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NeuroPro2

USER MANUAL

WiFi

VIELIGHT

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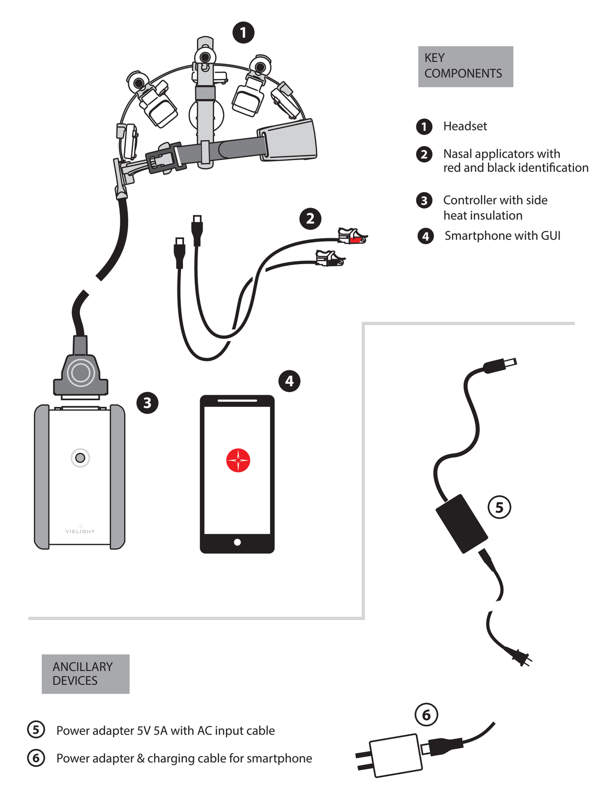
NEURO PRO 2 COMPONENT LIST



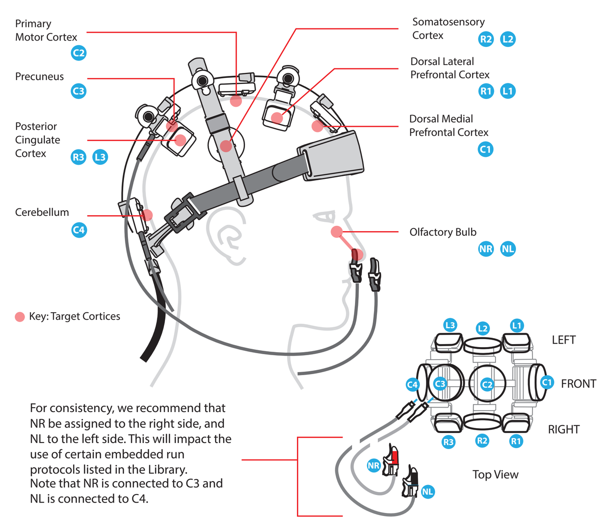
KEY COMPONENTS

1. Headset
2. Nasal applicators with red and black identification
3. Controller with side heat insulation
4. Smartphone with GUI

ANCILLARY DEVICES

5. Power adapter 5V 5A with AC input cable
6. Power adapter & charging cable for smartphone

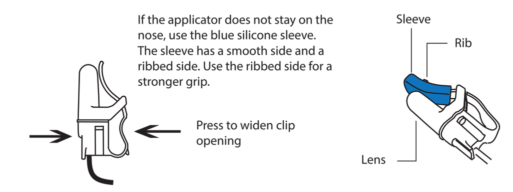
POSITIONING THE HEADSET MODULES IN DEFAULT POSITIONS



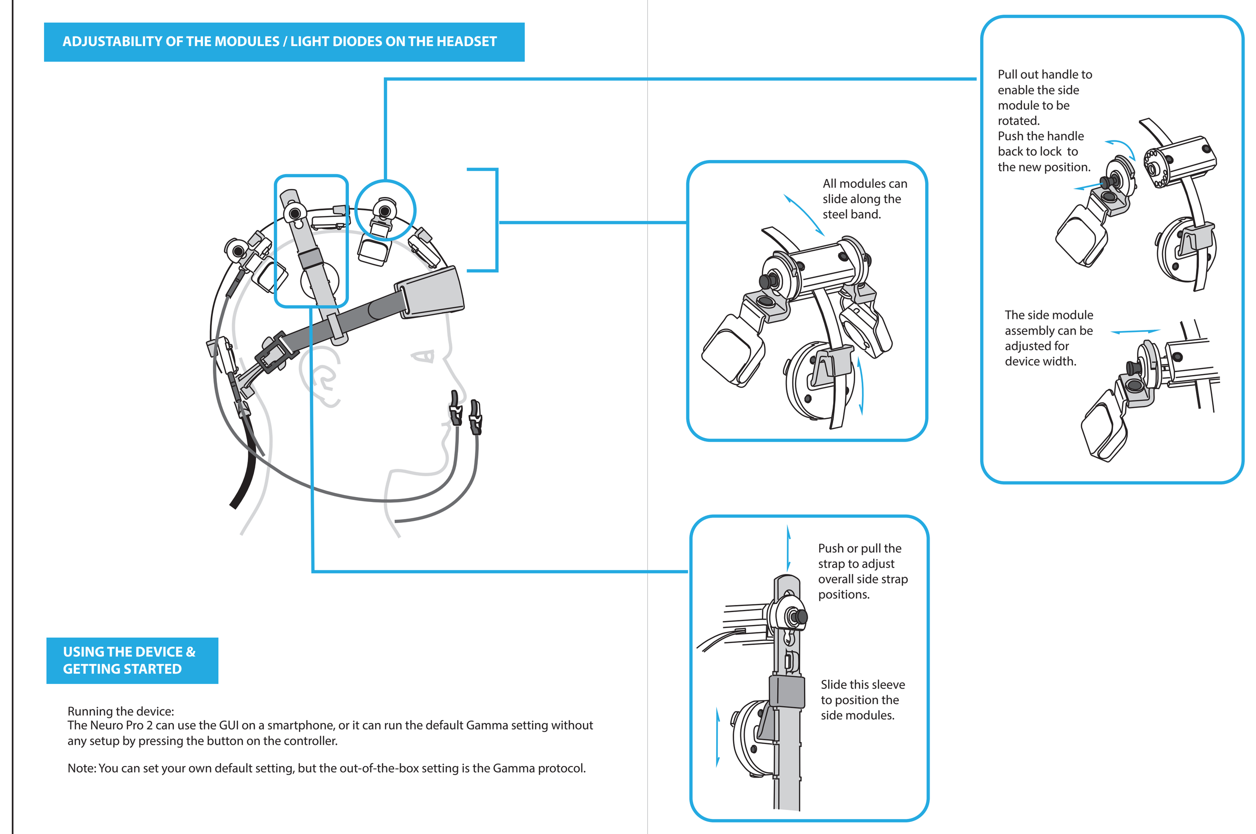
For consistency, we recommend that NR be assigned to the right side, and NL to the left side. This will impact the use of certain embedded run protocols listed in the Library. Note that NR is connected to C3 and NL is connected to C4.

USING THE NASAL APPLICATOR

If the applicator does not stay on the nose, use the blue silicone sleeve. The sleeve has a smooth side and a ribbed side. Use the ribbed side for a stronger grip.



ADJUSTABILITY OF THE MODULES / LIGHT DIODES ON THE HEADSET

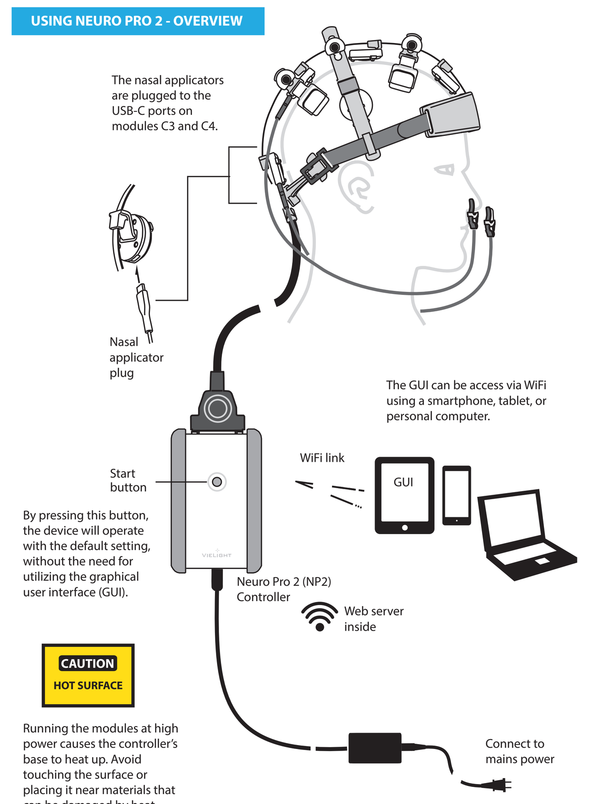


USING THE DEVICE & GETTING STARTED

Running the device:
The Neuro Pro 2 can use the GUI on a smartphone, or it can run the default Gamma setting without any setup by pressing the button on the controller.

Note: You can set your own default setting, but the out-of-the-box setting is the Gamma protocol.

USING NEURO PRO 2 - OVERVIEW

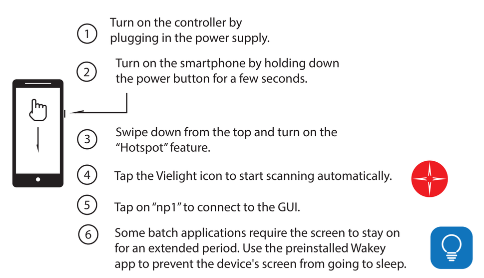


By pressing this button, the device will operate with the default setting, without the need for utilizing the graphical user interface (GUI).

CAUTION
HOT SURFACE

Running the modules at high power causes the controller's base to heat up. Avoid touching the surface or placing it near materials that can be damaged by heat.

ACCESSING THE GUI ON THE PROVIDED SMARTPHONE VIA "HOTSPOT"



1. Turn on the controller by plugging in the power supply.
2. Turn on the smartphone by holding down the power button for a few seconds.
3. Swipe down from the top and turn on the "Hotspot" feature.
4. Tap the Vielight icon to start scanning automatically.
5. Tap on "np1" to connect to the GUI.
6. Some batch applications require the screen to stay on for an extended period. Use the preinstalled Wakey app to prevent the device's screen from going to sleep.

CONNECTING YOUR PERSONAL DEVICES* TO THE GUI

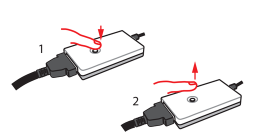
* Personal devices refers to smartphones, tablets, laptops, and PCs.

LAN Connection:

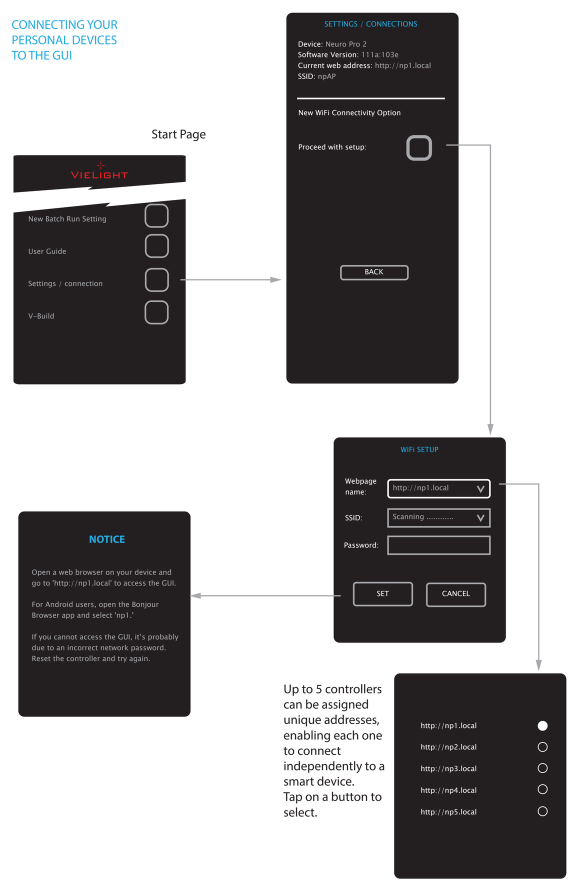
Make sure your personal device is connected to WiFi, then open the GUI on the smartphone using Hotspot. Follow these steps:
1. In the main menu, select "Settings/Connections".
2. Click "Proceed with setup."
3. Connect to the same WiFi network as your personal device by selecting the SSID (WiFi name) and entering the password.
4. Once connected, open a browser on your personal device and go to http://np1.local.
5. Your personal device is now ready to be used as the GUI for the Neuro Pro 2.

Special notes for Android phone users: Due to IP address changes each time you log in, please download the "Bonjour Browser" app from the Google Play Store and use it to locate "np1".

If the smartphone is connected to the GUI via LAN and you want to switch back to using the "Hotspot," you must reset the controller. To reset the controller, press and hold the push button for about 5 seconds. Release the button when you hear beeps and see flashing lights.



CONNECTING YOUR PERSONAL DEVICES TO THE GUI

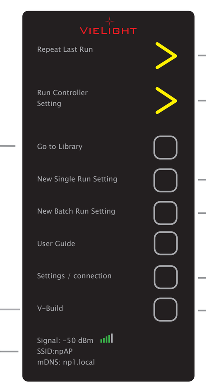


Up to 5 controllers can be assigned unique addresses, enabling each one to connect independently to a smart device. Tap on a button to select.

GUI SCREEN SHOTS & APPLICATIONS

START PAGE

Utilize the WiFi connection to access the GUI.



Repeat the last run.

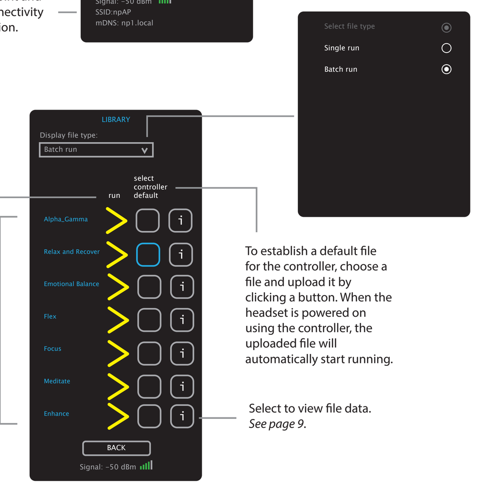
Initiate a run using the configuration saved in the controller's memory.

Click to begin generating run data using Vielight's proprietary building blocks.

See page 12.
See page 11.
See page 7.
See page 11.

Access Point and WiFi connectivity information.

LIBRARY



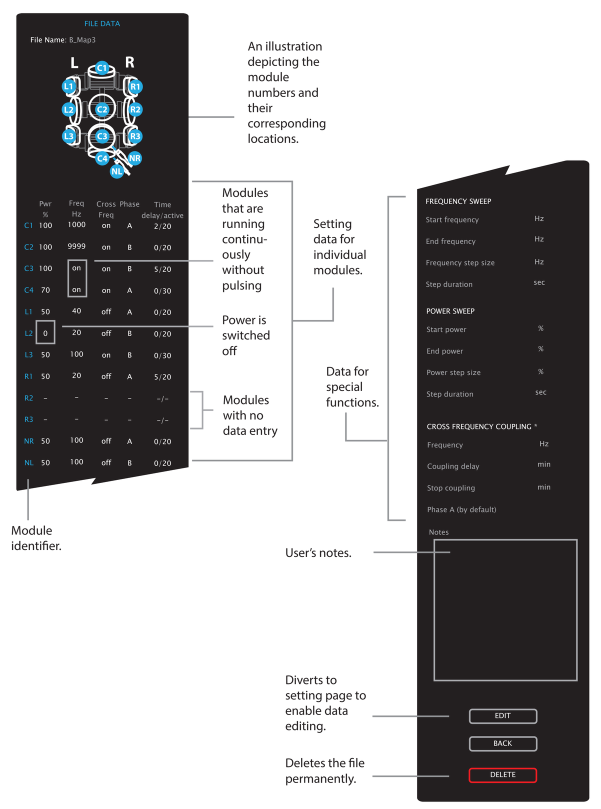
Select to run the file.

This feature exhibits a list of stored run data, displaying file names. The library is capable of accommodating a maximum of 100 data sets.

To establish a default file for the controller, choose a file and upload it by clicking a button. When the headset is powered on using the controller, the uploaded file will automatically start running.

Select to view file data. See page 9.

DATA INFORMATION PAGE



An illustration depicting the module numbers and their corresponding locations.

Modules that are running continuously without pulsing

Power is switched off

Modules with no data entry

Setting data for individual modules.

Data for special functions.

Module identifier.

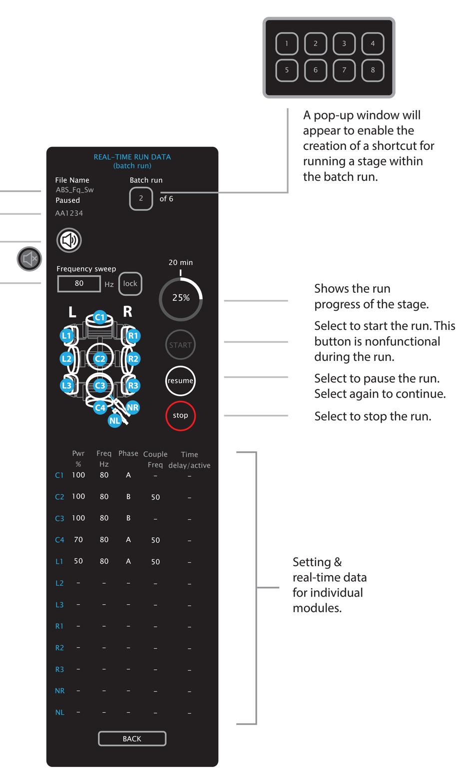
User's notes.

Diverts to setting page to enable data editing.

Deletes the file permanently.

REAL-TIME RUN PAGE

In this example, a batch process with 6 stages is depicted, and it is currently in stage 2, which involves sweep frequency.



Batch file name

Stage file name

Beeper ON/OFF switch

Displays the real-time sweep frequency value. To maintain this value throughout the rest of the run, click on "lock."

A pop-up window will appear to enable the creation of a shortcut for running a stage within the batch run.

Shows the run progress of the stage.

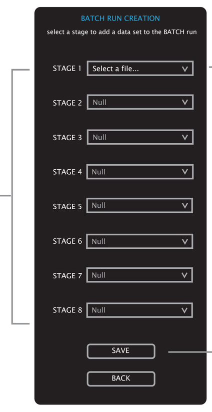
Select to start the run. This button is nonfunctional during the run.

Select to pause the run. Select again to continue.

Select to stop the run.

Setting & real-time data for individual modules.

BATCH RUN CREATION PAGE

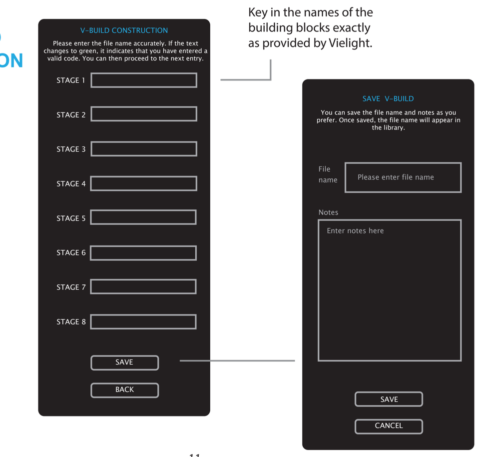


A total of 8 stages may be set in a batch run

Choose a file from the dropdown menu. The dropdown menu will only show single-run files, excluding batch files.

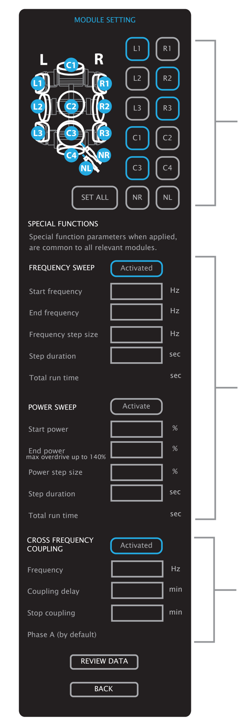
Go to save data page. See page 14.

V-BUILD CREATION PAGE



Key in the names of the building blocks exactly as provided by Vielight.

SINGLE RUN CREATION START PAGE

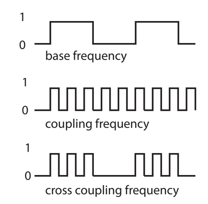


Tap to choose a module for entering data. Modules that are not selected will be turned off.

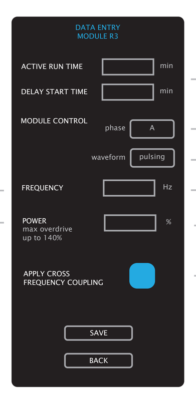
To access parameters for either frequency sweep or power sweep, select "Activate." It's important to note that only one of these sweep functions can be active at any given time. The calculated total run time takes precedence over other time-related inputs.

Enabling a sweep function will disregard any previously entered values for frequency/power and time. Disabling the sweep function will restore these entries.

Note that cross-frequency coupling must be activated first. After activation, it can be applied to each LED module individually. By default, cross-frequency coupling operates in Phase A.



MODULE DATA ENTRY



Time range: 0 to 99 minutes.

Setting phase synchrony as A or B. A and B are asynchronous to each other.

Setting light wave pattern to be continuously on, or pulsing.

Frequency range: 1 Hz to 9,999 Hz, or is continuously on, and is displayed as "ON."

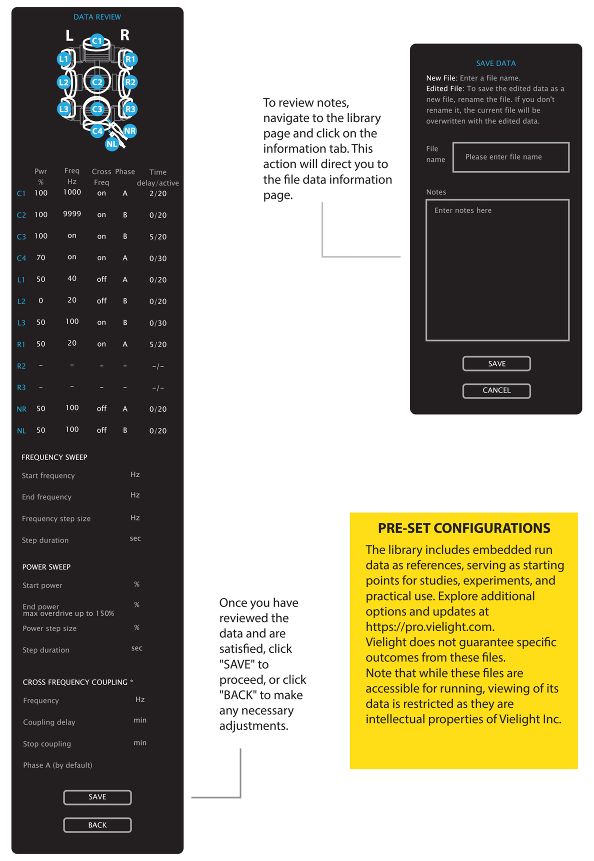
Power range: 0% to 140%.

Tap to activate cross-frequency coupling to the module.

The ability to input power data will be disabled when the power sweep feature is activated. You will see a display message indicating "POWER SWEEP APPLIED."

The ability to input frequency data will be disabled when the frequency sweep feature is activated. You will see a display message indicating "FREQUENCY SWEEP APPLIED."

REVIEW & SAVE DATA



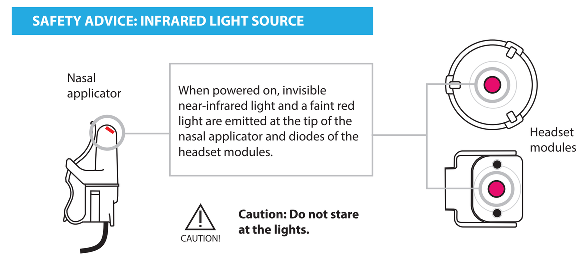
To review notes, navigate to the library page and click on the information tab. This action will direct you to the file data information page.

Once you have reviewed the data and are satisfied, click "SAVE" to proceed, or click "BACK" to make any necessary adjustments.

PRE-SET CONFIGURATIONS

The library includes embedded run data as references, serving as starting points for studies, experiments, and practical use. Explore additional options and updates at https://pro.vielight.com. Vielight does not guarantee specific outcomes from these files. Note that while these files are accessible for running, viewing of its data is restricted as they are intellectual properties of Vielight Inc.

SAFETY ADVICE: INFRARED LIGHT SOURCE



When powered on, invisible near-infrared light and a faint red light are emitted at the tip of the nasal applicator and diodes of the headset modules.

CAUTION! **Caution: Do not stare at the lights.**

Most people do not experience physical discomfort while using the Neuro Pro 2, although some feeling of warmth is common.

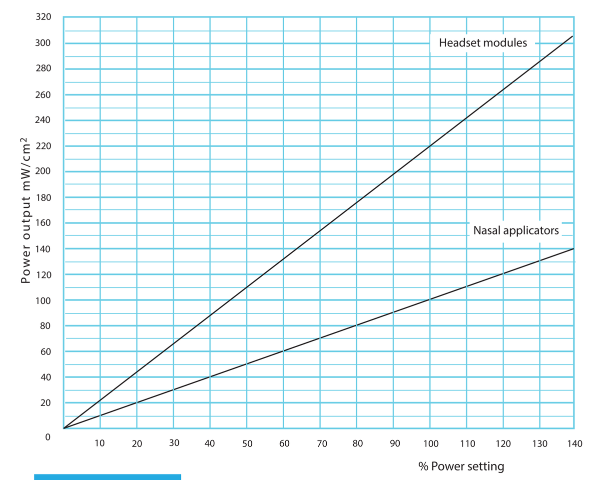
NOTE: When using the Vielight Neuro Pro, users should not experience any adverse physical sensation. If you experience discomfort, stop the device and try lowering the power. For further assistance, contact Vielight's Neuro Pro team at +1 855-777-3830 (North America) or email: pro.support@vielight.com

We recommend users who feel mentally healthy to limit their use of the device to the default time of 20 minutes, once every other day. Because individual sensitivity to photobiomodulation can vary, users are advised to observe the effects on themselves and adjust the frequency of use accordingly.

CARE AND CLEANING

1. To clean the nasal applicator, wipe gently with 70% alcohol or antiseptic wipes, clean gently with soap and water, or sanitize with a UV lamp.
2. Use a soft, dry cloth to clean the other surfaces. Do not use abrasive cleaners.
3. Do not submerge any of the components on the headset in liquid or cover with other material during use.
4. Store in a dry and dust-free location at temperatures between 10° C to 40° C, away from direct sunlight.
5. We do not recommend sharing devices and nasal applicators for hygiene safety reasons.

POWER SETTING PERCENTAGE vs OUTPUT POWER



SPECIFICATIONS

LED Output Specifications (full spectrum):
Headset modules: 810 nm LED, max output 305 +/- 10% mW/cm^2 x 10 units
Nasal applicator: 810 nm LED, max output 100 +/- 10% mW/cm^2 x 2 units

Output Module Parameters in GUI:
Power output: 0% to 140%
Output frequency: 1 Hz to 9,999 Hz
Run time: 0 to 99 minutes
Delay start time: 0 to 99 minutes
Phase: A & B (A is anti-phased/asynchronous to B). Phase A is assigned to cross-coupling frequency
Duty cycle: pulse (50%), on (100% or continuous)
Frequency sweep: Frequency step size: 1 Hz to 9,999 Hz
Frequency step duration: 1 to 999 seconds
Power sweep: Power step size: 1% to 100%
Power step duration: 1 to 999 sec
Cross-frequency coupling: Frequency step size: 1 Hz to 9,999 Hz
Frequency step duration: 1 to 999 seconds

Peripherals:
Power adapter: AC Input: 100-240 V, 1 A, 50/60 Hz
DC Output: 5 V, 5 A
Power bank: DC Output: 5V, 5A, 20,000 mAH, configured to work with Vielight NP2 devices

TROUBLESHOOTING TIPS

Issue	Action
Some LED modules do not light up.	• The run data settings could have been configured in this manner. Check the relevant settings in the Neuro Pro 2 GUI to verify this. • Ensure that all connectors are correctly and securely plugged in. • Make sure you are using the appropriate power bank for this device, such as the Vielight power bank, or consider using the power adapter. • If the issue persists, it may be due to a hardware fault. In such cases, please reach out to our customer service for assistance.
The WiFi link is not working	• Ensure that the Neuro Pro 2 controller is powered on. • If you're using a different smart device than the one supplied, follow the steps on pages 6 and 7 carefully. • If you have more than one NP2 controller, check for web address conflicts in the "Settings / Connection" section. • With AP (direct connection), ensure no other devices are connected via Hotspot. • If needed, reset the controller by following the instructions on page 6. • Verify that your LAN or Hotspot connection is active.
The NP2 app is sluggish	• This is due to poor connectivity. Use the signal strength indicator on the main page to adjust the controller's position for improved connectivity. For better performance, consider using AP mode to connect through the Hotspot.
How to establish a direct connection (AP mode) between the controller and my personal device.	• This can be done using a smartphone. • For iOS (Apple) devices: On General>About>Name Change the phone's name to "npAP." On Personal Hotspot tab enable "Allow Others to Join," and set the password to "np@12345." Enable "Maximize Compatibility". Then, open a browser and go to "http://np1.local" to access the GUI. • For Android devices: On Settings app>connections>Mobile Hotspot Enable the Hotspot, set the network name to "npAP," and the password to "np@12345." Then, download the Bonjour Browser app and use it to find "np1" to access the GUI.

SYMBOLS AND COMPLIANCE

Read this guide thoroughly before use.

WARNING! The near-infrared (NIR) light emitted from this product may cause eye irritation. Do not stare at operating diodes for an extended amount of time.

Caution: Optical radiation aperture
NIR emitted from this device may cause eye irritation.
Do not stare directly at the IR sources.

Interference may occur in the vicinity of known radio frequency (RF) transmitting devices and equipment marked with this symbol.
Do not drop or physically alter the device or provided components.

Caution: This device operates using repeated exposure to near infrared radiation (NIR).

REF Neuro Pro

Vielight Inc.
346A Jarvis Street
Toronto ON M4Y 2G8
Canada

WEEE Directives:
Managing E-Waste in the EU

RCM compliant

CAN-ICES-3(B)/NMB-3(B)
Product tested against EN 62471

WiFi Module Certification
WiFi Certified, WiFi Alliance
RSS-247 Issue 2:2017
FCC ID: 2AC7Z-ESP32WROOMM32E
R-C-es5-ESP32WROOM32E
2014/53/EU
EN 300 328 V2.2.2 (2019-07)
EN 301 489-1 V2.2.3 (2019-11)
EN 301 489-17 V3.2.4 (2020-09)
EN 623 68-1:2014+A11:2017
EN IEC 62311:2020
Japan MIC 217-204070
CMIIT ID:2020DP2713
CCAK21Y10020T0

CE
CISPR 32:2012/
EN 55032:2012
CISPR 24:2012/
EN 55024:2010

TECHNICAL SUPPORT

Please go to https://pro.vielight.com/support for more information about receiving technical support.

Technical support is available:
a. via online chat at https://pro.vielight.com/support
b. by email: pro.support@vielight.com
c. by telephone: +1 855-777-3830

To access our technical support and information sharing forums, please send an email to pro.support@vielight.com with your Neuro Pro ID for an invitation to join: community.vielight.com.

DISCLAIMER

The Vielight Neuro Pro 2 is currently classified as a general wellness device in the USA, as a consumer product in Canada, and as electrical equipment in the EU.
Please note that the Vielight Neuro Pro 2 is not a medical device under any jurisdiction and is not intended to diagnose, treat, cure, or prevent any disease.
The information presented in the Neuro Pro forum(s), Vielight Inc. website(s), or any other Vielight Inc. communication materials, is neither a substitute for nor an alternative to the advice of a licensed healthcare practitioner. Please consult your licensed healthcare professional for any medical advice.
Vielight Inc. is not a licensed healthcare provider and does not provide any medical advice. No medical advice should be inferred from any idea, suggestion, testimonial, or other information set forth in the Neuro Pro forum(s), on the Vielight Inc. website(s), in any other Vielight Inc. materials, or information provided over the phone, on product packaging, or in any email correspondence.

LIMITED TWO-YEAR WARRANTY

Your Vielight Neuro Pro 2 is warranted to be free of defects in materials and workmanship pertaining to its normal, intended use. As a member of the Neuro Pro community, your warranty is extended to a period of two years from your purchase date. Within this period, repairs, or exchanges of parts that are deemed necessary by Vielight Inc. will be made free of charge.

This warranty does not cover damage by the following:
a. Misuse, abuse, or alteration to the product.
b. Damage caused by accident or neglect.
c. Service or repairs made by unauthorized persons.
d. Non-device materials used for packaging, such as carry case and mesh bag.

IMPORTANT:
Vielight Inc. is not responsible for any incidental, special, or consequential damages resulting from the use of this product.

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VIELIGHT
The Life Light®

NP2GUI- 101024.0