



VOKKERO ELITE

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This document applies to the following products:

- VOK-ELITE-EU (Ref: VO8350AA)
- VOK-ELITE-CONFIGURATOR (Ref: VO7674AA)
- VOK-ELITE-CHARGER (Ref: VO8363AA)

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DOCUMENT HISTORY

▼ PRÉAMBULE / PREAMBLE / PRÄAMBEL / PREAMBOLO

- Ce guide décrit les fonctionnalités du système Vokkero®, ses options et ses accessoires. Il explique comment le configurer pour permettre une communication de type conférence entre plusieurs utilisateurs.
- This guide describes the functionality of the system Vokkero®, options and accessories. It explains how to configure it to allow a conference-type communication between multiple users.
- Diese Anleitung beschreibt die Funktionalität des Systems Vokkero®, Optionen und Zubehör. Es erklärt, wie man es konfigurieren, um eine Konferenz-Art der Kommunikation zwischen mehreren Benutzern zu ermöglichen.
- Esta guía describe la funcionalidad del sistema Vokkero®, opciones y accesorios. En él se explica cómo configurarlo para permitir una comunicación de tipo conferencia entre múltiples usuarios.

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Systeme radiocommunication sans fil professionnel –Vokkero 

Spécialisée dans les systèmes de communication pour équipes mobiles pour les professionnels, VOKKERO® est reconnu mondialement dans le domaine sportif (leader mondial dans

 <https://www.vokkero.com/fr/>

VOGO

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▼ INFORMATIONS

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

▼ RECOMMENDATIONS & WARNINGS

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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-ELITE-EU: VO8350AA

VOK-ELITE-CONFIGURATOR: VO7674AA

VOK-ELITE-CHARGER: VO8363AA

The following recommendations apply to the different references and are identified by the following color code:

- **Terminal**
- **Charger/Configurator**
- **Terminal + Charger/Configurator**



Read the instructions in the manual.



CHARGER and CONFIGURATOR are intended for INDOOR USE ONLY.



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.



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 correctly implemented.



Warning for Switzerland : the annex 4.10 of SR 814.013 Standard must be applied for batteries.



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

RECOMMENDATIONS REGARDING USE

- 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.

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/townhall offices, your household waste collection company or the shop where you bought the product.

▼ DECLARATION OF CONFORMITY

▼ EU

Terminals: VO8350AA - VO8350AB - VO8350AC:

[https://s3-us-west-2.amazonaws.com/secure.notion-static.com/041dab4d-1420-4798-8362-7ad8aee491a8/UE_Declaration_of_Conformity_Vokkero_ELITE_\(GB\)_VO8350AA_-_VO8350AB_-_VO8350AC.pdf](https://s3-us-west-2.amazonaws.com/secure.notion-static.com/041dab4d-1420-4798-8362-7ad8aee491a8/UE_Declaration_of_Conformity_Vokkero_ELITE_(GB)_VO8350AA_-_VO8350AB_-_VO8350AC.pdf)

Configurator/Charger: VO7674AA - VO8363AA:

[https://s3-us-west-2.amazonaws.com/secure.notion-static.com/590aa555-bdc1-4b8e-94af-926039a2c271/UE_Declaration_of_Conformity_Vokkero_ELITE_\(GB\)_Configurator_-_charger_VO7674AA_-_VO8363AA.pdf](https://s3-us-west-2.amazonaws.com/secure.notion-static.com/590aa555-bdc1-4b8e-94af-926039a2c271/UE_Declaration_of_Conformity_Vokkero_ELITE_(GB)_Configurator_-_charger_VO7674AA_-_VO8363AA.pdf)

▼ UKCA

Terminals VO8350AA –VO8350AB –VO8350AC:

[https://s3-us-west-2.amazonaws.com/secure.notion-static.com/3af4496e-7626-428b-994d-a578b9f9f403/UKCA_Declaration_of_Conformity_Vokkero_ELITE_\(GB\)_VO8350AA_-_VO8350AB_-_VO8350AC.pdf](https://s3-us-west-2.amazonaws.com/secure.notion-static.com/3af4496e-7626-428b-994d-a578b9f9f403/UKCA_Declaration_of_Conformity_Vokkero_ELITE_(GB)_VO8350AA_-_VO8350AB_-_VO8350AC.pdf)

Configurator/Charger: VO7674AA –VO8363AA:

[https://s3-us-west-2.amazonaws.com/secure.notion-static.com/8a0e139b-5164-4954-9f7e-04f9deb75c0e/UKCA_Declaration_of_Conformity_Vokkero_ELITE_\(GB\)_Configurator_-_charger_VO7674AA_-_VO8363AA.pdf](https://s3-us-west-2.amazonaws.com/secure.notion-static.com/8a0e139b-5164-4954-9f7e-04f9deb75c0e/UKCA_Declaration_of_Conformity_Vokkero_ELITE_(GB)_Configurator_-_charger_VO7674AA_-_VO8363AA.pdf)

▼ USAGE RESTRICTIONS

USE ofVOKKERO ELITE inEUROPEAN UNION

Some countries in the European Union do not allow all the channels available in VOKKERO ELITE. This equipment is intended to be used only inside sports arenas (Stadium...). The table below lists the channels available in the VOKKERO ELITE system and specifies the associated usage restrictions.

Channels	Frequency (MHz)	Emission power (dBm)	Comments
D1	869,525 / 866,3	27 / 27	NAP required(ELITE Smart Gateway or ELITE Wireless Interface)
D2	867,5 / 874,2	27 / 27	Restrictions
D3	869,525 / 830,75	27 / 20	Restrictions
D4	874,2 / 830,25	27 / 20	Restrictions and NAP required (ELITE Smart Gateway or ELITE Wireless Interface)
S1	869,525	27	No Restrictions
S2	866,3	27	NAP required(ELITE Smart Gateway or ELITE Wireless Interface)

Channels	Frequency (MHz)	Emission power (dBm)	Comments
S 3	874,2	27	Restrictions and NAP required (ELITE Smart Gateway or ELITE Wireless Interface)
S 4	866,9	27	NAP required(ELITE Smart Gateway or ELITE Wireless Interface)
S 5	867,5	27	NAP required(ELITE Smart Gateway or ELITE Wireless Interface)
S 6	830,25	20	Restrictions
S 7	830,75	20	Restrictions
S 8	864,75	10	No restrictions –Limited emission power
S 9	870,5	27	Restrictions and NAP required (ELITE Smart Gateway or ELITE Wireless Interface)
S10	871,5	27	Restrictions and NAP required (ELITE Smart Gateway or ELITE Wireless Interface)
S11	872,5	27	Restrictions and NAP required (ELITE Smart Gateway or ELITE Wireless Interface)
S12	829,25	20	Restrictions
S13	831,75	20	Restrictions
S14	868,3	14	No restrictions –Limited emission power
S15	864,75	27	License required
S16	868,3	27	License required

- **NAP:** Network Access Point
- **No restrictions:** Usable channel in all European Community countries without restrictions.
- **Restrictions:** The use of this channel is restricted in some European countries.
- **No restrictions –Limited emission power:** the radiated power of VOKKERO ELITE has been decreased on this channel to allow usage in all European

Community countries without restrictions.

- **License required:** A temporary license is required to use this channel.

	France	Belgium	Germany	Netherlands	Slovak Republic	Lithuania	Austria	Italy	Czech Republic	Portugal	Greece	Malta	Roumania	Poland	Croatia	Sweden	Latvia
D1																	?
D2		X	X	X	X	?	P	P		?	?	?	?	P	P		?/P
D3						X	X			?				?		L	
D4		X	X	X	X	X	X/P	P		?	?	?	?	?/P	P	L	P
S1																	
S2																	?
S3		X	X	X	X	X	P	P		X	X	X	X	P	P		P
S4																	?
S5																	?
S6						X	X			?				?		L	
S7						X	X			?				?		L	
S8																	
S9	X		X	X	X	?	P	X	X	?	?	?	?	P	P		P
S10	X		X	X	X	?	P	X	X	?	?	?	?	P	P		P
S11	X		X	X	X	?	P	X	X	?	?	?	?	P	P		P
S12						X	X			?				?		L	
S13						X	X			?				?		L	
S14																	
S15																	
S16																	

- X Unauthorized
- ? To ckeck with local administration
- P In progress
- L Licence required

For channels with usage restrictions, refer to appendix 1 (National Implementation) of recommendation ERC /REC 70-03 available on the ECO (European Communication Office) website:

<https://docdb.cept.org/document/845>

Inside the stadium, a spectrum referent may be available to assist in frequency allocation.

For the use of ELITE in Europe (outside the EU), please contact customer support:

“www.vokkero.com/Support/TechnicalSupport”. In the VOKKERO HELPDESK space, log in with your identifiers (or sign up to create your account) to access the support.

The operations described below allow you to rapidly and easily implement your VOKKERO ELITE communications system.

All the operations described are valid for all the VOKKERO ELITE terminals listed below:

VOK-ELITE-EU : VO8350AA

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

The VOKKERO ELITE is a ready-to-use system with the following three main elements:

- **Terminals: VO8350AA**
- **Configurator: VOK-ELITE-CONFIGURATOR : VO7674AA**
- **Optional Charger: VOK-ELITE-CHARGER : VO8363AA**

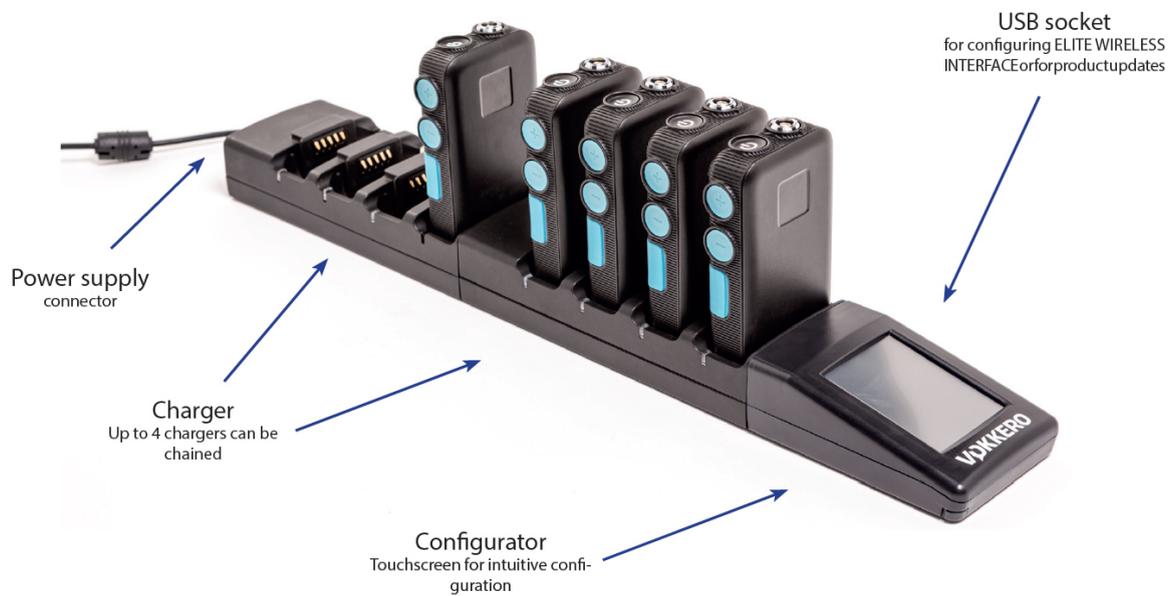
All the operating settings of the VOKKERO ELITE system are managed by the configurator which gives access to the Settings menu via a touchscreen. The configurator must be connected to the power unit (otherwise it will not work) and up to 4 extensions can be associated with the configurator.

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 ELITE terminals as shown below

Note 1: the order and position of the terminals on the charger(s) are not of importance at that time.

Note 2: if the purpose of the operation is only to charge terminals, then the configurator is not required.



2. SYSTEM DESCRIPTION

2.1. VOKKERO ELITE Terminal

2.1.1. Description of product interface



2.1.2. General characteristics

General Specifications	Value
Supply voltage	3.7V nominal
Maximum consumption	800mA (emission)
Terminal power supply	Lithium battery
Battery life	More than 8 hours
Charging time	4 hours from 0 to 100% battery life
Operating temperature	20°C / +55°C
Dimensions	57 x 96 x 23 mm
Weight	130g (including battery)

2.2. VOKKERO ELITE Charger/Configurator

2.2.1. Description of product interface



2.2.2. General Technical Specifications

General Specifications	Value
AC/DC Power Converter (standard)	100 to 240V 12VDC/5A - 50/60Hz
Operating temperature	-5°C/+40°C
Dimensions configurator	150x70x36
Dimensions charger	180x70x35
Weight Configurator	100g
Weight Charger	180g
Terminal charging indicators (leds)	
-Red	No terminal or defective terminal
-Orange	Terminal charging
-Green	Terminal charged

3. QUICK START OF THE CONFERENCE

3.1. Setting up Audio Conference

The terminals are delivered pre-configured and ready-to-use. The first step consists in turning on the terminals and in particular the Master role terminal. This role is used to synchronize the other terminals. You can recognize the Master terminal thanks to its purple network icon.

In case no terminal show the purple network icon or if several terminals shows this purple network icon, that means that you have no Master or several Master roles in the network. In that case, the audio conference won't work properly. Put all the terminals on the configurator dock and launch a "Quick Config.". See §5 QUICK CONFIG. MENU for more info on the different "Quick Config." modes, options and functionalities.

The Master role is automatically attributed to the terminal located in the first slot of the configurator during a normal "Quick Config".

The Master role is attributed to the terminal located either in the first slot or in the fourth slot of the configurator during a VAR Football "Quick Config".

With "Quick Config.", you can rapidly reconfigure all the conference and attributes the Master role to a single terminal which is the key to a valid VOKKERO audio

conference.

With Football “Quick Config.” you can configure all terminals for VAR Football application usage. In that case, a spare Master role will be created (and shall be of course kept shut-off if the Master is turned-on).

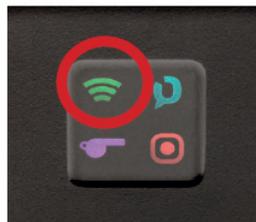
3.2. Description of the terminal



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

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

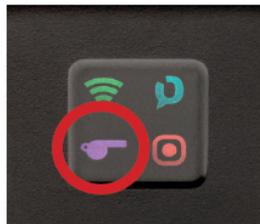
Network icon



- Colour of the Network Icon shows the role of the terminal in the VOKKERO conference.
 - If icon is purple: the terminal is the MASTER of the conference (can speak and listen and gives synchronization network to other terminals).
 - If icon is green: the terminal is a USER of the conference (can speak and listen).
 - If icon is white: the terminal is a LISTENER of the conference (cannot speak, only listen).
- Status of the Network Icon shows that the terminal is connected or not to a VOKKERO conference.

- If icon blink:the terminal is searching for a VOKKERO conference.
- If icon is fixed:the terminal is connected to a VOKKERO conference or the terminal is the MASTER of the conference.

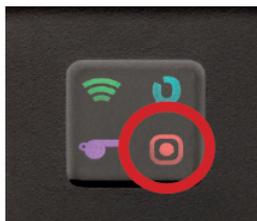
Central ref icon



If a purple whistle appears, that means that this terminal has been selected as a Central Ref product (whatever its Network role, MASTER or USER). That only means that an extra robust radio is active (can be active only on one terminal in the conference/ network).

This gives even more robustness in case of radio interferences to that terminal. We recommend to give that terminal to the main referee (or the one speaking to VAR or to public announcement).

Recording icon



If icon does not appear: No recording.

If icon is fixed: A recording of the VOKKERO conference is going-on.

If icon blinks: The SD card for the recording cannot accept recording (full memory).

3.3. Connecting a headset

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 headset and push the connector.
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 and check that you align the red dot with the red mark.

3.3.2. Removing the headset

Pull on the ring of the headset to release the connector switch.
Then remove the headset connector.



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



Do not turn the connector.

3.4. Adjust Volume

Push + to increase the audio volume

Push - to decrease audio volume



5 steps of volume are available. A vocal synthesis (heard in the headset) indicates the step (volume 1 to volume 5). A vocal synthesis indicates that “Minimum volume” is reached, another vocal synthesis indicates that “Maximum volume” is reached.

To avoid possible hearing damage, do not listen at high volume for a long time.

3.5. Launch a recording

Insert a SD card into the dedicated slot (FAT32 formatted)

Push during 2 seconds the Function button

The recording icon should appear and stay fixed.

In case it blinks and then disappears it means that your SD card is not present, well-inserted or well-recognized.



To stop recording, push the Function button again. The recording icon should disappear.

A vocal synthesis (heard in the headset) indicates the “Start of Recording”, another voca synthesis indicates the “End of recording” (in case the user stops the recording or if the SD card memory is full).

3.6. Locking and unlocking the terminal

You can lock the buttons of the terminal by pressing and holding the + and – buttons during 3 seconds.

All icons blinks one time when locking is activated. On/Off button remains functional. Press and hold again during 3 seconds the + and – buttons to unlock. All icons blinks one time when unlocking.

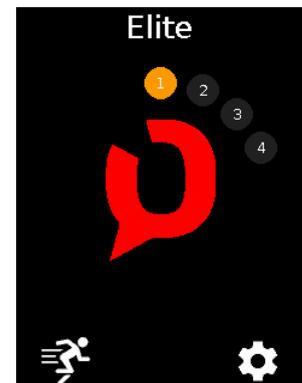
4. START AND HOME SCREEN OF THE CONFIGURATOR

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 ELITE.

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 software version of the configurator, followed by the Home Screen.



4.1. Home Screen

The screen indicates the number of terminals that the charger has on it (each number corresponds to one terminal).

The configurator uses a color code to indicate the terminal battery’s charging status, using the following colour scheme.

Plain round green: battery charged

Plain round orange: battery in charge

No visible round whereas a terminal is plugged in this charger's slot: terminal in default, try positioning again the terminal and contact our support in case it stays in that state.

You can rapidly configure the entire system by selecting the runner icon ("Quick config.").

You can fine-tune the system configuration by using the settings icon (Settings).

Note: You can also proceed directly to the configuration of the terminal by clicking on the desired terminal number.

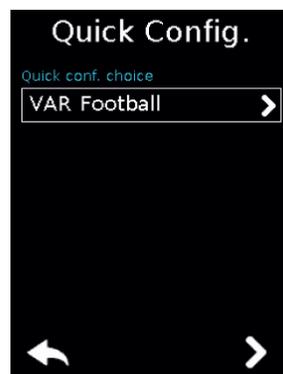
5. QUICK CONFIG. MENU

The terminals are delivered pre-configured and ready-to-use.

However, with "Quick Config.", you can rapidly reconfigure all the conference (selecting another frequencies or modifying terminal role).

Start the configuration by selecting a "Quick Config." (Football or Normal).

VAR Football is dedicated to quick configure the product for VAR Football use case. Normal is dedicated to any other usage.



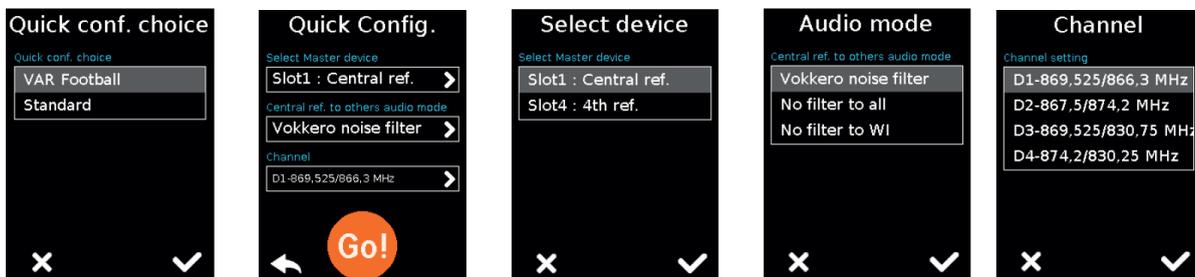
5.1. VAR Football «Quick Config.»

The VAR Football «Quick Config.» the terminals are paired in communication and there is an automatic configuration of terminals which is crafted for games with VAR where a technician can assist referees and has to setup main and backup VAR audio lines as well as backup spare terminals for referees. The VAR Football «Quick Config.» allows:

- naming of the terminals

- possibility to give the MASTER ROLE to the CENTRAL REF or to the 4th Assistant REF
- pairing of two WIRELESS INTERFACE (WI) for main and backup pitch-to-VOR audio lines
- creation of spare identical terminals for all different roles (allowing a technician to swap terminals during half-time if needed)
- creation of Listener terminals

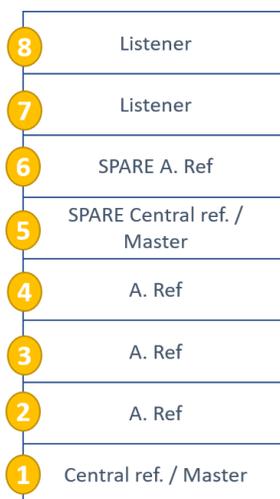
1. Connect your main Wireless Interface (WI) on the USB dock of the configurator and turn on the Wireless Interface.
2. Put at least 4 ELITE terminals on the charger
3. Select which slot you want for MASTER (“Select Master device”). Can be either the CENTRAL REF (Master role given to the device in Slot n°1) or an assistant referee such as the 4th referee (Master role given to the device in slot n°4)
4. Select the audio mode you want for Central Referee terminal (“Central referee to others audio mode”). See below §5.3 for more explanation of these audio modes.
5. Choose a frequency.
6. Unplug MAIN WI and connect a second WI if you want to add a backup WI & validate. Unplug USB cable both sides when completed.
7. If the configuration completes successfully, the indication “COMPLETED” displays. Alternatively, the indication “ERROR” displays if a problem is encountered.
8. To return to the Home Screen, use the left arrow.



With Football “Quick Config.”, the terminals are automatically configured this way (by order of slots on the charger):

If you have chosen the Slot 1 (the CENTRAL REF) for MASTER ROLE:

1. CENTRAL REF /MASTER ROLE (purple antenna icon /whistle icon)
2. A.REF (green antenna icon)
3. A.REF (green antenna icon)
4. A.REF (green antenna icon)
5. SPARE MASTER Role /CENTRAL REF (spare terminal with purple antenna icon /whistle icon, to be kept switched- off!)
6. SPARE A.REF (green antenna icon)
7. LISTENER (white antenna icon)
8. LISTENER (white antenna icon)
9. LISTENER (white antenna icon)
10. ...



If you have chosen for instance the Slot 4 (the 4th REFEREE) for MASTER ROLE:

1. CENTRAL REF (green antenna icon /whistle icon)
2. A.REF (green antenna icon)

3. A.REF (green antenna icon)
4. 4thREF /MASTER (purple antenna icon)
5. SPARE CENTRAL REF (CentralREF spare withwhistleicon, to be kept switched-off!)
6. SPARE REF (green antenna icon)
7. SPARE 4thREF /MASTER (MASTER spare terminalwithpurpleantenna icon, to be kept switched-off!)
8. LISTENER (white antenna icon)
9. LISTENER (white antenna icon)
10. LISTENER (white antenna icon)
11. ...



In case you put less than 4 ELITE terminals on the charger, the Football “Quick Config.” won’t be possible.

In that case the Football “Quick Config.” will propose to configure only additional terminals with the same role for all terminals on the charger : LISTENER or SPARE REF.

5.2. Normal “Quick Config.”

With Normal «Quick Config.» the terminals are all paired in communication and all terminals are configured the same way (all users of the conference with green

antenna icon) except the terminal located in slot n°1 which will be CENTRAL REF Role +MASTER Role.

1. Select the audio mode you want for Central Referee terminal (“Central referee to others audio mode”). See below for more explanation of these audio modes
2. Choose a frequency
3. If the configuration completes successfully, the indication “COMPLETED” displays. Alternatively, the indication “ERROR” displays if a problem is encountered.
4. To return to the Home Screen, use the left arrow.

8	Elite 8
7	Elite 7
6	Elite 6
5	Elite 5
4	Elite 4
3	Elite 3
2	Elite 2
1	Elite 1 Central ref. / Master

IN ANY CASE AND NO MATTER THE “Quick Config.” CHOSEN:

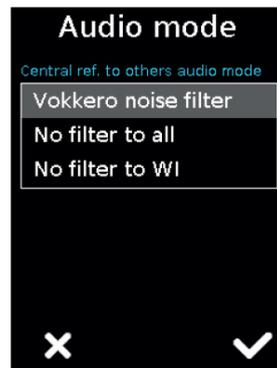
Always make sure:

- To have only one MASTER ROLE terminal in the conference (only one terminal with purple antenna icon displayed)
- To have only one Central REF in the conference (only one terminal with whistle icon displayed)

5.3. Central ref to others audio mode

During the “Quick config.” you are invited to chose which terminal you want to apply the CENTRAL REF enhanced radio capabilities.

On top of that extra robustness to interferences, you may select a specific audio mode for this CENTRAL REF terminal only. This audio mode will define the way the audio from the CENTRAL REF will be sent to the others terminals /users.

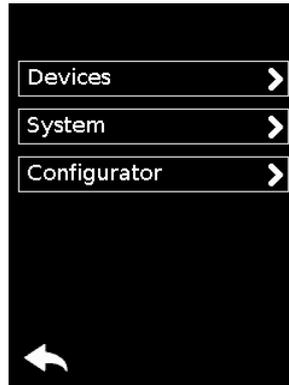


- **VOKKERO filters** : it is the default mode. It enables the noise filtering VOKKERO technology (only the voice is transmitted). The CENTRAL REF terminal audio out will be noise filtered, just as the other terminals.
- **NO-Filter**: it allows free audio out (without noise filtering) to all others users (i.e. to all other terminals, and to the WIRELESS INTERFACE...). This can be chosen to enable other users to hear a raw unfiltered audio from the CENTRAL REF with ambient sound in it. We won't recommend that settings in crowded stadiums/arenas.
- **NO-Filter-to-WI**: it allows free audio out (without noise filtering) only to the WIRELESS INTERFACE. This can be chosen to enable VAR referees or TV to hear a raw unfiltered audio from the CENTRAL REF with ambient sound in it.

6. SETTING MENU

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 access the settings of the terminals which are currently positioned on your charger.
- In “System”, you can change the settings of the whole VOKKERO network
- In “Configurator”, you can set the configurator parameters. The details for each element are given below.

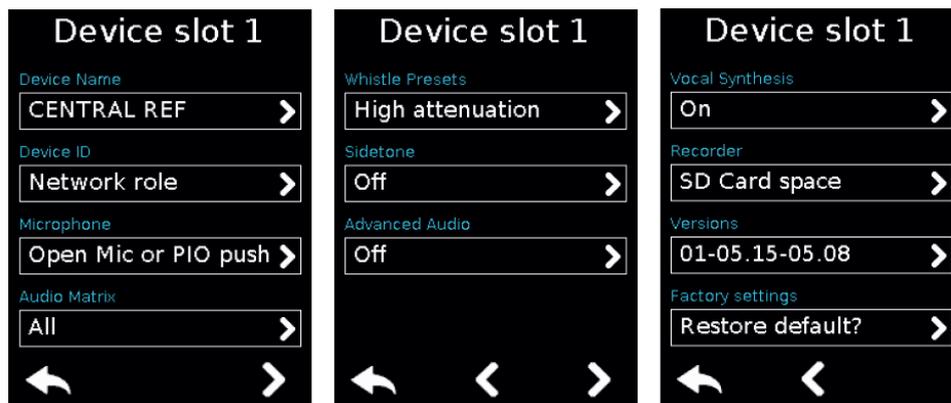


6.1. Devices

The first 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 terminal.

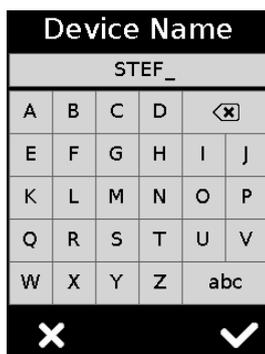


6.1.1. Terminal name

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.

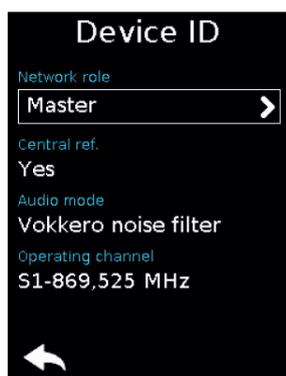
- “abc” to switch to the lowercase words screen
- “123” to switch to the numbers and symbols screen
- “ABC” to switch to the uppercase words screen
- Use the cross to delete the most recently entered character
- To validate, select on the bottom right-hand side.



6.1.2. Device ID

This menu allows a quick check of some parameters of the terminal (that may have been applied during a «Quick Config.»).

- Network role: Master, User or Listener (this Network role can be changed there in this menu).
- Central Ref role: Yes or No
- Audio mode: Vokkero noise filter which is the standard default mode or eventually one of the two No-filtermodes, see §5.3; the two latest being only possible for only possible with a Central Ref terminal.
- Operating channel frequency



6.1.3. Microphone

- Open mic or Push-to-talk(that means if you plug a normal headset you will have open mic functioning, if you plug a headset with a button you will have push-to-talk functioning)

- Open mic or Push to mute (that means if you plug a normal headset you will have open mic functioning, if you plug a headset with a button you will have push-to-mute functioning)
- Open mic with PIO push (that means if you plug a normal headset you will have open mic functioning, if you plug a headset with a button you will still have open mic functioning but with specific WI audio-out mode if you hold pressing the button).
- Open mic with PIO latch (that means if you plug a normal headset you will have open mic functioning, if you plug a headset with a button you will still have open mic functioning but with specific WI audio-out mode if you press the button, and then you need to press again to stop specific WI audio-out mode).



Note that these two PIO modes have to be selected if you want to:

- Make Push-to-announce with a WIRELESS INTERFACE authorizing WI audio-out (Public announcement in some sports) or,
- Make private conversations with a WIRELESS INTERFACE avoiding WI audio-out (keep referees discussion away from being broadcasted on TV in some sports).

To make these two modes work, it has to be set in conjunction with the proper WI parameter depending on what specific WI audio-out you want (see User Guide of VOKKERO WI ELITE):

- PIO -Public announcement
- PIO -Audio out muted

Make your selection and validate.

6.1.4. Audio Matrix

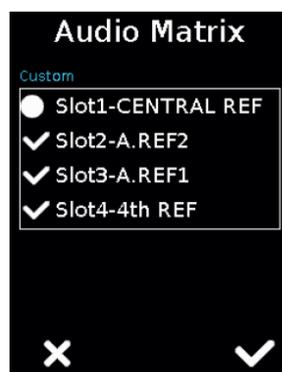
For each terminal (even Listener terminals), it is possible to select what terminal you want to listen to. The default setting is for all devices to be selected.

- Select the terminals that should or should not be listened to by the terminal you are currently configuring.

Note: If the listening selection has already been modified, the word “Custom” will appear.

If all the terminals are being listened to, “All” will appear.

- Once the selection has been made, click on the “OK” button in order to validate it, or on “Escape” in order to exit from the sub-menu.
- When the “OK” button has been clicked on, a window will appear confirming that the operation has been duly completed.
- Click on “OK” and then on “Escape” to return to the home screen.



6.1.5. Whistle Presets

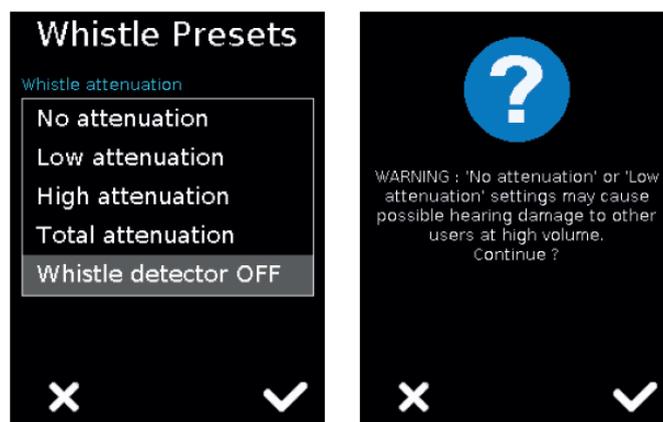
The whistle detector allows the terminal to detect that a whistle call has been made and then transmits the audio of this whistle to the other terminals accordingly to your choice.

Note: this is very helpful to have other users hearing the whistle while preserving their hearing health. We strongly recommend to keep the Whistle detector on with attenuation if you have selected another audio mode than VOKKERO filters during

the Quick Configuration process for the CENTRAL REF to avoid any damage to other users audition.

- No attenuation : the whistle is detected and sent to other users at high volume.
- Low attenuation : the whistle is detected and sent to other users at moderate volume.
- High attenuation : this is the default mode. The whistle is detected and sent to other users at low volume.
- Total attenuation : the whistle is detected and is NOT sent to other users (filtered)
- Whistle detector OFF : this is a backup mode in case the whistle detector shows unwanted behavior in some arenas (with other whistles coming from the crowd). In that case, the whistle is not detected and the audio results may depend from the audio mode you have chosen during the Quick Configuration process for the CENTRAL REF.

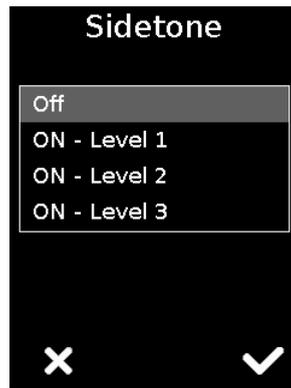
Make your selection and validate.



6.1.6. Sidetone

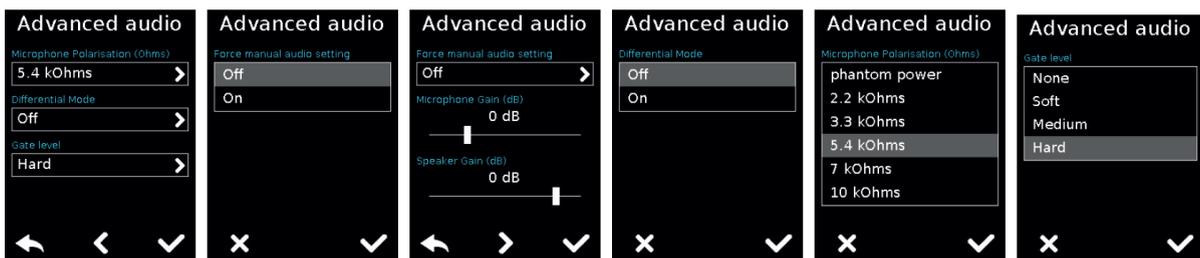
The Sidetone mode enables you to turn on and adjust the audio return level (enabling you to listen to your own voice) in your headset.

The default mode is OFF.



6.1.7. Advanced audio

This mode allows our customers to fine-tune themselves (Manual mode) some audio parameters including microphone and speaker gain, differential mode, gating or electrical polarization. We cannot provide tips as our headsets are engineered to be automatically recognized by the terminal which then applies the best settings so that our customers do not need to enter that Advanced audio mode. If you are willing to try different audio settings or your own headsets, force the terminal into Manual Mode and adjust the parameters. Please note that it may bring the terminal/headset association to bad or erratic functioning. Please consider this as an expert mode and play carefully with it.

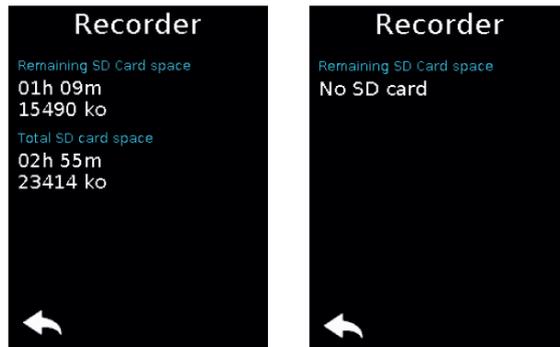


6.1.8. Vocal Synthesis

This menu allows disabling or re-enabling the vocal synthesis alerts which can be heard in the user's headset.

6.1.9. SD Card space

This menu gives the remaining time that can be stored with the Recorder on the inserted SD Card.



6.1.10. Factory settings

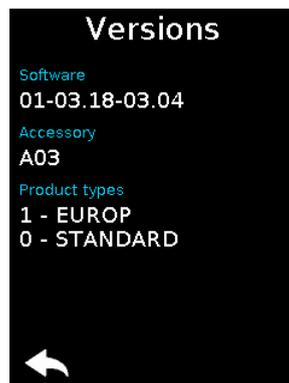
This menu brings back, to the factory settings, a terminal or all terminals connected to the configurator.

After selecting and validating your choice, the configurator lets you know if the return to factory settings has completed successfully. To finalize the operation, select the arrow on the bottom left-hand side to return to the configuration screen of the terminals.

6.1.11. Versions

This menu provides the Product types, the accessory table reference and the software release which are embedded into the terminal.

These information are useful to contact our Support.



6.2. System

6.2.1. Channel mode

Use this menu to select a predefined mode of channels.

By default, the system is configured to operate on bi-frequencies channel mode (i.e., «DUAL» selected); this means that the terminals send their radio frames to other

terminals on 2 separate frequencies (so that if one frequency is interfered, terminals receive the exact same radio frames on the second frequency). With «DUAL» channel mode, the «Quick config.» provides access to D1 to D4 channels.



By selecting the «SINGLE» channel mode, the system will be configured to operate on single frequency channel mode. That means that only one frequency is used by all the terminals to send radio frames. With «SINGLE» channel mode, the «Quick config.» provides access to S1 to S16 channels.

Some countries in the European Union do not allow all the channels available in VOKKERO ELITE. A full list of available channels and potential associated restrictions of usage is given in this user guide page 7.

For channels with usage restrictions, refer to appendix 1 (National Implementation) of recommendation ERC /REC 70-03 available on the ECO (European Communication Office) website:

https://www.ecodocdb.dk/document/category/ECC_Recommendations?status=ACTIVE

Inside the stadium, a spectrum referent may be available to assist in frequency allocation.

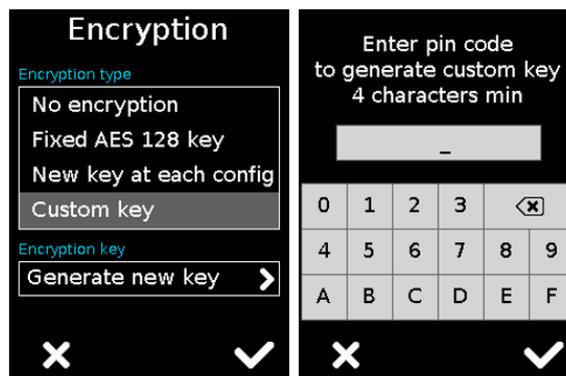
For the use of ELITE in Europe (outside the EU), please contact customer support: “www.vokkero.com/Support/TechnicalSupport”. In the VOKKERO HELPDESK space, log in with your identifiers (or sign up to create your account) to access the support.

6.2.2. 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; any VOKKERO ELITE terminal can join the network.
- Fixed AES 128 key: the system uses one single encryption key when pairing the terminals during the “Quick Config.” process; this key can be occasionally changed by the user by selecting “New Key”
- New Key with each configuration: the configurator generates a new AES 128 key with each new successfully performed “Quick Config.” process.
- Custom key: allows you to generate a custom encryption key to facilitate the synchronization of all ELITE systems installed in different stadiums. This custom key avoids a general reconfiguration at the beginning of each game.



If you take advantage of “No encryption” or “Fixed AES 128 key” settings to add further terminals after completing previously a “Quick Config.” always make sure:

- To have only one MASTER Role terminal in the conference (only one terminal with purple antenna icon)
- To have only one Central REF in the conference (only one terminal with whistle icon)

6.2.3. Software

This menu is used to update the software versions of the terminals. Contact our support or your VOKKERO dealer to obtain the most recent software version.

Update the terminal

To update terminals you have to use a USB key. The USB key used must be < or = 4Go.

On the USB key:

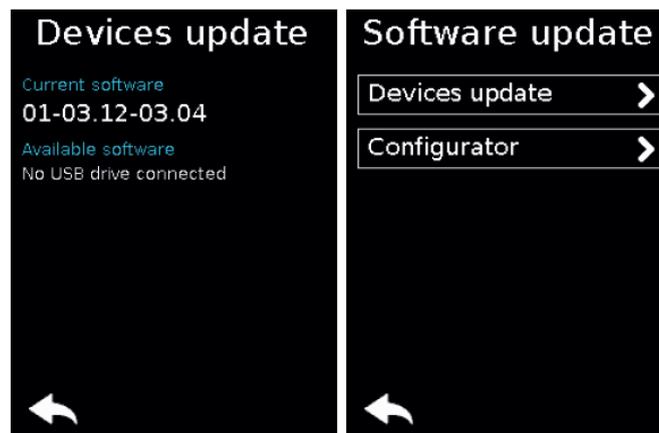
- Copy the update software to the root
- The files mustn't be in a folder
- No others files or folder have to be on the USB key

The version currently installed in the terminal appear on the display.

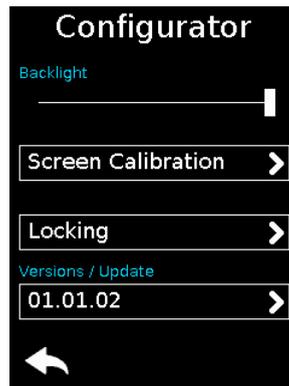
To configure a new software version on the terminals:

- Once the USB key ready, insert it into the dedicated USB port, situated on the left located on the left side of the configurator.
- 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.
- Then, click to launch the installation.
- The update of the terminals is launched
- The update is finished

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



6.3. Configurator



6.3.1. Backlight

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

6.3.2. Screen calibration

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.

6.3.3. Locking

Allows you to block access to the configurator using a PIN code.

In Lock mode, only the «Quick Configuration» menu 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).

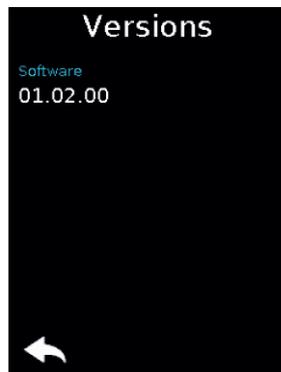
6.3.4. Versions / Software

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 configurator
5. Confirm
6. The configurator parameters have been reseted



Update the configurator

To update the configurator you have to use a USB key. 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

The version currently installed in the configurator appear on the display. To configure a new software version on the configurator:

- Once the USB key ready, insert it into the dedicated USB port, situated on the left located on the left side of the configurator.
- Once the USB key connected, the available software version is displayed. (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.
- Then, click to launch the installation.
- The update of the configurator is launched.

- The update is finished.
-

DOCUMENT HISTORY

Version	Contents
V1.0	Creation
V1.1	Revision
V1.2	Revision
V1.3	Revision
V1.4	Custom key



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