


















Nalu™ Medical, Inc.










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NALU™ NEUROSTIMULATION SYSTEM  
USER INSTRUCTIONS FOR USE

## EXPLANATION OF SYMBOLS ON PRODUCT OR PACKAGE

Refer to the appropriate product for symbols that apply.

Symbol	Title	Explanation	Standard	Reference
	Manufacturer	Medical device manufacturer, as defined in EU Directive 93/42/EEC	ISO 15223-1	5.1.1
	Date of manufacture	Date when the medical device was manufactured.	ISO 15223-1	5.1.3
	Use-by date	Date after which the medical device is not to be used.	ISO 15223-1	5.1.4
	Batch code	Manufacturer's batch code so that the batch or lot can be identified.	ISO 15223-1	5.1.5
	Catalogue number	Manufacturer's catalogue number so that the medical device can be identified.	ISO 15223-1	5.1.6
	Do not use if package is damaged	Medical device should not be used if the package has been damaged or opened.	ISO 15223-1	5.2.8
	Keep away from sunlight	A medical device that needs protection from light sources.	ISO 15223-1	5.3.2
	Keep dry	A medical device that needs to be protected from moisture.	ISO 15223-1	5.3.4
	Temperature limit	The temperature limits to which the medical device can be safely exposed.	ISO 15223-1	5.3.7
	Humidity limitation	Indicates the range of humidity to which the device can be safely exposed	ISO 15223-1	5.3.8
	Atmospheric pressure limitation	Indicates the range of atmospheric pressure to which the device can be safely exposed	ISO 15223-1	5.3.9
	Do not re-use	A medical device that is intended for one use, or for use on a single patient during a single procedure.	ISO 15223-1	5.4.2
	Consult instructions for use	Indicates the need for the user to consult the instructions for use.	ISO 15223-1	5.4.3
	Refer to instruction manual/booklet.	Indicates the instruction manual/booklet must be read. (This symbol is blue and white on the device label)	ISO 7010:2011	M002
	Caution	User to consult the instructions for use for important cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the medical device itself.	ISO 15223-1	5.4.4

	MR Conditional	Medical device demonstrated safety in the MR environment within defined conditions.	ASTM F2503-13	Fig. 6
	MR Unsafe	Medical device poses unacceptable risks to the patient, medical staff or other persons within the MR environment.	ASTM F2503-13	Fig. 9
	Radio Transmitter	Device contains a radio-frequency (RF) transmitter, which may cause RF interference with other devices near this device	IEC 60601-1-2:2007	5.1.1
<b>R<sub>x</sub> Only</b>	Prescription use only	Caution: Law prohibits dispensing without prescription	21 CFR 801.109	N/A
	Quantity	Indicates the total number of products provided in a package.	N/A	N/A
	Serial Number	Manufacturer's serial number so that a specific medical device can be identified.	ISO 15223-1	5.1.7
<b>BEST BEFORE</b>	Best Before	This device is best used before this date.	N/A	N/A
	Authorized Representative in the European Community	Authorized representative in the European Community	ISO 15223-1	5.1.2
	Protected against electric shock	Device contains a type BF applied part to protect you from shock. The device is internally powered and is intended for continuous operation	IEC 60417	5333
<b>IP22</b>	Protected against access to certain hazardous parts	Protected against solid objects over 12.5mm (e.g., a finger) and protected against falling drops of water, if the case is disposed at any angle up to 15 degrees from vertical	IEC 60529	N/A
<b>IP67</b>	Protected from dust and temporary immersion in water	Protected from dust and against effects of immersion in water up to 1m depth for 30 mins	IEC 60529	N/A
	FCC	This symbol indicates that this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.	47 CFR 2.926	N/A
	Do not throw in the trash	<p>This product shall not be treated as household waste. Instead it is the user's responsibility to return this product to Nalu Medical for reprocessing.</p> <p>By ensuring that this product is disposed of properly, you will help prevent potential negative consequences for the environment and human health, which could be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.</p> <p>For more information about how to return this product for recycling, please contact Nalu Medical.</p>	BS EN 50419 Marking of Electrical and Electronic Equipment in Accordance with Article 11(2) of Directive 2002/96/EC (WEEE)	Fig. 1

## TABLE OF CONTENTS

Introduction.....	6
Indications for Use.....	6
Permanently Implanted System Description .....	6
Implantable Pulse Generator .....	6
Leads .....	6
Therapy Disc .....	6
Trial System Description.....	6
Leads .....	7
Trial Therapy Disc .....	7
Lead Extension .....	7
Electrode Interfacing Cable.....	7
System Accessories .....	7
Adhesive Clip .....	7
Relief Belt.....	7
Limb Cuff.....	7
Remote Control .....	7
Charger .....	7
<b>Safety Information .....</b>	<b>7</b>
Contraindications.....	7
Warnings .....	8
Precautions.....	11
<b>Adverse Event Summary .....</b>	<b>13</b>
<b>Therapy Disc .....</b>	<b>16</b>
Description.....	16
Therapy Disc Features .....	16
Powering ON the Therapy Disc.....	17
Connecting the Therapy Disc with the Nalu Implantable Pulse Generator .....	17
Connecting the Trial Therapy Disc (For the Trial System Only).....	17
Increasing Stimulation from the Therapy Disc .....	18
Decreasing Stimulation from the Therapy Disc.....	18
Changing the Stimulation Program from the Therapy Disc.....	18
Low Battery Mode on the Therapy Disc .....	18
Powering OFF the Therapy Disc .....	18
<b>Adhesive Clip .....</b>	<b>20</b>
Description.....	20
Preparing Your Skin .....	20
Applying the Clip .....	20
Placing the Therapy Disc into the Adhesive Clip.....	21

Removing Therapy Disc .....	21
Adhesive Wear Time .....	21
Removing the Clip .....	21
<b>Relief Belt .....</b>	<b>22</b>
Description.....	22
Placing the Therapy Disc in the Relief Belt Pocket .....	22
Removing the Therapy Disc from the Relief Belt Pocket .....	22
Wearing the Relief Belt.....	22
Removing the Relief Belt.....	22
Belt Care.....	22
<b>LIMB CUFF INSTRUCTIONS FOR USE .....</b>	<b>23</b>
<b>Charger .....</b>	<b>24</b>
Description.....	24
Powering Up the Charger .....	24
Charging the Therapy Disc.....	24
Removing the Therapy Disc .....	24
Powering Down the Charger .....	25
<b>Troubleshooting .....</b>	<b>25</b>
<b>Safety and Technical Checks .....</b>	<b>26</b>
<b>Cleaning Your Device.....</b>	<b>26</b>
Cleaning the Therapy Disc .....	26
Cleaning the Trial Therapy Disc .....	26
<b>Therapy Disc, Charger, and Clip Disposal .....</b>	<b>26</b>
<b>Environmental Conditions for Storage and Operation .....</b>	<b>27</b>
Therapy Disc .....	27
Therapy Disc Charger .....	27
Adhesive Clip.....	27
<b>Identification Card .....</b>	<b>27</b>
<b>When to Call Your Clinician.....</b>	<b>27</b>
<b>Kit Contents .....</b>	<b>28</b>
<b>Device Specifications.....</b>	<b>29</b>
Radiofrequency (RF) and Wireless Data Parameters.....	32
Quality of Service for Wireless Technology .....	32
Troubleshooting for Wireless and Coexistence Issues .....	33
Statement of FCC Compliance .....	33
<b>Magnetic Resonance Imaging (MRI) Safety information (SCS).....</b>	<b>35</b>
<b>Magnetic Resonance Imaging (MRI) Safety information (PNS).....</b>	<b>41</b>
<b>Contact Information.....</b>	<b>44</b>

## Introduction

This user manual gives detailed instructions on how to use your Nalu™ Neurostimulation System. It includes instructions for both the Permanently Implanted System and the Trial System.

## Indications for Use

### Spinal Cord Stimulation (SCS)

This system is indicated as the sole mitigating agent, or as an adjunct to other modes of therapy used in a multidisciplinary approach for chronic, intractable pain of the trunk and/or limbs, including unilateral or bilateral pain.

The trial devices are solely used for trial stimulation (no longer than 30 days) to determine efficacy before recommendation for a permanent (long term) device.

### Peripheral Nerve Stimulation (PNS)

This system is indicated for pain management in adults who have severe intractable chronic pain of peripheral nerve origin, as the sole mitigating agent, or as an adjunct to other modes of therapy used in a multidisciplinary approach. The Nalu Neurostimulation System for PNS is not intended to treat pain in the craniofacial region.

The trial devices are solely used for trial stimulation (no longer than 30 days) to determine efficacy before recommendation for a permanent (long term) device.

## Permanently Implanted System Description

The Permanently Implanted Nalu Neurostimulation System is comprised of wirelessly powered Implantable Pulse Generator, lead(s), anchor(s) and a Therapy Disc. The Nalu Implantable Pulse Generator and lead(s) are designed to be implanted and configured by qualified medical professionals. The Therapy Disc is designed to be worn when stimulation is needed. Stimulation programs can be selected and adjusted from the Therapy Disc or a remote-control application.

A Nalu Neurostimulation System Clinician Programmer is used by your clinician or a Nalu representative under a clinician's guidance to set up your stimulator and make adjustments later if needed.

### Implantable Pulse Generator

The Nalu Implantable Pulse Generator is the implanted battery-free, microstimulator that receives power and stimulation commands from the Therapy Disc. The service life of the Implantable Pulse Generator is 10 years.

### Leads

Leads are surgical wires that connect to the Nalu Implantable Pulse Generator and transfer stimulation from the implanted pulse generator to the target location.

### Therapy Disc

The Therapy Disc is the externally worn transmitter module that powers and sends stimulation commands to the Nalu Implantable Pulse Generator. The Therapy Disc is positioned externally over the implant using an adhesive retention clip or textile belt and may be controlled using integrated buttons or via the Nalu Remote Control application. The service life is 3 years for the Therapy Disc and Charger and 1 year for the Trial Therapy Disc.

The term "Therapy Disc" is applicable to both the Trial Therapy Disc and the Therapy Disc unless otherwise indicated in this document.

## Trial System Description

The Trial Nalu Neurostimulation System is comprised of implanted leads, lead extensions, Electrode Interfacing Cable and extension, and a Trial Therapy Disc for a trial period. The trial period is used to determine whether spinal cord stimulation and the Nalu Neurostimulation System are appropriate for you.

## **Leads**

Leads are surgical wires that transfer stimulation from the Trial Therapy Disc to the target location.

## **Trial Therapy Disc**

The Trial Therapy Disc powers and sends signals to the implanted leads during the trial period.

## **Lead Extension**

The lead extension adds additional length to a lead to connect to the Electrode Interfacing Cable, as needed, for connection to the Trial Therapy Disc.

## **Electrode Interfacing Cable**

The Electrode Interfacing Cable connects the leads or the lead extensions with the Trial Therapy Disc during the user's Nalu Neurostimulation System trial period.

## **System Accessories**

### **Adhesive Clip**

The adhesive clip holds the Therapy Disc in place over the Implantable Pulse Generator location.

### **Relief Belt**

The relief belt holds the Therapy Disc in place over the Implantable Pulse Generator location.

### **Limb Cuff**

The limb cuff holds the Therapy Disc in place over the Implantable Pulse Generator location.

### **Remote Control**

The Nalu Remote Control Application is an application that runs on Android and IOS platforms and can be optionally used to control and manage Therapy Discs over a secure Bluetooth® Low Energy connection.

### **Charger**

The Nalu charger recharges the batteries inside both the Therapy Discs.

## **SAFETY INFORMATION**

### **Contraindications**

Users contraindicated for this therapy are those who:

- Are unable to operate the system
- Have failed trial stimulation by failing to receive effective pain relief
- Are poor surgical risks
- Are pregnant

**Exposure to shortwave, microwave, or ultrasound diathermy** – Diathermy should not be operated within the vicinity of a patient implanted with a Nalu Neurostimulation System or when wearing a Therapy Disc. The energy from diathermy can be transferred through the stimulator and cause tissue damage, resulting in severe injury.

**Occupational exposure to high levels of non-ionizing radiation that may interfere with therapy** – Patients who regularly work in environments with elevated levels of non-ionizing radiation should not be implanted with the device. The energy in high-level areas can be transferred through the device and cause tissue damage, resulting in severe injury. Examples of environments having high level non-ionizing radiation include the following:

- Radio or cell phone transmission stations
- Facilities using radiofrequency heat sealers or induction heaters

- Electric power infrastructure controlled environments (i.e. step down transformers or high voltage power lines)

**Implanted Cardiac or Other Neurostimulation Systems**—Patients who have implanted cardiac or other neurostimulation systems should not use the Nalu Neurostimulation System. Electrical pulses from the Nalu Neurostimulation System may interact with the sensing operation of an implanted cardiac or neurostimulation system, causing the system to respond inappropriately.

## Warnings

**Electromagnetic Interference (EMI)**—EMI is a field of energy generated by equipment found in the home, work, medical, or public environments. Very strong EMI can interfere with the System. The device includes features that provide protection from EMI. Most electrical device and magnets encountered in a normal day will not affect the operation of the System, however, strong sources of EMI could result in the following:

- Serious user injury resulting from heating of the implanted device and damage to surrounding tissue.
- System damage resulting in a loss of, or change in, symptom control that might require additional surgery.
- Operational changes to the Therapy Disc. This may cause the external device to turn on, turn off, or reset to factory settings. If this occurs, the Therapy Disc needs to be reprogrammed.
- Unexpected changes in stimulation, causing a momentary increase in stimulation or intermittent stimulation. Some users have described a jolting or shocking sensation. Although the unexpected change in stimulation may feel uncomfortable, it will not damage the device or cause direct injury to the user. In rare cases, as a result of the unexpected changes in stimulation, users have fallen down and been injured.

If you suspect that your Nalu Neurostimulation System is being affected by EMI, then you should:

- **For the Therapy Disc** – Remove or Turn Off
- **For the Trial Therapy Disc** – Disconnect and/or Turn Off Stimulation
- Immediately move away from the equipment or object.

**Electromagnetic Equipment/ Environments**—Avoidance of high electromagnetic equipment radiators or environments is highly encouraged. Examples of equipment and/or environments include the following:

- High-power amateur transmitters/antennas or citizen band (CB) radio or Ham radio used for private recreation, communication, and wireless experimentation.
- Electric arc welding or resistance welding equipment used for melting and joining metals or plastics.
- Industrial electric induction furnace/heater or electric arc furnace/heater used for melting metals and plastics.
- High-voltage areas identified by fenced areas, restricted access signs, and caution signs (safe if outside the fenced area).
- Microwave transmitters identified by fenced areas, restricted access signs, and caution signs (safe if outside the fenced area).
- Television, cell phone and radio towers identified by fenced areas, restricted access signs, and caution signs (safe if outside the fenced area).
- Linear power amplifiers used for increasing the power output of radio transmitters, wireless communication applications, audio equipment or other electronic equipment.
- Radio telemetry equipment used for tracking location of vehicles, equipment or animals.

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Nalu Neurostimulation System. Otherwise, performance degradation of the equipment might occur.

**Machinery or Heavy Equipment**—Machinery and heavy equipment (including vehicles) should not be operated while using the Nalu Neurostimulation System. Malfunction of the System could result in the loss of body control, body function, or a feeling that could render the user incapable of controlling the equipment.

**Theft Detectors and Metal Screening Devices** – Certain types of anti-theft devices, such as those used at the entrances/exits of department stores, libraries, and other public establishments, and/or airport security screening devices may affect stimulation. If you are sensitive to low stimulation thresholds, you may experience a momentary increase in perceived stimulation, which has been described as “uncomfortable” or “jolting”. Use caution when approaching such a device and request assistance to bypass the device. If you must proceed through the device, remove the Therapy Disc and proceed with caution, but be sure to move through the detector quickly.

**Temperature Rise During Stimulation** – During prolonged use of Therapy Disc the temperature of the device may rise by 1°C above ambient temperature. If the Therapy Disc becomes uncomfortable remove the device from the clip and discontinue use.

**When you are considering additional medical tests or treatments, please share the following Warnings with your clinician.**

**Active Implantable or Body-Worn Medical Devices**—Safety has not been established for users who use the Nalu Neurostimulation System with other active implantable or body-worn medical devices. Malfunction and/or damage could occur to either system that could result in harm to the user or other people nearby



**Magnetic Resonance Imaging (MRI)—MR Unsafe** – For the Nalu Neurostimulation System, the only components that are allowed into the MRI system room are the 40 cm Lead (Model 12001-040), the Nalu Anchor (Model 13001) and the Nalu Implantable Pulse Generators (Model 11001-040, 11002-040, 11003-002, 11004-002).

**All other components (i.e., the external component and programmer) are not permitted in the MRI system room.**



**Magnetic resonance imaging (MRI) – MR Conditional** – Prior to conducting or recommending an MRI examination on a patient with the Nalu Neurostimulation System, it is important to read and understand the entire section entitled, “**MAGNETIC RESONANCE IMAGING (MRI) SAFETY INFORMATION**” in the Table of Contents, which pertains to performing an MRI examination safely in a patient.

***These instructions apply only to the Nalu Neurostimulation System and do not apply to other products. If you have any questions, please contact Nalu Medical or visit Nalu’s website <www.nalumed.com>.***

***The only Nalu Medical components that are labeled and approved as MR Conditional are the Lead (Model 12001-040), the Nalu Anchor (Model 13001) and the Nalu Implantable Pulse Generators (Model 11001-040, 11002-040, 11003-002, 11004-002). All other components are MR Unsafe.***

**Computed Tomography (CT) Scanning**—Safety has not been established for CT scanning of users with a Nalu Neurostimulation System. X-rays from the scan could cause unintended shocks or malfunctions of the System, and may not be immediately detectable.

1. The CT operator should use CT scout views to determine if implanted medical devices are present and their location relative to the programmed scan range. For CT procedures in which the device is in or immediately adjacent to the programmed scan range, the operator should:

- a. Remove the Therapy Disc from the CT scan range.
  - b. Minimize X-ray exposure to the implanted device by:
  - c. Using the lowest possible X-ray tube current consistent with obtaining the required image quality.
  - d. Making sure that the X-ray beam is not placed over the Nalu Implantable Pulse Generator for more than a few seconds.
2. After CT scanning directly over the implanted device:
- a. Place the Therapy Disc on body/connect the Trial Therapy Disc and turn on stimulation.
  - b. Check for proper stimulation, and that indicator lights are operating as expected.
  - c. Shut off the Therapy Disc if it is suspected that the device is not functioning properly.

**Radiofrequency (RF) Ablation**—Safety has not been established for RF ablation in users with the device. RF ablation may result in heating and tissue damage. Do not use RF ablation anywhere near the device. If RF ablation is used, ensure that ablation is not performed over or near the device.

**Medical Devices/Therapies**— The following medical therapies or procedures may turn stimulation off or may cause permanent damage to the Nalu Implantable Pulse Generator particularly if used in close proximity to the device:

- Lithotripsy
- Electrocautery. Do not use monopolar cautery
- External defibrillation
- Radiation therapy
- Ultrasonic scanning
- High-output ultrasound
- Bone growth stimulators
- Dental Drills and Ultrasonic Probes
- Electrolysis
- Laser Procedures
- Radiation Therapy
- TENS (transcutaneous electrical nerve stimulation)

If the user is required by medical necessity to undergo any of the above therapies or procedures, the procedural guidelines below must be followed. Ultimately, however, the device may need to be explanted as a result of associated failure.

- Turn off stimulation of the Nalu Implantable Pulse Generator before the procedure or therapy.
- All equipment, including ground plates and paddles, must be used as far away from the Implantable Pulse Generator as possible.
- Bipolar electrocautery is recommended. Do not use monopolar electrocautery.
- Every effort should be taken to keep fields, including current, radiation, or high-output ultrasonic beams, away from the Implantable Pulse Generator.
- If radiation therapy is required, the area over the Nalu Implantable Pulse Generator should be shielded with Lead.
- Equipment should be set to the lowest energy setting clinically indicated.

- Instruct users to confirm Implantable Pulse Generator functionality following treatment by turning on the Implantable Pulse Generator and gradually increasing stimulation to the desired level.
- Damage from these procedures to the Nalu Neurostimulation System may not be detected immediately.

**Psychotherapeutic Procedures**—Safety has not been established for psychotherapeutic procedures using equipment that generates electromagnetic interference (e.g., electroconvulsive therapy, transcranial magnetic stimulation) in users who have spinal cord stimulators. Induced electrical currents can cause heating that may result in tissue damage.

**Other Medical Procedures**—EMI from the following medical procedures is unlikely to affect the device:

- Diagnostic x-rays or fluoroscopy
- Magnetoencephalography (MEG)
- Positron emission tomography (PET) scans
- Therapeutic magnets (e.g., magnetic mattresses, blankets, wrist wraps, elbow wraps)

**Painful Stimulation**—If the user experiences painful stimulation do the following:

**For Therapy Disc** – Remove or decrease the stimulation amplitude

**For Trial Therapy Disc** – Disconnect or decrease the stimulation amplitude

Contact your clinician if this continues to occur.

**Strangulation**— Entanglement in the Therapy Disc Charger cable, Electrode Interfacing Cable, or Relief Belt may cause a fall or strangulation.

**Tampering** - Do not modify or tamper with any component of the Nalu Neurostimulation System. Tampering with the device could result in harm. If the device is not working properly, contact your clinician for help.

## Precautions

**Clinician Training** – If you have a Nalu Neurostimulation System, please inform your regular clinician or specialist.

Your clinician should visit [www.nalumed.com](http://www.nalumed.com) for more information about the system prior to any medical procedures.

**Clinician Instructions**— Always follow the programs and therapy instructions established by your clinician. Failure to do so may cause the therapy to be less effective in providing pain relief.

**Post-Operative**— During the two weeks following surgery, it is important to use extreme care so that appropriate healing will secure the implanted components and close the surgical incisions:

- a. Do not lift objects of more than five pounds.
- b. Do not engage in rigorous physical activity such as twisting, bending, or climbing.
- c. If new Leads were implanted, do not raise your arms above your head.

Temporarily, there may be some pain in the area of the implant as the incisions heal. If discomfort continues beyond two weeks, contact your clinician.

If you notice excessive redness around the wound areas during this time, contact your clinician to check for infection and administer proper treatment. In rare cases, adverse tissue reaction to implanted materials can occur during this period.

Be sure to consult your clinician before making lifestyle changes due to decreases in pain.

**Medical Tests and Procedures** – Before undergoing medical tests or procedures, contact your clinician to determine if the procedure will cause damage to the user or to the System.

**When you are considering additional medical treatments, please share the following Precautions with your clinician.**

**The following precautions should be followed to properly use and care for your Therapy Disc and/or Trial Therapy Disc:**

**Use the Therapy Disc as Directed** – Use the Therapy Disc only as explained your clinician or as discussed in the User Manual. Using the Therapy Disc in any other manner could result in harm. Do not use any equipment or accessories that are not supplied with the Therapy Disc.

**Use of Another User’s Therapy Disc** - Use of another user’s Therapy Disc will not deliver therapy. The therapy programmed is a unique prescription for each user and their specific Nalu Implantable Pulse Generator.

**Handle the Therapy Disc with Care** – The Therapy Disc is a sensitive electronic device. Avoid dropping the device onto hard surfaces. Keep the Therapy Disc out of the reach of children, pests and pets.

**Keep the Trial Therapy Disc Dry** – The Trial Therapy Disc is not waterproof. Keep the Trial Therapy Disc dry to avoid damage.

**Avoid extended immersion with the Therapy Disc** – The Therapy Disc can get wet within certain limits. It is not recommended that the Therapy Disc be used during water activities. Upon shipment, the Therapy Disc is rated IP67 (protected from total dust ingress, protected from immersion between 15 centimeters and 1 meter in depth for 30 minutes) and over time with normal wear and use, the Therapy Disc may become more susceptible to damage by immersion.

**Clean the Therapy Disc** – When needed, clean the outside of the Therapy Disc with a damp cloth to prevent dust and dirt.

**Storage Temperatures** – The Nalu Neurostimulation System should be kept within the storage temperatures listed on product packaging. Exceeding the storage temperature can affect the performance of the device.

**Random Component Failure** – Although unlikely, a failure of the Nalu Neurostimulation System is possible due to random component failure. If any part of your Neurostimulation System stops working or changes how it works, remove the Therapy Disc and contact your Nalu representative.

**Unexpected Changes in Stimulation** – Electromagnetic interference, changes in posture, and other activities can cause a perceived increase in stimulation. Some users have described this as a jolting or shocking sensation. Before engaging in potentially unsafe activities you should do the following:

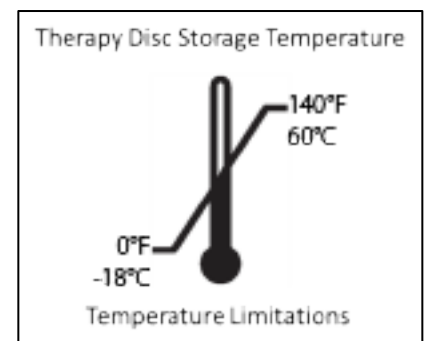
1. **For Therapy Disc** – Remove or Turn Off
2. **For Trial Therapy Disc** – Disconnect and/or Turn Off Stimulation

Discuss these activities with your clinician.

**Airline Policies** - Follow airline policies for use of medical spinal cord stimulation systems and electronic equipment during flights. Refer all questions to airline personnel. Carry your ID card with you at all times.

**Flammable or Explosive Environments** – Do not use the Therapy Disc in flammable or explosive environments. Using the Therapy Disc in one of these environments could result in harm.

**Activities Requiring Excessive Twisting or Stretching** – Avoid activities that could potentially put stress on the device. Activities that include sudden, excessive, or repetitive bending, twisting, bouncing, or stretching can cause your stimulator to fracture or migrate. This can result in a loss of stimulation, intermittent stimulation, and additional medical procedures.



**Scuba Diving or Hyperbaric Chambers** – Do not dive below 13 meters (45 feet) of water or enter hyperbaric chambers above 1.48 atmospheres absolute (ATA) with the Nalu Implantable Pulse Generator. These conditions can damage the device. Before diving or using a hyperbaric chamber, discuss the effects of high pressure with the clinician. Do not dive or enter hyperbaric chambers with the Therapy Disc.

**Remote Control Interference**– If interference is suspected during use of the remote control, confirm that the Bluetooth data transmission is operating properly. If the Nalu Remote Control application is not connecting to the Therapy Disc:

- a. Terminate the current stimulation program and shut down the Nalu Remote Control application.
- b. Check for sources of Bluetooth interference in the surrounding area.
- c. Remove or turn off the source of interference.
- d. Re-establish the Bluetooth link with the Therapy Disc through pairing.

Reopen the Nalu Remote Control application and resume the therapy.

**Adverse Environments** – Any user with a Nalu Neurostimulation System should seek medical guidance before entering environments which could adversely affect the operation of the Nalu Neurostimulation System, including areas protected by a warning against entry by users.

## **ADVERSE EVENT SUMMARY**

**Below is a list of side effects that may occur during surgery and/or during standard spinal cord stimulation:**

- Undesirable changes in stimulation sensation and/or location with or without user movement.
- Persistent post-surgical pain at hardware implantation sites.
- Seroma or hematoma at surgery sites.
- Spinal cord injury and or compression with subsequent neurological deficits - permanent or temporary.
- Stroke.
- Lead migration, causing the electrodes to move from the intended location.
- Implantable Pulse Generator migration, which may or may not require surgical intervention.
- Fracture of the lead(s) or failure of other system components, which may result in the loss of stimulation or untoward stimulation induced dysesthesias.
- Allergic or rejection reaction to the anesthesia, implanted components, or external components.
- Reaction to the selected antibiotics or to the Nalu device including: rash, diarrhea, abdominal pain, nausea/vomiting, dizziness, headaches, hypersensitivity (allergic) reactions
- Undesirable skin problems such as infection, irritation, blistering, tearing or allergic reactions that may occur during the use of any wearable component of the Nalu Neurostimulation System.
- Skin irritation, including redness, itchiness, and bumpiness
- Infection at implant site that may or may not require hospitalization and require treatment with antibiotic therapy or surgical intervention
- Cerebral spinal fluid (CSF) leak inclusive of those requiring active medical intervention.
- Inadequate pain relief or increase in pain following system implantation
- Wound complications that may require medical intervention inclusive of surgical management.
- Thromboembolic events requiring medical intervention; inclusive of deep vein thrombosis and pulmonary embolism.
- Death and/or catastrophic neurological complications.
- Anesthetic complications - e.g. nausea, urinary retention.
- Headache.
- Bleeding.

- Excessive fibrotic reaction to device leading to pain and/or new pain symptoms.
- Unexpected stimulation effects including but not limited to: chest wall stimulation, muscle stimulation, tremor, dyskinesia, superficial pain, cramping, light-headedness and metallic taste.
- Weakness.
- Numbness.
- Clumsiness.
- Tissue damage.
- Nerve damage.
- Paralysis.
- Swelling.
- Sensory loss.
- Discomfort during the treatment.
- Skin erosion around the Nalu Implantable system or at the site of the Nalu wearable devices.
- Battery failure
- Lead breakage requiring replacement of the Lead.
- Electromagnetic interference causing a change in System performance.
- Loss of therapeutic effect despite a functioning system.
- Hardware malfunction requiring replacement of the neurostimulator components.
- Pain from a non-injurious stimulus to the skin (allodynia).
- An exaggerated sense of pain (hyperesthesia).
- Change in stimulation that are possibly related to tissue changes around the electrodes, shifts in electrode position, loose electrical connections, and lead or extension fractures which have been described by some users as uncomfortable stimulation (a jolting or shocking sensation).
- Formation of reactive tissue in the epidural space around the lead can result in delayed spinal cord compression and paralysis, requiring surgical intervention. Time to onset can range from days to many years after implant.
- Arrhythmia.
- Cardiac arrest.
- Intracranial hypotension.
- Fracture of the lead(s) or failure of other system components.
- Loss of therapy or unpleasant paraesthesia.

Adverse effects of stimulation are usually mild and go away when stimulation is turned off. Contact your clinician immediately if you experience any problems. There may be changes in the level of pain control over time.

Notice: In the event of any serious incident that has occurred in relation to the Nalu Neurostimulation System, the user should report the incident to Nalu Medical at +1.800.618.3402 or visit [www.nalumed.com](http://www.nalumed.com).



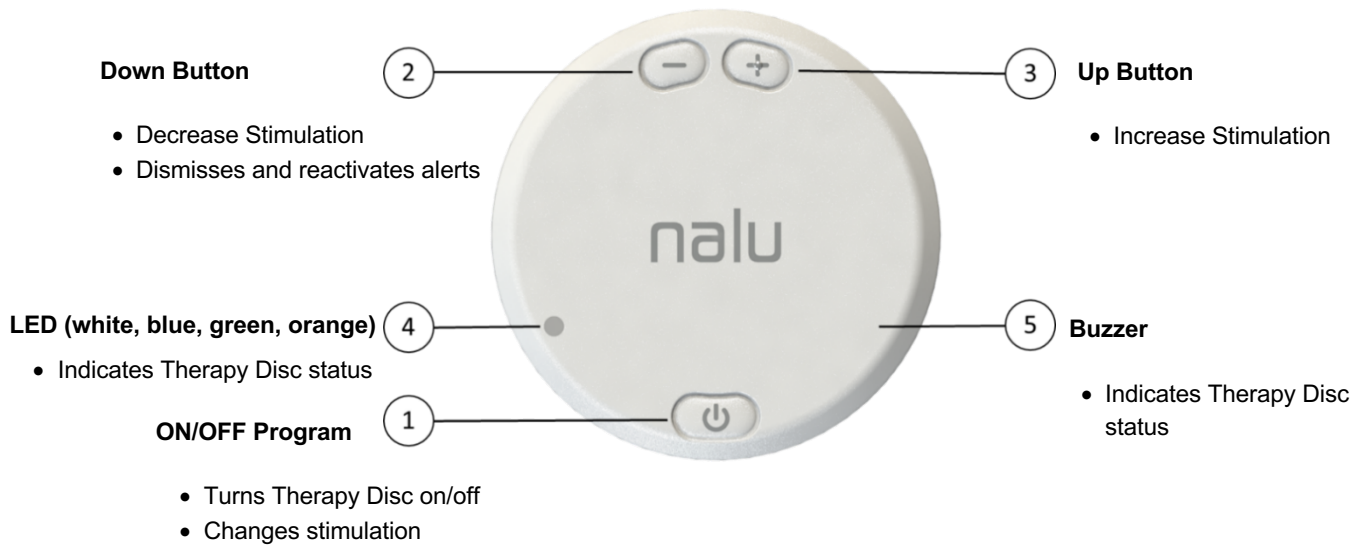
# THERAPY DISC

## Description

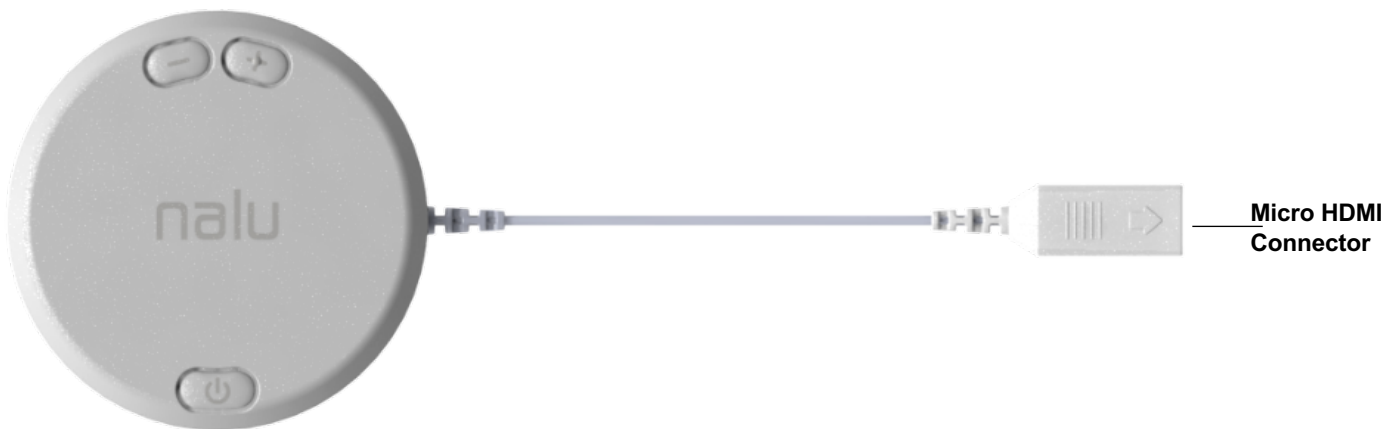
The Therapy Disc is a part of the Nalu Neurostimulation System that wirelessly powers and sends stimulation commands to the Nalu Implantable Pulse Generator. The Therapy Disc is positioned over the implant using an Adhesive Retention Clip or Relief Belt and may be controlled using integrated buttons or via a remote-control application (see Nalu Remote Control Application Instructions for Use for details). Battery life is optimal when the Therapy Disc is placed directly over the implant. You are provided with **two** Therapy Discs in the initial Nalu User's Kit, one to be used while the other is charging.

The Trial Therapy Disc has a wired connection to the lead or lead extension to provide stimulation during the trial period.

## Therapy Disc Features



Therapy Disc



Trial Therapy Disc

## Powering ON the Therapy Disc

1. Press and release the ON / OFF Program button.
2. Listen and watch.
3. The buzzer will beep and the white LED will blink to indicate battery level.

# white blinks/ beeps	Battery Level
4	Fully charged
3	$\frac{3}{4}$ charged
2	$\frac{1}{2}$ charged
1	$\frac{1}{4}$ charged
Orange	Discharged (low battery mode)

4. Following the white LED blinks, the green LED will blink to indicate the most recently used program. The number of green LED blinks corresponds to the current program.

## Connecting the Therapy Disc with the Nalu Implantable Pulse Generator

1. Place the Therapy Disc over the implant.
2. Three (3) short beeps will sound when the Therapy Disc connects to the implant.

**NOTE:** The Therapy Disc starts stimulation at the most recently used program and stimulation level.

**NOTE:** If the Therapy Disc becomes disconnected from the implanted Pulse Generator after having been connected, the Therapy Disc will beep once every second.

3. To dismiss the alert, press and hold the Up or Down button.
4. To reactivate the alert, press and hold the Up or Down button.

## Connecting the Trial Therapy Disc (For the Trial System Only)

1. Plug the micro HDMI adapter into the micro HDMI port on the Trial Therapy Disc as shown in Figure 1.
2. Three (3) short beeps will sound when the Trial Therapy Disc connects to the lead.

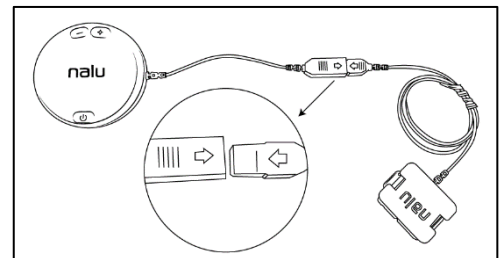


Figure 1: Connect Trial Therapy Disc to Electrode Interfacing Cable

## Increasing Stimulation from the Therapy Disc

1. Press and release the **Up** button.
2. The green LED will blink after each button press.

**Maximum Stimulation:** When at the maximum level of stimulation, further attempts to increase stimulation will cause the buzzer to beep twice and the orange LED to blink twice.

## Decreasing Stimulation from the Therapy Disc

1. Press and release the **Down** button.
2. The green LED will blink after each button press.

**Minimum Stimulation:** When at the minimum level of stimulation, further attempts to reduce stimulation will cause the buzzer to beep twice and the orange LED to blink twice.

## Changing the Stimulation Program from the Therapy Disc

1. Press and release the **ON / OFF** Program button.
2. The green LED will blink after the button press. The selected program will be indicated by the number of LED blinks. For example, if Program 4 is selected, the green LED will blink four (4) times.

**NOTE:** The Therapy Disc cycles through the programs in order. When the last program is reached, the next program will be Program 1.

**NOTE:** The maximum number of programs the Therapy Disc can hold is 8.

## Low Battery Mode on the Therapy Disc

1. When the device is in low battery mode, the orange LED will blink slowly and the buzzer will beep slowly seven (7) times every minute.
2. To dismiss the low battery indication, press and hold the Up or Down button. The white LED will remain lit while the button is held down.
3. To reactivate the low battery indication, press and hold the Up or Down button. The white LED will remain lit while the button is held down.

**NOTE:** Low battery mode disables stimulation, and disables program change and amplitude change buttons.

## Powering OFF the Therapy Disc

1. The buzzer will beep once every second when the Therapy Disc is disconnected from the implant after having been connected.
2. Press and hold the **ON / OFF** Program button.
3. The white LED will blink while the Therapy Disc shuts down completely. The white LED will stop blinking after the Therapy Disc has powered off.

Below is a table with button actions and the meaning of the corresponding LED or buzzer sound.

Action	LED indication	Buzzer indication	Meaning
Press ON / OFF Program Button to Power On	4 white blinks	4 beeps	Battery fully charged.
	3 white blinks	3 beeps	Battery $\frac{3}{4}$ charged.
	2 white blinks	2 beep	Battery $\frac{1}{2}$ charged.
	1 white blink	1 beep	Battery $\frac{1}{4}$ charged.
	Slow orange blinks.	7 slow beeps per minute.	Battery discharged (low battery mode).
Place Device Over Implant		3 short beeps.	Device is connected to implant.
		3 long beeps.	Device connection failed.
Short Press on the Up Button	1 green blink per press.		Stimulation increased.
	2 short orange blinks.	2 short beeps.	Maximum stimulation level reached.
Long Press on the Up Button			Dismiss/ reactivate alert.
Short Press on the Down Button	1 green blink per press.		Stimulation decreased.
	2 short orange blinks.	2 short beeps.	Minimum stimulation level reached.
Long Press on the Down Button			Dismiss/ reactivate alert.
Short Press on the ON / OFF Program Button When the Device is On	(#)* green blinks		Program (#)* selected.  *(#) indicates the program number. For example, Program 3 would have three green blinks.
	Orange blinks every second.	Beeps every second.	No communication with the implant.
Long Press on the ON / OFF Program Button to Power Off	White LED blinks for one second, and then stops blinking.		Device is off.

Below is a table with Therapy Disc button actions and timing.

Therapy Disc Action	Time
Short Press on Any Button	Press for <b>less</b> than one (1) second.
Long Press on Any Button	Press for <b>more</b> than one (1) second.
Therapy Disc Response	Time
Short Beeps / Blinks	Last for 0.1 seconds when the device is turned <b>ON</b> or <b>OFF</b> .
Long Beeps	Last for 0.5 seconds when the device is turned <b>ON</b> or <b>OFF</b> .
Slow Beeps / Blinks	Occur every 1.5 seconds.

## ADHESIVE CLIP



Figure 2: Clip

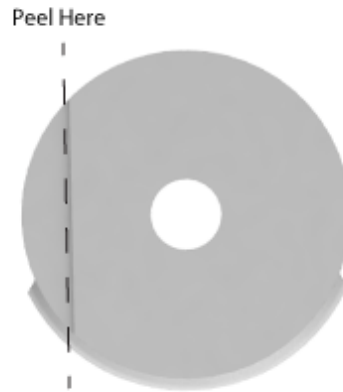


Figure 3: Clip (Back)



Figure 4: Clip and Therapy Disc

### Description

The single-use Adhesive Clip is designed to hold the Therapy Disc on the body using a skin friendly adhesive. The Adhesive Clip is placed over the implant and the Therapy Disc is inserted into the clip. The Adhesive Clip is not intended to be reused.

Your user kit contains the H100 Adhesive Clips (34005-002). If you experience moderate to severe skin reactions from the H100 Adhesive Clip, switch to the H300 Adhesive Clip (34005-003). If the H100 Adhesive Clip is not sticky enough, switch to the H200 Adhesive Clip (34005-001) for easier clip removals.

### Preparing Your Skin

1. Make sure your skin is clean and dry.
2. If necessary, trim hair with scissors or small beard trimmer. **Do not shave** since this can lead to irritation.
3. If desired, commercially available skin barrier wipes and sprays may be used to prep the skin.

### Applying the Clip

1. Remove the adhesive liner, as shown in Figure 5.

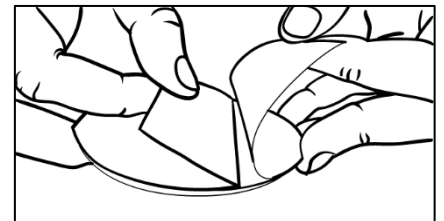


Figure 5 Remove Liner

2. Grasp the clip between your thumb and finger and place your index finger through the center hole. The clip should be held, as shown in Figure 6.



Figure 6 Clip Orientation

3. Use your inserted index finger and locate the implant site, as shown in Figure 7.
4. Once the implant site has been located, press the clip against your skin, ensuring the heel (where the therapy disc sits) is towards the bottom.

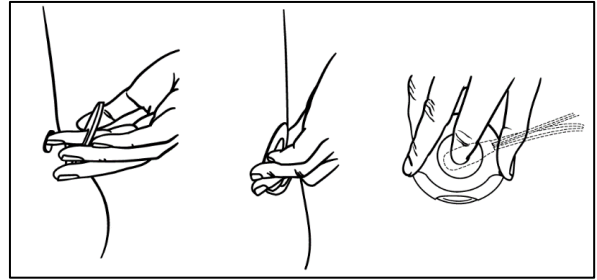


Figure 7 Locate Implant

## Placing the Therapy Disc into the Adhesive Clip

1. Slide the Therapy Disc into the open side of the clip until it clicks into place. Ensure that the buttons are facing away from your skin, as shown in Figure 8.

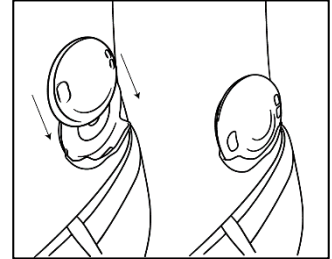


Figure 8 Load Therapy Disc

## Removing Therapy Disc

1. Grip the sides of the Therapy Disc.
2. Gently lift the Therapy Disc away from the surface of your skin and out of the clip, as shown in Figure 9.

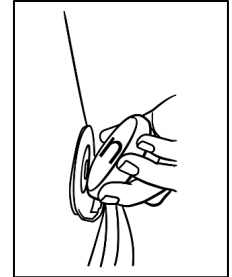


Figure 9 Remove Device

## Adhesive Wear Time

1. The wear time for the Adhesive Clip varies per activity level and skin type.
2. Wear the clip until it feels like it is coming loose or starts to feel uncomfortable.

## Removing the Clip

1. Remove the device from the clip.
2. **Make sure that the clip and adhesive are fully dry for easier removal.**
3. Using your finger, gently work between the adhesive and your skin to loosen it before pulling it off, as shown in Figure 10.
4. Hold down your skin and gently peel away the adhesive until it is fully detached as shown in Figure 11.
5. Discard the used clip.
6. It is recommended that any residue be cleaned using commercially available wipes and sprays designed to work with hydrocolloid adhesives. **Do not use alcohol to clean the residue.**

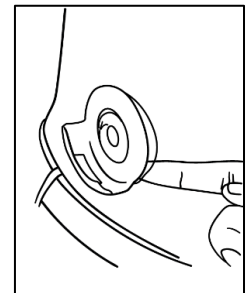


Figure 10 Remove Adhesive

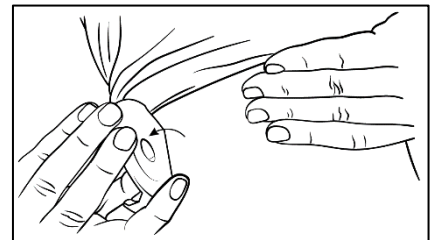


Figure 11 Remove Clip

# RELIEF BELT

## Description

The relief belt is an alternative to the adhesive clip for holding the therapy disc in place on the body. The device is inserted in the belt pocket and positioned over the implant.

## Placing the Therapy Disc in the Relief Belt Pocket

1. Undo the snap button.
2. Slide in the device with the “n” facing down, as shown in Figure 12.
3. Close the snap button.

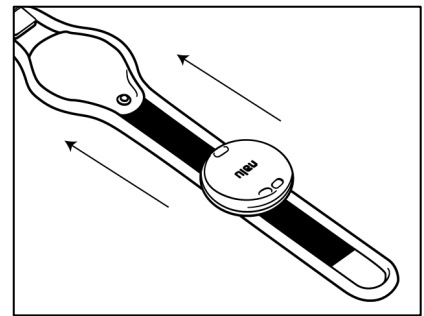


Figure 12 Insert Therapy Disc

## Removing the Therapy Disc from the Relief Belt Pocket

1. Undo the snap button.
2. Pinch the device between your thumb and forefinger and pull out the device, as shown in Figure 13.

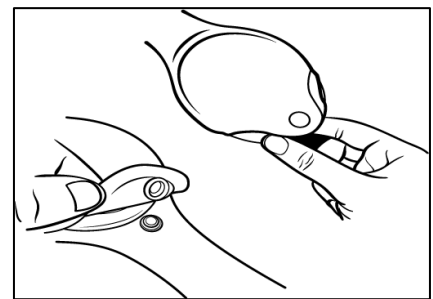


Figure 13 Remove Device

## Wearing the Relief Belt

1. Wear the belt over a thin layer of clothing at your waist. Ensure that the belt is positioned so that the Therapy Disc buttons are facing away from your skin.
2. Adjust the belt tightness using the Velcro straps.
3. Rotate the belt to position the device over the implant site.

**NOTE:** Ensure that the device connects to the implant by listening for the three (3) short beeps indicating a successful connection, or check the Remote Control application.

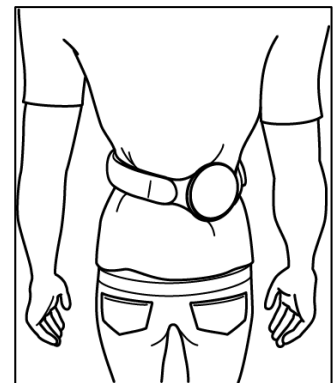


Figure 14 Wear Belt

## Removing the Relief Belt

1. Press the middle of the clasp to undo the belt, as shown in Figure 15.

## Belt Care

Hand Wash. Do Not Bleach. Line Dry. Do Not Iron.

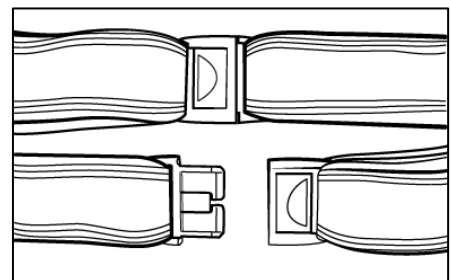
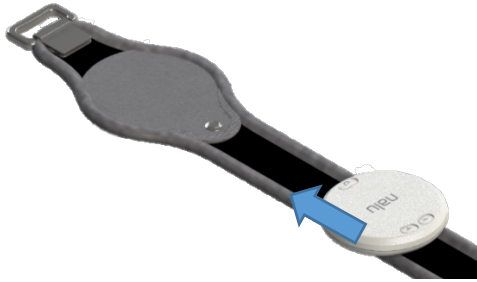


Figure 15 Undo clasp

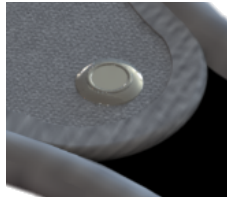
# LIMB CUFF INSTRUCTIONS FOR USE

## Placing the device in the limb cuff

1. Insert the device in the limb cuff pocket as shown.



- 1.
2. Secure the device in the pocket using the snap button.



## Placing the limb cuff on target location

1. Place the device over the implant location over a thin layer of clothing and wrap the strap around your limb.
2. Place the strap through the loop and pull the strap to tighten the limb cuff.



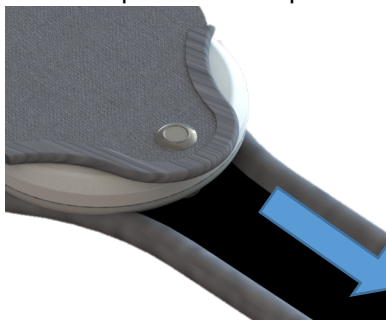
3. Secure the limb cuff in place using the Velcro tab.

## Removing the limb cuff

1. Undo the Velcro strap and loosen the limb cuff.
2. Remove the limb cuff

## Removing the device from the limb cuff

1. Undo the snap button.
2. Pinch the device on the top and bottom and pull out of the pocket.



## CHARGER



### Description

The charger charges the Therapy Disc battery. It takes approximately six (6) hours to fully charge the Therapy Disc from full discharge. The charger can be used for both the Permanent and Trial Therapy Discs. When battery is fully charged, the Therapy Disc may provide therapy from 8-40 hours (nominal 16 hours), depending on location of Therapy Disc, stimulation level, and participant use.

The battery level of the Therapy Disc can be found in the Nalu Remote Control application. The battery level is also indicated when the Therapy Disc is powered on (see Therapy Disc instructions).

### Powering Up the Charger

1. Use only the provided AC/DC power supply. Plug the power supply in easily accessible socket so that it is easy to disconnect when necessary.
2. Connect the USB-C cable from the Power Supply to the USB terminal on the back side of the charger to provide power to the unit.
3. Verify that the LED status light ring is illuminated blue, meaning that the charger is ready for use.

### Charging the Therapy Disc

1. Orient and place the Therapy Disc on the charger using the Nalu logo and Nalu 'n' features as guides to help with the correct placement.
2. Verify that the LED status light ring changes from blue to orange (which means charging is in progress) or green (meaning that the battery is fully charged).

**Note:** *The Therapy Disc cannot be used while charging.*

### Removing the Therapy Disc

1. Grasp the sides of the Therapy Disc, then lift up and away from the charger base.

## Powering Down the Charger

1. Disconnect the USB cable from the Charger.

LED color	Device status
Blue	Charger ready for use
Orange	Device charging
Green	Device fully charged

## TROUBLESHOOTING

Therapy Disc		
Problem	Causes	Possible Actions
<b>Uncomfortable Stimulation</b>	The selected parameters are not suitable for your activity or posture.	Remove the Therapy Disc from your body. Unplug the Trial Therapy Disc. Reduce the stimulation from the Remote Control Application or the Therapy Disc.
<b>No Stimulation</b>	Stimulation is off.	Turn the Therapy Disc power OFF, then turn the power back ON. Using the remote control, turn stimulation on.
	The Therapy Disc is not placed over the implant.	Place the Therapy Disc directly over the implanted stimulator.
	The stimulation amplitude is set too low.	Increase the amplitude.
<b>The Therapy Disc is Unresponsive</b>	The Therapy Disc is not powered ON.	Turn the power ON.
<b>The Therapy Disc is Unresponsive</b>  <b>The Therapy Disc will not connect to the RC</b>	The Therapy Disc functionality is frozen.	Turn the power OFF, then and turn it back ON.
	The battery is not charged.	Recharge the battery by placing the Therapy Disc on the charger.
	Bluetooth® connection problem.	Restart the Remote Control application. Restart the Therapy Disc.
<b>The Therapy Disc Has Been Dropped</b>	Damage to the device.	Contact your Nalu representative.
<b>The Trial Therapy Disc becomes wet</b>	The Trial Therapy Disc is not waterproof.	Discontinue use of the device and contact your Nalu representative.

Adhesive Clip		
Problem	Causes	Possible Actions
<b>Adhesive is Too Strong</b>	The adhesive is not at the end of its life. Inappropriate adhesive.	Increase the wear time of the adhesive until it gets looser. Talk to your Nalu representative about switching to a different adhesive.

<b>Adhesive Keeps Falling Off</b>	Improper wear period.	Reduce your wear time. Replace the adhesive clip before it falls off.  Talk to your Nalu representative about switching to a different adhesive.
<b>Adhesive Causing Skin Breakage</b>	The adhesive was removed too early.	Increase your wear time and remove the adhesive when it is looser.  Adjust the next clip location to allow the damaged skin to heal.  Use the relief belt for a period of time to allow the skin to heal.  Talk to your Nalu representative about switching to a different adhesive.
<b>Adhesive Causing Excessive Skin Irritation, Including Increased Redness, Itchiness, and Bumpiness</b>	Possible allergic reaction.	Contact your clinician.

## SAFETY AND TECHNICAL CHECKS

Periodic safety checks or maintenance of the Therapy Disc are not required. The Therapy Disc contains no user-serviceable parts. If repair or service is needed, contact your clinician or a Nalu representative for a replacement. Refer to the contact information at the end of this manual.

## CLEANING YOUR DEVICE

### Cleaning the Therapy Disc

When needed, clean the outside of the Therapy Disc with a damp cloth to prevent dirt and dust. Do not use abrasive or caustic cleaning products on your Therapy Disc.

### Cleaning the Trial Therapy Disc

Clean the outside of the Trial Therapy Disc with a damp cloth when needed to prevent dirt and dust. Do **not** use abrasive or caustic cleaning products on your Trial Therapy Disc.

## THERAPY DISC, CHARGER, AND CLIP DISPOSAL

The Therapy Disc and charger should be returned to your clinician or a Nalu representative. Do not dispose of your Therapy Disc or charger in the garbage.

For the single-use adhesive clips, adhere to local disposal requirements / regulations.

# ENVIRONMENTAL CONDITIONS FOR STORAGE AND OPERATION

## Therapy Disc

Storage Temperature	-18°C to 60°C
Operating Temperature	0°C to 45°C
Humidity	< 90%
Pressure	70 kPa – 107 kPa

## Therapy Disc Charger

Storage Temperature	-18°C to 60°C
Operating Temperature	0°C to 40°C
Humidity	< 90%
Pressure	80 kPa – 107 kPa

## Adhesive Clip

Storage Temperature	23°C
Operating Temperature	0°C to 45°C
Humidity	< 90%
Pressure	70 kPa – 107 kPa

## IDENTIFICATION CARD

An identification card is included in your Nalu User's Kit. The ID card contains information about you, your stimulation system, and your doctor. Your identification card may allow you to bypass security devices. **Carry this card with you at all times.** If you move, change doctors, or lose your card, contact Nalu for a replacement card. Refer to the contact information at the end of this manual.

## WHEN TO CALL YOUR CLINICIAN

Contact your clinician if any of the following events occur:

- You have pain, redness, or swelling later than six (6) weeks after the implant procedure.
- The stimulation is causing you to have pain or discomfort.
- The system is not working properly.
- You cannot adjust the stimulation using the user controls.
- You cannot place the Therapy Disc in the optimal position to communicate with the stimulator.
- If your Therapy Disc stops working.
- If you lose your Therapy Disc.
- You have excessive skin irritation, including increased redness, itchiness, and bumpiness.

Your clinician will schedule follow-up visits to make sure your device is working properly and that the stimulation is managing your pain.

# KIT CONTENTS

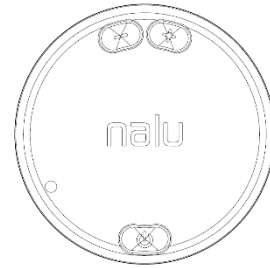
Model Number	Description	Quantity
<b>74001</b>	<b>Nalu Neurostimulation User's Kit</b>	
34001-001	Therapy Disc	2
34007	Relief Belt	1
43001	Therapy Disc Charger	1
43002	Therapy Disc Charger Wall Adapter (US Type A)	1
43003	Therapy Disc Charger Wall Adapter (EU Type C)	1
43004	Therapy Disc Charger Wall Adapter (UK Type G)	1
43005	Therapy Disc Charger Wall Adapter (AUS Type I)	1
43006	Therapy Disc Charger USB Cable	1
43007	Equipment Bag	1
LBL-000005	Nalu Neurostimulation ID Card	1
MA-000007	Nalu Neurostimulation User Instructions for Use	1
53002-001	Remote App	
<b>74002</b>	<b>Nalu Neurostimulation Trial User's Kit</b>	
34002	Trial Therapy Disc	2
34007	Relief Belt	1
43001	Therapy Disc Charger	1
43002	Therapy Disc Charger Wall Adapter (US Type A)	1
43003	Therapy Disc Charger Wall Adapter (EU Type C)	1
43004	Therapy Disc Charger Wall Adapter (UK Type G)	1
43005	Therapy Disc Charger Wall Adapter (AUS Type I)	1
43006	Therapy Disc Charger USB Cable	1
43007	Equipment Bag	1
MA-000007	Nalu Neurostimulation User Instructions for Use	1
<b>74007-001</b>	<b>34005-001 Adhesive Clip Pack (H200 Adhesive)</b>	<b>30</b>
<b>74007-003</b>	<b>34005-003 Adhesive Clip Pack (H300 Adhesive)</b>	<b>30</b>
<b>74007-002</b>	<b>34005-002 Adhesive Clip Pack (H100 Adhesive)</b>	<b>30</b>

# DEVICE SPECIFICATIONS

## Therapy Disc – # 34001-001

---

Description: Case  
Material: Polycarbonate/Acrylonitrile Butadiene Styrene  
Diameter: 3" / 76 mm  
Thickness: 0.6" / 15 mm  
Weight: <100g

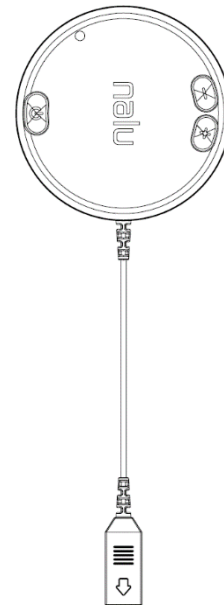


## Trial Therapy Disc – # 34002

---

Description: Case  
Material: Polycarbonate/Acrylonitrile Butadiene Styrene  
Diameter: 3" / 76 mm  
Thickness: 0.6" / 15 mm  
Weight: <100g

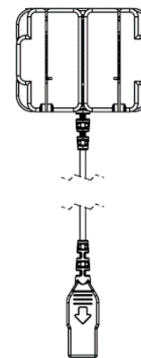
Description: Cable  
Material: Polyvinyl Chloride  
Connector: Micro HDMI  
Connector Length: 5" / 127 mm



## Electrode Interfacing Cable – # 34003

---

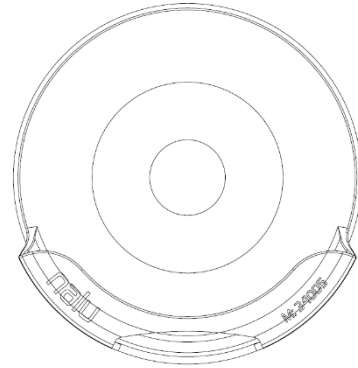
Unit: Housing  
Material: Acrylonitrile Butadiene Styrene  
Length: 27" / 69 cm  
Description: Cable  
Material: Polyvinyl Chloride  
Connector: Micro HDMI



**Adhesive Clip Pack (H200)– # 34005-001**

---

Description: Clip  
Material: Polypropylene  
Diameter: 3”/ 76 mm  
  
Description: Adhesive  
Material: Hydrocolloid  
Weight: 9 g



**Adhesive Clip Pack (H300)– # 34005-003**

---

Description: Clip  
Material: Polypropylene  
Diameter: 3”/ 76 mm  
  
Description: Adhesive  
Material: Hydrocolloid  
Weight: 9 g

**Adhesive Clip Pack (H100)– # 34005-002**

---

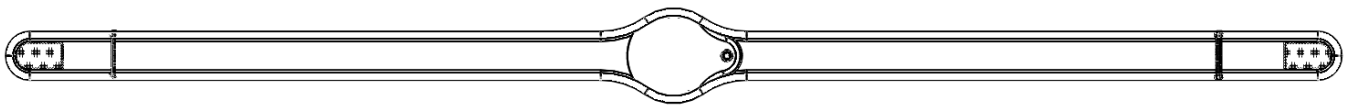
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Material: Polypropylene  
Diameter: 3”/ 76 mm  
  
Description: Adhesive  
Material: Hydrocolloid  
Weight: 9 g

**Relief Belt – # 34007**

---

Description: Belt  
Material: Neoprene  
Length: 48”/ 122 cm

Description: Buckle  
Material: Acetal  
Weight: 69 g



**Limb Cuff – # 34009**

---

Description: Cuff  
Material: Neoprene  
Length: 18"/ 46 cm

Description: Velcro  
Material: Acetal  
Weight: 33 g



**Limb Cuff, Large – # 34011**

---

Description: Cuff  
Material: Neoprene  
Length: 25"/ 64 cm

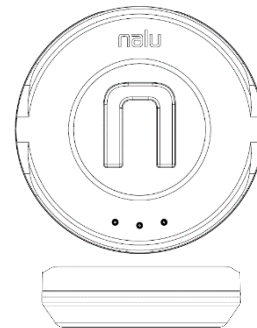
Description: Velcro  
Material: Acetal  
Weight: 40 g



**Therapy Disc Charger – # 43001**

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Description: Case  
Material: Acrylonitrile Butadiene Styrene  
Diameter: 3"/ 76 mm  
Weight: 67 g



## Radiofrequency (RF) and Wireless Data Parameters

Bluetooth® Low Energy (BLE)– Clinician Programmer, Remote Control, Therapy Disc  
 Industrial, Scientific, & Medical (ISM) – Therapy Disc, Nalu Implantable Pulse Generator

Nalu’s reliance on a single ISM band and Bluetooth for system operation are believed to be compatible with regulations worldwide.

Parameter	Band	Description
Frequency	BLE	2.402-2.480 MHz (data)
	ISM	40.66-40.70 MHz (power and data transfer)
Bandwidth	BLE	2 MHz
	ISM	1 MHz (low-depth amplitude modulation)
Power	BLE	4.6 dBm max EIRP
	ISM	-14.1 dBm max EIRP (330 mW max conducted)
Data transfer	BLE	1000-2000 kbps, 6ms latency, CRC, encryption
	ISM	250 kbps, 32-bit CRC protection
Effective Range	BLE	<3 meters
	ISM	<3 cm

FCC ID	
Therapy Disc	FCC ID: 2AMB3-34001-001 Contains FCC ID: 2AAQS-ISP1507
Trail Therapy Disc	Contains FCC ID: 2AAQS-ISP1507

Classification per IEC 60601-1: Therapy Disc and Trial Therapy Disc	
In use	Type BF
Charging	Class II

## Quality of Service for Wireless Technology

Bluetooth Smart wireless technology enables communication between the SCS Remote Control App and the Therapy Disc. The requirements for the quality of service (QoS) vary depending on the use environment (operating room, recovery room, and home environment).

After the Remote Control App is paired with a Therapy Disc, the Bluetooth wireless technology symbol is visible on the remote control app in the upper right-hand corner of the screen. When the Bluetooth Smart wireless technology connection is not active, the symbol appears dimmed.

The standard Bluetooth Smart wireless technology data rate is 1 Mbit/s. Other requirements include a semi-duplex transmission with a required acknowledge, a transmission latency in each direction (2x), and a receive-to-transmit mode (RX-to-TX) time. Data is resent if not sent successfully.

## Wireless Security Measures

The wireless signals are secured through device system design that includes the following:

- The Therapy Disc will encrypt its wireless communication.
- Only one remote control app may communicate with the Therapy Disc at the same time.
- A unique key for each Remote Control App to Therapy Disc connection.
- Built-in pairing that specifies valid and legitimate pairing among units.
- Proprietary authentication in addition to the pairing procedure specified in Bluetooth Smart wireless technology.
- A proprietary algorithm that detects and prevents an unauthorized user from attempting to communicate with the Therapy Disc.

## Troubleshooting for Wireless and Coexistence Issues

If you experience issues with the wireless communication between the Remote Control App and the Therapy Disc, try the following:

- Decrease the distance between the devices
- Move the devices so they share line of sight
- Move the devices away from other devices that may be causing interference
- Wait a few minutes and try connecting again
- Do not operate other wireless devices (i.e., laptop, tablet, mobile phone, or cordless phone) at the same time

NOTE: Wireless communications equipment, such as wireless home network devices, mobile and cordless telephones, and tablets, can affect the device.

## Statement of FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

## GUIDANCE AND MANUFACTURER'S DECLARATION

### Electromagnetic Emissions


The Nalu Neurostimulation System is intended for use in the electromagnetic environment specified below. The customer or the user of the Nalu Neurostimulation System should assure that it is used in such an environment

Emissions test	Compliance	Electromagnetic Environment- Guidance
Radiofrequency (RF) Emissions 1	Group 2	The Nalu Neurostimulation System must emit electromagnetic energy in order to perform its intended function. Nearby equipment may be affected.
RF Emissions CISPR 11	Class B	The Nalu Neurostimulation System is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class B	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	
CISPR 14-1	Complies	The Therapy Disc is not intended to be connected to other equipment except the Charger. The Trial Therapy Disc is not intended to be connected to other equipment except the Electrode Interfacing Cable and Charger.

## GUIDANCE AND MANUFACTURER'S DECLARATION

### Electromagnetic Immunity

The Nalu Neurostimulation System is intended for use in the electromagnetic environment specified below. The customer or the user of the Nalu Neurostimulation System should assure that it is used in such an environment

Immunity Test	IEC 60601 Test Level	Compliance	Electromagnetic Environment- Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	Portable and mobile RF communications equipment should be used no closer to any part of Nalu Neurostimulation System, than 0.2 meter, based on transmitters of 80 MHz to 2.5 GHz.
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	Interference may occur in the vicinity of equipment marked with the following symbol: 
Electrostatic discharge (ESD)	IEC 61000-4-2	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	Pass	Mains power quality should be that of a typical commercial or home environment
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth		Mains power quality should be that of a typical commercial or home environment
Voltage dips, short interruptions and voltage variations on power supply	input lines IEC 61000-4-11 95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles 95% dip in UT) for 5 s NOTE UT is the a.c. mains voltage prior to application of the test level.		Mains power quality should be that of a typical commercial or home environment
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m		Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial, hospital, or home environment.

### Recommended Separation Distances Between Portable and Mobile Radiofrequency (RF) Communications Equipment and the Nalu Neurostimulation System

The Nalu Neurostimulation System is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of the Nalu Neurostimulation System can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the System.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz
0.01	0.12 m	0.12 m	0.45 m
0.1	0.37 m	0.37 m	1.41 m
1	1.17 m	1.17 m	4.47 m
10	3.70 m	3.70 m	14.12 m
100	11.70 m	11.70 m	44.65 m

## MAGNETIC RESONANCE IMAGING (MRI) SAFETY INFORMATION (SCS)

All of the components of the Nalu Neurostimulation System are MR Unsafe except for the following:

- Nalu Implantable Pulse Generators (Dual Integrated Model 11002-040, Single Integrated Model 11001-040)
- Nalu Implantable Pulse Generators (Dual Ported Model 11004-002 connected to two 40 cm Nalu Lead Model 12001-040, Single Ported Model 11003-002 connected to a 40 cm Nalu Lead Model 12001-040)
- Nalu Anchor (Model 13001).

### WARNING

**Do not bring MR Unsafe components of the Nalu Neurostimulation System into the MRI system room.**

*It is important to read this entire section prior to conducting or recommending an MRI examination on a user implanted with the Nalu Neurostimulation System. These instructions only apply to the Nalu Neurostimulation System and do not apply to other products. If you have any questions, please contact Nalu Medical or visit [www.nalumed.com](http://www.nalumed.com).*

### MRI Safety Information



### MR Conditional

Nonclinical testing demonstrated that the Nalu Neurostimulation System (i.e., the pulse generator and leads) is MR Conditional. The implanted components of the Nalu Neurostimulation System that are MR Conditional are, as follows: Pulse Generators (11001-040, 11002-040, 11003-002, 11004-002), 40 cm Lead (12001-040) and Anchor (13001).

A patient with an implantable pulse generator, leads, and anchor can be scanned safely in an MRI system under the following conditions:

- Static magnetic field of 1.5 Tesla (T) or 3.0 T, only.
- Maximum spatial field gradient of 1,900 gauss/cm (19 T/m).
- 15 minutes of continuous scanning in First level controlled mode for Transmit-receive and extremity and head coils (Partial body SAR of the exposed body part of 10 W/kg and Head SAR of 3.2 W/kg).
- No external components of the Nalu Neurostimulation system are permitted in the MRI system room.
- Do not perform MRI using the transmit/receive RF body coil of the transmit RF body coil with a receive-only coil at 1.5 T or 3 T
- For head/brain MRI examinations, only the transmit/receive RF head coil is permitted for use. No parts of the implanted Nalu Neurostimulation System may be within the transmit/receive RF head coil.
- For extremity MRI examinations, only use a transmit/receive RF coil that includes a knee, foot/ankle, or wrist transmit/receive RF coil. No part of the implanted Nalu Neurostimulation System may be within one of these transmit/receive RF coils.

Under the scan conditions defined above, the Nalu Neurostimulation System is expected to produce a maximum temperature rise of 2.5°C after 15 minutes of continuous scanning (i.e., per pulse sequence) when using one of the above types of transmit/receive RF coils at a maximum, whole body averaged SAR of 2 W/kg.

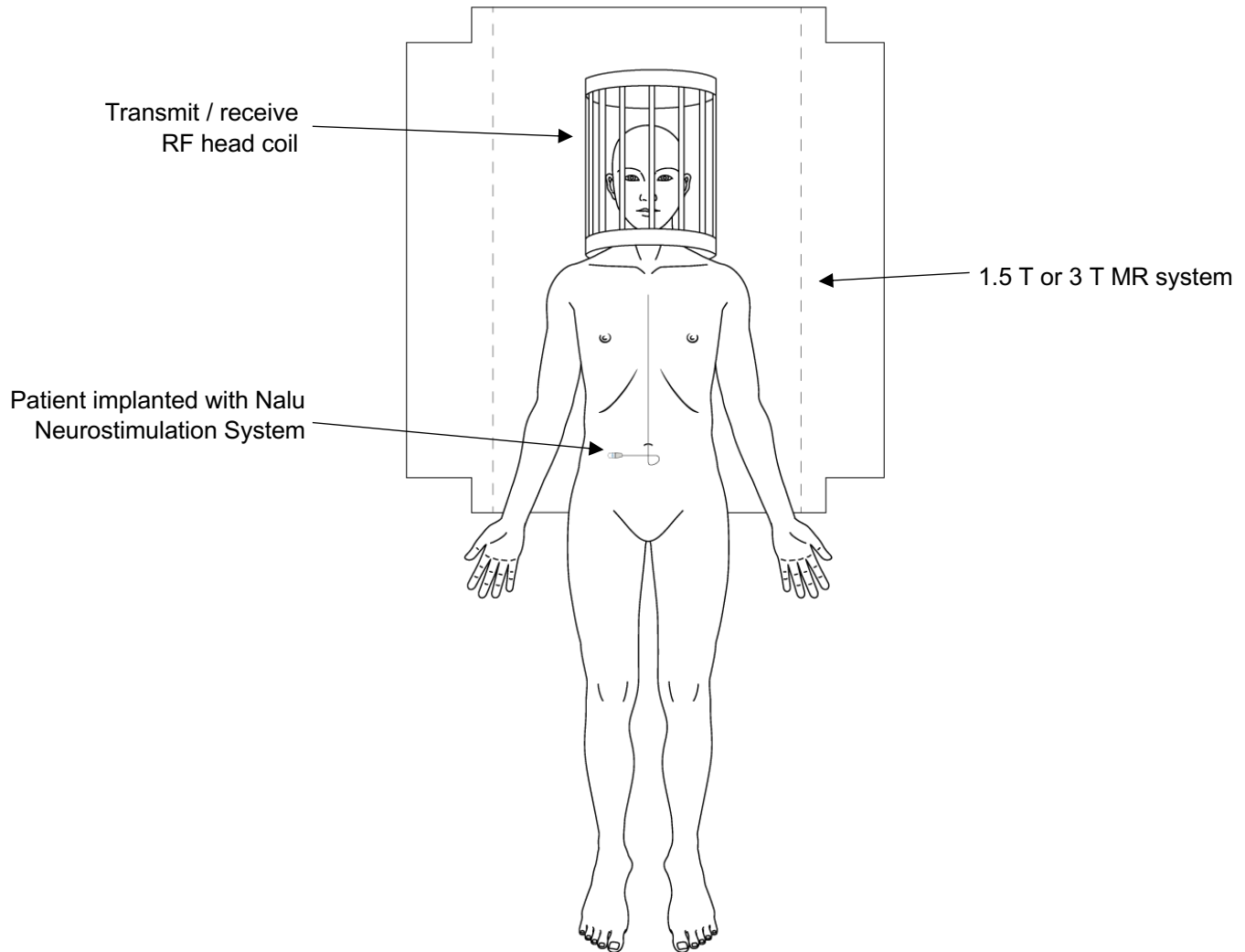
In non-clinical testing, the image artifact caused by the Nalu Neurostimulation System extends approximately 10 mm from this implant when imaged using a gradient echo pulse sequence and a 3 T MRI system.

**Important Note:** An MRI examination performed outside these guidelines may result in the electromagnetic fields used with MRI technology to interact adversely with an implanted Nalu Neurostimulation System potentially injuring the patient and/or damaging the device. Due to the risks of using MRI in a patient with an active implanted device, it is important to read, understand, and comply with all instructions to prevent potential harm or injury to the patient and/or damage to the device.

## Acceptable 1.5 T/64-MHz or 3 T/128 MHz MRI Scenarios

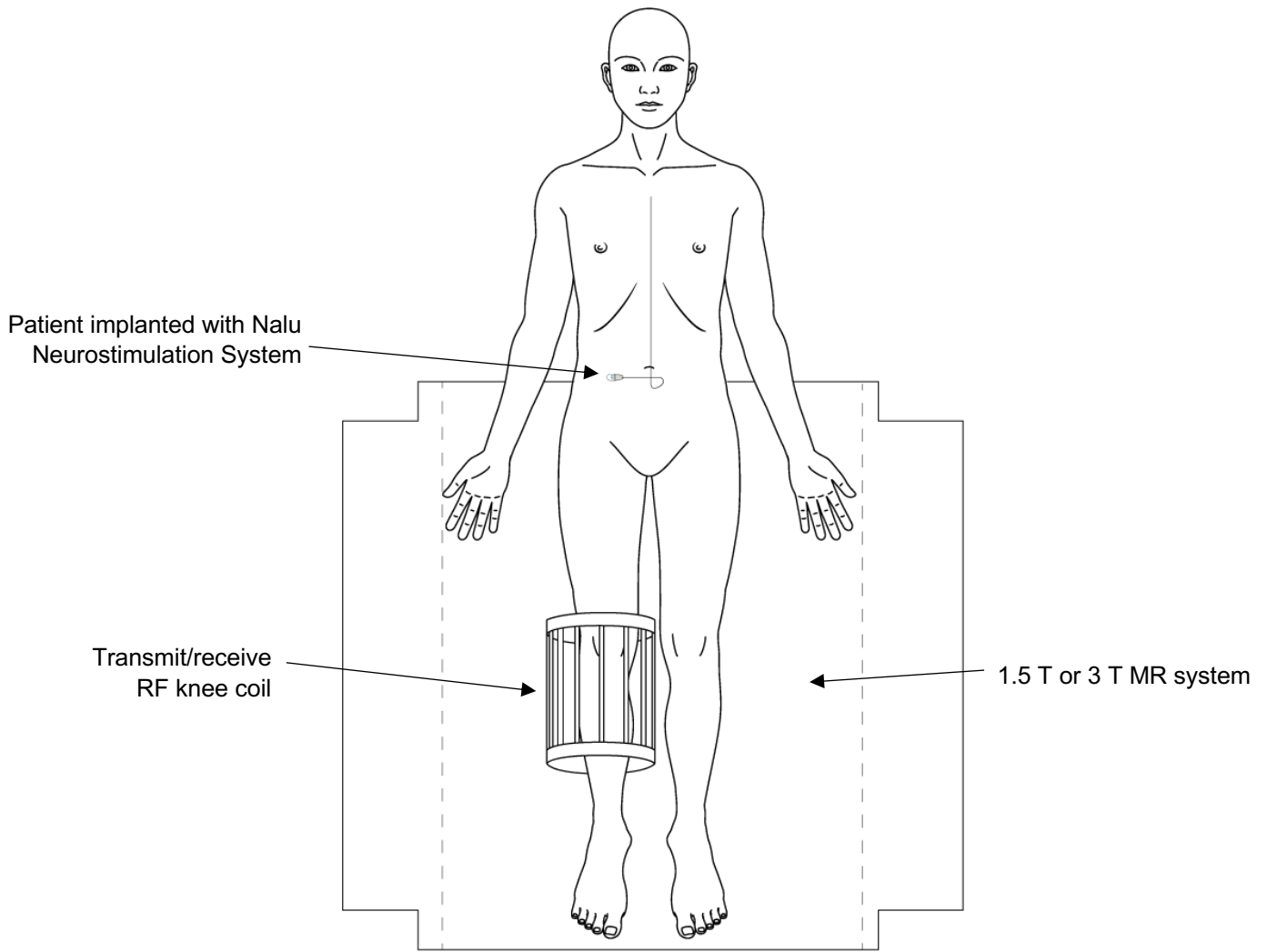
Note the position of the implantable pulse generator (IPG) and leads relative to the transmitted RF energy for each respective transmit/receive RF coil.

### Head/Brain MRI Examination

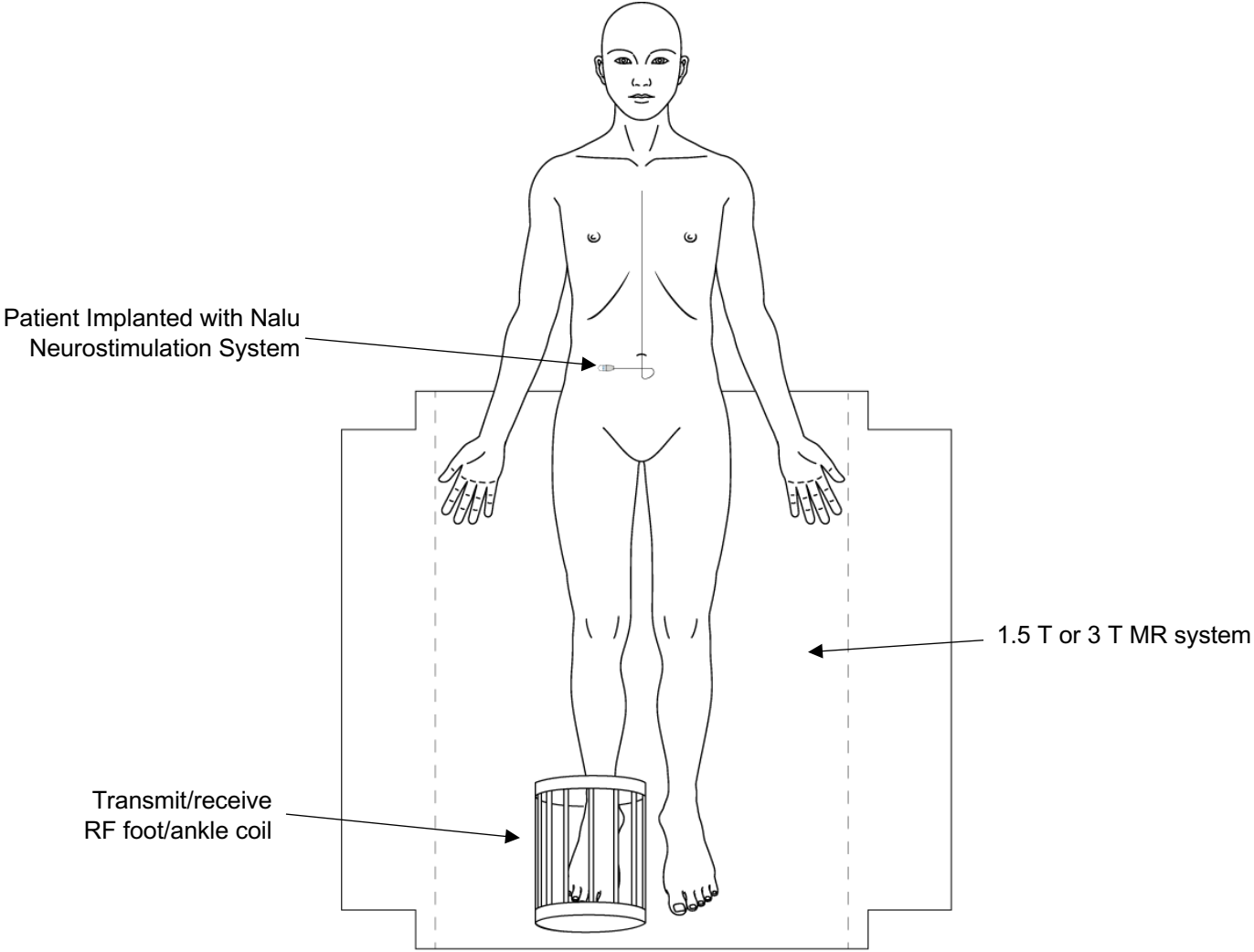


**Figure 1.** Head/brain MRI examinations are permitted using a 1.5 T or 3 T MRI system and a transmit/receive RF head coil. No part of the implanted Nalu Neurostimulation System may be within the transmit/receive RF head coil. All other aforementioned conditions must be carefully followed.

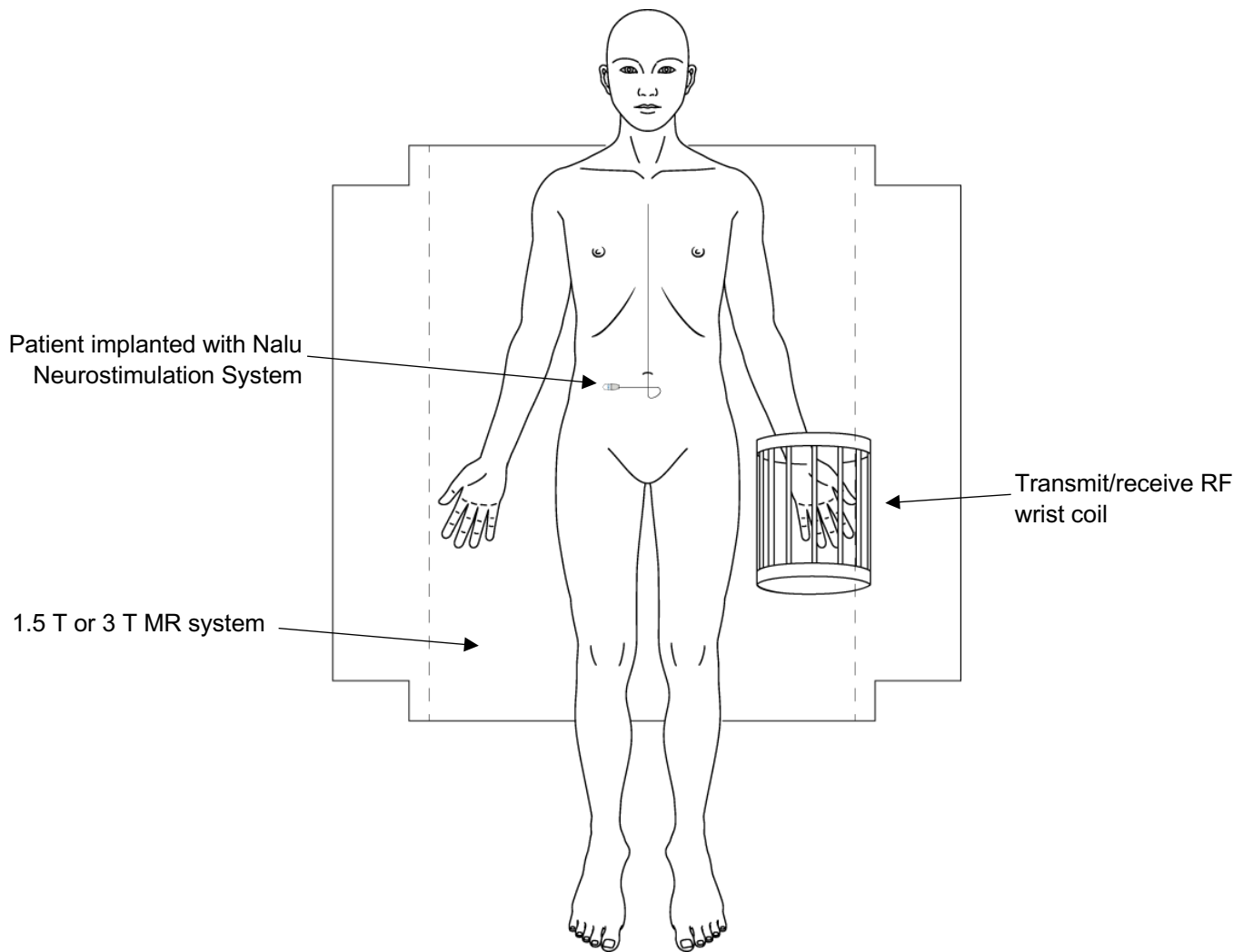
**Extremity MRI Examinations**



**Figure 2a**



**Figure 2b**



**Figure 2c**

**Figure 2.** Extremity MRI examinations are permitted using a 1.5 T or 3 T MRI system and a transmit/receive RF extremity coil (e.g., knee, foot/ankle, wrist). No part of the implanted Nalu Neurostimulation System may be within the transmit/receive RF extremity coil. All other aforementioned conditions must be carefully followed. **(a)** Represents an MRI of the knee using a transmit/receive RF knee coil. **(b)** Represents an MRI of the foot or ankle using a transmit/receive RF foot/ankle coil. **(c)** Represents an MRI of wrist using a transmit/receive RF wrist coil.

**Additional conditions for all MRI Examinations**

- Do not perform an MRI if the patient has a device or device component lead(s), extension, etc. attached to the Nalu Implantable Pulse Generator or leads from a different manufacturer attached to the Nalu Implantable Pulse Generator. The risk of performing an MRI examination under those circumstances has not been evaluated and, thus, may cause harm to the patient and/or the components.
- A patient implanted with a Model 12001-040 40 cm lead(s) connected to a Model 11003-002 or Model 11004-002 Ported IPGs can undergo an MRI examination under the specified conditions. Do not perform an MRI if the leads have been disconnected from the IPG.
- A patient implanted with a Model 11001-040 or Model 11002-040 IPG with integrated lead(s) can undergo an MRI examination under the specified conditions.
- MRI is only permitted using an MRI system operating at 1.5 T/64 MHz or 3 T/128 MHz.
- Use only a transmit/receive RF head coil or transmit/receive RF extremity coil (e.g., head/brain, knee, foot/ankle, wrist). The risk of using other types of RF coils has not been evaluated for the Nalu Neurostimulation System.

- Nalu Neurostimulation System external components are not allowed in MRI system room. These components include Therapy Discs (Model 34001 or Model 34002), the iOS or Android device with the Nalu Remote Control application, Charger, Clinician Programmer and Belts, surgical instruments or accessories. All such parts are **MR Unsafe** and are not be permitted in the MRI system room.
- Do not perform MRI on a patient undergoing the trial phase of the Nalu Implantable Pulse Generator (i.e. the patient has a percutaneously implanted lead and an external Trial Therapy Disc (Model 34002)).
- Do not perform MRI on a patient that has any other active medical implants.

### **Preparation of the Patient Prior to the MRI Examination**

- Inform the patient of the risks associated with undergoing an MRI examination: an MRI exam performed outside recommended guidelines may result in the electromagnetic fields used with MRI technology interacting adversely with an implanted Nalu Neurostimulation System, potentially injuring the patient and/or damaging the device.
- A trained healthcare professional with the proper knowledge of MRI technology such as an MRI safety-trained radiologist, MRI technologist, MRI nurse, or MRI physicist must ensure that the MRI examination will be conducted according to the information presented in this document.
- Document the patient's programming parameters.
- Perform an impedance check. Do not perform an MRI if the impedance is greater than 10 kΩ.
- Remove the Therapy Disc from the patient before entering the MRI system room.
- Do not conduct an MRI examination if the 40 cm implanted lead(s) are not connected to the Nalu Implantable Pulse Generator.
- If possible, do not sedate or anesthetize the patient so that the patient can inform the MRI system operator of any unusual sensations or problems associated with the MRI examination.
- Instruct the patient to immediately inform the MRI system operator if any discomfort, stimulation, shocking, or heating is experienced during MRI.

### **Considerations during the MRI Examination**

- Similar to other MRI examinations, carefully monitor the patient throughout the MRI procedure both visually and audibly. Immediately discontinue the MRI examination if the patient reports any problems or unusual sensations.

### **Considerations after the MRI Examination**

- After the patient leaves the MRI system room, turn the Therapy Disc on and verify connection to the Implantable Pulse Generator.
- Perform an impedance check.

## **MAGNETIC RESONANCE IMAGING (MRI) SAFETY INFORMATION (PNS)**

**All of the components of the Nalu Neurostimulation System are MR Unsafe except for the following:**

- *Nalu Implantable Pulse Generators (Dual Integrated Model 11002-040, Single Integrated Model 11001-040)*
- *Nalu Implantable Pulse Generators (Dual Ported Model 11004-002 connected to two 40 cm Nalu Lead Model 12001-040, Single Ported Model 11003-002 connected to a 40 cm Nalu Lead Model 12001-040)*
- *Nalu Anchor (Model 13001).*

### **WARNING**

**Do not bring MR Unsafe components of the Nalu Neurostimulation System into the MRI system room.**

*It is important to read this entire section prior to conducting or recommending an MRI examination on a user implanted with the Nalu Neurostimulation System. These instructions only apply to the Nalu Neurostimulation System and do not apply to other products. If you have any questions, please contact Nalu Medical or visit [www.nalumed.com](http://www.nalumed.com).*

## **MRI Safety Information**

**For Complete instructions, please visit [www.nalumed.com](http://www.nalumed.com) and refer to the Nalu MRI Checklist.**



### **MR Conditional**

Nonclinical testing demonstrated that the Nalu Neurostimulation System (i.e., the pulse generator and leads) is MR Conditional. The implanted components of the Nalu Neurostimulation System that are MR Conditional are, as follows: Pulse Generators (11001-040, 11002-040, 11003-002, 11004-002), 40 cm Lead (12001-040) and Anchor (13001).

A patient with an implantable pulse generator, leads, and anchor can be scanned safely in an MRI system under the following conditions:

- Static magnetic field of 1.5 Tesla (T) or 3.0 T, only.
- Maximum spatial field gradient of 1,900 gauss/cm (19 T/m).
- 15 minutes of continuous scanning in First level controlled mode for Transmit-receive and extremity and head coils (Partial body SAR of the exposed body part of 10 W/kg and Head SAR of 3.2 W/kg).
- No external components of the Nalu Neurostimulation system are permitted the MRI system room.
- Do not perform MRI using the transmit/receive RF body coil of the transmit RF body coil with a receive-only coil at 1.5 T or 3 T
- For head/brain MRI examinations, only the transmit/receive RF head coil is permitted for use. **No parts of the implanted Nalu Neurostimulation System may be within the transmit/receive RF head coil.**
- For extremity MRI examinations, only use a transmit/receive RF coil that includes a knee, foot/ankle, or wrist transmit/receive RF coil. **No part of the implanted Nalu Neurostimulation System may be within these transmit/receive RF coils.**

Under the scan conditions defined above, the Nalu Neurostimulation System is expected to produce a maximum temperature rise of 2.5°C after 15 minutes of continuous scanning (i.e., per pulse sequence) when using one of the above types of transmit/receive RF coils at a maximum, whole body averaged SAR of 2 W/kg.

In non-clinical testing, the image artifact caused by the Nalu Neurostimulation System extends approximately 10 mm from this implant when imaged using a gradient echo pulse sequence and a 3 T MRI system.

**Important Note:** An MRI examination performed outside these guidelines may result in the electromagnetic fields used with MRI technology to interact adversely with an implanted Nalu Neurostimulation System potentially injuring the patient and/or damaging the device. Due to the risks of using MRI in a patient with an active implanted device, it is important to read, understand, and comply with all instructions to prevent potential harm or injury to the patient and/or damage to the device.

### **Additional conditions for all MRI Examinations**

- Do not perform an MRI if the patient has a device or device component lead(s), extension, etc. attached to the Nalu Implantable Pulse Generator or leads from a different manufacturer attached to the Nalu

Implantable Pulse Generator. The risk of performing an MRI examination under those circumstances has not been evaluated and, thus, may cause harm to the patient and/or the components.

- A patient implanted with a Model 12001-040 40 cm lead(s) connected to a Model 11003-002 or Model 11004-002 Ported IPGs can undergo an MRI examination under the specified conditions. Do not perform an MRI if the leads have been disconnected from the IPG.
- A patient implanted with a Model 11001-040 or Model 11002-040 IPG with integrated lead(s) can undergo an MRI examination under the specified conditions.
- MRI is only permitted using an MRI system operating at 1.5 T/64 MHz or 3 T/128 MHz.
- Use only a transmit/receive RF head coil or transmit/receive RF extremity coil (e.g., head/brain, knee, foot/ankle, wrist). The risk of using other types of RF coils has not been evaluated for the Nalu Neurostimulation System.
- Nalu Neurostimulation System external components are not allowed in MRI system room. These components include Therapy Discs (Model 34001 or Model 34002), the iOS or Android device with the Nalu Remote Control application, Charger, Clinician Programmer and Belts, surgical instruments or accessories. All such parts are **MR Unsafe** and are not be permitted in the MRI system room.
- Do not perform MRI on a patient undergoing the trial phase of the Nalu Implantable Pulse Generator (i.e. the patient has a percutaneously implanted lead and an external Trial Therapy Disc (Model 34002)).
- Do not perform MRI on a patient that has any other active medical implants.
- **No parts of the implanted Nalu Neurostimulation System may be within the transmit/receive RF head coil.**

### Preparation of the Patient Prior to the MRI Examination

- Inform the patient of the risks associated with undergoing an MRI examination: an MRI exam performed outside recommended guidelines may result in the electromagnetic fields used with MRI technology interacting adversely with an implanted Nalu Neurostimulation System, potentially injuring the patient and/or damaging the device.
- A trained healthcare professional with the proper knowledge of MRI technology such as an MRI safety-trained radiologist, MRI technologist, MRI nurse, or MRI physicist must ensure that the MRI examination will be conducted according to the information presented in this document.
- Document the patient's programming parameters.
- Perform an impedance check. Do not perform an MRI if the impedance is greater than 10 k $\Omega$ .
- Remove the Therapy Disc from the patient before entering the MRI system room.
- Do not conduct an MRI examination if the 40 cm implanted lead(s) are not connected to the Nalu Implantable Pulse Generator.
- If possible, do not sedate or anesthetize the patient so that the patient can inform the MRI system operator of any unusual sensations or problems associated with the MRI examination.
- Instruct the patient to immediately inform the MRI system operator if any discomfort, stimulation, shocking, or heating is experienced during MRI.

### Considerations during the MRI Examination

- Similar to other MRI examinations, carefully monitor the patient throughout the MRI procedure both visually and audibly. Immediately discontinue the MRI examination if the patient reports any problems or unusual sensations.

### Considerations after the MRI Examination

- After the patient leaves the MRI system room, turn the Therapy Disc on and verify connection to the Implantable Pulse Generator.
- Perform an impedance check.

## CONTACT INFORMATION



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Technical Support: [support@nalumed.com](mailto:support@nalumed.com)

[www.nalumed.com](http://www.nalumed.com)



This product can expose you to chemicals including ethylene oxide, which is known to the State of California to cause cancer and birth defect or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Caution: Federal law restricts this device to sale by or on the order of a physician

**R<sub>x</sub> Only**

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