

# Nerveäna System Settings

Press the power button and verify the Nerveäna's settings match those shown below.



# Nerveäna® Impedance Guidelines

After the monitor's electrodes have been applied and connected to the EMG cable, it is possible to test their connection from the patient to the machine.

- 1) Hold test button for six seconds (24 beeps) and release.
- 2) Note the three flashing numbers presented in order *(reading 1 to 3).*
- 3) Confirm these numbers are within the parameters listed in the table below.

Electrode	Reading 1 (kΩ)	Reading 2 (kΩ)	Reading 3 (kΩ)
Using ET tube Electrodes	0.2 - 1.2	2.0 or less	2.0 or less
Using Needle or Hydrogel Electrodes	less than 10	less than 10	less than 10

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#### Scorpion Stimulator Instrument Setup

- Locate the sterile Stimulator Lead Wire and Needle Electrode Pack. Remove the needle electrode (white wire). Apply subdermally to the patient's shoulder.
- 2) Plug the white connector into the color-coded port on the STIM cable assembly.
- 3) Open and drop the red stimulator lead wire on the scrub table in a sterile manner.
- 4) Instruct the scrub nurse to pass the black connector end of the stimulator lead wire off of the sterile field.
- 5) Insert the black connector of the red lead wire into the red color-coded port of the STIM cable assembly.
- 6) Direct the scrub nurse to connect the blue end of the stimulator lead wire to the post of the Scorpion instrument.
- 7) If using a Single-Use Scorpion Stimulator Instrument skip #1 & #3. Open package and locate needle electrode (white wire) and apply subdermally to patient's shoulder. Open the sterile instrument package and drop the instrument with pre-attached red lead wire on the scrub table in a sterile manner. Proceed with #4 & #5 and skip #6.
- 8) **If using a Drytouch or Hummingbird Probe**, plug its black connector into the remaining open STIM port.
- 9) To verify stimulator function, first test on exposed muscle and listen for the "tic" confirmation before beginning nerve location or generalized EMG monitoring.





# Nerveäna Setup Instructions



for

Thyroidectomy, Parathyroidectomy and Anterior Cervical Discectomy and Fusion CN X/RLN Monitoring

#### Parotidectomy and Otologic Surgery CN VII/Facial Nerve Monitoring

**Neck Dissection** *CN XI/Accessory Nerve Monitoring* 



#### Nerveäna<sup>®</sup> Setup

Charge the Nerveäna® for 12 hours before use. Confirm that a sterilized Scorpion<sup>™</sup> instrument is available. Begin setup by placing the Nerveäna® battery powered device on a stand within 6 ft. of the patient's head. Connect cable assemblies labeled EMG and STIM to the ports at the back of the machine. Secure the labeled ends of the cables to the head of the OR table using the metal clips attached to the cables.



#### Applying the Tadpole<sup>®</sup> surface electrode

Locate the Tadpole<sup>®</sup> hydrogel electrode pouch. Apply the electrode to the patient's forehead. Before applying Tadpole<sup>®</sup> electrodes, utilize the 10-2-10 method. Stretch the skin and make 10 scuffs using the abrasive pad found in the electrode package. Next, wipe the area 2 times using an alcohol wipe. Wait 10 seconds to allow the area to dry. Place electrodes firmly and cover with tape.



## Choose from one of the following surgical setups:

### Use in Thyroidectomy, Parathyroidectomy and Anterior Cervical Discectomy and Fusion Setup for CN X/RLN Monitoring

- Locate the Dragonfly<sup>®</sup> or Cobra<sup>™</sup> laryngeal electrode peel pouch and the electrode instructions.
- If using a Dragonfly<sup>®</sup> electrode, ask the Anesthesiologist or surgeon to apply the electrode to the ET tube then intubate the patient.
- Connect the blue and red electrode wires to the color coded ports on the EMG cable assembly.
- Plug the green Tadpole<sup>®</sup> hydrogel electrode lead wire into the color coded port on the EMG cable assembly and proceed to step #3.

#### For Parotidectomy and Otologic Surgery Setup for CN VII/Facial Nerve Monitoring

- Locate the packages with the Nerveäna<sup>®</sup> dual-head needle electrodes (NPEMG) or paired hydrogel (HGELP).
- Apply the dual-head needle or hydrogel electrodes with red and blue wires alternating, blue to lower lip and lower eyelid, red to upper lip and forehead. Place the electrodes on the same side as the surgical dissection.
- Drape the electrode lead wires over the face away from dissection and plug the green, red and blue connectors to the color coded ports of the EMG cable assembly and proceed to step #3.

## **For Neck Dissection**

Setup for CN XI/Accessory Nerve Monitoring

- Locate the packages with the Nerveäna<sup>®</sup> dual-head needle electrodes (NPEMG) or paired hydrogel (HGELP).
- Apply the dual-head needle electrodes or hydrogel electrodes with red lead wires to the trapezius area of the shoulder on the same side as the dissection.
- Apply the dual-head needle or hydrogel electrodes with the blue lead wires to the appropriate branches of the facial nerve for additional monitoring coverage.
- Plug the green, red and blue connectors into the color coded ports of the EMG cable assembly and proceed to step #3.

