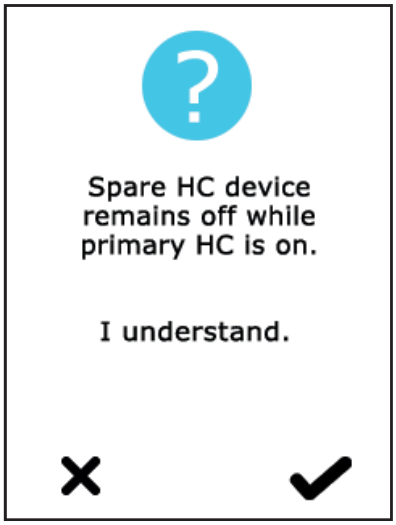
4.2.1. Set-up a spare terminal for Head Coach

In case the numbers you have entered for OFFENSE terminals and DEFENSE terminals to configure is inferior of one unit to number of terminals put on the configurator:
• The configurator asks whether you want to configure an extra HEAD COACH terminal for spare.
• Select YES if you are willing to have a spare for the HEAD COACH terminal

Please note that this terminal must remain switched OFF all time while primary HEAD COACH terminal is ON to ensure proper functionning of the system.

In case the numbers you have entered for OFFENSE terminals and DEFENSE terminals to configure is inferior of MORE than one unit to number of terminals put on the configurator:
• The configurator invites you to adjust OFFENSE and DEFENSE quantities to enter.



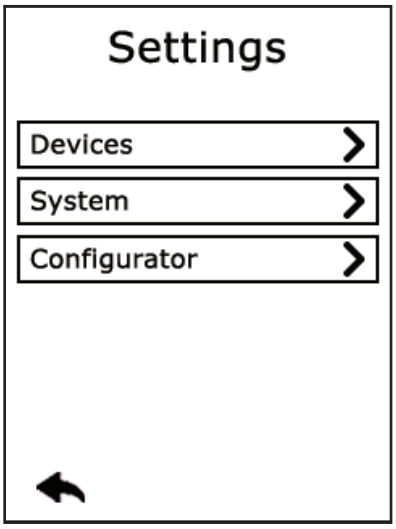


4.3. Settings configuration

This menu enables a more detailed configuration of the system in order to configure the devices, the system or the configurator.

- In "Devices", you can change the name of your terminal as well as the operation of the "Call" button, the «Alarm» mode, activate the OFFENSIVE/DEFENSIVE Role change option, switch OFF the vocal synthesis, access to Advanced Settings and reset your terminals to the factory configuration.
- In "System", you can change the radio operation of the products and change the encryption mode, change the system language and update the terminal and the configurator's softwares.
- In "Configurator", you can calibrate the touchscreen and lock the access to the configurator.

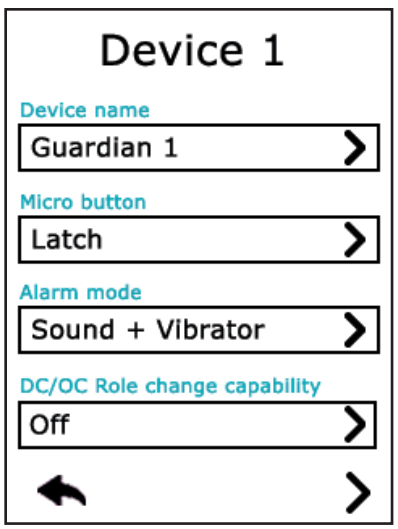
The details for each element are given below.



4.3.1. Devices configuration

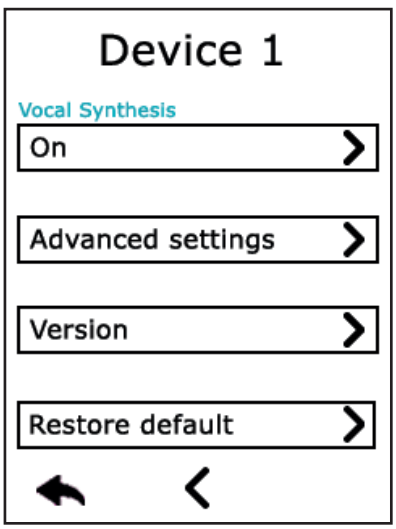
This screen indicates the terminals present on the configurator. The charge status as well as the name of each terminal displays. The terminals display in their order of presence on the configurator, going from the closest (HEAD COACH in position 1) to the furthest away.

To modify a product, select the product row; this displays all the settings available for the selected product.



The available settings are as follows:

- A - Device name: product name displayed on the LCD
- B - Micro button: defines the behavior of the big audio button of the terminal
- C - Alarm mode: defines the operating mode of the alarm
- D - DC/OC Role Change capability: Provides access to the Role Change option
- E - Vocal Synthesis: Allows switching the vocal messages off when changing communication mode
- F - Advanced settings: Provides access to the following options, button assignment, Alarm button, Voice sensitivity, Expert mode
- G - Version
- H - Restore default: allows to reset the products to factory settings



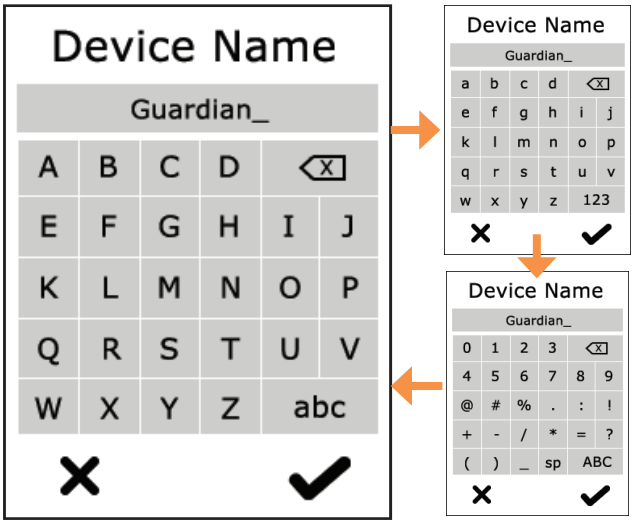
A - Device name

To change the name of the terminal, you can use the available keyboard. Three screens/keyboards are available to de-fine the product name. To switch between screens/ keyboards, use the button on the bottom right-hand side.

"abc" to switch to the lowercase words screen
"123" to switch to the numbers and symbols screen
"ABC" to switch to the uppercase words screen

Use ⌫ to delete the most recently entered character.

To validate, select ✔ on the bottom right-hand side.



B - Micro button

The central button can have a number of operating modes (switched off by default. To activate this button before changing its operating mode, see F.1 of this 4.3.1 menu)

- Latch: press to switch the microphone from Microphone On to Microphone Off; the microphone status displays on the terminal LCD

- Push to talk: the microphone is On for as long as the button is pushed and held

- Latch /Push-To-Talk: combination of Latch and Push-to-Talk functions
A short press switches from Microphone On to Microphone Off.
If the microphone is Off, press and hold this button to switch to Microphone On.

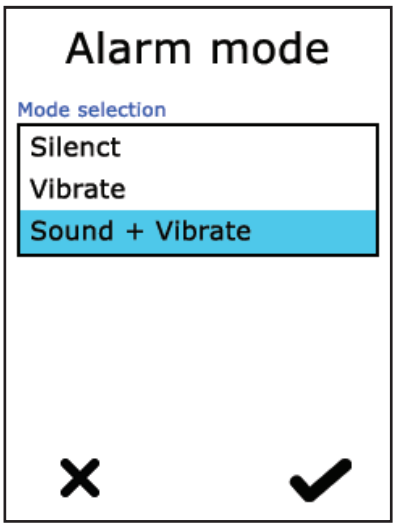
- Push to mute: The microphone is Off for as long as the button is pushed and held

Make your selection and validate.

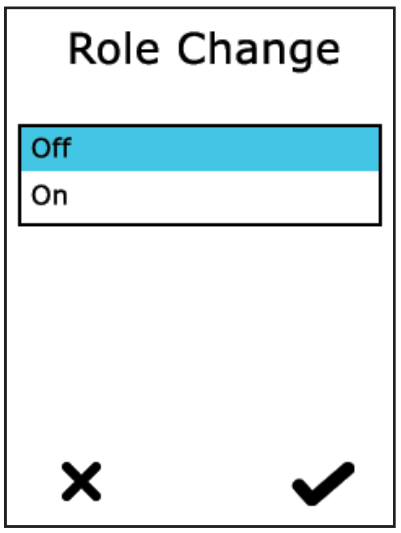
C - Alarm Mode

Whenever the product receives a call from another terminal, it can notify the user depending on the configured mode.
The modes available are:

- Silent: visual notification on the screen
- Vibration: the terminal vibrates + visual notification on LCD
- Audio + Vibration: combined action: sound beep + vibration + visual notification on LCD



D - DC/OC Role Change capability



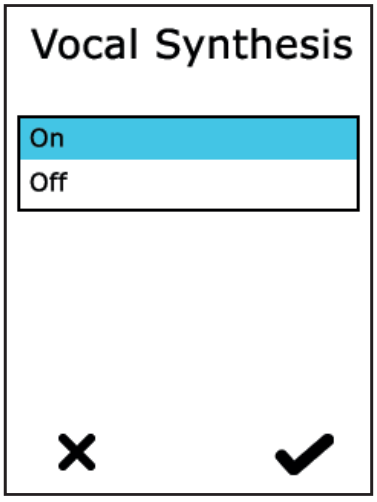
If you want to be able to talk to the HC permanently or you just want to change your Role (switching from OC to DC and vice & versa) :
Before to launch a configuration (« Quick Settings » menu) to pair the C2C terminals in communication on the configurator, you can activate the « Role Change » option following this procedure:

• Enter the «Devices» Menu, select a terminal, then activate « Role Change » option, then choose if you want to apply to this terminal or to all terminals.

• The terminal(s) now have the capability to switch from one role to the other (changing from Defensive Coach to Offensive Coach and in return) with pushing the channel trigger knob.

Role change option activated = a «+» is added to OC or DC role on the display of the C2C terminal

E - Vocal synthesis

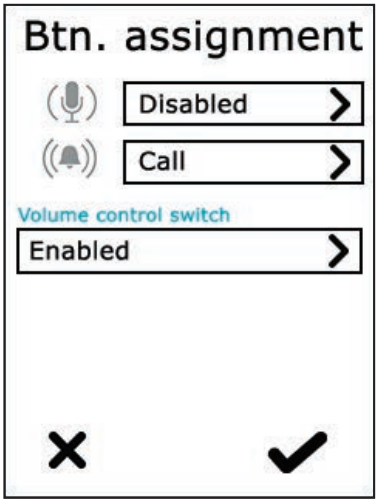


If you want to disable Vocal synthesis which is announced at the change of communication mode as decided by the Head Coach. Before to launch a configuration («Quick Settings» menu) to pair the C2C terminals in communication on the configurator, you can desactivate the « Vocal synthesis » following this procedure:

• Enter the « Devices » menu, select a terminal, then switch to OFF the « Vocal Synthesis » parameter, then choose if you want to apply to this terminal or to all terminals.

• At the time, the HC decides to change the communication mode (OFFENSE mode / DEFENSE mode / ALL mode), the vocal synthesis is replaced by a beep.

F - Advanced settings



F.1 - Button assignment

Reset the functions of the terminal buttons or disable certain functions.

The microphone On / Off + Alarm/Call + additional side button can be switched or deactivated.
Click the option shown by the pictogram on the button of your choice and reassign the chosen function to it.

The Channel and Volume Selector triggers can only be turned on or off.

To reset the original functions, reload the terminal's default settings via the «Restore Default» menu.

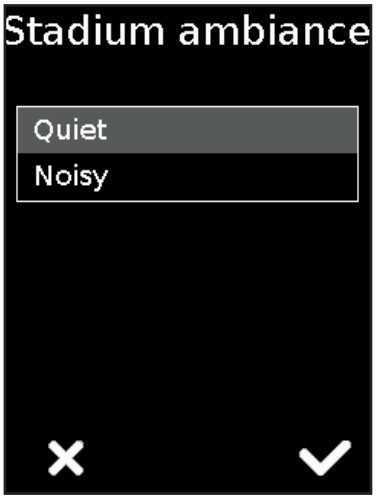
F.2 - Alarm button

Allows you to change the way you press the «Call» button to activate the alarm, regardless of the selected alarm mode (silencer, vibrator or sound + vibrator).

The possible ways of activating the alarm are:

• Short: 1 short press on the Call button triggers the alarm
• Long: 1 long press on the Call button triggers the alarm
• Long + Acknowledgment: 1 long press on the Call button triggers a loop alarm. To stop the alarm, press again continuously on the same button from one of the network terminals.

F.3 - Stadium ambiance



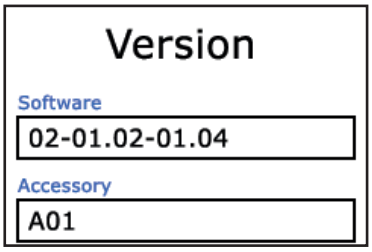
This feature allows you to adapt the level of voice detection to the noisy environments.

Noisy mode allows clear communication in very noisy environments thanks to Voice Detection.

Quiet mode allows the terminal to recognize whispers and low tones.

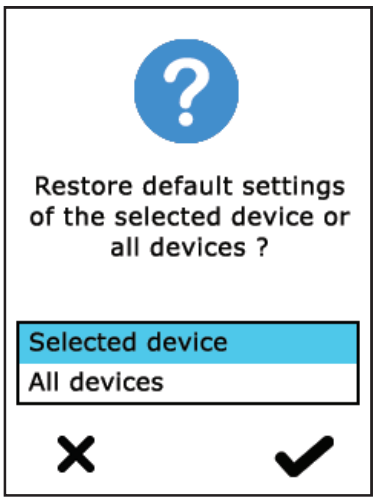
Important note: Quiet mode only works in a quiet environment (it should not be activated in a noisy environment).

G - Version



Shows you the software version of the terminal used.

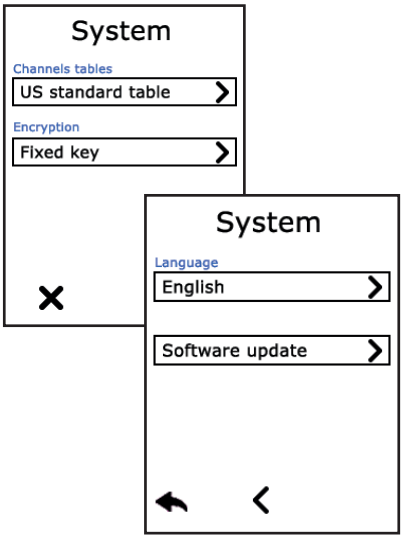
H - Restore Default



This menu returns, to the factory setting, a product or all products connected to the configurator.
After selecting and validating your choice, the configurator lets you know if the return to factory settings completed successfully.

To finalize the operation, select the arrow on the bottom left-hand side to return to the configuration screen of the terminals.

4.3.2. System configuration

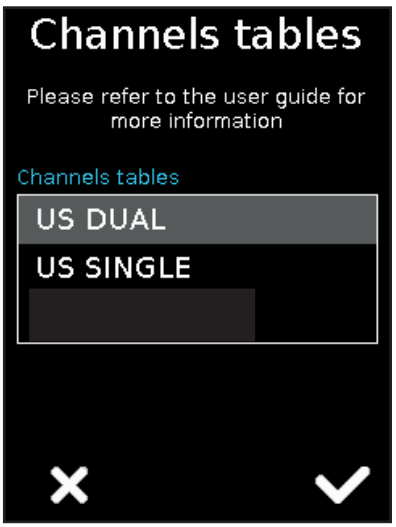


In this screen you can see all the settings related to the system configuration. The settings in this menu apply to all the terminals present on the configurator.

The available settings are:
• A - Channel Tables: Allows you to select the product's operating channel table (frequencies)
• B - Encryption: allows you to choose the encryption operating-mode
• C - Language: allows you to select the display language of the configurator
• D - Software: allows you to update the software version of the terminals and configurator

The settings are displayed over several pages. To browse the pages, select the left and right arrows at the bottom of the screen.

A - Channel tables



This menu allows you to choose the preset frequency mode.
Teams are invited to choose « Home » if playing at home. Or « Away » if playing away.

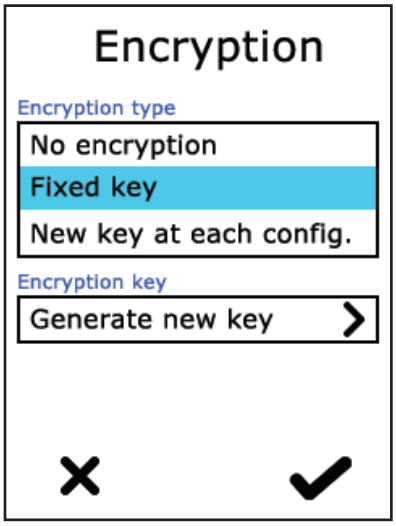
By default, standard channel tables are Home 1 and Away 1. You can activate access to Home 2, Away 2, Home 3, Away 3 with the System menu.

US DUAL:
By selecting the «US DUAL» mode, the system will be configured to operate in dual-frequency channel mode.
This means that the terminals send their radio frames to other terminals on 2 separate frequencies (so that if one frequency is interfered, the terminals receive exactly the same radio frames on the second frequency). With the «US DUAL» mode, the «Quick config.» provides access to Home 1, Home 2, Home 3, Away 1, Away 2 and Away 3.

US SINGLE:
By selecting the «US SINGLE» mode, the system will be configured to operate on single frequency channel mode.
This means that only one frequency is used by all terminals to send radio frames. With the «US SINGLE» channel mode, the «Quick config.» provides access to Home 4, Home 5, Home 6, Home 7, Home 8, Away 4, Away 5, Away 6, Away 7, Away 8.

We advice you to communicate with the other team and the referee crew to ensure that everyone configure their communication systems at best according to recommendations above.

B - Encryption



The encryption key is used to make communications within a given system secure. Only the devices using the same encryption key are authorized to communicate on the network.
Several options are available:

- No encryption: the communications are not secure; all the C2C devices can join the network, even if they have no encryption key.
- Single key: the system uses one single encryption key; this key can be occasionally changed by the user by selecting "New Key"
- New Key with each configuration: the configurator generates a new key with each new successfully performed con-figuration.

C - Language

You can change the system's display language by means of the "Language" setting. Choose the language you want and validate with ✔ on the bottom right-hand side.

D - Update software

You can update the software versions of the terminals and / or the configurator.

• Updating terminals

To update terminals you have to use a USB key.
Contact your vendor to obtain the most recent software version.

The USB key used must be < or = 4Go.

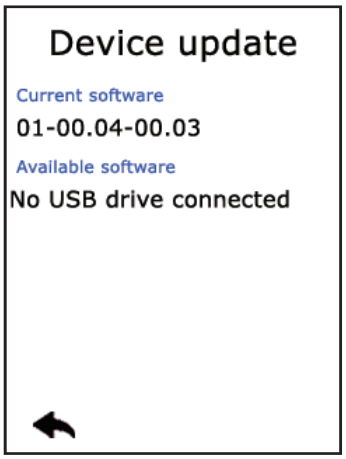
On the USB key:
- Copy the update software to the root
- The files mustn't be in a folder
- No others files or folder have to be on the USB key

To know the version currently installed in the terminal:
Menu > System > Software > Device update:
The version currently installed in the terminal appear on the display. (Screen No. 1).

To configure a new software version on the terminals:
- Once the USB key ready, insere it into the dedicated USB port, situated on the left located on the left side of the configurator. (Screen No. 2)
- Once the USB key connected, the available software version is displayed. (Screen No. 3)

(If the USB key is empty or involves wrongs files, you will read on the display: «Update file missing from the USB key»)
- Click «GO» to validate. (Screen No. 3)
- Then, click ✔ to launch the installation. (Screen No. 4)

1



2

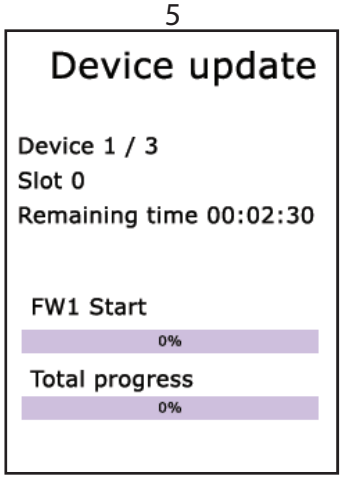
3

4

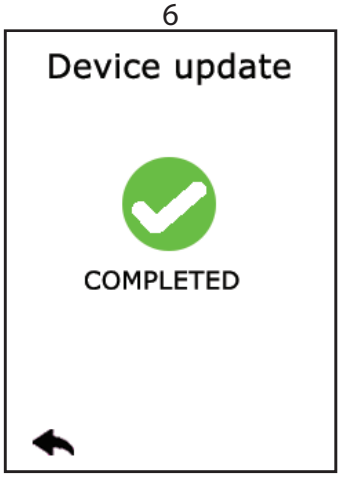
- The update of the terminals is launched (Screen No. 5).
- The update is finished (Screen No. 6).

Note: All terminals on the Configurator will be updated regardless of their location on the Configurator.

5



6



• Updating the configurator

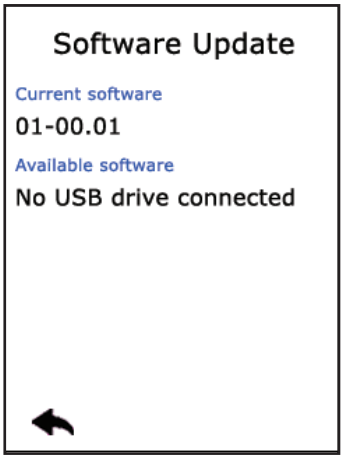
To update the configurator you have to use a USB key.
Contact your vendor to obtain the most recent software version.

The USB key used must be < or = 4Go.

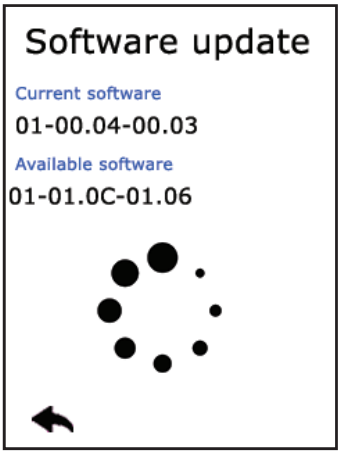
On the USB key:
- Copy the update software to the root
- The files mustn't be in a folder
- No others files or folder have to be on the USB key

To know the version currently installed in the configurator:
Menu > Configurator > Software update:
The version currently installed in the configurator appear on the display. (Screen No. 1).

1



2



3

4

To configure a new software version on the configurator:

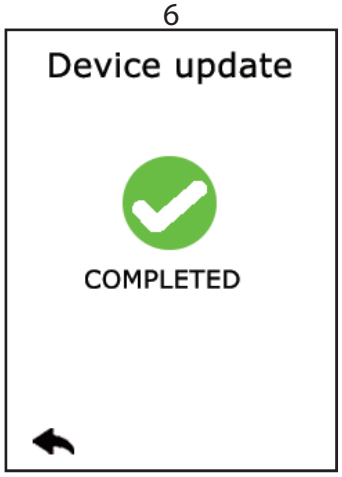
- Once the USB key ready, insere it into the dedicated USB port, situated on the left located on the left side of the configurator. (Screen No. 2)
- Once the USB key connected, the available software version is displayed. (Screen No. 3)

(If the USB key is empty or involves wrongs files, you will read on the display: «Update file missing from the USB key»)

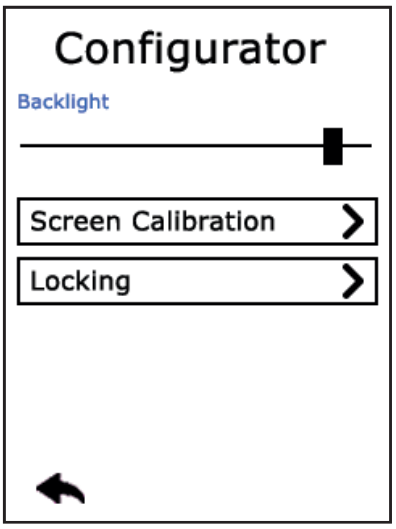
- Click «GO» to validate. (Screen No. 3)
- Then, click ✔ to launch the installation. (Screen No. 4)
- The update of the configurator is launched (Screen No. 5)
- The update is finished (Screen No. 6).

5

6



4.3.3. Configurator configuration



Use this setting to adjust the screen.
In this area, you can adjust the screen lighting, calibrate the touchscreen, and lock the configurator.

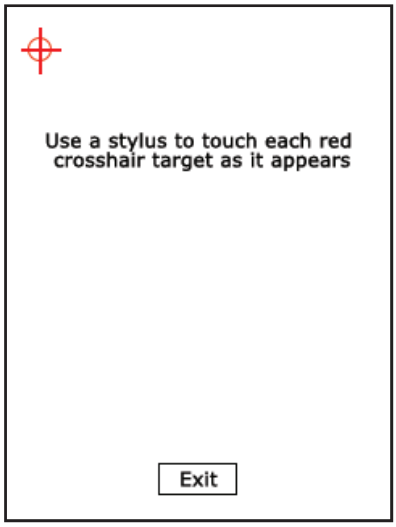
1 - Adjusting the screen lighting

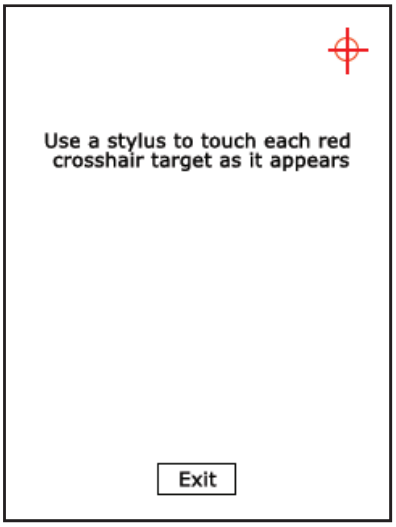
Slide the cursor from left and right to decrease and increase, respectively, screen lighting.

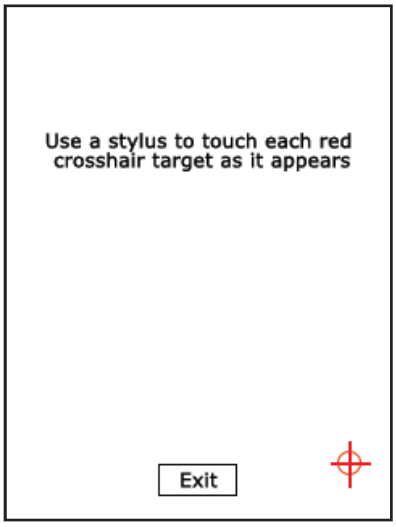
2 - Calibrating the touchscreen

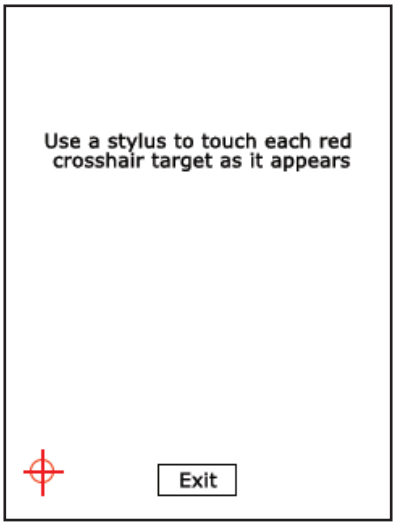
The configurator touchscreen is already calibrated in the factory; you can however calibrate your own touchscreen if you note a significant change in screen detection.

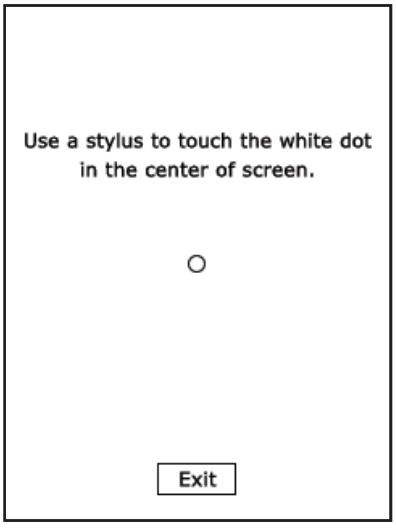
To do this, carry out the following 5 steps:
Select each angle with the yellow pointer, then select the circle at the middle of the screen.
The calibration is complete.









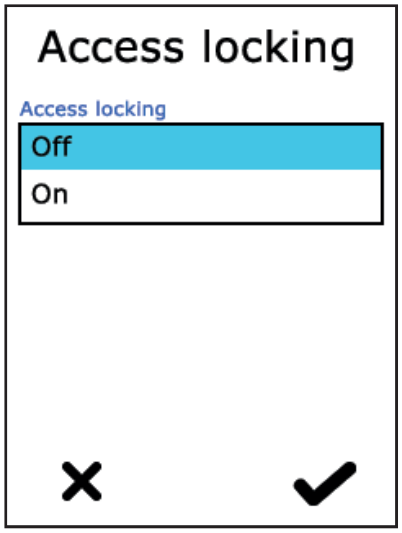


3 - Locking

Allows you to block access to the configurator using a PIN code.
In Lock mode, only the «Quick Config" option is available. You can only access the other settings after validating the PIN code.

Note: The PIN code consists of 1 to 6 digits

Once the lock has been activated, the PIN code can be modified or deactivated (see screen below showing the options available in the «Lock» menu, once the lock has been activated).



4 - Resetting the configurator functions

In order to put the configurator back in factory mode (and thus cancel all the configuration changes made previously), do the following:

1. Unplug the configurator
2. Reconnect the configurator
3. When the configurator is switched on, on the first home screen, consisting of the «VOKKERO®» logo: press exaclty on the 2nd «O» of VOKKERO®.
4. Then you can restore the default settings of the configurator
5. Confirm
6. The configurator parameters have been reset.

DOCUMENT HISTORY

Version	Contents
V1.0	Creation
V2.0	Company and DoC changes
V3.0	New product version
V3.1	Stadium ambiance menu changes