🚀 **Release:** We have released version **5.2.2**, please check out the release notes (software, firmware) for more details.

The WBPX Wireless Beltpack X

The Green-GO WBPX Beltpack X provides direct access to up to 32 high quality, low latency channels via a full-color OLED display; indicating the name, volume level, and status of a channel. With 4 associated push-buttons, controlling each channel's screen features; Talk, Listen or Call depending on which function is selected. Two rotary multifunction encoders are located symmetrically on either side of the beltpack, making it suitable for left- and right-handed users. The device's buttons and display functions can be configured and provide direct access to up to four channels, with further channels accessible within an extended menu.

Audio is presented through a XLR4M HEADSET connector (handset not included), receiving its power via an 1800 mAh lithium-ion battery pack NRGP. Chargeable from an integrated mini-B USB 2.0 port or BC6 Battery Charger.

Sharing most features with its BPX Beltpack X siblings, making the switch between wired and wireless devices easy. If you need bigger buttons and a little bit more weather protection, check out the sports version; available as wired and wireless versions.

What's in the box?

The Green-GO WBPX wireless Beltpack X comes with the following package contents:

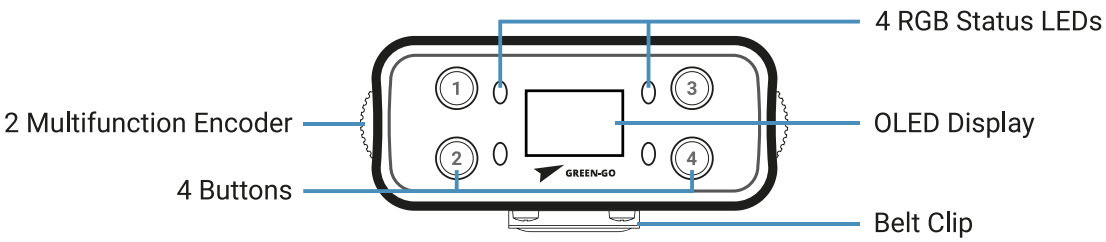
- 1 x Green-GO WBPX wireless Beltpack X
- 1 x Green-GO NRGP lithium-ion battery pack (1800 mAh)
- 1 x Universal USB power supply (CEE7/16, NEMA-1, BS-1363, AS-3112)
- 1 x Printed quickstart guide

Optional Green-GO accessories

- Green-GO HS200S single ear & HS200D dual ear headset
- Green-GO NRGP lithium-ion battery pack (1800 mAh)
- Green-GO BC6 battery charger
- Green-GO PoE network switches

Device overview

Front panel



2 Multifunction Encoders

The `Encoder Left` and `Encoder Right` allow for rotation and clicks. The encoders primary use is adjusting volumes, navigating the setup menu, and more.

4 Buttons

The four `Buttons` are primarily used to operate a channel. The function of buttons can vary, depending on context.

4 RGB Status LED

The device or channel status is presented by four powerful RGB LEDs.

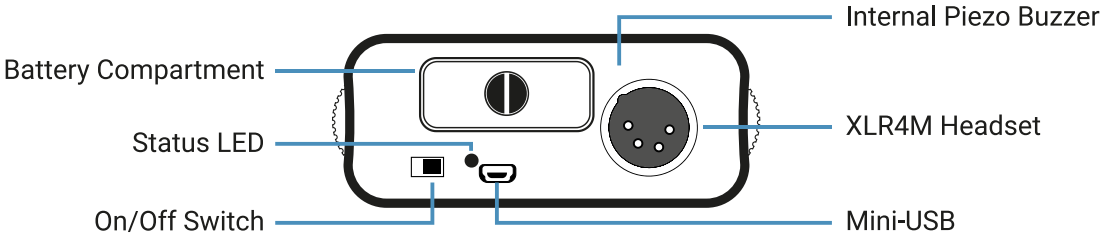
1 OLED Display

The high contrast, color OLED display presents channel and device information clearly but compactly.

1 Belt Clip

A robust spring-steel belt clip secures the beltpack on your belt or clothing.

Back panel



1 Battery Compartment

The battery compartment holds the Green-GO NRGP lithium-ion battery pack. The battery is locked into place by turning the knob to the upright position.

1 Status LED

The status LED provides information about the charging state of the battery. A green LED indicates a fully charged battery.

1 On/Off switch

The on/off switch is primarily used to power the device on or off. If configured, the on/off switch can be used to manually trigger a switch of antennas (roaming). This function is called `Force Reconnect` and applies to Xpool connections only.

1 Internal Piezo Buzzer

The internal piezo buzzer can transmit incomming alarm signals like the alert call or cue signals.

1 Neutrik XLR4-Male headset connector

It's possible to connect any headset to the XLR4M headset connector. The built-in amplifier supports an impedance range from 32 Ω to 600 Ω.

1 Mini-USB

The mini USB connector can be used to charge, program, or update the device.

The user interface

The user interface of the wireless WBPX Beltpack X is configurable and allows direct access and control over up to four channels.

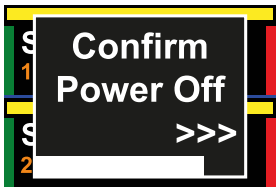
The four buttons and status LED provide easy access to multiple functions, depending on the device's configuration. Two multifunction encoders on each side of the device allow you to navigate menus and control various functions.

> **Tip:** Please check our quickstart guide to find a detailed description on *how to use* this device in a Green-GO system.
>
> Check out our guide on the Wireless X system to find out more about *how to connect* your wireless beltpack(s) to the Green-GO WAA wireless antenna.

Power the device on or off

Before powering your device, check that the battery is locked into the compartment: The latch of the battery should be in a *vertical position*.

To power on your Green-GO WBPX wireless Beltpack X, you need to pull the on/off switch on the bottom of the device.

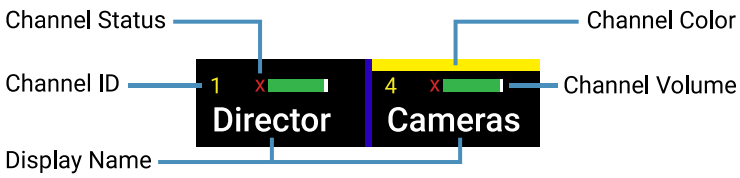


The power-down of the device always needs to be confirmed by pressing ● `Button 4` while holding the on/off switch.

If the user does not confirm the power-down, the device will not shut down.

Channel display & status

The color OLED display shows information about the user's channels and communication states.



Channel Status

The red `X` indicates that the Green-GO Engine can't reach any remote device for the configured channel target.

Channel ID

This shows the ID of the channel. Usually, a user has access to channels 1 through 32.

Display Name

The name or display name of the channel target (user or group).

Channel Color

The channel color is defined by the channel target (user or group).

Channel Volume

The current channel volume level.

Channel status colors

With the *factory default* settings, the status LEDs signal the channel status as follows:

Color	State	Status	Description
🔵	Solid	Free	The channel has no communication target assigned.
🔵	Solid	No Member	No remote device or user is available on this channel.
🔵	Solid	Idle	The channel is assigned and idle.
🔵	Solid	Active	A remote user or device has activated the channel talk but is not transmitting audio.
🟡	Solid	Active VOX	The channel is *receiving* vox communication.
🟡	Blinking	Active Muted	The channel is *muted* but also *receiving* vox communication.
🟢	Solid	Talk	The channel has been *manually opened* and will transmit any audio from the active input.
🟢	Solid	Autotalk	The channel has been *automatically opened* and will transmit any audio from the active input.
🔴	Solid	Call	The channel received a short call signal.
🔴	Blinking	Alert Call	The channel is receiving or sending an *alert* call signal.
🟡	Blinking	Cue Attention	The channel is receiving or sending a cue *attention* signal.
🟢	Solid	Cue GO	The channel is receiving or sending a cue *GO* signal.

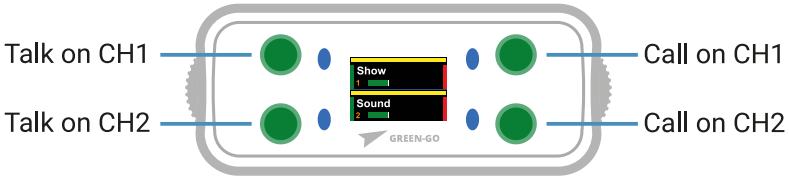
Color	State	Status	Description
●	Solid	GPIO Control	The channel is transmitting a GPIO Control signal.

UI modes

The user interface of the Green-GO WBPX wireless Beltpack X is configurable and allows direct access and control over up to four channels.

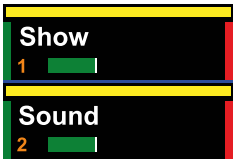
Depending on the configuration, the display structure and functions of the `● Buttons` and status LED change:

2-Channel UI



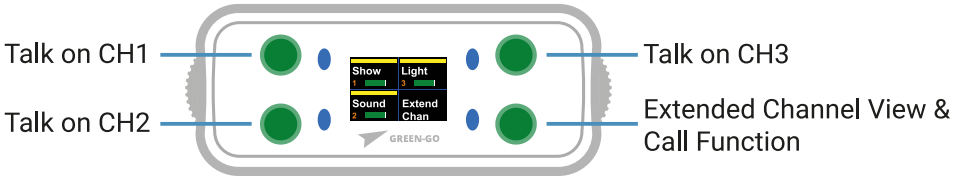
The 2-channel mode provides *comfortable* access to the user's first two channels.

The two buttons next to each channel either enable the ● talk or ● call function.



The status LED next to each button indicates the respective channel states.

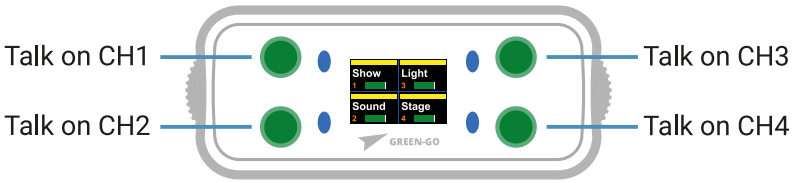
3-Channel UI



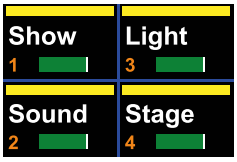
The 3-channel mode is the most *versatile* mode available. It provides direct access to the ● talk function now of the user's first three channels.

The `● Button 4` has two functions. Primarily, it gives direct access to the extended channel view. However, its function changes to the ● call function as soon as any of the three channels have the the ● talk function activated. This enables the user to directly send a call sign to any currently active channel.

4-Channel UI



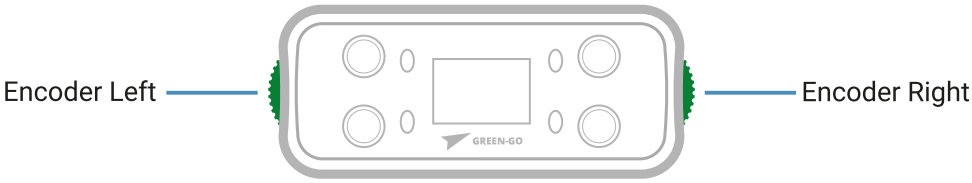
The 4-channel mode provides a direct access to the user's first four channels. Each `● Button` is linked to the ● talk function of a channel.



Other functions like the call function are available in the extended channel view.

Encoder assignments

The `◀ Encoder Left` and `▶ Encoder Right` can be *rotated* and *clicked* (pulled towards the display). These actions are used to control volumes, and menus, answer voice communications, or switch screens.

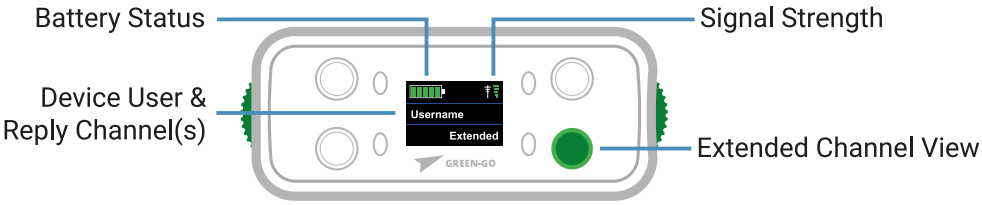


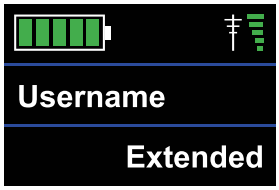
The *click* is always used to either answer an incoming voice communication or to acknowledge a selection or function. The action of both encoder's *rotation* is configurable in the `Device` setup menu:

- **Main Volume**: Rotate to control the device's main level.
- **Program Audio**: Rotate to control the volume of the program audio channel.
- **Sidetone**: Rotate to control the volume of the side tone.

With the device's *default configuration*, both `✱ Encoder` rotations control the device's main level.

Status screen

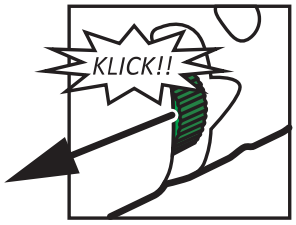




The status screen primarily gives access to the extended channel view on the bottom row by pressing `● Button 4`. The middle row shows the device's user.

The top row shows important device information like the current battery level and signal strength.

The status screen can be called up by *clicking* either the `Encoder Left` or `Encoder Right` (pulled towards the display).

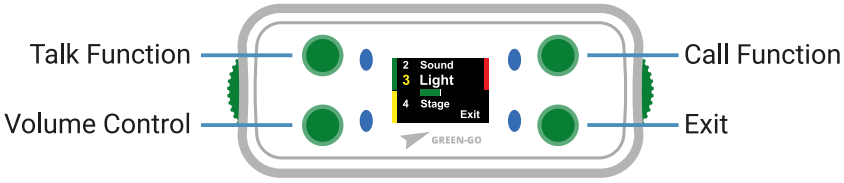


The extended channel view can be accessed by pressing `● Button 4` while holding the `✱ Encoder`.

The status information in the middle of the screen shows the user of the device. However, should the user view the status screen while receiving voice communications on any channel (answering voice communications), the status section in the middle of the screen will display the activated channel(s).

Extended channel view

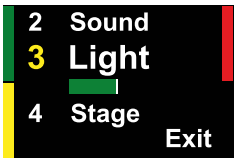
The extended channel view gives full control over all 32 channels. It can be accessed either by pressing `● Button 4` using the *3-channel* UI-mode or viewing the status screen.



The four `● Buttons` adjust their functions according to the color indicators:

- `● Button 1` enables the talk function.
- `● Button 2` allows for channel volume control together with either `✱ Encoder`.
- `● Button 3` enables the call function.
- `● Button 4` exits the extended channel view.

Rotating one of either `✱ Encoder` will scroll through the channel list. The channel shown in the middle of the display is the current selection. This is indicated by the volume level beneath the channel name and by the colored channel number.



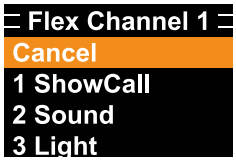
In the extended channel view, only one channel can be controlled at once. It is, however, possible to enable the talk function on multiple channels.

Channel states set in the extended channel view get cleared when exiting.

The channel Flexlist

The Flexlist is a new UI concept introduced with Green-GO 5.

The function essentially enables the user to quickly change a channel's communication target to a set of 20 pre-defined destinations (users and groups). This allows comfortable and easy control over more channels on devices with limited user interfaces, like this beltpack.



The Flexlist items can be added and configured either directly in a device's `User Settings` setup menu or with the help of the software.

The Flexlist is enabled on a per-channel basis by configuring a channel's `Channel Mode` to `Flex`. Doing so on multiple channels gives independent access to the same Flexlist.

Setup Menu Guide

Configure a device's Flexlist

```
Setup Menu
└──> User
    └──> Settings
        ├──> ...
        └──> Flexlist # (1)!
            ├──> ...
            └──> - Add - # (2)!
```

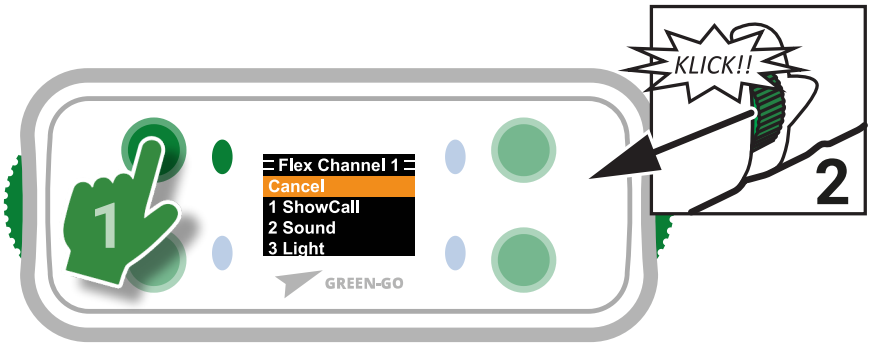
1. This setting allows configuring the device's Flexlist.
2. Up to 20 items can be added to the device's Flexlist. Existing items can be removed by selecting them and chosing the option `None`.

Configure a channel's mode to `Flex`

```
Setup Menu
└──> User
    └──> Channels
        └──> CH #
            ├──> ...
            └──> Channel Mode: Flex # (1)!
```

1. The Flexlist becomes available as soon as a channel's mode is set to `Flex`.

Changing a channel's destination



Changing a channel's destination with the Flexlist is done by pressing a one-handed button combination:

1. Activate the channel's talk function by pressing its `● Button`.
2. Click one of either `◀ Encoder Left` or `▶ Encoder Right` towards the display.

This brings up the Flexlist selection menu. The list can be scrolled with the encoders. A new channel destination is chosen by either clicking the `✱ Encoder` or pressing `● Button 1`.

> ⚠ **Warning:** Please be aware that muting a channel with `Channel Mode: Flex` can't be directly muted. Muting these channels can only be done through the extended channel view.

Pairing your beltpack

The Green-GO WBPX wireless Beltpack X connects over DECT to a Green-GO WAA wireless antenna. As per the DECT specification, both connection partners need to authenticate against each other. This process is generally referred to as *pairing*.

With Green-GO 5 the configuration of your wireless DECT pairings has been redesigned. We now distinctly distinguish between *ad-hock over-the-air* pairings and X-Pool connections. These pairings are done in pools, each containing up to four wireless beltpacks.

It is possible to have multiple pools of different types in one Green-GO system. However, all pools share the same DECT frequency space. Therefore the amount of possible connections is limited and influenced by the local environment.

> 💡 **Tip:** Please check our guidance on how to estimate what is possible in your location.

The *ad-hock over-the-air* pools are configured and managed exclusively on the devices themselves. Meaning, adding or removing devices from the software is not possible. Also, roaming is **not supported** using this mode.

The X-Pool connections are set up by connecting the beltpack via USB to the Green-GO Control software and features roaming between up to 7 antennas.

> ⚠ **Attention:** This device documentation only covers the *ad-hock over-the-air pairings*. Please check out our guide on wireless connections to learn more about the X-Pool pairings.

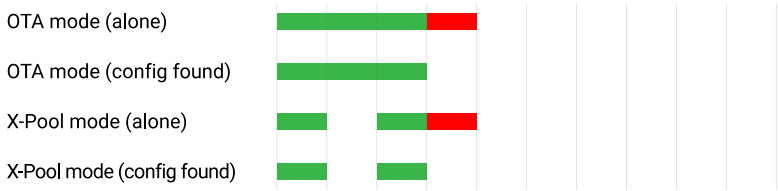
Device preparations

It is advised to clear the DECT module of **all** involved devices before you start configuring your pairings. Clearing the module will remove all existing pairings and reset all active connections.

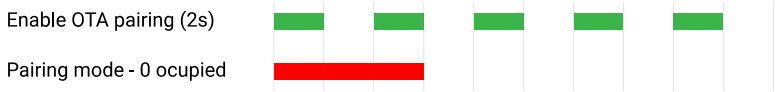
Reset an antenna's DECT module

Please follow these steps to clear the DECT module of your WAA antenna:

1. When powered up, your WAA wireless antenna will indicate its current status with the status LED. The sequence shown below may be followed by a short red flash, indicating no configuration members could be found on the local network.



2. Press the ● Button on the bottom of the device for approximately two seconds. The status LED will quickly blink green and switch to a slow red flash to indicate an enabled pairing mode.



3. Press and hold the ● Button for approximately ten seconds to start the reset of the DECT module. While beginning the clearing process, the status LED will flash red with medium frequency. Once the process has been initialized, the status LED will change its pattern to a short green flash followed by a very long red flash.

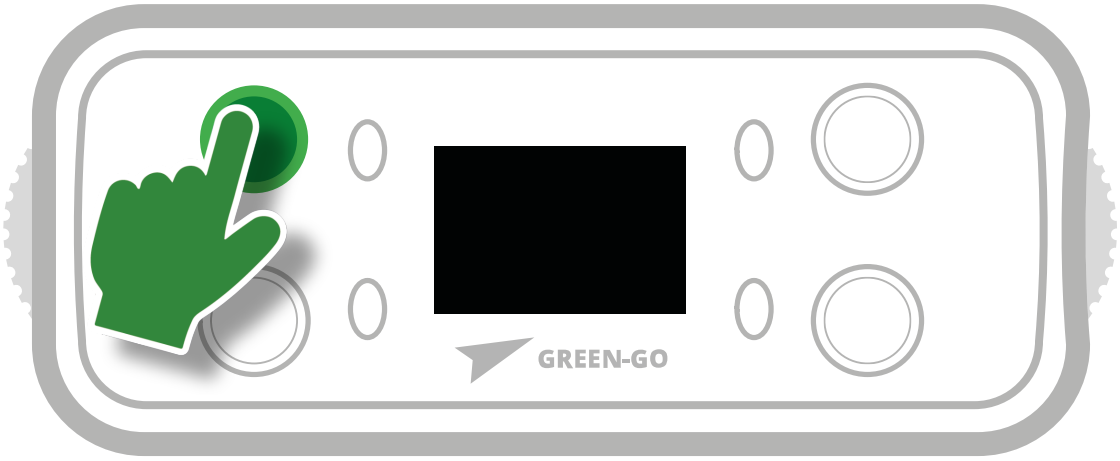
4. Release the ● Button.
5. The reset will take approximately 20 seconds to complete. After the reset has been finished, the pattern of the status LED will return to the OTA status.

Reset a beltpack's DECT module

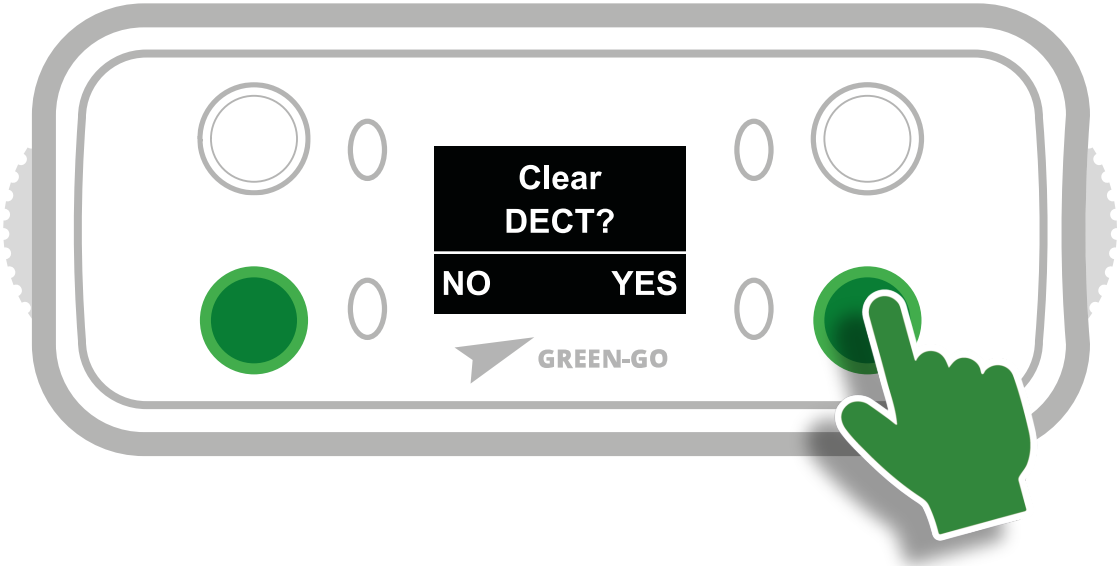
It is always a good idea to reset the DECT module and clear your wireless beltpack's pairing before connecting it.

With a Green-GO WBPX or WBPXSP beltpack, there are two ways to do this:

1. Directly on device boot



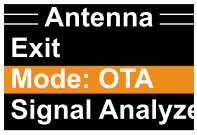
Starting with firmware version 5.1.0, a Green-GO WBPX or WBPXSP beltpack can be instructed to clear its DECT module on boot by pressing and holding the top-left `● Button` while powering on the device.



Doing so will start the device with a screen asking the user if the DECT module should be cleared. Pressing the bottom-left `● Button` (`NO`) will *cancel* the operation, and pressing the bottom-right `● Button` (`YES`) will continue, removing the paring and *resetting* the module.

2. Via the setup menu

You can clear the pairing of a client's DECT module via the `DECT` setup menu.



A `Mode` entry will be at the top of the menu if an existing pairing is present. Enter the respective Mode submenu and select the `Clear Pairing` function to remove the pairing.

Afterward, remember to exit the setup menu.

Setup Menu Guide

```
Setup Menu
└──> DECT
    └──> Mode: <Pool Mode> ❶
        ├──> ...
        └──> Clear Pairing ❷
```

1. This submenu either reads `Mode: OTA` (over-the-air), `Mode: X-Pool` or `Mode: Stride Pool`, depending on the pairing type currently used by the device.
2. The `Clear Pairing` function removes any pairing configuration from the DECT module.

Configure an OTA pairing

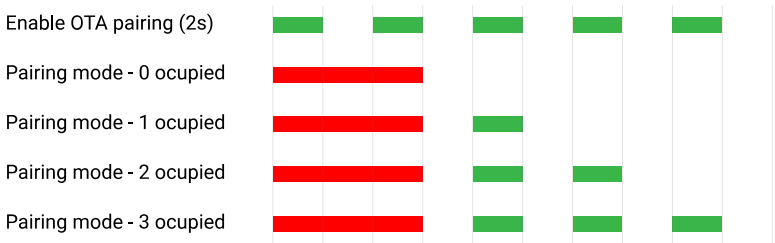
The pairing of devices is done in sequence, meaning you can only pair one device at a time.

Notice: The over-the-air pairing method doesn't allow deleting or overriding single pairings. The only way to clear a pairing on an antenna is by resetting its DECT module; this, in turn, disconnects all connected devices and removes all pairings.

Enable pairing mode on the antenna

Before you can pair a wireless device, you need to enable the pairing mode on the Green-GO WAA wireless antenna. You do this by pressing the `Button` for approximately two seconds.

The status LED will quickly blink green five times and switch to a slow red flash to indicate an enabled pairing mode.



With the pairing mode enabled, the status LED will indicate the current slot ID being set up by flashing the status LED green.

Pairing not possible

An antenna with all four available slots occupied or configured in X-Pool mode will refuse to enter pairing mode and indicate this by a medium alternating red/green flash.

Pair the beltpack

Next, you can start the pairing on the wireless beltpack by navigating to the `DECT` setup menu. Here, you can start the pairing by selecting `Pair Antenna`. If this entry is missing, the beltpack is already connected to an antenna - in this case, you should reset the DECT module.

A popup on the beltpack will inform the user about the pairing status.

Setup Menu Guide

```
Setup Menu
└──> DECT
    └──> Pair Antenna
        └──> Start AntX Pairing
```

Charging the battery

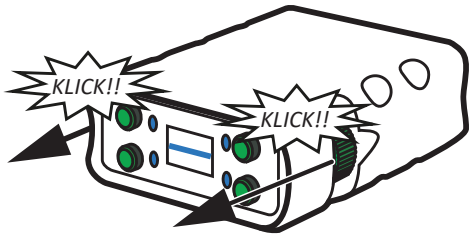
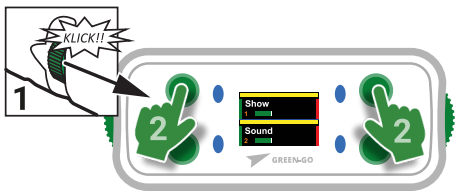
It is possible to charge the NRGP lithium-ion battery pack by connecting the universal USB power supply to the mini-USB connector. Alternatively, you can use the Green-GO BC6 battery charger to charge up to 6 battery packs at once.

Also, it is possible to extend the battery life by connecting an external 5V USB power pack to the beltpack.

The setup menu

The setup menu allows *local* access to almost all user and device configuration properties. All changes in the setup menu are done and stored locally on the device but can be easily synced back into the configuration file using the Green-GO Control software. These settings are also persistent on the device unless overwritten.

The wireless WBPX Beltpack X features two methods to access the setup menu:

Method A	Method B
	
Pull the `Encoder Left` + `Encoder Right` up towards the display.	Press `Button 1` + `Button 3` after pulling and holding either the `Encoder Left` or `Encoder Right` up towards the display.

Navigating the setup menu is primarily done by the *rotation* and *click* of the `Encoder Left` or `Encoder Right`

- The `Encoder` *rotation* moves a selection or changes a selected value.
- A *click* of the `Encoder` or `Button 1` enters submenus and allows to change values.
- A submenu can be exited either with the menu entry `Exit` or `Cancel`, or alternatively with a *click* of the `Button 2` button.

Access to the setup menu can be restricted by configuring the security options of a configuration file or user with the help of the Green-GO Control software. For example, the user may be asked to enter the `Tech Pincode` before access is given to submenus depeding on security configurations.

Setup Menu Guide

```
Setup Menu
├──> User
│     ├──> Select User
│     ├──> Channels
│     │     └──> # channel ID
│     │          ├──> Assign
│     │          ├──> Listen Override
│     │          ├──> Listen
│     │          ├──> Level
│     │          ├──> Talk Mode
│     │          ├──> Priority
│     │          ├──> Listen Mode
│     │          ├──> Call Mode
│     │          ├──> Cue Mode
│     │          └──> Channel Mode
│     ├──> Special Channels
│     │     ├──> Direct
│     │     ├──> Program Audio
│     │     ├──> Announce
│     │     └──> Emergency
│     ├──> Flexlist
│     │     ├──> ...
│     │     └──> Add
│     ├──> Settings
│     │     ├──> Active Time
│     │     ├──> Reply Mode
│     │     ├──> Isolate
│     │     ├──> Tone Level
│     │     ├──> Alert Tone
│     │     ├──> Room
│     │     ├──> Room Dim
│     │     ├──> Room Output
```

User

The `User` submenu holds settings for user-relevant configuration like:

- The user that is linked to the device.
- The channel configuration.
- Configuration for the four special channels.
- The user's Flexlist.
- General user settings (color, communication settings, etc.).
- Script management.

Select User

AVAILABLE USERS

This menu lists all available users of the active configuration file.

Setup menu:	User ▸ Select User
Option range:	Defined by configuration file
Default:	*Unset*

Channels

Channel 1 – 32

The following is available for each of the 32 channels.

ASSIGN

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration file's available groups and users.

Setup menu:	User ▸ Channels ▸ ID ▸ Assign
Option range:	None, Groups, Users
Default:	*Unset*

LISTEN OVERRIDE

This option allows defining a separate listen source for the channel. The user talks to the primary target assigned but listens to the group defined here.

The primary use case allows for commando communications to several recipients while keeping possible feedback private (1 follow-spot caller, multiple follow-spot operators).

Setup menu:	User ▸ Channels ▸ ID ▸ Listen Override
Option range:	None, Groups
Default:	*Unset*

LISTEN

A channel can be enabled or muted independently from the set channel `Level`. The `Listen` state of the channel can be easily toggled on or off without losing the set channel level.

This option may be influenced by the `Listen Mode`.

Setup menu:	User ▸ Channels ▸ ID ▸ Listen
Option range:	Muted, On
Default:	On

LEVEL

This option defines the output level for the channel.

Setup menu:	User ▸ Channels ▸ ID ▸ Level
Option range:	-40 dB – +12 dB (1 dB increments)
Default:	0 dB

TALK MODE

The `Talk Mode` defines how a channel can be activated for vox communications with the talk button.

Mode	Description
Disabled	This option disables the talk function on the channel.
Momentary	This option allows for a push-to-talk style of operation.
Latch	This option acts as a toggle: The first press enables talk, the second press disables talk.
Latch/Mom	This option allows for a mixed operation. Short presses act as a latch toggle, and long button presses allow for momentary communication.

Setup menu:	User ▸ Channels ▸ ID ▸ Talk Mode
Option range:	Disabled, Momentary, Latch, Latch/Mom
Default:	Latch/Mom

PRIORITY

A channel can be configured with one of three priorities. For example, when a higher priority channel transmits, communication with lower priority can be attenuated (Priority Dim).

Setup menu:	User ▸ Channels ▸ ID ▸ Priority
Option range:	Low, Normal, High
Default:	Normal

LISTEN MODE

The `Listen` state defines a muted or unmuted channel. The `Listen Mode` options define if and how the channel's listen state is toggled.

Mode	Description
Listen On Talk	This mode enables the `Listen` state of the channel (unmutes), as soon as the ● talk is active on the channel. Disabling talk on the channel will disable the `Listen` state again (mute).
No Listen On Talk	An active talk doesn't affect the `Listen` state of the channel, but the channel respects the `Isolate` function.
Ignore Isolate	This mode ignores the `Isolate` function.
Fixed	This mode doesn't change the `Listen` state.

Setup menu:	User ▸ Channels ▸ ID ▸ Listen Mode
Option range:	Listen On Talk, No Listen On Talk, Isolate Ignore, Fixed
Default:	Listen On Talk

CALL MODE

This option defines if call signals can be sent and/or received on the channel.

Mode	Description
Disabled	This option disables all call signals on the channel.
Recv Only	Call signals can be received on the channel.
Send Only	Call signals can be sent to the channel.
Send/Recv	This mode enables the sending and receiving of call signals on the channel.

Setup menu:	User ▸ Channels ▸ ID ▸ Call Mode
Option range:	Disabled, Recv Only, Send Only, Send/Recv
Default:	Send/Recv

CUE MODE

The `Cue Mode` defines how an incomming cue signal is handled.

Mode	Description
Normal	This option allows for a three-staged cue signal with a manual ready reply.
Auto Answer	This option automatically answers incomming cue signals on this channel, reducing the effective stages to ready and go.
Ignore	This option ignores incomming cue signals. Cue signals sent may be answered by other devices.

Setup menu:	User ▸ Channels ▸ ID ▸ Cue Mode
Option range:	Normal, Auto Answer, Ignore
Default:	Normal

CHANNEL MODE

The `Channel Mode` allows for simple automation that enables complex channel configurations. Things like automatic replies and GPIO control can be configured here.

Mode	Description
Normal	This is the default setting. The channel takes no action when voice communication is received.
No Reply	This option disables the `Answer/Reply` function on the channel.
Reply Direct	With this option set, the `Answer/Reply` function will only reply to the last active member of a group.
Auto Reply	This option automatically activates the talk function on the channel as soon as voice communication is received.

Mode	Description
Autotalk	This option automatically opens the channel as soon as the enabled input becomes active.
Solo Talk	This option automatically disables the talk function on any other channel when the talk function of the channel itself is set to active.
Flex	This option enables the user's Flexlist on the channel and allows for a quick channel destination change. The Flexlist is called by *pressing* a channel `● Button` and *pulling up* either `◀ Encoder Left` or `▶ Encoder Right`.
GPIO Control	This sends a special GPIO control data packet on the channel and disables the talk function for the channel.

Setup menu:	User ▸ Channels ▸ ID ▸ Channel Mode
Option range:	Normal, No Reply, Reply Direct, Auto Reply, Autotalk, Solo Talk, Flex, GPIO Control
Default:	Normal

Special Channels

Each user has, in addition to the 32 normal channels, four additional *special channels*.

- The temporary duplex channel for private communications.
- The passive program audio channel.
- The passive annoucements channel.
- The passive emergency channel.

Direct

The direct channel is temporary and functions bi-directional.

The channel gets created as soon as any remote user who isn't configured on any of the 32 channels *contacts* the user linked to this device (voice communication, call signal, cue signal).

LEVEL

This option defines the output level for the channel.

Setup menu:	User ▸ Special Channels ▸ Direct ▸ Level
Option range:	Mute, -40 dB – +12 dB (1 dB increments)
Default:	0 dB

PRIORITY

A channel can be configured with one of three priorities. For example, when a higher priority channel transmits, communication with lower priority can be attenuated (Priority Dim).

Setup menu:	User ▸ Special Channels ▸ Direct ▸ Priority
Option range:	Low, Normal, High
Default:	Normal

CUE MODE

The `Cue Mode` defines how an incomming cue signal is handled.

Mode	Description
Normal	This option allows for a three-staged cue signal with a manual ready reply.
Auto Answer	This option automatically answers incomming cue signals on this channel, reducing the effective stages to ready and go.
Ignore	This option ignores incomming cue signals. Cue signals sent may be answered by other devices.

Setup menu:	User ▸ Special Channels ▸ Direct ▸ Cue Mode
Option range:	Normal, Auto Answer, Ignore
Default:	Normal

Program

The channel for program audio is passive (listen-only), meaning the user can only receive audio on this channel. The channel receives audio through a group, has independent volume control, and supports dimming when the user receives an audio signal on any of his 32 regular channels.

ASSIGN

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration file's available groups and users.

Setup menu:	User ▸ Special Channels ▸ Program ▸ Assign
Option range:	None, Groups
Default:	None

LEVEL

This option defines the output level for the channel.

Setup menu:	User ▸ Special Channels ▸ Program ▸ Level
Option range:	Mute, -40 dB – +12 dB (1 dB increments)
Default:	0 dB

DIM

The program audio channel can automatically attenuate as soon as any of the other channels is active.

Setup menu:	User ▸ Special Channels ▸ Program ▸ Dim
Option range:	Mute, -24 dB – -6 dB, Off (6 dB increments)
Default:	Off

Announce

The announcement channel is a passive channel *(listen-only)* that transmits with a higher priority as regular channels. Incoming audio transmissions on this channel can attenuate communication on any of the regular channels, depending on the `Priority Dim` setting.

The announcement channel receives its audio through a group. To send audio to this channel, the configured group needs to be assigned to one of the 32 regular channels of a user.

> ⚠ **Warning:** Please configure talking access to the source group of the announcement channel carefully, as any communication through the group may interrupt ongoing user communication.

ASSIGN

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration file's available groups and users.

Setup menu:	User ▸ Special Channels ▸ Announce ▸ Assign
Option range:	None, Groups
Default:	None

LEVEL

This option defines the output level for the channel.

Setup menu:	User ▸ Special Channels ▸ Announce ▸ Level
Option range:	Mute, -40 dB – +12 dB (1 dB increments)
Default:	0 dB

Emergency

The emergency channel is a passive channel *(listen-only)* that transmits with the highest priority. Incoming audio transmissions on this channel will mute any communication on any of the 32 regular channels.

The emergency channel receives its audio through a group. To send audio to this channel, the configured group needs to be assigned to one of the 32 regular channels of a user.

> ⚠ **Warning:** Please configure talking access to the source group of the emergency channel carefully, as any communication through the group may interrupt ongoing user communication.

ASSIGN

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration file's available groups and users.

Setup menu:	User ▸ Special Channels ▸ Emergency ▸ Assign
Option range:	None, Groups
Default:	None

LEVEL

This option defines the output level for the channel.

Setup menu:	User ▸ Special Channels ▸ Emergency ▸ Level
Option range:	Mute, -40 dB – +12 dB (1 dB increments)
Default:	0 dB

Flexlist

This menu allows customizing the user's `Flexlist`.

ADD

The entry `- Add -` at the bottom of the menu allows you to add up to 20 users or groups. Selecting an existing assignment enables one to change or remove it.

Setup menu:	User ▸ Settings ▸ Flexlist
Option range:	Add, Flexlist entries
Default:	*Unset*

Settings

The user settings configure global communication functions. These settings affect communication on all channels and are not adjustable on a per-channel basis.

ACTIVE TIME

The `Active Time` defines a delay that keeps the channel active after the last voice transmission has been received. The main use for this is to give users a chance to identify the transmitting channel before it goes inactive again.

> ⚠ **Warning:** This setting directly influences some functions on a Green-GO engine like `Answer/Reply` by setting the state `Answer` to active.

Setup menu:	User ▸ Settings ▸ Active Time
Option range:	0.5 sec, 1 sec, 2 sec, 5 sec, 30 sec, 60 sec, 120 sec
Default:	5 seconds

REPLY MODE

The `Reply Mode` defines the behavior of the `Answer/Reply` function.

Mode	Description
Disabled	This option disables the `Answer/Reply` function.
Active	This option enables the `Answer/Reply` function to answer all currently ongoing voice communication.

Mode	Description
Last	This option enables the `Answer/Reply` function to only answer the last incoming transmission.

Setup menu:	User ▸ Settings ▸ Reply Mode
Option range:	Disabled, Active, Last
Default:	Last

ISOLATE

This function mutes all channels that do not have an ● *active talk* enabled. Channels will be unmuted as soon as no channel has the talk function enabled.

This function is helpful to control incoming audio in hectic systems. It limits the received audio to active user communications.

Setup menu:	User ▸ Settings ▸ Isolate
Option range:	Disabled, Enabled
Default:	Disabled

TONE LEVEL

The `Tone Level` defines the loudness for all alarm signals like cue signals and the `Alert Call`.

Setup menu:	User ▸ Settings ▸ Tone Level
Option range:	Mute, -24 dB – 0 dB (6 dB increments)
Default:	-12 dB

ALERT TONE

This settings defines the alarm signal type for things like `Alert Call` or cue signals.

Setup menu:	User ▸ Settings ▸ Alert Tone
Option range:	Fast, Slow, Pulse
Default:	Fast

ROOM

This setting assigns a user to a room, available in the configuration file.

Setup menu:	User ▸ Settings ▸ Room
Option range:	None, Available Rooms
Default:	*Unset*

ROOM DIM

The `Room Dim` option configures if and how the audio signals from the configured room should be attenuated. The output affected by this setting is defined by the option `Room Output`.

Setup menu:	User ▸ Settings ▸ Room Dim
Option range:	Mute, -24db – -6 dB (6 dB increments), Off
Default:	Off

ROOM OUTPUT

The option `Room Output` defines the hardware output on which audio signals from the configured room will be attenuated. The attenuation itself is configured by the setting `Room Dim`.

Setup menu:	User ▸ Settings ▸ Room Output
Option range:	Both, 1, 2
Default:	Both

PRIORITY DIM

The property `Priority Dim` defines the amount channels with lower priority that get attenuated as soon as audio is transmitted on higher priority channels. Each of the 32 generic channels can have one of three priorities.

Activating this setting and defining channel priorities will help to manage user stations with high communication traffic.

> ⚠ **Warning:** This setting does not affect the behavior of the special channels `Emergency` or `Program Audio`.

Setup menu:	User ▸ Settings ▸ Priority Dim
Option range:	Mute, -24 dB – -6 dB (6 dB increments), Off
Default:	Off

POPUP

This setting defines if and what popups are shown to the user.

Mode	Description
System Only	This is the bare minimum. System popups for system events like joining a configuration, etc., will always be shown.
Cue	This option will show popups for system notifications and incoming cue signals.
Cue+Direct	This option enables popups for system events, cue signals, and communications on the special channel for temporary direct communication.
Cue/Direct/Extended	This option enables popups for system events, cue signals, direct channel communications, and communications on channels that are not directly available through the UI (hidden).

Setup menu:	User ▸ Settings ▸ Popup
Option range:	System Only, Cue, Cue+Direct, Cue/Direct/Extended
Default:	Cue/Direct/Extended

CUE TIMEOUT

This setting defines the *hold-time* for an outgoing GO cue signal.

Setup menu:	User ▸ Settings ▸ Cue Timeout
Option range:	0.5 sec, 1 sec, 2 sec, 5 sec, 30 sec, 60 sec, 120 sec
Default:	5 sec

Script

Loaded Script

This menu shows the currently loaded script and allows to load any script stored in the configuration.

AVAILABLE SCRIPTS

This submenu is available by clicking on the currently loaded script and lists all scripts stored in the configuration file.

Setup menu:	User ▸ Scripts ▸ Script Name
Option range:	Available scripts
Default:	*Unset*

Status

This property shows the current status of the currently loaded script.

Audio

The `Audio` submenu holds all settings relevant for the user's audio input and outputs.

On a Green-GO beltpack, only one audio profile is available. The audio profile stores all settings relevant to the user's audio input and output(s).

SIDETONE

The property `Sidetone` configures the amount of the user's input fed back into its headset output(s). When activated, the sidetone is never routed to a device's front speaker to prevent signal feedback.

Setup menu:	Audio ▸ Audio Profile ▸ Sidetone
Option range:	Mute, -40 dB – 0 dB (1 dB increments)
Default:	0 dB

GAIN

The input `Gain` configures the amplification of the input signal. The range of this setting depends on the input source chosen.

Setup menu:	Audio ▸ Audio Profile ▸ Gain
Option range:	Headset: +30 dB – +60 dB (1 dB increments)
Default:	none

COMPRESSOR

This is a simple `Compressor` that can be enabled with this setting. It reduces the dynamic range of the input signal by attenuating the louder parts of the signal, making it less likely to transmit distorted audio. When this setting is enabled, the timings of the compressor can be adjusted.

Setup menu:	Audio ▸ Audio Profile ▸ Compressor
Option range:	Off, Fast, Med, Slow
Default:	Med

GATE THRESHOLD

The option `Gate Threshold` defines the threshold for the noise-gate to *open* the microphone. Audio signals below the configured threshold will be cut out and not transmitted.

Setup menu:	Audio ▸ Audio Profile ▸ Gate Threshold
Option range:	-50 dB – -25 dB (5 dB increments), Off
Default:	-50 dB

GATE HOLD

The property `Gate Hold` defines the hold time after which the noise-gate *closes* again after being activated once.

Setup menu:	Audio ▸ Audio Profile ▸ Gate Hold
Option range:	Short, Medium, Long, Xlong
Default:	Medium

SOURCE

The menu `Source` allows selecting one of the device's audio inputs or a *test tone* as the user's input source.

Setup menu:	Audio ▸ Audio Profile ▸ Source
Option range:	Headset, 375Hz, 1kHz, 1.2kHz, 2.5kHz
Default:	Headset

HEADSET BIAS

The option `Headset Bias` allows to supply up to 2.5 V of power to an electret or condenser microphone on a headset connected to the XLR4 connector.

Setup menu:	Audio ▸ Audio Profile ▸ Headset Bias
Option range:	Off, On
Default:	Off

OUTPUT LIMITER

The option `Output Limiter` allows configuring a simple limiter for the user's audio output(s). The limiter attenuates the loudest part of the user's channel mix to prevent potential signal clipping.

Setup menu:	Audio ▸ Audio Profile ▸ Output Limiter
Option range:	-24 dB – -6 dB (6 dB increments), Off
Default:	-6 dB

MAIN LEVEL

The `Main Level` acts as a master for all device outputs. It allows to quickly lower or raise all the output levels simultaneously.

Setup menu:	Audio ▸ Audio Profile ▸ Main Level
Option range:	Mute, -40 dB – +12 dB (1 dB increments)
Default:	0 dB

Device

The `Device` submenu holds settings for the device-relevant configuration.

UI MODE

The setting 'UI Mode' controls the layout of the user interface.

Mode	Description
2 Channel	This mode gives direct access to talk and the call function on the user's first two channels.
3 Channel	This mode makes the user's first three channels directly available (talk) and gives direct access to either the extended channel view or to the call function.
4 Channel	This mode gives direct access to the talk function of the user's first four channels.

Tip: A more detailed description for the available UI-modes and the respective button assignments can be found here.

Setup menu:	Device ▸ Device Settings ▸ UI Mode
Option range:	2 Channel, 3 Channel, 4 Channel
Default:	2 Channel

ENC LEFT

This setting allows configuring the action of the *rotation* for `Encoder Left`.

Action	Description
Disabled	The encoder's rotation has no function.
Main Volume	The encoder's rotation controls the device's main volume.
Program	The encoder's rotation controls the volume for the program audio channel.
Sidetone	The encoder's rotation controls the volume for the sidetone.
Channel 1 – 4	The encoder's rotation controls the volume for a specific channel.

Setup menu:	Device ▸ Device Settings ▸ Enc Left
Option range:	Disabled, Main Volume, Program, Sidetone, Channel 1, Channel 2, Channel 3, Channel 4
Default:	Main Volume

ENC RIGHT

This setting allows configuring the action of the *rotation* for `Encoder Right`.

Action	Description
Disabled	The encoder's rotation has no function.
Main Volume	The encoder's rotation controls the device's main volume.
Program	The encoder's rotation controls the volume for the program audio channel.
Sidetone	The encoder's rotation controls the volume for the sidetone.

Action	Description
Channel 1 – 4	The encoder's rotation controls the volume for a specific channel.

Setup menu:	Device ▸ Device Settings ▸ Enc Right
Option range:	Disabled, Main Volume, Program, Sidetone, Channel 1, Channel 2, Channel 3, Channel 4
Default:	Main Volume

EXTENDED

The property `Extended` defines if the user is able to access the extended channel view or not.

Setup menu:	Device ▸ Device Settings ▸ UI Mode
Option range:	Disabled, Enabled
Default:	Enabled

BUZZER

The property `Buzzer` controls if the built-in piezo speaker transmits alarm tones for an alert call or cue signal.

Setup menu:	Device ▸ Device Settings ▸ Buzzer
Option range:	Disabled, Enabled
Default:	Enabled

FLIP

The property `Flip` defines the orientation of the color OLED display.

Option	Description
No Flip	The display is oriented normally.
Main	This option flips the following screens by 180°: • Main screen showing the channels. • Status screen. • Extended channel view.

Option	Description
Menu	This option flips the setup menu by 180°.
Both	This option flips *all screens* by 180°.

Setup menu:	Device ▸ Device Settings ▸ Flip
Option range:	No Flip, Main, Menu, Both
Default:	No Flip

LED INTENSITY

The option `LED Intensity` controls the brightness of the status and button backlights.

Setup menu:	Device ▸ Device Settings ▸ LED Intensity
Option range:	Min, 1 – 6 (1 increments), Max
Default:	4

LED TIMEOUT

The option `LED Timeout` defines if the status and button backlights of the device will be controlled by the `Screen Timeout`.

Setup menu:	Device ▸ Device Settings ▸ LED Timeout
Option range:	Disabled, Enabled
Default:	Disabled

SCREEN TIMEOUT

The option `Screen Timeout` configures a timer that turns off all displays when the device is idle. Any user action or communication received will restart the timer and reactivate the displays.

Setup menu:	Device ▸ Device Settings ▸ Screen Timeout
Option range:	Always On, 1 Minute, 10 Minutes, 1 Hour, 10 Hours
Default:	1 Hour

Config

The `Config` submenu allows loading configurations onto the device without the use of the Green-GO Control software.

> **Tip:** The currently used configuration can be viewed in the `Info` submenu.

Join Config

This submenu lists all *active* configurations in a local network. However, the device's configuration currently being used will not be shown.

AVAILABLE CONFIGURATIONS

Clicking on any entry will bring up a confirmation screen. Pressing the option `Join` will load the configuration onto the device.

> **Notice:** Depending on the security setup of a configuration, you may be asked to provide a *config password* before being allowed to join.

Setup menu: Config ▸ Join Config ▸ Configuration Name

Default Configuration

This submenu allows loading a *custom* default configuration.

> **Tip:** You can [define a custom configuration](../software/views/config.md#default-config with the help of the Green-GO Control software.

LOAD

The *factory default* configuration file will be loaded by clicking the' Load' property.

Setup menu: Config ▸ Default Configuration ▸ Load

Factory Default

This submenu allows loading the *factory default* configuration file.

LOAD

By clicking the `Load` option, the *factory default* configuration file will be loaded.

Setup menu:	Config ▸ Factory Default ▸ Load

DECT

The `DECT` menu allows you to configure and manage pairings to a Green-GO WAA wireless antenna. Each wireless device has to be paired to an antenna to be connected to the Green-GO communication network.

> **Tip:** Check out our guide on the WirelessX system to find out more on how to configure and manage your wireless connections.

Mode

Green-GO 5 now has two pairing modes for X-series devices: `X-Pool` and over-the-air pairing. Both methods are not compatible with one another. The status of this menu changes depending on what mode is currently used.

X Pool

The `X-Pool` pairing method is primarily configured with the Green-GO Control software. It is, however, possible to change the pool or delete a pairing in the device's setup menu.

> **Tip:** Please check out our guide on the WirelessX system for more details on configuring and setting up an `X-Pool` pairing.

AVAILABLE POOLS

While it's not possible to initiate an `X-Pool` pairing in the device's setup menu, it's still possible to switch pools via this option.

Setup menu:	DECT ▸ Mode: X-Pool ▸ Pool Name
Option range:	Existing pools
Default:	none

CLEAR PAIRING

An active pairing can be deleted by activating this function.

Setup menu:	DECT ▸ Mode: X-Pool ▸ Clear Pairing

Over-the-Air

The *over-the-air* pairing method allows for quick ad-hock pairings without the need for any software.

> **Tip:** Check out the chapter on how to pair your beltpack for guidance on this method.

ANTENNA NAME

This option only displays the device name of the Green-GO WAA wireless antenna.

Setup menu:	DECT ▸ Mode: Over-the-Air ▸ Antenna Name

CLEAR PAIRING

An active pairing can be deleted by activating this function.

Setup menu:	DECT ▸ Mode: Over-the-Air ▸ Clear Pairing

Codec

The property `Codec` allows configuring the audio quality and wireless bandwidth used by the device.

Option	Description
Wideband	With this mode enabled, the wireless connection will use the G.722 codec (100 Hz – 7 kHz). A wireless connection using this codec will use two DECT timeslots for a *better* audio quality but at the cost of the possible amount of wireless users.
Narrowband	With this mode enabled, the wireless connection will use the G.726 codec (300 Hz – 3.4 kHz). A wireless connection using this codec will only use one DECT timeslot, using less DECT bandwidth at the cost of *lower* audio quality.

Setup menu:	DECT ▸ Codec
Option range:	Wideband, Narrowband
Default:	Wideband

Information

The information menu mainly provides information about the DECT module's configuration.

REGION

This option shows the currently configured region. This menu only provides information. Changing this setting is only possible with the Green-GO Control software.

Setup menu: DECT ▸ Information ▸ Region

ID

This option shows the unique ID of the DECT module.

Setup menu: DECT ▸ Information ▸ ID

CLEAR RF

The `Clear RF` function allows resetting or clear the DECT module. This function should be executed each time before changing the pairing method used.

Setup menu: DECT ▸ Information ▸ Clear RF

Info

The `Info` submenu makes the most important configuration settings available to view in one place. Some of the options available provide tools for debugging the device or system.

Name

This option shows the device name.

Setup menu: Info ▸ Name

Config

This submenu shows the information regarding the current configuration file used by the device.

The provided information can be helpful when debugging problems regarding devices that are out of sync.

NAME

This option shows the name of the currently active configuration file.

Setup menu: Info ▸ Config ▸ Name

STAMP

This option shows the timestamp of the currently active configuration file.

Setup menu: Info ▸ Config ▸ Stamp

SAMPLE RATE

This option shows the sample rate used by the currently active configuration file.

Setup menu: Info ▸ Config ▸ Sample Rate

MULTICAST IP

This option shows the currently set multicast IP of the configuration file.

Setup menu: Info ▸ Config ▸ Multicast IP

ID

This option shows the *unique ID* of the currently active configuration file.

Setup menu: Info ▸ Config ▸ ID

Firmware

This option displays the device's firmware version.

Setup menu: Info ▸ Firmware

Serial

This option displays the device's serial number.

Setup menu: Info ▸ Serial

Reset To Defaults

This submenu allows resetting the complete device or parts of the configuration back to the *factory defaults*.

RESET DEVICE

This option allows resetting the device configuration back to the *factory defaults*.

Setup menu: Info ▸ Reset to Defaults ▸ Reset Device

RESET AUDIO

This option allows resetting the audio configuration back to the *factory defaults*.

Setup menu: Info ▸ Reset to Defaults ▸ Reset Audio

RELOAD USER

This option allows reloading the current user and all its settings.

Setup menu: Info ▸ Reset to Defaults ▸ Reload User

FACTORY RESET

This option allows resetting the complete device back to *factory defaults*.

Setup menu: Info ▸ Reset to Defaults ▸ Factory Reset

Reset the memory cache

Normally, is not necessary to reset a device's memory cache. However, it may help to resolve issues when problems occur after a firmware update or a general device reset is required.

Resetting a device's memory cache is done in the *forced* `Boot Mode`:

1. Power down your device.
2. While powering up your device, press and hold ● `Button 4`.
3. You can release the button after the device booted into the *forced* `Boot Mode`.
4. Press and hold the button identified in step two again for approximately 30 seconds.
5. While resetting, devices with a display will show a countdown.
6. Release the button after the countdown has run down.
7. Restart your device.

⚠ **Attention:** Clearing the memory cache of your device **will always** result in the *loss of any local device configuration* and return the device to the `Factory Default` configuration file.

Technical specifications

General

Connectors (Neutrik):	1 x XLR4M 1 x Mini USB
User controls:	4 x ● Buttons 1 x ◀ Encoder Left 1 x ▶ Encoder Right < 1 x On/Off switch
Display:	1 x 0,95" OLED screen (color)
Display resolution:	64 x 96 pixel, 15 x 22 mm (H/W)
Power inputs:	Quick change NRGP 3,7V Li-ion 1800mAh battery *USB* (optional): 5 Vdc
Power usage:	2 Watt *typical*, 2,5 Watt *max*
Dimensions (H/W/D):	46 x 95 x 119 mm
Weight:	345 g (*with battery*), 300 g (*without battery*)
Environmental:	*Ambient temperature:* 0° – +55° C

Audio inputs

Headset connector

Connector (Neutrik):	XLR4M (pin 1 & 2)
Type:	Unbalanced
Bias power:	Max. 2.5 V
Amplification range:	+30 dB – +60 dB
Noise:	-70 dBu – -55 dBu
Wired Latency:	*Headset to headset:* ~10 ms
Wireless DECT Latency:	*Headset to headset:* ~22 ms (one wireless hop)

Audio outputs

Headset connector

Connector (Neutrik):	XLR4M (pin 3 & 4)
Nominal level:	0 dBu
Max output:	+20 dBU
Impedance:	120 Ω

Wireless

DECT

Supported standards:	EU-DECT (CAT-iq V2.0, V3.0 partly) DECT 6.0 (North America) J-DECT (Japan)
Certification:	ETSI (EU-DECT, compliant with ETSI 300 444 and ETSI 301 406) FCC (DECT 6.0) MIC (J-DECT pre-certified)
Frequency spectrum:	1870 MHz – 1930 MHz
Receiver sensitivity:	< -93 dBm
Transceiver output power:	*EU:* 23 dBm (1881 - 1897 MHz) *USA:* 20 dBm (1921 - 1928 MHz) *Japan:* 23 dBm (1895 - 1903 MHz)

Battery

NRGP

Type:	Li-Ion
Capacity:	1800 mAh
Nominal voltage:	3,7 V
Charge current:	500 mA
Dimensions (H/W/D):	14 x 38 x 73 mm

Weight:	45 g
Environment:	*Ambient storage temperature:* 0° - 35° C

Downloads

Firmware

- Latest firmware (ZIP archive)
- Firmware archive

Other

- Technical drawings (ZIP archive)
- CE-Certificate (PDF)
- MSDS & UN38.3 reports (ZIP archive)

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