

# ELECTRASTIM™

ELECTRO STIMULATION

## LINX



**EM220**  
**QUICK-START GUIDE**

# Contents/Contenu/Inhalt/Inhoud/Contenido



x1



x1



x1



x2



x4



x1



x1



x1

## What is LINX?

LINX is a high-spec dual output electro sex stimulator that can be used as a stand-alone powerbox or remotely controlled by smartphone app either locally or from anywhere in the world.

Control LINX with the tactile control panel or for a more feature rich experience use the free Smartphone App to unlock it's full potential.

# Quick Start Guide

## WARNING: DO NOT USE...

- If you have any kind of heart problem or arrhythmia
- If you wear medical devices (e.g. a pacemaker)
- If you have metallic surgical implants
- If you are pregnant
- If you suffer from Epilepsy
- If pain exists, or you feel unwell
- Above the waist

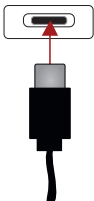


## Charging

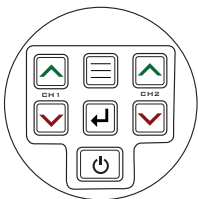
We recommend charging your LINX fully before use. A single charge will give you up to 6 hours of battery life.

Starting at 0% it will take less than an hour to reach 80% charge on your battery. To reach 100% charge it will take up to 3 hours total.

**Note:** During charging LINX will not function as a stimulator so ensure that it is well charged prior to prolonged use.



## Keypad Input



Power



Main Menu Select



Enter/Select



Intensity Up + Menu Nav



Intensity Down + Menu Nav

## Getting Started

To turn LINX on, hold the power button until the LINX logo appears on screen. LINX will then show the main main.

Please note that LINX cannot be switched on during charging.



# How to control LINX

## Standalone Mode

LINX can be used without the free Smartphone app if required. At startup you'll have the option of using multiple pre-defined Wave or Pulse patterns and there are 99 intensities on each channel.

1. Wave patterns
2. Pulse patterns
3. Connect smartphone
4. Settings

The Settings menu also gives you the option to change the stimulation frequency, see tech info and activate the beeper amongst other features.

## Download the FREE app for LINX

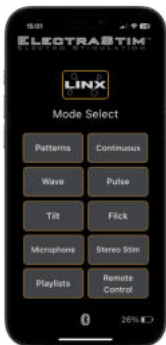
The ElectraStim LINX App is available for you to download to access extra features.



Search: **ElectraStim LINX**

## Local App Controlled Mode

The full library of LINX's play modes can be accessed using the free smartphone app. The app makes use of features built into the modern smartphone such as an accelerometer, microphone and media storage to give you 9 new and fun play modes for you to experience.

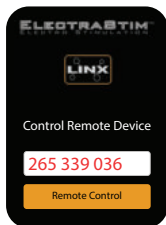


## Global Remote Control

LINX can be controlled from anywhere in the world using a smartphone that has internet connectivity.

By generating a unique 9-digit code in the ElectraStim LINX App, you can give control of your stimulator to someone else in real time.

Either person can end the session at any time, and intensity limits can be set beforehand to ensure you stay within your limits.



# How to connect LINX to the ElectraStim LINX App

1. Begin by installing the ElectraStim LINX App onto your smartphone from the Apple App Store or Google Play Store.



DOWNLOAD ON THE  
APP STORE



GET IT ON  
GOOGLE PLAY

*In order to use LINX correctly, the app will request permission to access your Location, Microphone, Storage, Nearby Devices/Bluetooth.*



**Give Linx Permissions**

2. Launch your app on and turn on your LINX stimulator.

3. Click **Connect smartphone** on your LINX stimulator

1. Wave patterns
2. Pulse patterns
3. Connect smartphone
4. Settings

4. Tap **Find My Linx** on your smartphone.



Find My Linx

5. Tap the found device which will correspond to the last 2 digits of your serial number.

Scanning for Devices

Linx 77

**Note:** The app and LINX will remain connected until you disconnect within the app interface.



## Firmware & App Updatable

LINX is user updatable and there will be periodic firmware/app updates. Join the mailing list at the bottom of our website to stay notified of new updates.

## Cleaning

Your Stimulator can be cleaned using a lightly-dampened cloth. Do not immerse the unit in water and keep moisture away from all sockets and ports.

## Free Extended Warranty

Extend your standard 1 year manufacturer warranty to 3 years for completely free! Visit: [www.electrastim.com/warranty](http://www.electrastim.com/warranty)

## Liability

Cyrex Ltd. will not be held responsible or liable for any injury, harm or accident resulting from the use of any of its products how so ever caused. Use of Cyrex products implies that you have read the instructions and accept these terms. No medical claims are expressed or implied.

## SCAN FOR FULL INSTRUCTIONS

|                        |                          |
|------------------------|--------------------------|
| Instructions complètes | Instrucciones completas  |
| Volledige instructies  | Vollständige Anleitungen |



available in multiple languages:



For safe and complete use, scan the QR  
code to read the full instructions.

**E: INFO@ELECTRASTIM.COM**  
**T: +44 (0)1992 676262**



# ELECTRASTIM LINX EM220

## INSTRUCTIONS

(FIRMWARE VERSION 1.0)

READ THESE INSTRUCTIONS BEFORE USE



### Warning - Do Not Use...

- If you have any heart problems or arrhythmia
- If you wear medical devices (e.g. a pacemaker) or have metallic surgical implants
- If you are pregnant
- If you suffer from epilepsy
- If pain exists
- Above the waist area
- Over inflamed, swollen or damaged skin
- If you suffer from any penile, vaginal or anal disorders

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### What Is LINX?

LINX is a high-specification dual output electro sex stimulator that can be used in stand-alone mode, App controlled or remotely controlled from anywhere in the world, by anyone you choose. Control LINX with the tactile buttons, a swipe of a slider, a tap of an App, the sound of a voice or custom playlists. LINX gives you the freedom to control your electro play your way. The only limit is your, or your dominator's, imagination!

LINX is the first ElectraStim stimulator to incorporate the acclaimed symmetrical bi-phasic output waveform. See appendix 3 for more info.

The stimulator has two independently controllable outputs allowing the stimulation intensity of accessories to be fine-tuned as required. The stimulator connects to external or internal electrodes by means of highly flexible detachable cables. Power is provided by an internal lithium-ion cell which is charged via a USB cable.

### Pack Contents



**Diagram 1**

Your ElectraStim LINX will have been supplied with the following items...

A - Zipped protective storage case  
 B - ElectraStim LINX stimulator  
 C - Detachable belt clip  
 D - USB-C charging/data cable  
 E - Output cable (x2)

F - Self-adhesive ElectraPads (EM2118)  
 G - Reset pin  
 H - Quick Start Guide  
 I - Free 3 year warranty upgrade

## LINX Controls

Before attempting to apply stimulation to any body parts it is essential that you understand how LINX works. Refer to diagrams 1 (above) and 2 (below) as you read this instruction manual.

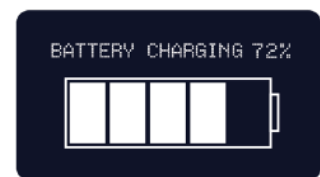
1. Power On/Off Button
2. Enter/Select Button
3. CH1 Intensity and Menu Navigation Buttons
4. OLED Graphics Display
5. Output 1 (CH1) Connection Socket
6. Output 2 (CH2) Connection Socket
7. Tactile Overlay
8. Main Menu Select
9. CH2 Intensity and Menu Navigation Buttons
10. Reset Pin Hole
11. Status LEDs
12. USB-C Charging Socket



**Diagram 2**

## Charging the Internal Battery

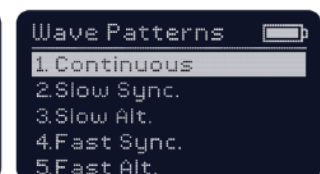
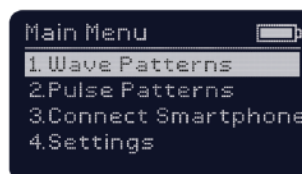
Before using LINX it is recommended that you charge the internal lithium battery to at least 90% capacity to avoid it running flat during play. To do this simply plug the USB cable (D) into the socket on the bottom edge of LINX (12) and connect the other end to a USB socket on either a computer or USB outlet. Be careful when connecting and never apply excessive force to avoid damaging the charging socket.



Once connected the charging progress screen will appear on the display. If the battery starts at 0% it will take less than an hour to get to 80% capacity. To get to 100% will take up to 3 hours. **Note** - During charging LINX will not function as a stimulator so ensure that it is well charged prior to prolonged use.

## Switching On

To switch on your LINX simply press the power button (1). After a second or two the LINX logo will appear whilst the system is booting up and then you will be taken to the main menu. Press Enter to select "Wave Patterns".



There are several selectable built-in patterns but "Continuous" enables you to get a feel of things before getting a little more adventurous. Press Enter again to select "Continuous".

## Intensity Control

The default output intensity is 0 (zero). To apply intensity to either output 1 or output 2 simply press the associated "+" button (3/9) to increase the level by one each time. If you wish to increase the intensity several levels then you can press and hold the required intensity button for one second and it will automatically increment at a rate of 4 levels per second. Likewise you can decrease the intensity by pressing the associated "-" button. The press and hold feature will also work when reducing intensity and will decrease at a rate of 16 levels per second. The intensity has 100 levels ranging from 0 to 99.

### Attaching Accessories/Electrodes

Always attach accessories to the body before applying stimulation to ensure a fully controlled experience. When removing accessories either reduce intensity levels to 0 or you can press the power button (1) momentarily which will instantly reduce both outputs to zero and revert to the Patterns Menu. All ElectraStim accessories come with their own instructions which should be followed carefully.

### Using the Included ElectraPads

Four uni-polar ElectraPads (F) are included in the EM220 pack. These self-adhesive electrodes can be placed anywhere below the waist and are the ideal way to experience erotic electro stimulation for the first time. You will need to connect 2 ElectraPads and apply them both to your body to complete the circuit. Insert one of the 2mm pins on the connecting wire (E) into an ElectraPad and then repeat with a second pad. Peel off the backing and apply the self-adhesive side to your body anywhere below the waist. For the best conductivity, use the pads on a hairless area. Place the pads along the penis or on the labia majora to maximise erotic sensations. Each ElectraPad can be used up to 6 times by the same person by replacing the clear plastic backing after use. Connect the cable (E) to Output 1 (5) and you are ready to go. Output 2 can be left unused or can be used with the other two pads and cable if desired.

### Navigating the Operating Modes

LINX has three different operating modes plus a settings menu which are selected by scrolling up and down the main menu using the up/down buttons (3/9) and then pressing the "Enter" button (2).

The selectable Operating Modes and their basic descriptions are as follows...

| Mode Name             | No. of Options | Description                                                                                                            |
|-----------------------|----------------|------------------------------------------------------------------------------------------------------------------------|
| 1. Wave patterns      | 11             | Built-in e-stim patterns that have a general wave format (Stand alone - no App or phone connection required)           |
| 2. Pulse patterns     | 12             | Built-in e-stim patterns that have a general pulse format (Stand alone - no App or phone connection required)          |
| 3. Connect Smartphone | 1              | Allow LINX to be controlled by a phone App (Use a phone for local Bluetooth control or via the internet from anywhere) |
| 4. Settings           | 10             | Customise settings (frequency control, enable beeper, tech info. etc.)                                                 |

### Wave Patterns (Stand Alone)

LINX comes with a wide selection of predefined or built-in stimulation patterns. When in Wave patterns mode there are 11 selectable options/patterns that have a general wave or massage type format. For some of the patterns the outputs will be synchronised or in harmony with one another, whereas for others the outputs will alternate (180 degrees out of phase).

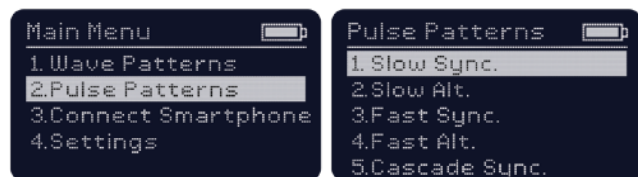
The selectable Wave options are as follows...

| # | Wave Name  | Description                                  |
|---|------------|----------------------------------------------|
| 1 | Continuous | Continuous output to get the feel of things  |
| 2 | Slow Sync  | Slow waves where output 1 and 2 are in sync. |
| 3 | Slow Alt   | Slow waves where output 1 and 2 alternate    |
| 4 | Fast Sync  | Fast waves where output 1 and 2 are in sync. |

| #  | Wave Name      | Description                                                             |
|----|----------------|-------------------------------------------------------------------------|
| 5  | Fast Alt       | Fast waves where output 1 and 2 alternate                               |
| 6  | Escalate Sync. | Synchronised waves that start slow, get increasingly faster then repeat |
| 7  | Escalate Alt.  | Alternating waves that start slow, get increasingly faster then repeat  |
| 8  | Builder Sync.  | Synchronised waves that grow in number as they get faster               |
| 9  | Builder Alt.   | Alternating waves that grow in number as they get faster                |
| 10 | Triple Sync.   | Synchronised waves, 3 slow, 3 medium, 3 fast                            |
| 11 | Triple Alt.    | Alternating waves, 3 slow, 3 medium, 3 fast                             |

### Pulse Patterns (Stand Alone)

LINX also has a selection of built-in Pulse patterns. When in Pulse Mode there are 12 selectable options/patterns that have a pulsing or on/off type format. For some of the patterns the outputs will be synchronised or in harmony with one another, whereas for others the outputs will alternate (180 degrees out of phase).



The selectable Pulse options are as follows...

| #  | Pulse Name     | Description                                                                 |
|----|----------------|-----------------------------------------------------------------------------|
| 1  | Slow Sync      | Slow pulse where output 1 and 2 are in sync.                                |
| 2  | Slow Alt       | Slow pulses where output 1 and 2 alternate                                  |
| 3  | Fast Sync      | Fast pulses where output 1 and 2 are in sync.                               |
| 4  | Fast Alt       | Fast pulses where output 1 and 2 alternate                                  |
| 5  | Cascade Sync   | Sync. pulses that start slow, get increasingly faster then repeat           |
| 6  | Cascade Alt    | Alternating pulses that start slow, get increasingly faster then repeat     |
| 7  | Escalate Sync  | Sync. pulses that start slow, get increasingly faster then slow again       |
| 8  | Escalate Alt   | Alternating pulses that start slow, get increasingly faster then slow again |
| 9  | Penetrate Sync | Synchronised pulses with increasing "on" time                               |
| 10 | Penetrate Alt  | Alternating pulses with increasing "on" time                                |
| 11 | Spank Sync     | Synchronised 1 pulse and rest, 2 pulses and rest, 3 pulses and rest         |
| 12 | Spank Alt      | Alternating 1 pulse and rest, 2 pulses and rest, 3 pulses and rest          |

### Quick Menu

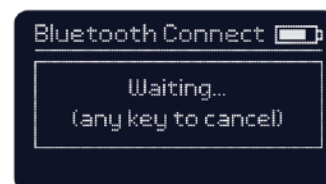
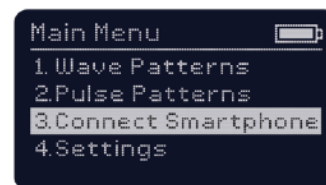
If the "Enter" button is pressed while a pattern is active a quick menu is displayed which has 2 options. Option



1 allows you to lock the keypad to prevent accidental adjustment. Option 2 allows you to toggle the beeper between On and Off. Simply use the intensity buttons to scroll to the quick menu option and press enter. Press enter again to re-enter the quick menu and change the options.

### Connect Smartphone

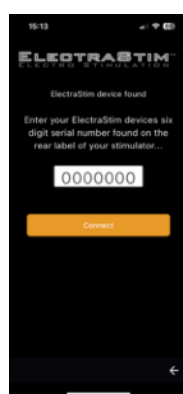
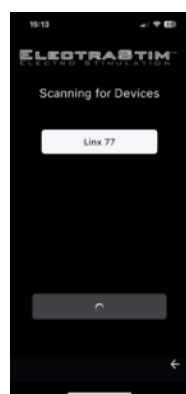
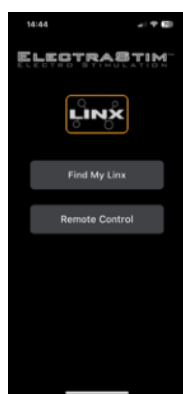
Selecting this option will require a Smartphone (or tablet) with the LINX App installed. This can be found by searching for “ElectraStim Linx” on the Apple App Store for iPhone or Google Play Store for Android phones. There are also QR codes on the quick start guide that will take you directly to the App installation. Please be aware that LINX utilises Bluetooth low energy (BLE) 5.2 and as such will work best with phones that utilise BLE 5 technology or later. If you have an older phone with less responsive Bluetooth you may experience some degree of lag/ delay in the controls. See Appendices for a guide to smartphone compatibility and limitations of use.



Press the Enter button on LINX to enable BLE discoverability.

### Connecting LINX to the LINX App.

1. Open the App and tap on “Find My Linx”
2. Your LINX unit should be listed with the last 2 digits of its serial number. This ensures that if there is more than one LINX within Bluetooth range you can select the one that is applicable to you.
3. You will now need to enter your LINX serial number which can be found on the rear label or in Settings/Tech Info. Tap on the serial number edit box, enter the 7-digit number via the pop-up number pad, tap “Connect”.
4. If the serial number is correct you will be connected to your LINX and the App main menu will be visible. You will get 3 attempts to connect before LINX shuts down. You will then need to repeat the sequence.



Your LINX is now connected to the App and ready for action.

The App menu will show the play modes available. It is important that you get used to navigating and controlling LINX via the App BEFORE attaching any stimulation accessories!

As with all well designed Apps, you should be able to intuitively navigate your way around and discover the various ways to control LINX. Some of the adjustment controls have subtle changes to sensations while others can be more abrupt so be mindful to take it slowly until you are familiar with the effects.

Apps by nature will undergo updates to fix any issues and introduce new features.

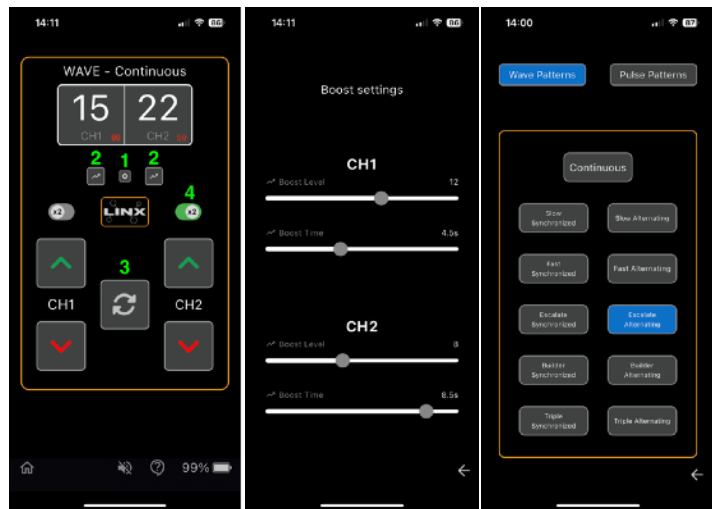
If you need to see exactly how to use any of the modes we suggest looking at our selection of videos on YouTube but the following paragraphs will outline the fundamentals of each mode.

## Patterns

This mode allows you to take the easy option and use a predefined wave or pulse pattern.

These patterns have no adjustability or customisation options, simply intensity control and a Boost feature. A quick fix with no hassle!

Intensity levels are adjusted by either tapping the up/down controls for CH1/CH2 or by touch and hold to use the auto climb feature. This is the same for all modes. To adjust the intensity level by 2 steps simply tap the “x2” icons (4).



The maximum intensity levels can be limited within the Linx Settings menu to tailor your stimulation experience. The limit values are shown in red next to the intensity display values.

Tapping the Boost settings icon (1) will allow you to change the Boost levels and the Boost time. Tapping on the Boost icons (2) will instigate a Boost for the corresponding channel. Boost can only be done if the intensity is set above zero and no intensity adjustments can be made whilst the boost is active.

Tapping the pattern select icon (3) will allow you to change the stimulation pattern. There are no output indicator icons in Patterns mode due to the fact that there are no user adjustable parameters.

## Continuous

This mode gives a classic smooth output with full parameter control. This is a great mode for experimenting to find out which frequencies and pulse widths are in tune with your body.

Intensity control and Boost control are the same as Patterns mode.

To change the stimulation parameters simply tap on (3) and then adjust the sliders.

Frequency range = 32Hz to 150Hz

Pulse width range = 70us to 150us



The stimulation width settings are reflected in the size of the output indicator icons for CH1 (1) and CH2 (2). Change the width sliders gradually as they will have a significant effect on the effective stimulation level.

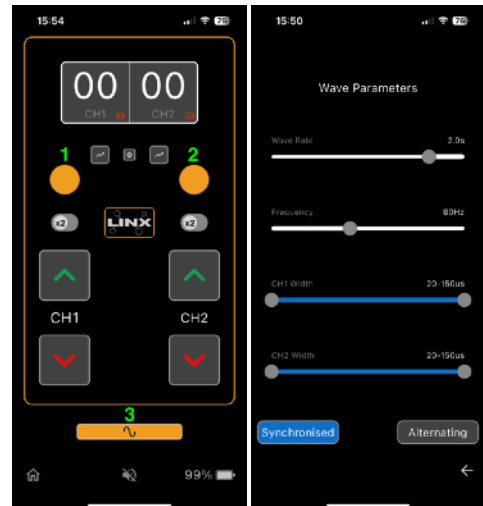
## Wave

Waves, as the name implies, sweep up and down at various rates and the two output channels can be either in or out of sync.

To change the stimulation parameters simply tap on (3) and then adjust the sliders.

Wave Rate = 10s to 0.2s per half cycle  
Frequency range = 32Hz to 150Hz  
Pulse width range = 20us to 150us

The stimulation width settings are reflected in the size of the output indicator icons for CH1 (1) and CH2 (2). Change the width sliders gradually as they will have a significant effect on the effective stimulation level.



Please note that the output indicators will not be synchronised with the output indicators on LINX but provide a good representation of the stimulation.

## Pulse

Pulse essentially switches the outputs on and off at various rates and the two output channels can be either in or out of sync.

To change the stimulation parameters simply tap on (3) and then adjust the sliders.

Pulse Rate = 10s to 0.2s per half cycle  
Frequency range = 32Hz to 150Hz  
Pulse width range = 20us to 150us

The stimulation width settings are reflected in the size of the output indicator icons for CH1 (1) and CH2 (2). Change the width sliders gradually as they will have a significant effect on the effective stimulation level.

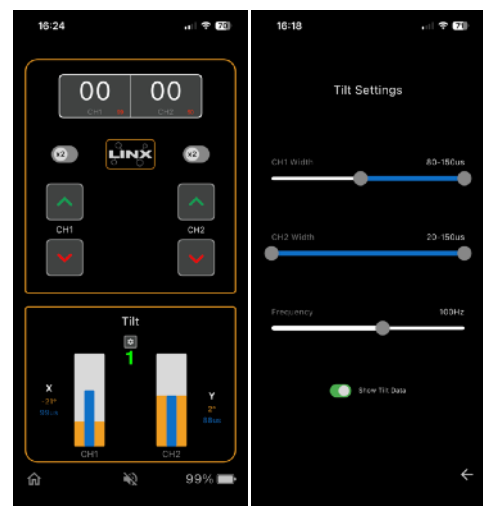


Please note that the output indicators will not be synchronised with the output indicators on LINX but provide a good representation of the stimulation.

## Tilt

Tilt mode uses the accelerometer built into your smartphone and converts the angular data of the x and y planes into stimulation pulse durations, which effectively control the stimulation power along with the intensity controls. This information is then streamed continuously to LINX.

The two bar displays show the angular information in orange and the equivalent output widths in blue. The stimulation sensitivity range can be adjusted by the sliders (tap 1) to provide very large to very small variations as you change the angles of your smartphone. The indicator bars on LINX will follow the blue bars on the App.



## Flick

Similar to Tilt mode, Flick mode also uses the accelerometer built into your smartphone but this time uses instantaneous z plane acceleration data. Again this information is converted into stimulation pulse durations which effectively control the stimulation power along with the intensity controls. This information is then streamed continuously to LINX.

There is only a single bar display for Flick Mode because there is only one acceleration value (z) so both channels respond identically to the “Flick” motions. The orange bar shows the acceleration while the two blue bars show the effective control range of each channel set by the sliders. Again the indicator bars on LINX will follow the blue bars on the App.



## Microphone

This mode utilises ambient music or voice to control the stimulation.

This audio information is converted into stimulation pulse durations which effectively control the stimulation power along with the intensity controls. This information is then streamed continuously to LINX.

There is only a single bar display for Flick Mode because there is only one channel of audio so both stimulation outputs respond identically to the “Flick” motions. The orange bar shows the audio pattern while the two blue bars show the effective control range of each output set by the sliders. Again the indicator bars on LINX will follow the blue bars on the App.



## Stereo Stim

This mode takes advantage of the fact that stereo audio has two channels, left and right, which are used to control the left (CH1) and right (CH2) stimulation channels.

Similar to Microphone mode audio information is converted into stimulation pulse durations which effectively control the stimulation power along with the intensity controls. This information is then streamed continuously to LINX.

The orange bars shows the audio patterns while the two blue bars show the effective control range of each output set by the sliders. Again the indicator bars on LINX will follow the blue bars on the App.



Audio files must be in \*.wav format and loaded via your phone's file browser which is opened using the icon shown.

Locally played audio from iTunes/Spotify etc. will not work.

When you have loaded the file you will see the audio control panel and the name of the file loaded (1).

Tap on the play icon (3) to start the audio control file and tap it again if you wish to pause it at any time. Stimulation will stop when paused and resume again from the same point when tapped again.

If you wish to play the file again when it reaches the end, tap on the Loop play logo (2). You can only do this when the file is playing. To stop the audio file tap on the stop icon (4) which will reset the play bar position (6) and reset the intensity levels to 0.

The stimulation variation will be relative to the volume of the played file which can be adjusted using the phone volume or the slider in the App (5). You also have full control of the intensity levels, along with the pulse width range settings. If you don't want to listen to the audio aloud then you can connect ear buds or headphones.



Stereo Stim files can be created using specialist software and made up of audible tones that have sweep or pulsing type characteristics that create stimulation in sympathy with the sounds. Over the years a community of Stereo-Stimmers has evolved and hence this type of play is well known amongst connoisseurs of electroplay. This feature will work with any kind of music but works best with specially created files. We have more information on our website and [files to try](#).

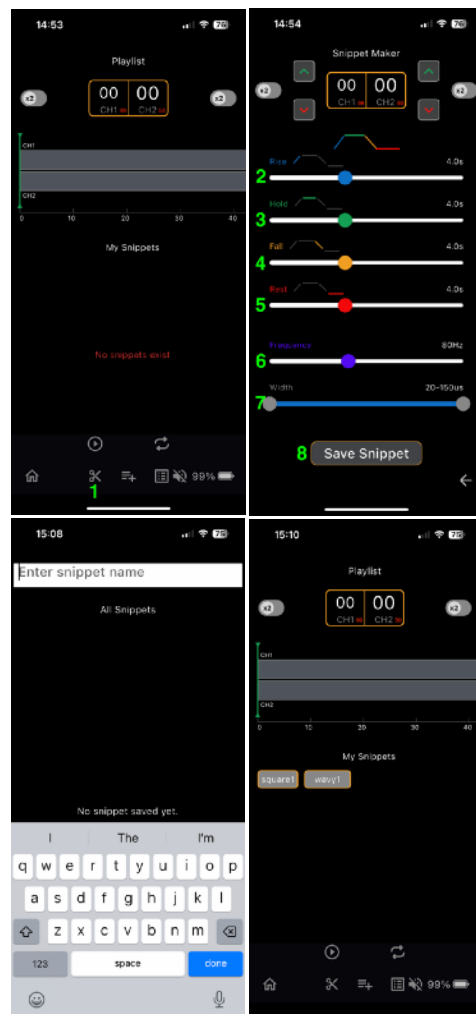
## Playlists

This mode allows you to create any possible stimulation pattern up to an hour in length. The patterns can be different on each channel and have endless possibilities.

Firstly you need to create and save "Snippets" which all go into your snippet library. We recommend connecting a couple of pads to your arm or thigh when creating snippets such that you can feel them before you save them but it is not essential as the sliders give a good representation on the general snippet characteristics.

To get started tap on the Snippet Maker icon (1). A snippet is represented by four stages of a stimulation pattern cycle and are represented by the top four sliders, i.e. Rise time (2), Hold time (3), Fall time (4) and Rest time (5). Each of these sliders can be set between 0.1 seconds and 10 seconds. This means that the shortest possible snippet length is 0.4s, and the longest is 40s. With a resolution of 0.1s for each slider this gives rise to over 80 million possible permutations! Plus, you can modify the frequency (6) and pulse width range (7) which effectively controls the sensitivity or depth of stimulation. Adjust the sliders to create your first snippet.

If the Rise and Fall times are set to minimum and the Hold and Rest times are set to say 2 seconds you will have created a 4 second symmetrical pulse style



Snippet. If you set the Hold and Rest sliders to minimum and set the Rise and Fall times to 2 seconds you will have created a 4 second symmetrical wave style Snippet.

So as you can see a Snippet is a single stimulation cycle consisting of four time stages plus frequency plus pulse duration range. Snippets will adjust in real time as you move the sliders so you can try before you save.

When you are happy with how your first Snippet feels you can tap the “Save Snippet” icon (8) and give it an appropriate name, for instance “square 1”, and tap “done”.

When the snippet has been saved you will be taken back to the Snippet Maker such that you can create more snippets with different characteristics to build up a good selection.

When you have got a few interesting snippets created you need to go back to the Playlist screen where you will see your created snippets.

To create your first playlist you simply need to drag the snippets into the players for CH1 and CH2. You can put them in any sequence you want but normally if you are doing a pulsing sequence for instance you would string several of the same snippets together before mixing it up and blending other variations.

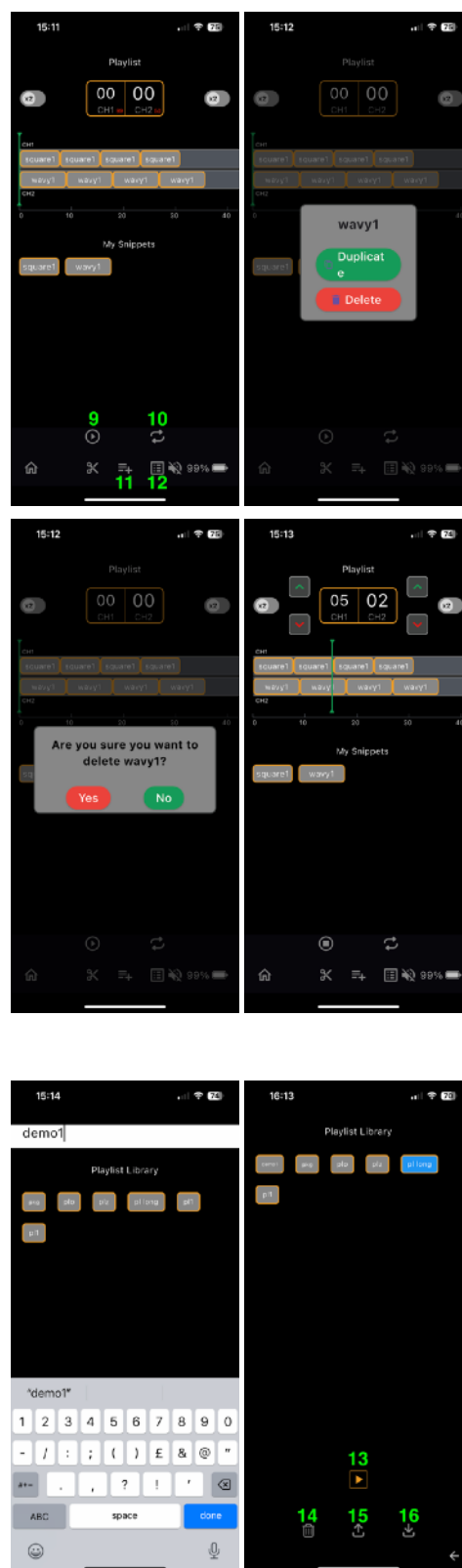
To string a snippet you can simply drag it to the play bar multiple times. Alternatively you can tap and hold on a snippet that is already in the play bar and it will give you the option to duplicate or delete it.

If you decide that you don’t like any of your snippets in “My Snippets” you can tap and hold them to delete.

When your playlist has been created from your snippets you are ready to give it a test run by tapping the Play icon (9). Tap on Loop Play (10) if you want the playlist to keep repeating.

If you want to keep your playlist so that you can use it another time tap on the “Save Playlist” icon (11) and give it a name when prompted. Tap on “done” to add it to your playlist library.

Tap on the “Open Library” icon (12) to load a playlist. Simply tap on the playlist you want to use to highlight it and then tap the play icon (13) to load it into the play bars. Alternatively you might want to share the playlist with a fellow user by exporting it (15) or import a playlist that someone else has given you (16). Simply tap on the “Play” icon and set your intensity levels when you’re ready and select Loop play if required. When you are finished with the playlist you can remove it (17) and choose a different one. To import json files they must first be stored locally on your phone.



Playlists cannot be edited. All editing must be done during the playlist creation.

Exported playlists are json files consisting of all stimulation parameters. Advanced users/coders will be familiar with this file format and can edit playlists with a basic text editor if they wish to change some parameters without generating the entire file again from scratch.

**WARNING** - Do not attempt this unless you are competent and familiar with this type of file manipulation. False values will give unexpected behaviour.

### Remote Control

LINX can be controlled from anywhere in the world using a smartphone that has internet connectivity.

If you want someone else to control your stimulation you need to connect to your LINX to the App as described above (Find My Linx, page 7) and once connected tap on the “Remote Control” option in the main menu. You will then see the remote I.D. generator. Tap on the slide switch icon to generate a random 9 digit code. You can copy the code by long tapping the number or taking a screenshot etc.

You now need to share this code with the person that you wish to control your stimulation (the Dom).

The Dom must open the LINX App and choose the “Remote Control” option from the initial connection menu. The shared 9 digit code must be pasted into the box or manually entered and then the “Remote Control” icon must be tapped. The Dom will now have full control over your Linx stimulator. To end the remote control session the Dom can exit the App in the same way as BLE control or the sub can end it by tapping on the slide switch to close the remote session. During remote control the sub has no local control of stimulation and will simply see the session timer.

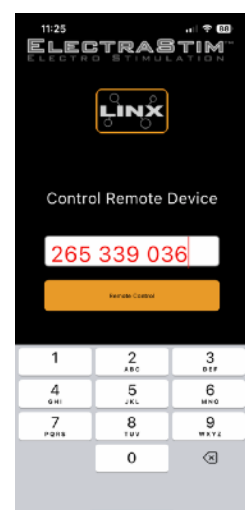
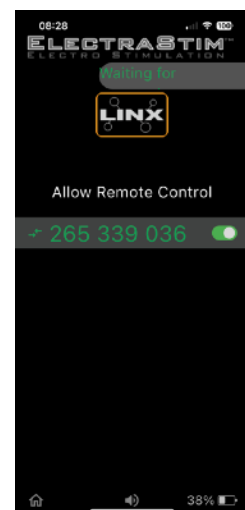
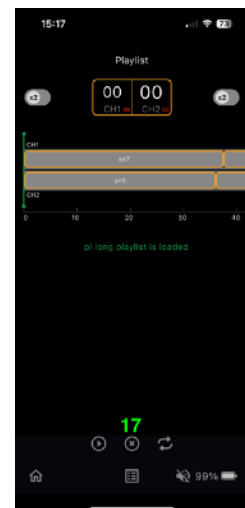
The Sub can still change intensity levels during remote play which will be sent to the App in order to maintain synchronicity. LINX menu features are not accessible during remote control sessions.

The responsiveness of remote control will depend upon the speed of your wifi or mobile network and the LINX connected phone’s Bluetooth version. See Appendix 2.

### IMPORTANT NOTE ON REMOTE CONTROL

Since the “Dom” is remote from the “Sub”, (potentially in another country) both players should agree a stimulation comfort zone which will very much depend on the person and type of accessory/s being used, i.e. are they surface style electrodes such as cock rings/loops which only require lower intensity levels to achieve strong sensations? It may be that a butt plug is being used on the other channel which will require higher intensity and pulse width levels.

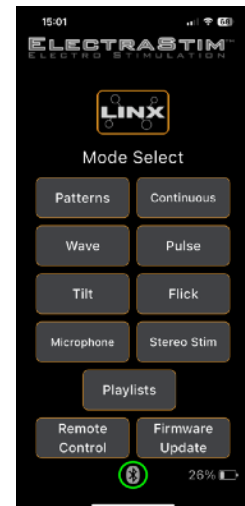
In addition to this, the Sub can set intensity limits on their Linx stimulator prior to the remote session. This takes away full control from the Dom. The set intensity limits can be seen on the App in red in the intensity display area and cannot be exceeded. To change the limits the remote session must be ended such that the Linx Settings can be adjusted. See Settings Menu on page 14.



## Disconnecting BLE

Disconnecting the Bluetooth control can be done via the App. or Linx. Press the Home icon in the bottom left corner to go to the main menu and then tap on the Bluetooth logo at the very bottom, then tap "Disconnect". The App will then return to the search screen and LINX will revert to the main menu.

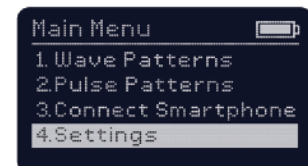
Alternatively, if the power button is held down on Linx it will shutdown and disconnect Bluetooth control.



## Settings Menu

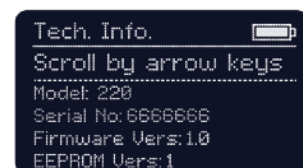
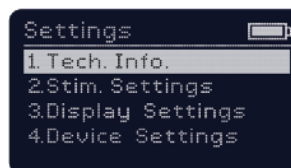
The Settings menus are used to change the way that your LINX works or to view battery/technical info. The selectable options and sub-menus are as follows...

To exit the Settings menu simply press the "Menu" button which will take you back to the main menu. Settings are saved when LINX is switched off.



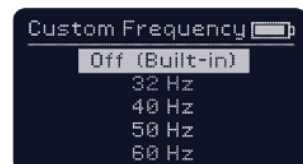
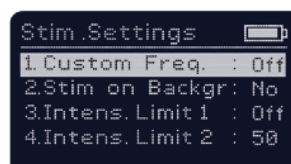
### 1. Tech. Info

If you want to check your battery percentage reserve or find your serial number, firmware version, usage stats. etc. then this is the place to find it. Use the CH1/2 buttons to scroll up/down.



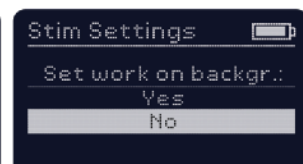
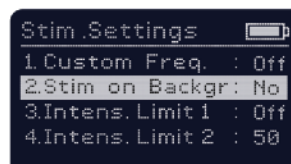
### 2. Stim. Settings/Custom Frequency

Pulse and Wave patterns have a built-in frequency but you may choose to override this and choose one of your own. When a custom Frequency is in use there will be an "F" in the top bar of the LINX display.



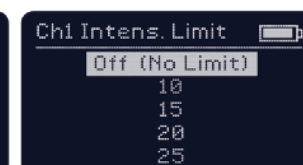
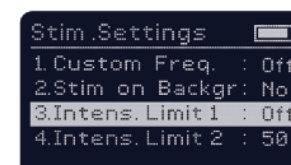
### 3. Stim. Settings/Stim on Background

When changing Modes and Menus you can choose whether the intensity levels reset to zero or to leave them unchanged. Leaving the levels unchanged between modes (Stim on Background = Yes) is only recommended for more experienced users as stimulation levels will fluctuate as you navigate the Modes. While this mode is active you will see a flashing lighting bolt symbol on the top bar of the Linx display.



### 4. Stim. Settings/Intensity Limit Ch1

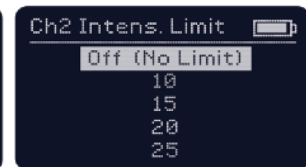
If you want to set an intensity limit on channel 1 selecting this option will allow you to set a limit if you wish.



5. **Stim. Settings/Intensity Limit Ch2**

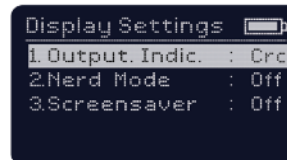
If you want to set an intensity limit on channel 2 selecting this option will allow you to set a limit if you wish.

Setting intensity limits is particularly useful if you are being controlled by someone else remotely via the App. and will prevent any unwanted surprises! The set values are remembered every time you switch Linx on. The prohibited intensity levels are shown by an "X" in the visual intensity bars.



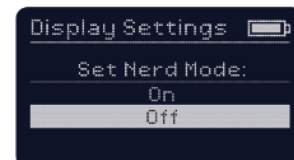
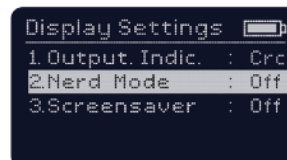
6. **Display Settings/Output Indicator**

The stimulation outputs can be visually represented in two different ways, Circles or Bar Graphs. It is purely a matter of preference to the user.



7. **Display Settings/Nerd Mode**

If you would like to see a little more information displayed when using the Wave, Pulse or Tilt Modes then enable this feature to see the pulse frequency (Hz), cycle times (in either seconds or milliseconds) and degrees of tilt.



8. **Display Settings/Screensaver**

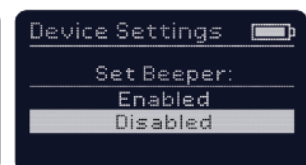
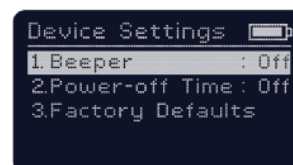
If your OLED display is on for very long periods of time it is possible that common lines and symbols may suffer from pixel fade after several years of use.

To prevent this a screensaver can be enabled such that after a defined period of interface inactivity an animated "screen saver" message will appear until any button is pressed.



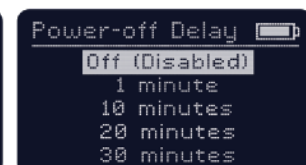
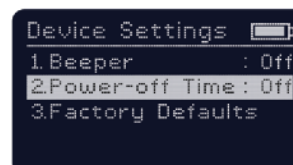
9. **Device Settings/Beeper**

Selecting this feature will enable/disable an audible confirmation beeper. When enabled you will hear a beep every time a button is pressed or if the battery is running flat. The tone of the beeps will vary in accordance with the setting being changed which can be useful if you are visually impaired but it also adds good feedback when not looking at the display. LINX will also make an audible sound when powering on etc.



10. **Device Settings/Power-off Time**

If you are travelling with your LINX it is possible that it can get accidentally switched on during transit. In order to ensure that the battery is not completely discharged it is possible to set a timer to switch LINX off automatically if there has been no user activity. When doing remote play sessions you should ensure this feature is switched off if you wish to prevent a disconnection.



## 11. Device Settings/Factory Defaults

If you want to reset the user settings without having to change them all individually then use this menu option.



## Firmware Update

We will release firmware updates to improve performance, add new features and fix any minor issues. To ensure you are aware of updates you should make sure you are subscribed to our mailing list.

Instructions on how to update your LINX firmware can be found here... <https://www.electrastim.com/linx>

If the LINX App has been updated and is no longer compatible with your LINX firmware you will need to perform a firmware update. In order to do this you will need to download the bespoke ElectraStim Updater App for free from our website. This simply requires a computer and the USB data cable that came with your LINX (D).

Note: You will need firmware updater app version 4.1 or higher to be able to update LINX firmware. This will also be compatible with all other ElectraStim updatable stimulators so you can remove any older versions that you may have on your computer.

## Cleaning

Your ElectraStim LINX EM220 stimulator can be cleaned using a lightly-dampened cloth. Do not immerse the unit in water and keep moisture away from all sockets and ports.

## Warranty

ElectraStim LINX EM220 is guaranteed for 1 year from date of purchase against defects arising from faulty workmanship or materials. This excludes moisture ingress, misuse and wear and tear of cables. NOTE: There are no user serviceable parts inside and any attempt to open the enclosure will invalidate the warranty. Tamper evident precautions have been made. Attempts to “hack” the installed firmware or EEPROM data will lock LINX from further use and may permanently damage the electronics and is not covered by the warranty.

If you register your LINX within 4 weeks of purchase your warranty will be extended to 3 years completely free of charge.

To register your warranty and see full terms go to <https://www.electrastim.com/pages/warranty>

## Safety

LINX has been designed with safety and the environment in mind...



Conforms to European Safety Standard BS EN 60601-1:2006+A12:2014



Conforms to UKCA applicable statutory requirements



Conforms to all major Global Radio Communication Standards



Type BF Isolated Safety Outputs



### **Risk of Hazardous Substances (RoHS)**

No hazardous material as laid out in the RoHS Directive have been used in the manufacture of this product



### **Waste of Electrical and Electronic Equipment (WEEE)**

This equipment should be taken to a recycling centre at the end of its useful life and not discarded with normal household waste

## Liability

Cyrex Limited/Cyrex Inc. will not be held responsible or liable for any injury, harm or accident resulting from the use of any of its products how so ever caused. Use of Cyrex products implies that you have read the instructions and accept these terms. No medical claims are expressed or implied.

## Specification

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| Bluetooth Technology    | BLE 5.2, 2.4GHz Transceiver, IEEE 802.15.4                             |
| Bluetooth Range         | up to 250 meters (smartphone dependant)                                |
| Control Options         | Stand Alone, Local Bluetooth, Global Internet                          |
| Built-in Patters        | 11 Wave, 12 Pulse with modifiable frequency control                    |
| Battery Voltage         | 3.7V nominal                                                           |
| Battery Capacity        | 1000mAh                                                                |
| Battery Type            | Lithium Polymer Rechargeable                                           |
| Charging Current        | 400mA (max.)                                                           |
| Charging Voltage        | 5V USB                                                                 |
| Charging Time           | 1 hour to 70%, 3 hours max. to 100%                                    |
| Discharge Time          | Minimum 2 hours, Typical 4 hours, Maximum 6 hours                      |
| USB Format              | Type C                                                                 |
| Output Type             | True symmetrical bi-phasic, zero net DC, interpolated (See Appendix 3) |
| Output Current          | 0-125mA peak instantaneous/channel into 560 ohm load                   |
| Output Intensity Levels | 100 (0-99) per channel                                                 |
| Output Voltage          | 0-70V peak into 560 ohm load                                           |
| Output Frequency        | 32Hz - 150Hz                                                           |
| Output Pulse Width      | 0us - 180us                                                            |
| Output Connection       | 3.75mm Safety Socket (2mm pin accessory connector)                     |
| Intensity Auto + Rate   | 4 levels per second                                                    |
| Intensity Auto - Rate   | 16 levels per second                                                   |
| Display                 | 1.3" Blue OLED 128 x 64, high contrast, wide viewing angle             |
| Beeper Frequency        | 2.73KHz nominal                                                        |
| Microprocessor          | ARM Cortex M4 32-bit processor with FPU, 64 MHz                        |
| Memory                  | 1MB flash / 256KB RAM                                                  |
| Weight                  | 116g (4.1oz)                                                           |
| Dimensions              | 25mm x 68mm x 118mm (1" x 2.7" x 4.7")                                 |

## **Appendix 1**

### **Smartphone Compatibility**

As of February 2025, several Android smartphones support Bluetooth Low Energy (BLE) version 5.2 or higher offering enhanced features such as improved audio quality, increased energy efficiency, better connection stability and longer range.

Notable models include:

Apple:

- **iPhone 14 onwards (Released in 2022)**

Samsung:

- **Galaxy S21** series
- **Galaxy S22** series
- **Galaxy S23** series
- **Galaxy S24** series
- **Galaxy A54 5G**
- **Galaxy A55**
- **Galaxy Z Flip 6 5G**

Google:

- **Pixel 6** series
- **Pixel 7** series
- **Pixel 8** series
- **Pixel 9** series

Motorola

- **Edge+ 5G (2023)**
- **Moto G Power 2023**
- **RAZR 2023**
- **Edge 50 Neo**

However, LINX will perform to a very satisfactory level on phones with BLE 5.0 including the following...

Apple Smartphones:

- **iPhone X to iPhone 13** (Released in 2017): Bluetooth 5.0

Android Smartphones:

- **Samsung Galaxy S8** series onwards (2017): Bluetooth 5.0
- **Google Pixel 2** series (2017): Bluetooth 5.0
- **Fairphone 3** (2019): Bluetooth 5.0
- **HMD Skyline** (2024): Bluetooth 5.2
- **HMD Crest** (2024): Bluetooth 5.0
- **HMD Crest Max** (2024): Bluetooth 5.0

It's important to note that while many smartphones support Bluetooth 5.0 or higher, the implementation of specific features (such as Long Range or high-speed modes) may vary by device.

## **Tablet Compatibility**

Tablets with Bluetooth (BLE) 5.0 or higher will perform to a very good standard. Versions older than this may still work to a degree but some features might not work or the communication might be less reliable and are therefore not recommended.

### **iPads with BLE 5.0**

- iPad Air 3rd Generation and Higher (from 2019)
- iPad Mini 5th Generation and Higher (from 2019)
- iPad Pro (2018 - 2020)

### **iPads with BLE 5.2 or 5.3 - Enhanced Performance**

- iPad 11th Generation (2025/A16)
- iPad Air M2 and M3 (2025)
- iPad Pro M4 (2025)

### **iPads with Cutting Edge BLE 6**

- iPad Pro M5 (2026)

### **Other Tablets with BLE 5.0 or Higher**

- Samsung Galaxy Tab
- Samsung Galaxy Tab+
- Samsung Galaxy Tab S10 Lite
- Samsung Galaxy Tab A11
- Doogee U11
- Lenovo Idea Tab
- Lenovo Tab Plus
- Huawei MatePad SE11

## **Appendix 2**

### **LINX Functionality During App. Control**

While connected to the App you will not be able to use either the Menu (8) or Enter (2) buttons on LINX. However, you can adjust the intensity on LINX if you prefer and the App will automatically update. If you want to shut off stimulation quickly you can momentarily press the power button on LINX and it will reset the stimulation levels to zero. You cannot switch LINX off until the BLE has been disconnected via the App.

### **Limitations of App Control**

Some of the user modes will work quite happily while you are doing other things on your smartphone including voice and video calls.

If you want to do messaging on your phone or watch a video while using microphone control then this will also work but you will not be able to take voice or video calls as this will require the phone to take control of the microphone. If you have a voice assistant active such as Siri this will also interfere with the microphone if activated.

However, the other modes need to continuously send BLE data to LINX and therefore will pause when you open other Apps or receive calls. When you go back to the LINX App your session will resume, assuming you haven't closed the App. but left it open in the background. The table below summarises the compatibility of each stimulation control mode.

### **Summary of Limitations While using the LINX App.**

| <b>Mode</b>       | <b>Work All the Time Including Video Calls</b> | <b>Work while Messaging</b> | <b>Work While App. in Background</b> |
|-------------------|------------------------------------------------|-----------------------------|--------------------------------------|
| <b>Patterns</b>   | ✓                                              | ✓                           | ✓                                    |
| <b>Continuous</b> | ✓                                              | ✓                           | ✓                                    |
| <b>Wave</b>       | ✓                                              | ✓                           | ✓                                    |
| <b>Pulse</b>      | ✓                                              | ✓                           | ✓                                    |
| <b>Tilt</b>       | ×                                              | ×                           | ×                                    |
| <b>Flick</b>      | ×                                              | ×                           | ×                                    |
| <b>Microphone</b> | ×                                              | ✓                           | ✓                                    |
| <b>StereoStim</b> | ×                                              | ✓                           | ✓                                    |
| <b>Playlists</b>  | ×                                              | ×                           | ×                                    |

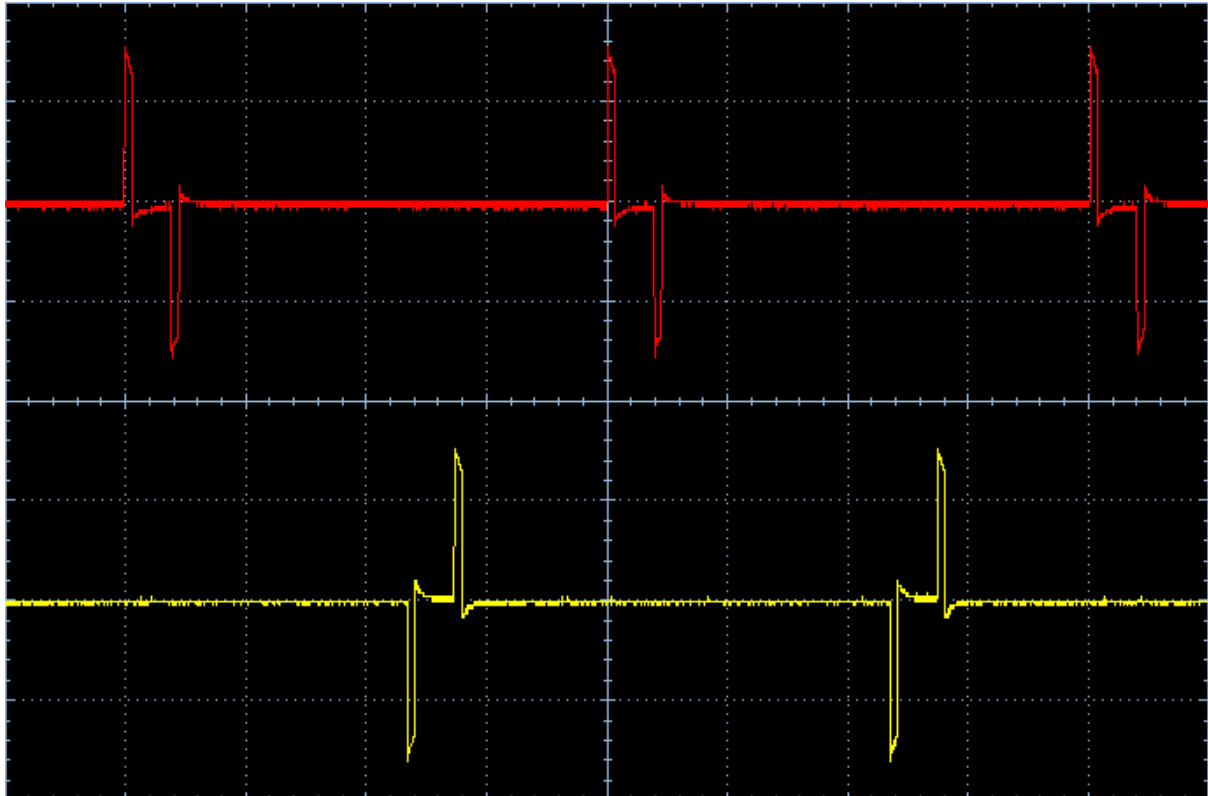
Note: If the “Dom” makes remote adjustments to settings while the “Sub” is doing other tasks on their smartphone, it is possible for some setting changes to be missed.

### **Appendix 3 - LINX Output Waveform**

Unlike the vast majority of e-stim devices that have an asymmetrical output waveform, LINX has a symmetrical bi-phasic waveform with zero net DC. This gives a “fuller” stimulation sensation due to the fact that the signal is driven in both a positive and negative direction as opposed to the traditional single direction of drive.

The red trace below shows the output waveform on channel 1 and the yellow shows channel 2. Both channels have a 560 ohm load and are at maximum intensity.

Each graticule represents 50V amplitude with a timebase of 2.5ms.



It is also important to note that the two channels are 180 degrees out of phase, i.e. interpolated. This is critical in order to insure that the two outputs are isolated from one another. Dual channel stimulators that are not isolated in this way will have fluctuating and unpredictable intensity levels unless they have two independent power supplies.

Patents No. GB2568923, GB2499585

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15th January 2026  
All errors accepted

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