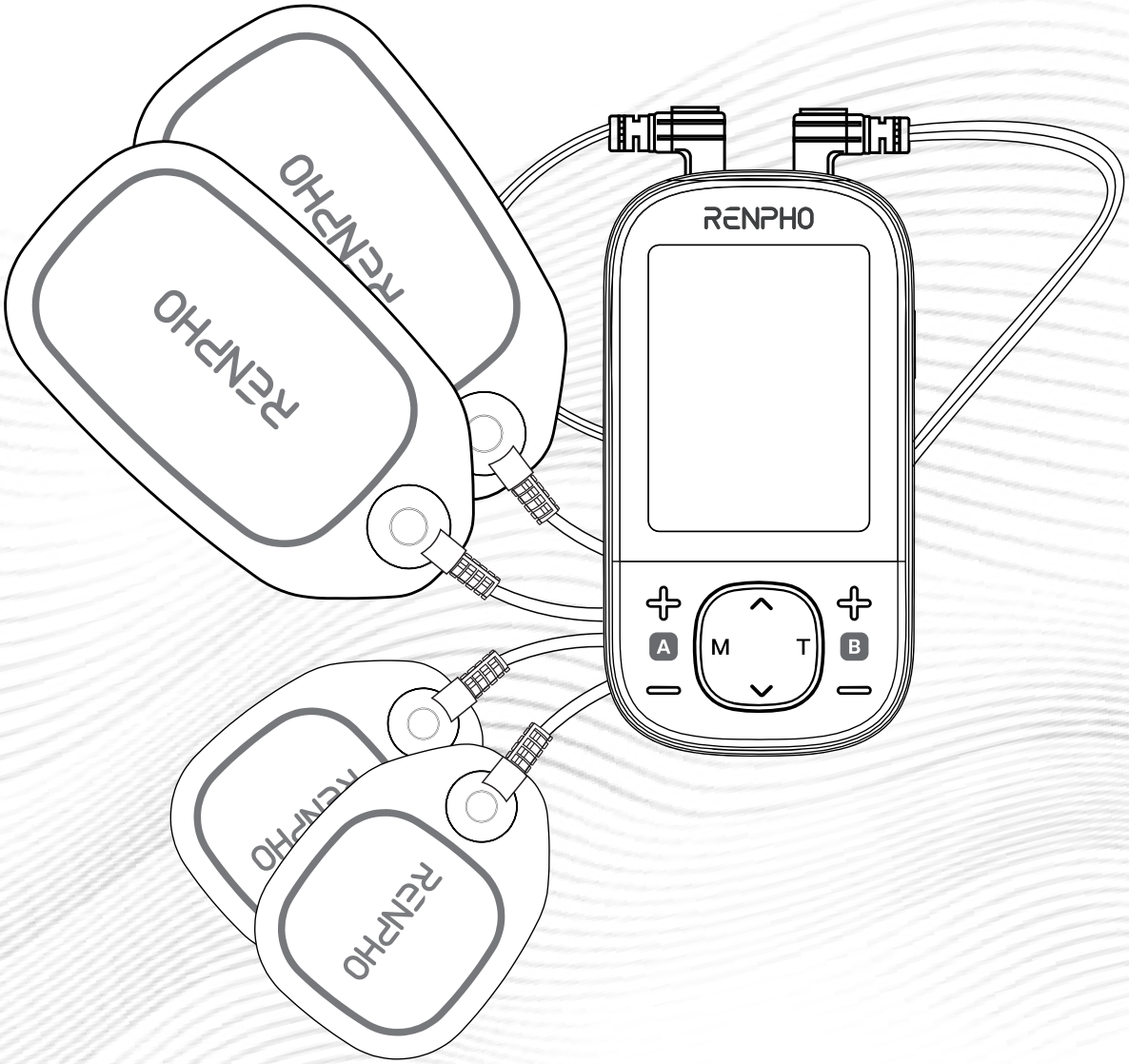
RENPHO

USER MANUAL



PAIN THERAPY DEVICE

Model: SM9075

Manual Version: V1.0
File No.: RP-SM9075-UM

Contents

FOREWORD

Before using the device, please read the User's manual carefully and pay attention to the SAFETY GUIDE, so that you can operate it correctly for best results. The User's manual should be kept for your future reference.

1. SAFETY GUIDE

Please read the entire instructional manual before using the device. It will give you a better understanding of how the product works. If you are not sure which kind of medical condition you should preclude yourself from using this device, consult your Chiropractor, Physiotherapist, Osteopath or Medical practitioner. The Pain Therapy Device is intended to use for relaxing the tight muscles, improving blood circulation and relieving the pain through the stimulation of nerves and healthy muscles. The device has no essential performance because malfunction will not cause serious injury or death.

1.1 WARNINGS

- The long-term effects of chronic electrical stimulation are unknown.

DO NOT USE THIS DEVICE UNDER THESE CONDITIONS

- Consult with your physician before using this device.
- The device may cause lethal rhythm disturbances in certain susceptible individuals.
- This device must not be used on persons with cardiac pacemakers, implanted defibrillator, other implanted metallic or electronic devices. Such use could cause electric shock, burns, electrical interference, or death.
- MR Unsafe – keep away from magnetic resonance imaging (MRI) equipment.
- Implanted with a life-supporting medical electronic device

such as an artificial heart or lung or respirator.

- In the presence of electronic monitoring equipment (e. g., cardiac monitors, ECG alarms), which may not operate properly when the electrical stimulation device is in use.
- On open wounds, rashes, swollen, red, infected or inflamed areas or skin eruptions; (e. g., phlebitis, thrombophlebitis, varicose veins); On top of, or in proximity to, cancerous lesions.
- Over areas of damaged skin, scratched areas or blisters.
- Do not apply the pads to your head, face, the front and sides of the neck, the throat, or on both sides of the thorax at the same time.
- Stimulation over the carotid sinus nerves, particularly in patients with a known sensitivity to the carotid sinus reflex.
- Do not directly Stimulate over the front of your neck or mouth. This could cause severe muscle spasms resulting in closure of your airway, difficulty in breathing, or adverse effects on heart rhythm or blood pressure.
- Do not place pads directly over the heart. Electrical current into the heart may cause cardiac arrhythmias.
- TENS is not a substitute for pain medications and other pain management therapies.
- TENS devices have no curative value.
- TENS is a symptomatic treatment and, as such, suppresses the sensation of pain that would otherwise serve as a protective mechanism.
- Effectiveness is highly dependent upon patient selection by a practitioner qualified in the management of pain patients.
- Do not use over areas of skin that lack of normal sensation.
- Trans thoracically in that the introduction of electrical current into the heart may cause cardiac arrhythmias.
- Please use the rated voltage required by the product label. If the supply voltage is lower than or higher than the additional input voltage, the product will not work properly.

- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- 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 Pain Therapy Device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

DO NOT USE ON THESE INDIVIDUALS

- Adolescent, children or infants, because the device has not been evaluated for pediatric use.
- Person’s incapable of expressing their thoughts or intentions.

DO NOT USE THIS DEVICE DURING THESE ACTIVITIES

- When in the bath or shower;
- The device should not be used while asleep or if intending on falling asleep while treatment is still occurring.

WARNINGS AND PRECAUTIONS REGARDING THE PADS

- Apply pads to normal, healthy, dry clean skin only. Do not apply pads onto wound or damaged skin because it will be painful and may disrupt the healing process.
- If you experience any skin irritation or redness after using this device, do not continue stimulating in that area until skin has returned to normal.
- Pads from the same set of wires must be placed on the body at the same time in order to work. Be sure the pads are not touching each other; otherwise, impulses will not

be felt.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1.2 Precautions
- If you feel abnormal symptoms during the treatment, please stop using the unit and consult a doctor before resuming treatment.
- During the treatment, if you wish to move the electrodes to another part of your body, switch OFF the unit first, and then move the electrodes before resuming treatment.
- If you have any problems on setting, maintaining or using this device, please contact manufacturer or customer service. Please report to manufacturer if the device malfunctions. Don't open or repair the device by yourself. There is only two components are detachable: lead wire.
- Dust may affect the performance of the unit, please use a soft cloth to clean the device as needed.
- Please use the device according to the requirement of the Users' manual, otherwise the effectiveness of the device will be affected.
- Please keep the device from the reach of infants, children or pets, inhalation or swallowing of small parts is dangerous and can be potentially fatal.
- Please use accessories that are specified/authorized by manufacturer only. The use of unauthorized accessories may cause damage to the unit or danger to the operator/patient.
- If you are allergic to plastic, please don't use this device.
- Long cables have the potential to strangulate, therefore, please be careful when using cables around the neck and shoulder areas.
- Do not bend or fold the pads frequently, this may cause the pads to not function properly. Store the pads on the plastic

pad holder or on the protective clear plastic sheet when not in use.

- Do not apply ointment or any solvent to the pads or to your skin because it will cause the pads to not stick and function properly. The pads are already pre-gelled and will adhere to your skin when moist.
- Do not use the unit in areas of high humidity, such as the bathroom or in the shower as this may cause damage to the unit.
- Do not attach the electrode to the same area on the skin for more than 40 minutes each time as this may cause skin irritation.
- During treatment ensure that metallic items with conductive capabilities such as necklaces, belts, rings etc. are kept away from the electrodes.
- Make sure the wire is securely plugged into the device, the wires are well connected, and the pads are stuck tightly on the skin area where you wish to treat to ensure effective therapy. Loose pads on the skin can cause uncomfortable pins and needle sensations.
- Simultaneous connection of a patient to this device and a high frequency surgical equipment may result in burns at the site of the device electrodes and possible damage to the device.
- Pads should not be contact to each other when placed on both feet simultaneously.
- Pads should not be contact to each other when placed on both legs simultaneously.
- Do not share pads with another person. This may cause a skin irritation or skin infection. Individuals should have their own set of pads for personal use.
- Do not leave pads attached to the skin after treatment.
- Do not use the unit in the presence of a flammable anesthetic gas mixture, compressed Oxygen or Nitrous Oxide.

- If the unit is not functioning properly or you feel uncomfortable during use, stop using the device.
- Do not use for any other purpose except for what it is intended for.
- Do not use the device while wearing other electronic devices as this may damage the device.
- Before using this product, please carefully read and understand the corresponding button functions and operation guidelines in this manual before operation.
- Do not use while operating a vehicle.
- Do not bend or pull the end of the cord.
- Replace the cord when it was broken or damaged.
- Do not throw the batteries into fire. The batteries may explode.
- Dispose of the device, batteries and components according to applicable legal regulations. Unlawful disposal may cause environmental pollution.
- The safety system for pregnancy to use electrical stimulation has not been established; Do not use the stimulator during the pregnancy.
- If you have diagnosed heart disease or have any heart problem, you should follow precautions recommended by your physician
- If you have suspected or diagnosed epilepsy, you should follow precautions recommended by your physician
- Do not use the device in the presence of the following:

a. When there is a tendency to hemorrhage following acute trauma or fracture.
b. Following recommendation of doctor after surgery because stimulation may disrupt the healing process.
c. Do not use if you are pregnant. d. Over areas of the skin that are damaged, cut, with rash or blistered.

- You may experience skin irritation or hypersensitivity due to the electrical stimulation or electrically conductive medium (gel).

- Electrode placement and simulation settings should be based on the practitioner.
- Should be used only with the leads and electrodes recommended for use by the manufacturer.
- Should not use while driving, operating machinery, or during any activity in which in voluntary muscle contractions may put the user at undue risk of injury.
- The device may require up to 30 minutes to warm up / cool down from the minimum/maximum storage temperature before it is ready for use.
- Do not use to treat one region for extended periods of time (more than 40 minutes a session, up to 3 times/day) or muscles in that region may become exhausted and sore.

1.3 Contraindications

For the following patients, they should not use thedevice:

- Patients who have a cardiac pacemaker, implanted defibrillator, or other implanted metallic or electronic device. Such use could cause electric shock, burns, electrical interference, or death.
- Patients whose pain syndromes are undiagnosed.
- During pregnancy.
- Infants or young children.
- Those who cannot express themselves.

1.4 Adverse Reactions

- You may experience skin irritation and burns beneath the stimulation electrodes applied to the skin.
- You may experience headache and other painful sensations during or following the application of electrical stimulation near your eyes and to your head and face.
- You should stop using the device and should consult with their physicians if they experience adverse reactions from the device.

1.5 Special Population

This device should not be used by patients with:

- Pacemakers, Defibrillators or extreme Cardiac Irregularities, Metals Implants or Electronic Auxiliary Devices
- Tendency toward internalBleeding
- Epilepsy
- Pregnant Women

1.6 Intended Use / Indications for Use

Over-The-Counter Use:

TENS:

SM9075 (mode 1-24) is used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, arm, and leg, due to strain from exercise or normal household and work activities.

SM9075 (mode 1-24) is also intended for symptomatic relief and management of chronic, intractable pain and relief of pain associated with arthritis.

EMS:

SM9075 (mode 25-48) is used to stimulate healthy muscles in order to improve and facilitate muscle performance. To be used for the improvement of muscle tone and firmness, and for strengthening muscles in the arms, abdomen, legs, and buttocks. Not intended for use in any therapy or for the treatment of any medical conditions or diseases.

SM9075 (mode 25-48) is also intended to temporarily increase local blood circulation in the healthy muscles of lower extremities.

RELAX:

SM9075 (mode 49-60) is designed to be used to stimulate healthy muscles in order to improve or facilitate muscle performance.

DEVICE DESCRIPTION

General Description

The Device is pain management device with a combination of TENS, EMS and RELAX therapy technology.

TENS: The electrodes placed on the skin send small-scale, low-voltage electrical pulses to specific nerves. The purpose is to change the way neurons send signals and prevent pain signals from reaching the brain to relieve pain.

EMS: A powered muscle stimulator for muscle conditioning is a device used for other than medical purposes to apply an electrical current to electrodes on a person's skin to temporarily affect the stimulated muscle's contractile properties, force output, and/or fatigue resistance. This device is not intended for use in patients with medical conditions and is intended only for muscle conditioning purposes.

RELAX: Use the electrical excitability of nerve cells to stimulate the nerves that dominate the muscle through pulse current to make Muscle contraction contract. The model SM9075 has nine buttons. These buttons are using to turn on/off the button, select the mode, time and so on. These modes are equipped with electrode plates, electrode wires, and charging cable.

ABOUT THE DEVICE

1. WHAT'S IN THE BOX

1 Emberace PulseR

1 USB-C Charging Cable

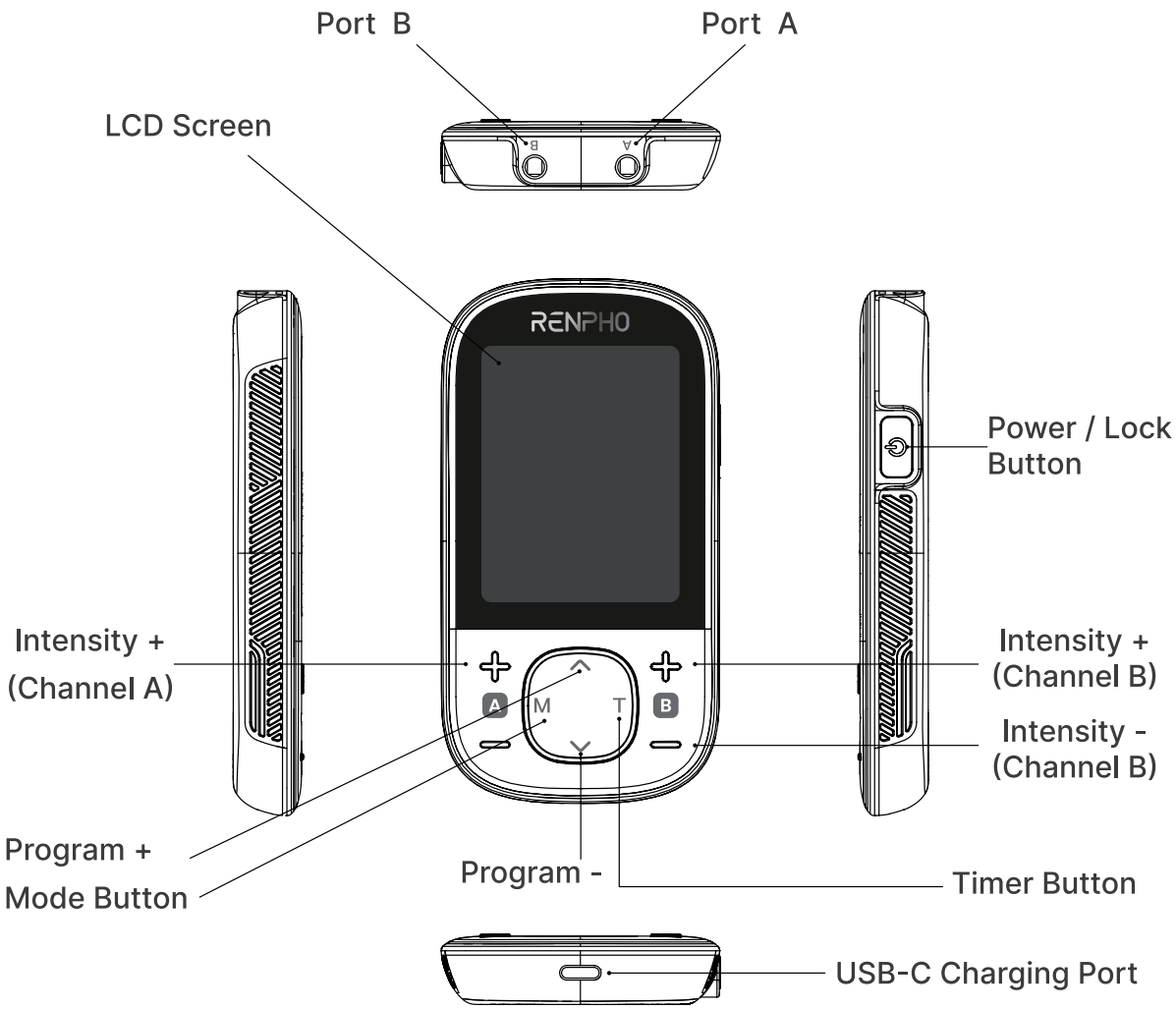
2 Electrode Cables

2 Release Liners

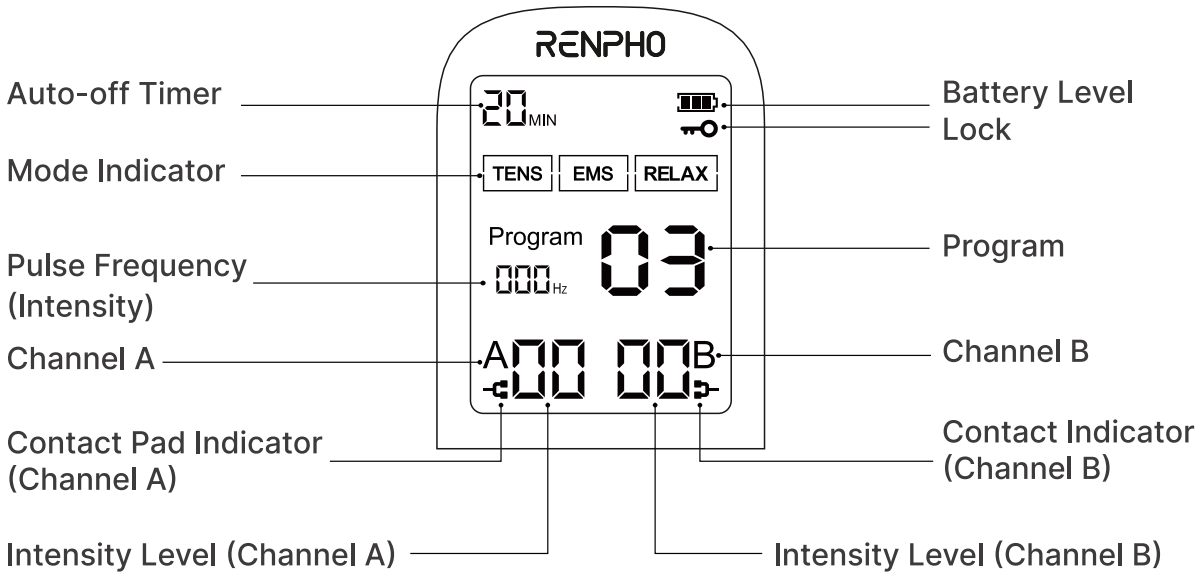
2 Pairs of Small Gel Electrode Pads

2 Pairs of Large Gel Electrode Pads

2. OVERVIEW

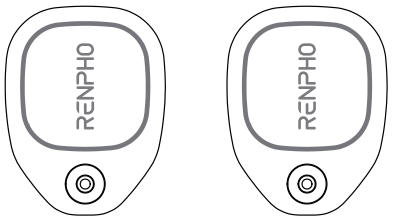


LCD Screen Display

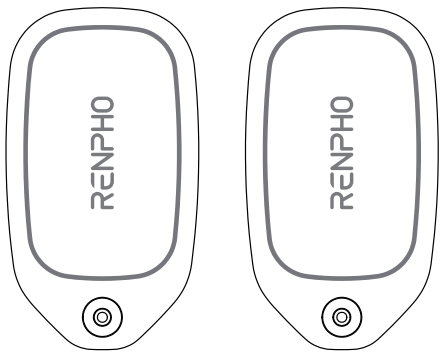


Note: The contact indicators are visible only when both gel electrode pads of the same channel have been applied to the skin.

4 Paris of Gel Electrode Pads

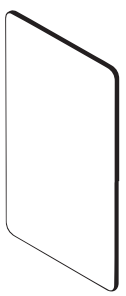


Small (2 Pairs)



Large (2 Pairs)

Release Liner (Peel off the release liner's coating before use.)



Button Introduction

Button	Operation
	Press and hold to turn On / Off the device. Press to lock / unlock (default) the device. Note: Once the device is locked, the other buttons will not respond until you unlock the device.
M	Press to select the mode: TENS (default), EMS and RELAX.
T	Press to select the auto-off timer: 10 / 20 (default) / 30 / 40 / 50 / 60 min.
	Press “+” to increase the pulse intensity. Press “-” to decrease the pulse intensity.
	Press to choose the program. • TENS: 01-24 • EMS: 25-48 • RELAX: 49-60 Note: There are 60 different programs in total, and each program has different pulse frequency and pulse width.

Note: The device can work only when both gel electrode pads of the same channel have been applied to the skin.

USING THE DEVICE

Before Use

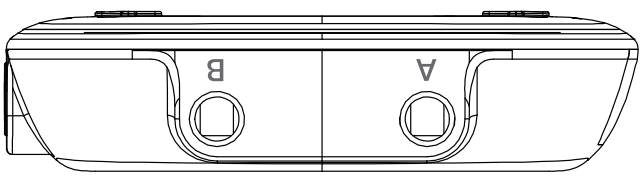
*** Ensure the contact points are clean and dry before connecting the control unit to the gel electrode pad.**

*** Replace the gel electrode pad if the contact points become damaged or corroded.**

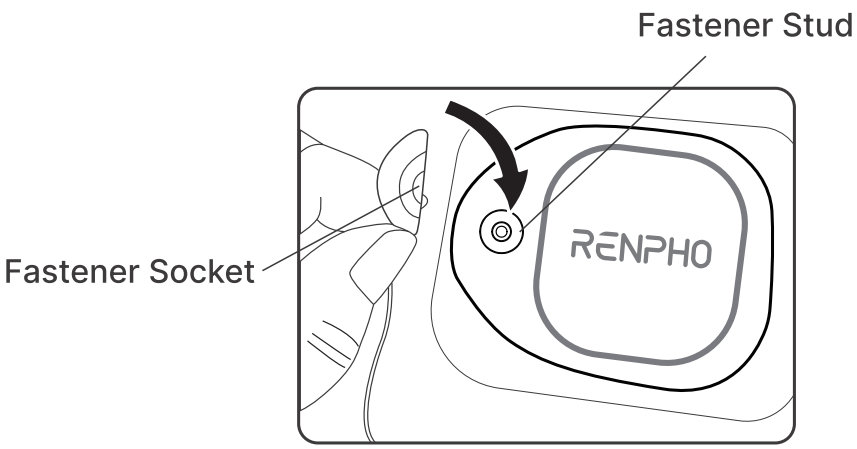
*** Do not apply pads to the same area for more than 30 minutes at a time.**

1. Operation

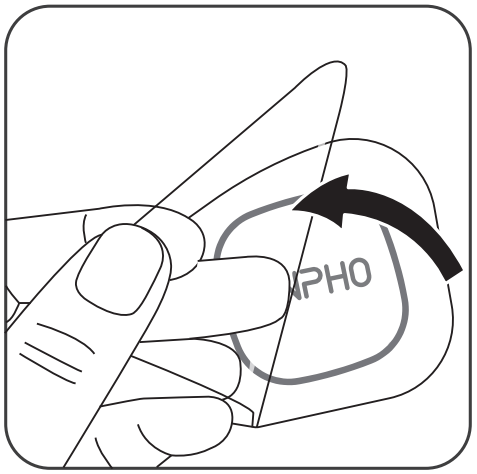
Step 1: Connect the electrode cable to Port A and/or Port B on the control unit.

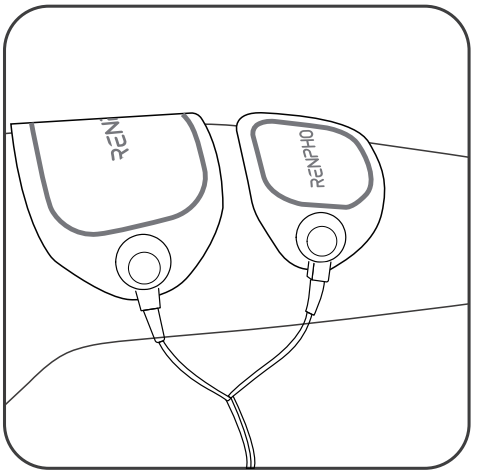


Step 2: Select one pair of gel electrode pads, then align the fastener sockets with the fastener stud, and press down to secure the connection.



Step 3: Peel off the protective film from the pad and apply it to the skin. After use, turn the device off, remove the pad, and cover it with the original protective film or the release liner.

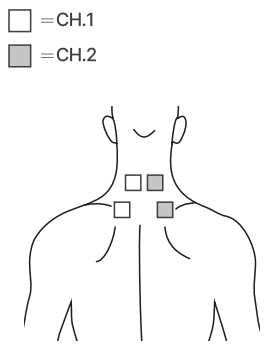
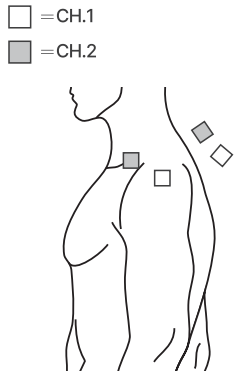
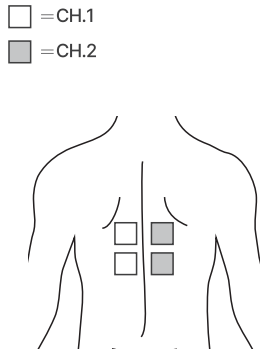
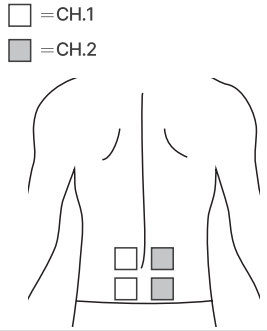


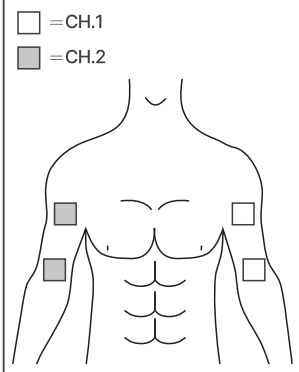
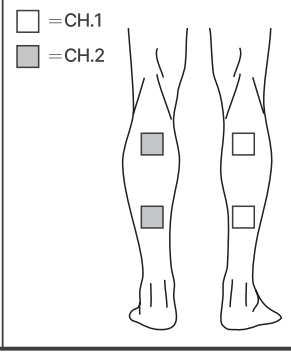


Note:

* Fully charge the device before the first use.
* When charging is completed, disconnect the power to prevent overcharging.
* When display "▭" icon, use the provided USB-C charging cable to charge the device as soon. DO NOT use the device while charging.
* This device does not include an adapter. Use only a legally sold adapter with the following specifications: input 100-240V AC, 50/60Hz; output DC 5V, 500mA. The AC adapter must be certified to IEC 62368-1.

2. Applied Position Guidance

Applied Position	Picture	Remark
Neck		Use one or both channels position the electrode pads at the back of the neck and over the top of the shoulders. Warning: **DO NOT** place pads on the side or front of the neck, directly over spine, or so that the electrodes for one single channel cross the spine. *Keep the neck straight.
Shoulders		Using one or both channels place pads on the front and back of the shoulder. Warning: do not place pads on the side or front of the neck. *Find the pain area and apply the electrodes at the anterior and posterior (inner & outer) shoulders. *Keep the area straight. Avoid sudden movements with the aching shoulders.
Back		Position pads on sides of the spine, **DO NOT** place directly over spine or so that the electrodes for one single channel cross the spine. *Apply the electrodes to the pain area. *Avoid working in the same position in the initial phase and change the position at times.
Waist		Position pads on sides of the spine, **DO NOT** place directly over spine or so that the electrodes for one single channel cross the spine.

Upper extremities (arm)		Position pads on sides of the spine, **DO NOT** place directly over spine or so that the electrodes for one single channel cross the spine. *Apply the electrodes to the pain area. *Avoid working in the same position in the initial phase and change the position at times.
Lower extremities (leg)		Attach the Pads to upper and lower calf.

3. Electrode Pads Guideline

1. Only use the electrode pads supplied by the manufacturer; other electrode pads may remain a risk of unsuitable electrical characteristics with your Pain Therapy Device.
2. Do not use the electrode pads on different individuals, otherwise, skin reaction or cross infection may occur.
3. Always turn power off before removing or repositioning the electrodes.
4. Make sure the skin has been washed thoroughly and keep try before applying the electrodes.
5. Apply the whole surface of the electrode pads firmly to the skin. Do not use electrode pads that do not stick properly to the skin or only partially stick to the skin.
6. In case of skin redness under the electrode pads after stimulation, do not stimulate in the same place since the skin turn to normal condition.

7. Please replace the electrode with a new electrode after it loses its viscosity, and you can purchase the electrode that has already been marketed.

CLEANING & MAINTENANCE & STORAGE

Dirt and grim on the device should be wiped by a damp cloth. Use water only, do not use thinner or alcohol because they can cause damage to thedevice.

To clean the sticky surface of the electrode pads, spray alcohol or water lightly on the surface of the electrode. Each person should use their own set of electrode pads for best hygiene. It should be replaced after no stickiness at all.

After cleaning, please visually inspect the electrode pad and device surface for any dirt. If there is any, please clean again. If there is no dirt, please store it as required.

Note:

- Always place the clear plastic protective film over the Electrodes pads when not in use. Do not place them on any other surfaces as they will get dirty.
- Never stick two electrode pads to each other.
- Keep the electrode pads clean, and never put them under high temperature and direct sunshine.
- Gently clean the electrode with a moist cloth or use a rubber to remove dust.
- Do not clean the electrode pads with hot water or any chemical.

- Do not touch the gel of the pads by your figure, or it reduce the gel and lose its function.
- Do not clean the electrode pads with any chemical.

Store the machine in a dry place, out of reach of children.

Do not disassemble the device for any purpose.

When the unit will not be used for a long duration, remove the battery.

Storage Temperature: -20°C～+55°C

Humidity: ≤93%RH

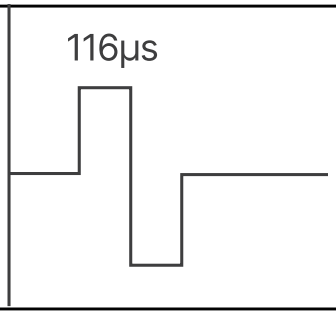
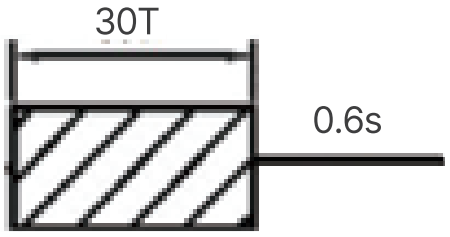
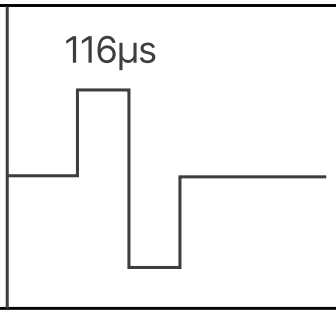
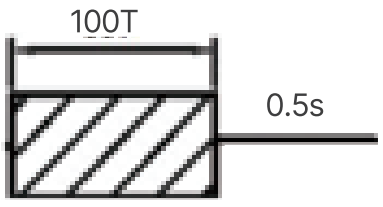
Atmospheric pressure: 50 kPa~106 kPa

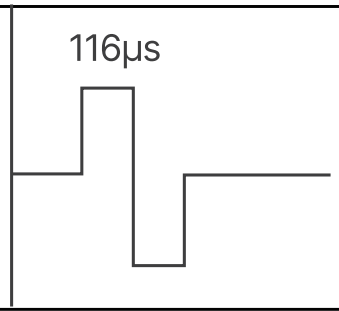
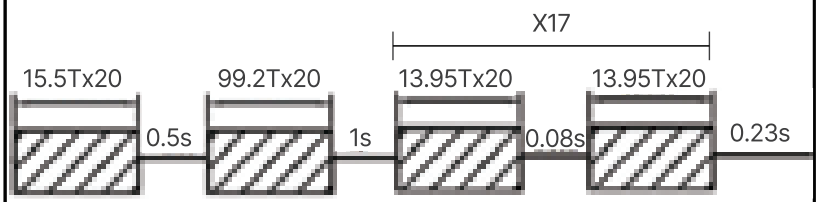
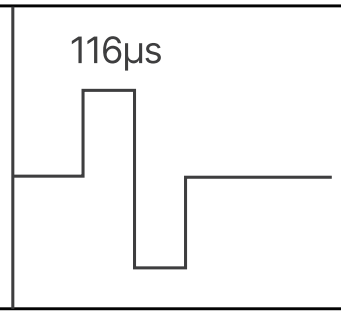
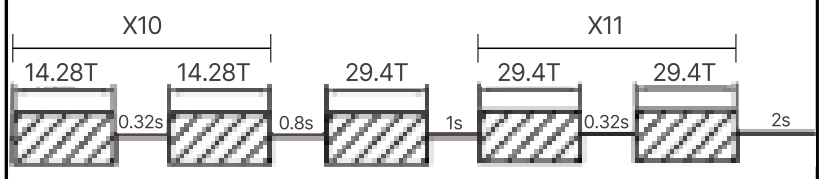
SPECIFICATIONS

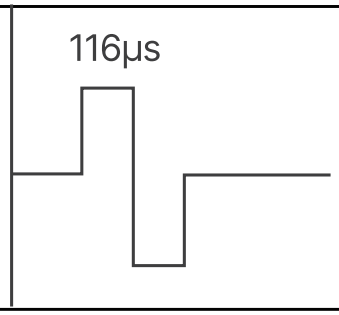
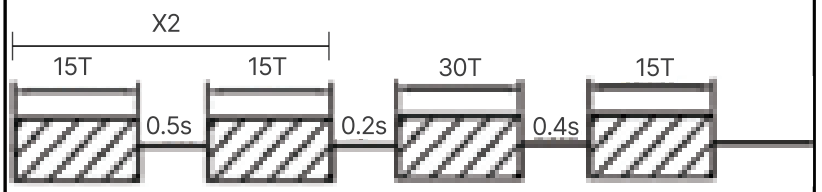
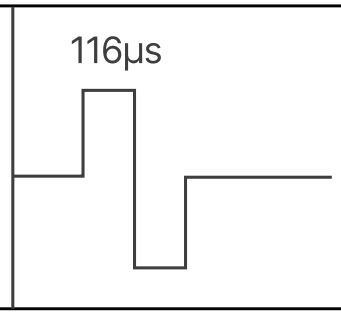
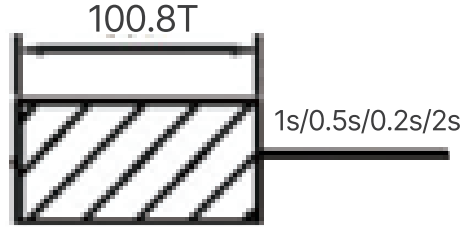
Specification		
Product Name		Pain Therapy Device
Model		SM9075
Input		5V ⎓ 0.14A
Battery Voltage		DC 3.7V
Battery Capacity		180mAh 0.666Wh
Applied Part		Type BF Applied Part
Number of Output Channels		2
Regulated Current or Regulated Voltage		Regulated Voltage
Software/Firmware/Microprocessor Control?		Yes
Automatic Overload Trip?		No
Automatic No-Load Trip?		Yes
Indication display	ON/Off status?	Yes
	Low Battery?	Yes
	Voltage /Current Level?	No
Number of Output Modes		60
Output Intensity Level		20
Timer Range		10-60min
Weight		67g
Outer Dimension		108.2 x 56.74 x 13.8mm
Electrode Surface Area		Rectangle-shaped: 25cm^2

Housing Materials and Construction	Main unit: ABS Electrode pad: silica gel
Durable period (Service Life)	Main unit: 1 year Electrode pads: 2 years
Waveform and Shape	Rectangular
Maximum Output Voltage	59V@500Ω 82V@2KΩ 90V@10KΩ
Maximum Output Current	118mA@500Ω 41mA@2KΩ 9mA@10KΩ
Pulse Duration (±10%)	108~260μs
Pulse frequency	1~100Hz
Maximum Phase Charge	23.6μC @ 500Ω
Maximum Current Density	9.15 mA/cm² @ 500Ω
Maximum Average Power Density	0.407 mW/ cm2 @ 500Ω
Operation Environment	Temperature: 5°C～40°C Humidity: ≤80% RH Atmospheric pressure: 80 kPa~106 kPa
Storage Environment	Temperature: 5°C～40°C Humidity: ≤80% RH Atmospheric pressure: 80 kPa~106 kPa
Biocompatibility	ISO 10993-5 ISO 10993-10
Electrical Safety	IEC 60601-1, IEC 60601-1-11, IEC 60601-2-10, IEC 62133-2
EMC	IEC 60601-1-2

Treatment Modes Specification

Waveform for model SM9075: 60 modes			
Mode 1			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	38V @ 500Ω
Pulse Repetition Frequencies:		20Hz	
Basic Waveform:			
Cycle of Mode 1:			
Mode 2			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	40V @ 500Ω
Pulse Repetition Frequencies:		25Hz	
Basic Waveform:			
Cycle of Mode 2:			

Mode 3			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	40V @ 500Ω
Pulse Repetition Frequencies:		31Hz	
Basic Waveform:			
Cycle of Mode 3:			
Mode 4			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	45V @ 500Ω
Pulse Repetition Frequencies:		42Hz	
Basic Waveform:			
Cycle of Mode 4:			

Mode 5			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	46V @ 500Ω
Pulse Repetition Frequencies:		50Hz	
Basic Waveform:			
Cycle of Mode 5:			
Mode 6			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	42V @ 500Ω
Pulse Repetition Frequencies:		63Hz	
Basic Waveform:			
Cycle of Mode 6:			

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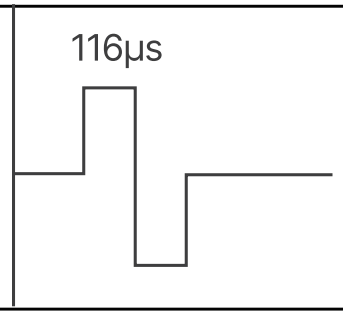
<tr><td colspan="4">Mode 7</td></tr>
<tr><td>Pulse duration:</td><td>116μs</td><td>Maximum Amplitude of output voltage:</td><td>35V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">100Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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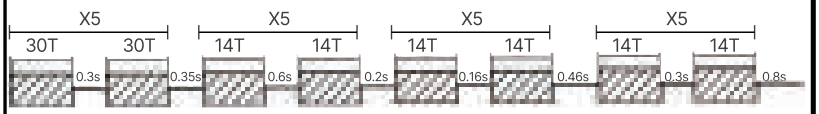
<tr><td colspan="2">Cycle of Mode 7:</td><td colspan="2"> 
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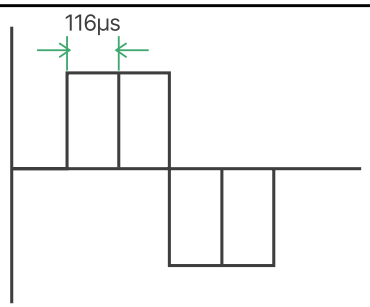
<tr><td colspan="4">Mode 8</td></tr>
<tr><td>Pulse duration:</td><td>116μs</td><td>Maximum Amplitude of output voltage:</td><td>38V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">20Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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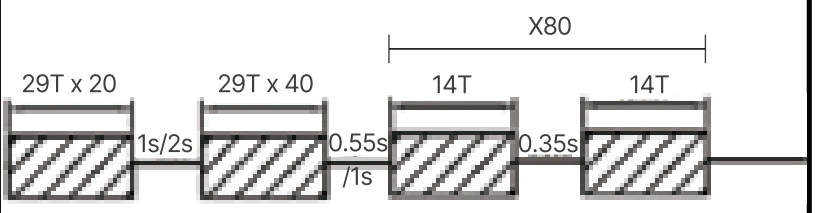
<tr><td colspan="2">Cycle of Mode 8:</td><td colspan="2"> 
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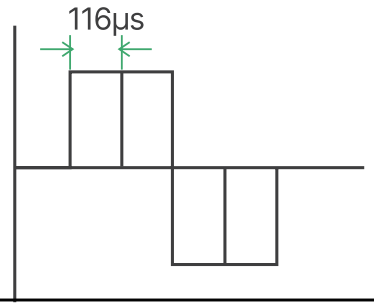
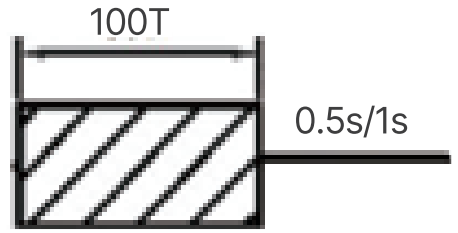
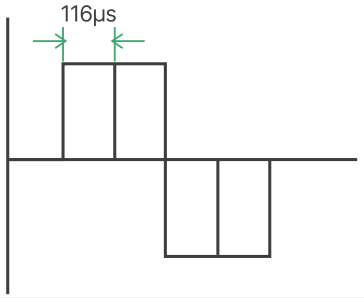
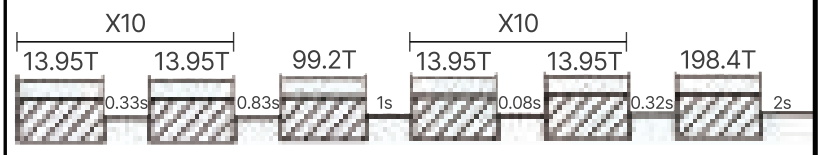
Mode 9			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	38V @ 500Ω
Pulse Repetition Frequencies:		25Hz	
Basic Waveform:			
Cycle of Mode 9:			
Mode 10			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	41V @ 500Ω
Pulse Repetition Frequencies:		31Hz	
Basic Waveform:			
Cycle of Mode 10:			

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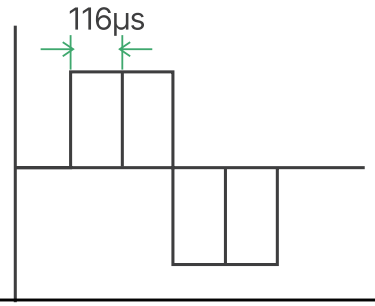
<tr><td colspan="4">Mode 11</td></tr>
<tr><td>Pulse duration:</td><td>116μs</td><td>Maximum Amplitude of output voltage:</td><td>42V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">42Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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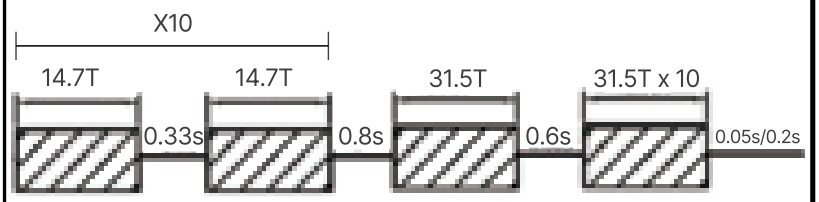
<tr><td colspan="2">Cycle of Mode 11:</td><td colspan="2"> 
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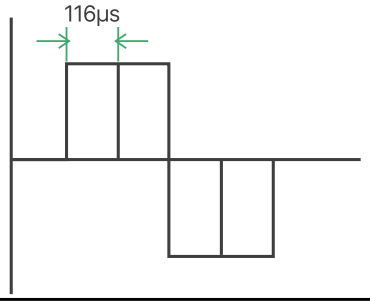
<tr><td colspan="4">Mode 12</td></tr>
<tr><td>Pulse duration:</td><td>116μs</td><td>Maximum Amplitude of output voltage:</td><td>42V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">50Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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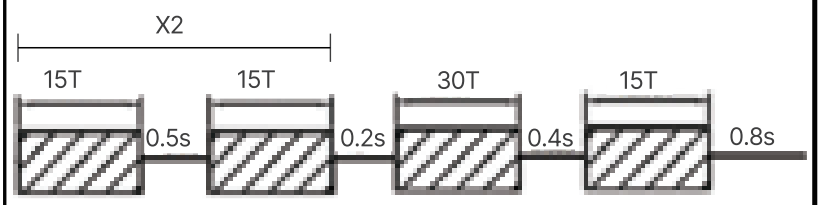
<tr><td colspan="2">Cycle of Mode 12:</td><td colspan="2"> 
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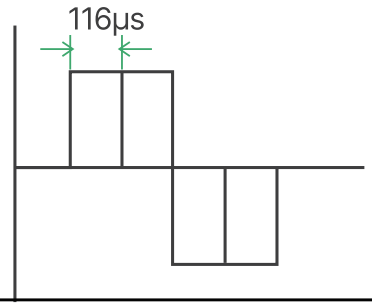
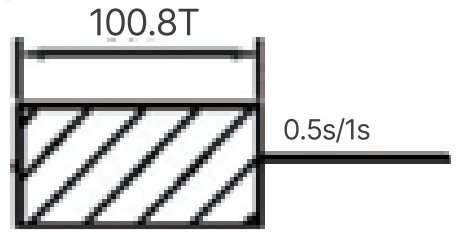
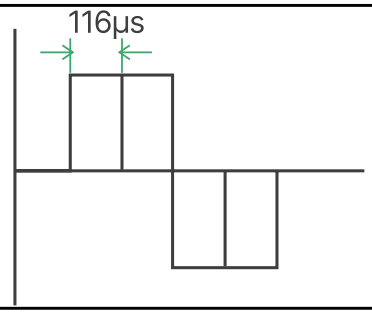
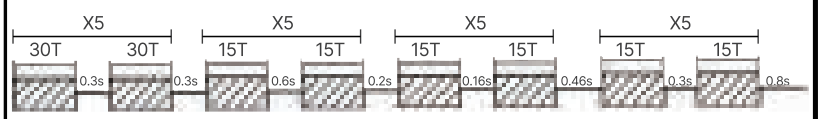
Mode 13			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	38V @ 500Ω
Pulse Repetition Frequencies:		63Hz	
Basic Waveform:			
Cycle of Mode 13:			
Mode 14			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	30V @ 500Ω
Pulse Repetition Frequencies:		100Hz	
Basic Waveform:			
Cycle of Mode 14:			

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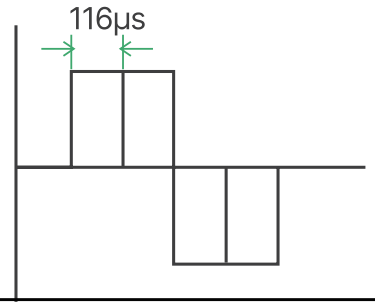
<tr><td colspan="4">Mode 15</td></tr>
<tr><td>Pulse duration:</td><td>116μs</td><td>Maximum Amplitude of output voltage:</td><td>36V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">20Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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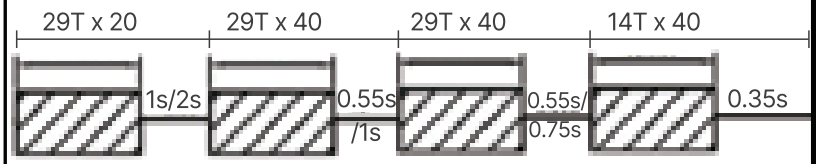
<tr><td colspan="2">Cycle of Mode 15:</td><td colspan="2"> 
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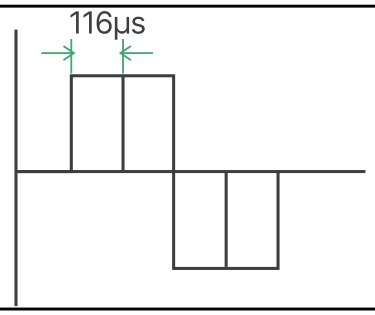
<tr><td colspan="4">Mode 16</td></tr>
<tr><td>Pulse duration:</td><td>116μs</td><td>Maximum Amplitude of output voltage:</td><td>42V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">25Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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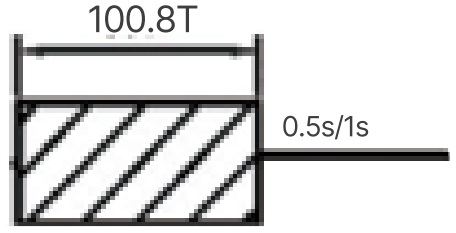
<tr><td colspan="2">Cycle of Mode 16:</td><td colspan="2"> 
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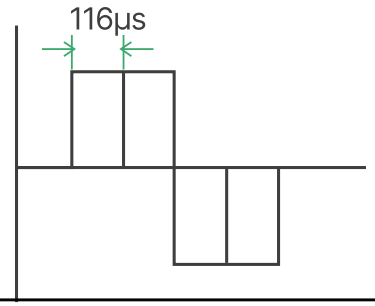
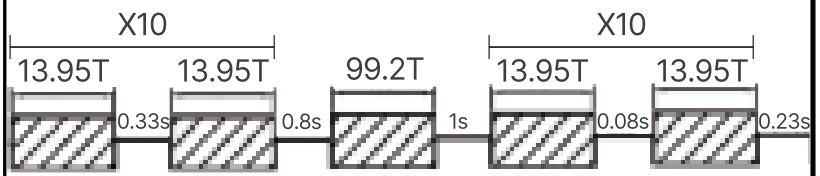
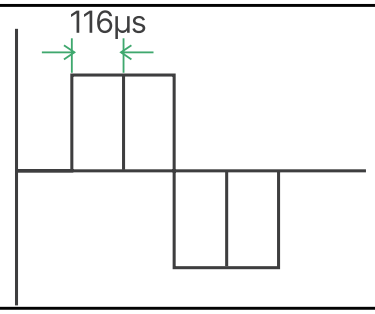
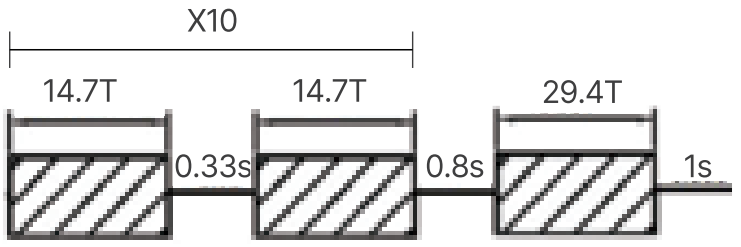
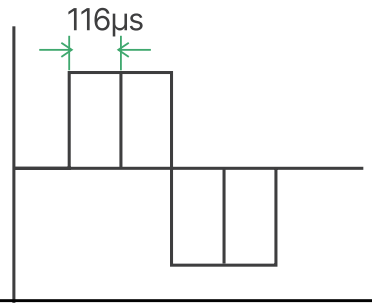
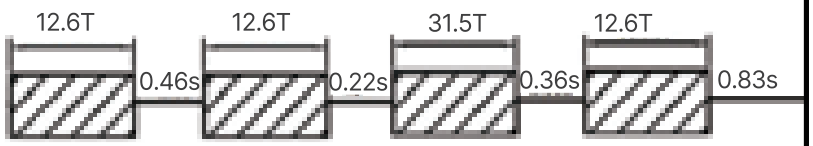
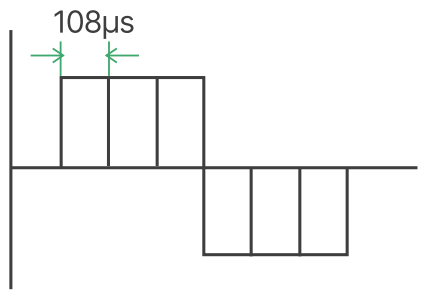
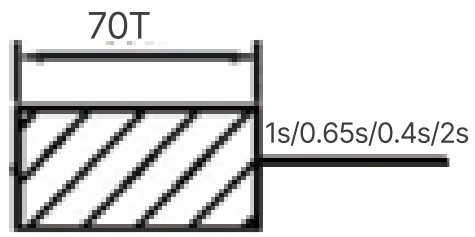
Mode 17			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	45V @ 500Ω
Pulse Repetition Frequencies:		31Hz	
Basic Waveform:			
Cycle of Mode 17:			
Mode 18			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	40V @ 500Ω
Pulse Repetition Frequencies:		42Hz	
Basic Waveform:			
Cycle of Mode 18:			

Mode 19			
Pulse duration:	116μs	Maximum Amplitude of output voltage:	30V @ 500Ω
Pulse Repetition Frequencies:		63Hz	
Basic Waveform:			
Cycle of Mode 19:			
Mode 20			
Pulse duration:	108μs	Maximum Amplitude of output voltage:	25V @ 500Ω
Pulse Repetition Frequencies:		100Hz	
Basic Waveform:			
Cycle of Mode 20:			

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<tr><td colspan="4">Mode 21</td></tr>
<tr><td>Pulse duration:</td><td>240μs</td><td>Maximum Amplitude of output voltage:</td><td>37V @ 500Ω</td></tr>
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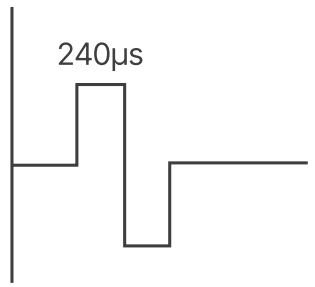
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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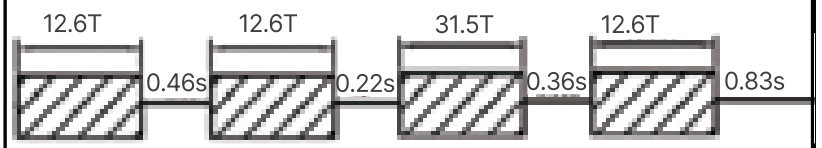
<tr><td colspan="2">Cycle of Mode 21:</td><td colspan="2"> 
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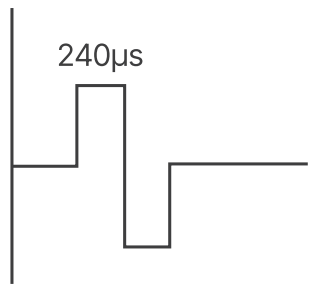
<tr><td colspan="4">Mode 22</td></tr>
<tr><td>Pulse duration:</td><td>240μs</td><td>Maximum Amplitude of output voltage:</td><td>37V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">35Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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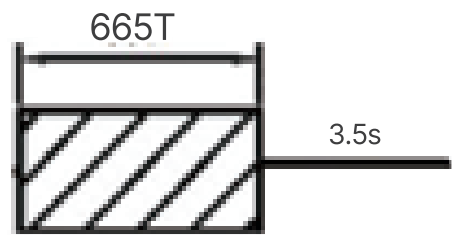
<tr><td colspan="2">Cycle of Mode 22:</td><td colspan="2"> 
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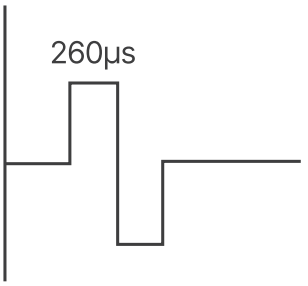
<tr><td colspan="4">Mode 23</td></tr>
<tr><td>Pulse duration:</td><td>260μs</td><td>Maximum Amplitude of output voltage:</td><td>35V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">21Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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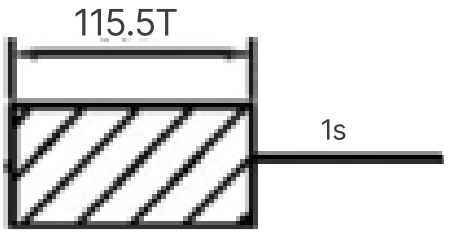
<tr><td colspan="2">Cycle of Mode 23:</td><td colspan="2"> 
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<tr><td colspan="4">Mode 24</td></tr>
<tr><td>Pulse duration:</td><td>240μs</td><td>Maximum Amplitude of output voltage:</td><td>43V @ 500Ω</td></tr>
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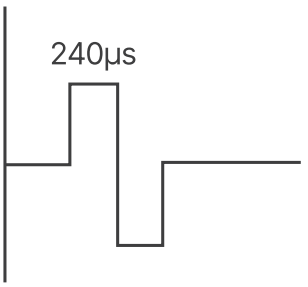
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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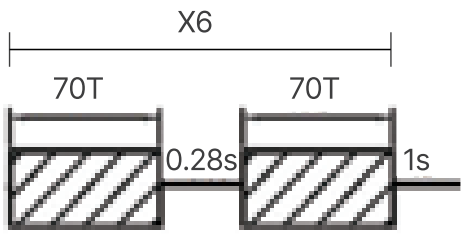
<tr><td colspan="2">Cycle of Mode 24:</td><td colspan="2"> 
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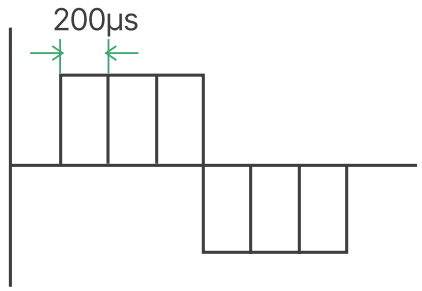
<tr><td colspan="4">Mode 25</td></tr>
<tr><td>Pulse duration:</td><td>200μs</td><td>Maximum Amplitude of output voltage:</td><td>50V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">1Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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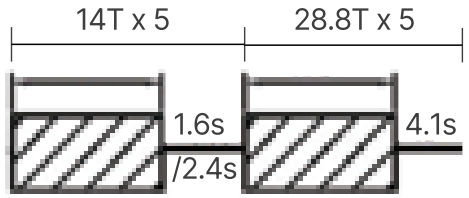
<tr><td colspan="2">Cycle of Mode 25:</td><td colspan="2"> 
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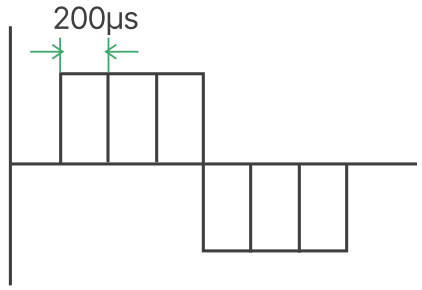
<tr><td colspan="4">Mode 26</td></tr>
<tr><td>Pulse duration:</td><td>200μs</td><td>Maximum Amplitude of output voltage:</td><td>59V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">2Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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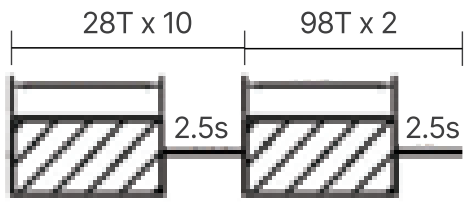
<tr><td colspan="2">Cycle of Mode 26:</td><td colspan="2"> 
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<tr><td>Pulse duration:</td><td>200μs</td><td>Maximum Amplitude of output voltage:</td><td>57V @ 500Ω</td></tr>
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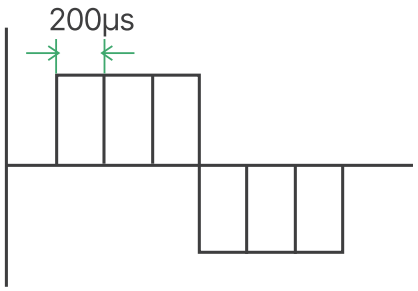
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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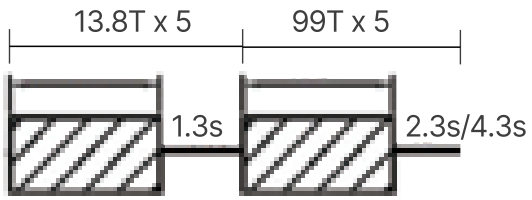
<tr><td colspan="2">Cycle of Mode 27:</td><td colspan="2"> 
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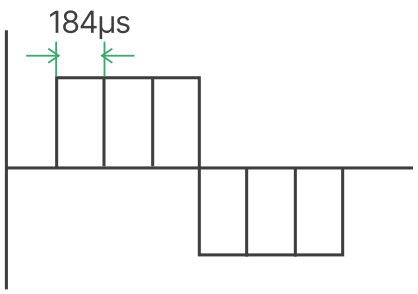
<tr><td colspan="4">Mode 28</td></tr>
<tr><td>Pulse duration:</td><td>184μs</td><td>Maximum Amplitude of output voltage:</td><td>46V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">5Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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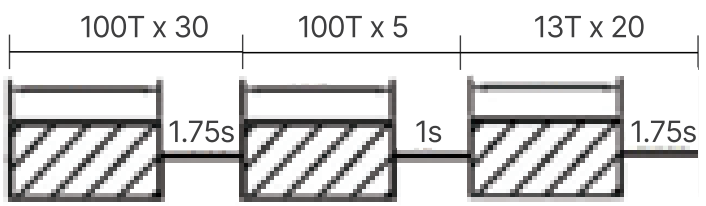
<tr><td colspan="2">Cycle of Mode 28:</td><td colspan="2"> 
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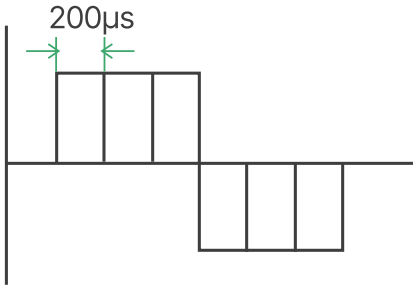
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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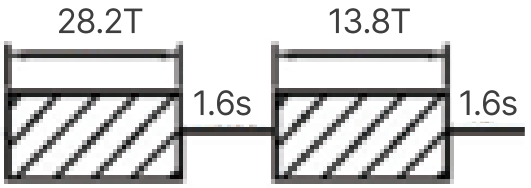
<tr><td colspan="2">Cycle of Mode 29:</td><td colspan="2"> 
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<tr><td colspan="4">Mode 30</td></tr>
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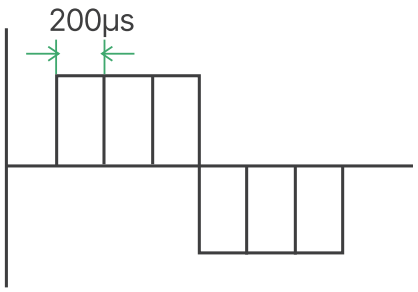
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">7Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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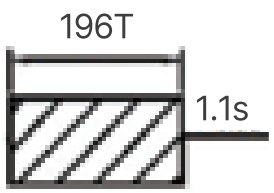
<tr><td colspan="2">Cycle of Mode 30:</td><td colspan="2"> 
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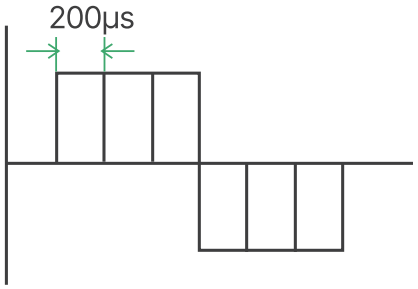
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">9Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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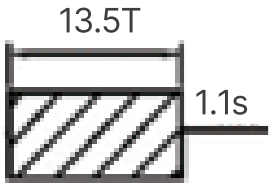
<tr><td colspan="2">Cycle of Mode 31:</td><td colspan="2"> 
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<tr><td colspan="4">Mode 32</td></tr>
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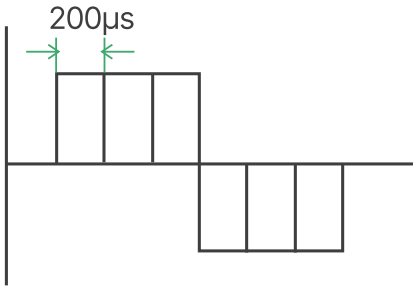
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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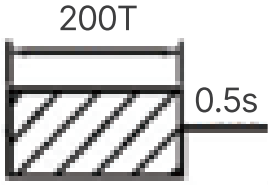
<tr><td colspan="2">Cycle of Mode 32:</td><td colspan="2"> 
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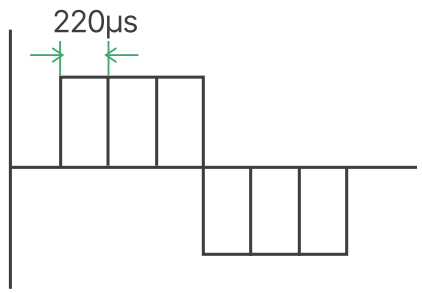
<tr><td>Pulse duration:</td><td>220μs</td><td>Maximum Amplitude of output voltage:</td><td>48V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">13Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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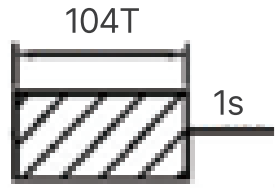
<tr><td colspan="2">Cycle of Mode 33:</td><td colspan="2"> 
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<tr><td>Pulse duration:</td><td>200μs</td><td>Maximum Amplitude of output voltage:</td><td>46V @ 500Ω</td></tr>
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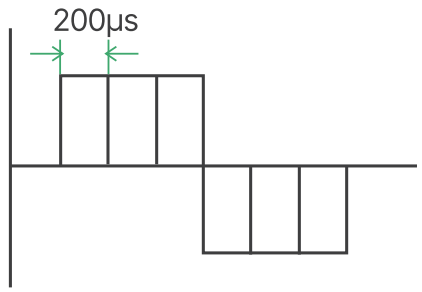
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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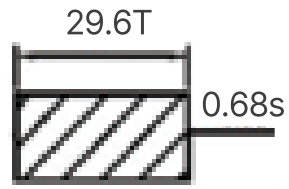
<tr><td colspan="2">Cycle of Mode 34:</td><td colspan="2"> 
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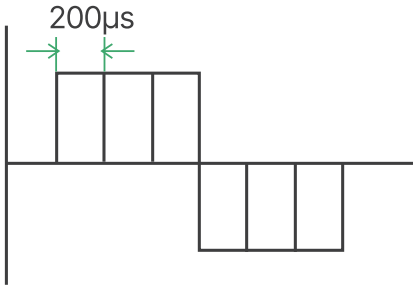
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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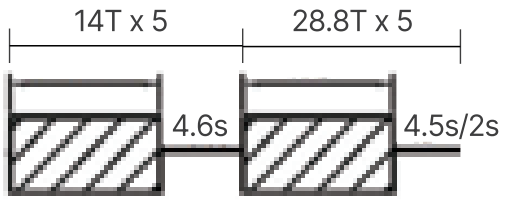
<tr><td colspan="2">Cycle of Mode 35:</td><td colspan="2"> 
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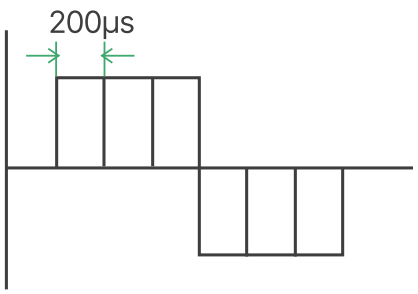
<tr><td colspan="4">Mode 36</td></tr>
<tr><td>Pulse duration:</td><td>200μs</td><td>Maximum Amplitude of output voltage:</td><td>46V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">2Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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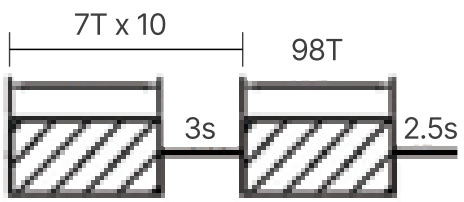
<tr><td colspan="2">Cycle of Mode 36:</td><td colspan="2"> 
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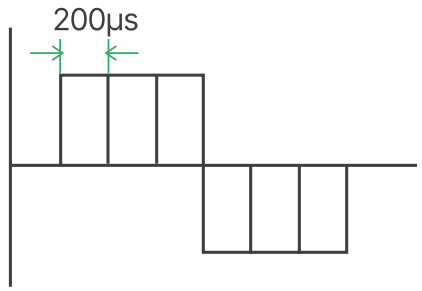
<tr><td colspan="4">Mode 37</td></tr>
<tr><td>Pulse duration:</td><td>200μs</td><td>Maximum Amplitude of output voltage:</td><td>52V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">3Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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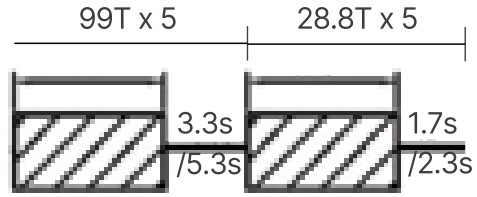
<tr><td colspan="2">Cycle of Mode 37:</td><td colspan="2"> 
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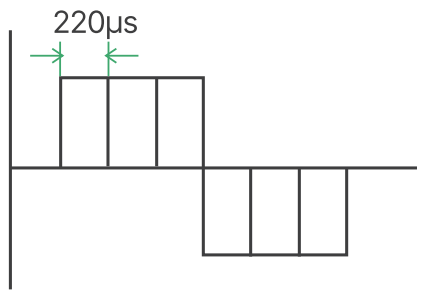
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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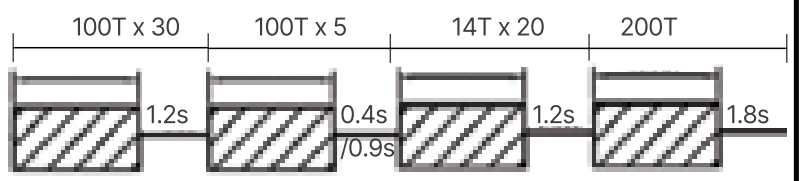
<tr><td colspan="2">Cycle of Mode 38:</td><td colspan="2"> 
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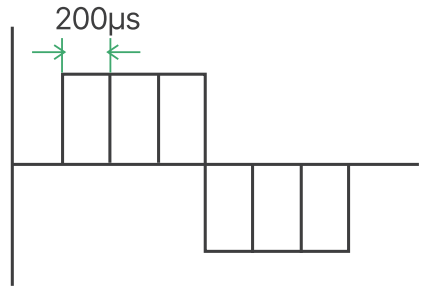
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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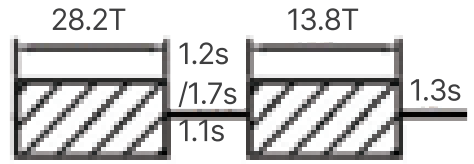
<tr><td colspan="2">Cycle of Mode 39:</td><td colspan="2"> 
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<tr><td colspan="4">Mode 40</td></tr>
<tr><td>Pulse duration:</td><td>200μs</td><td>Maximum Amplitude of output voltage:</td><td>48V @ 500Ω</td></tr>
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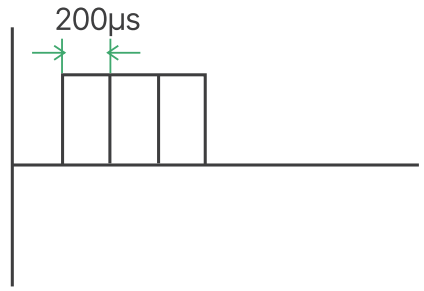
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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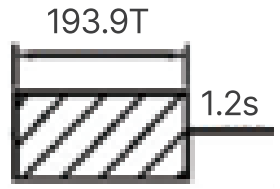
<tr><td colspan="2">Cycle of Mode 40:</td><td colspan="2"> 
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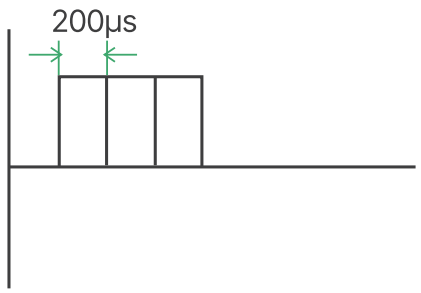
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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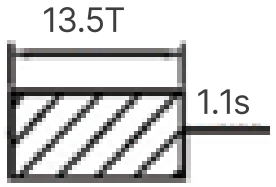
<tr><td colspan="2">Cycle of Mode 41:</td><td colspan="2"> 
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<tr><td colspan="4">Mode 42</td></tr>
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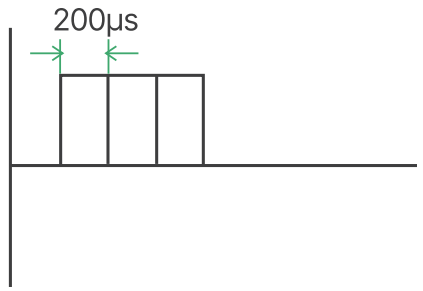
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
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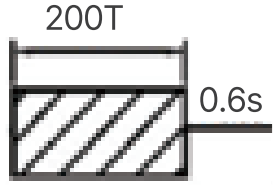
<tr><td colspan="2">Cycle of Mode 42:</td><td colspan="2"> 
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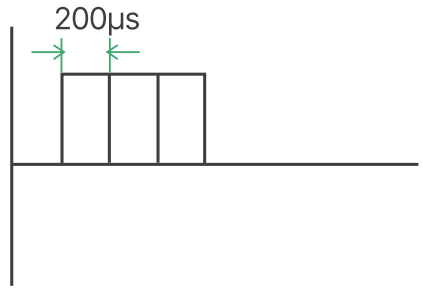
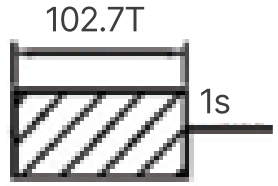
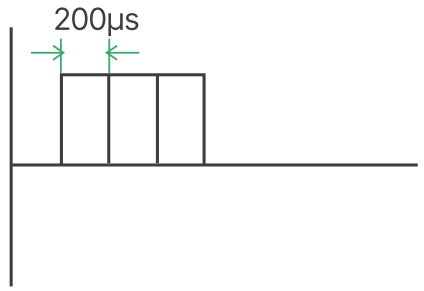
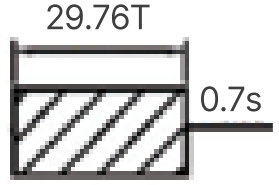
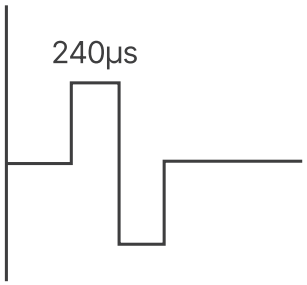
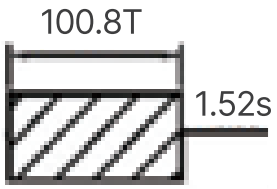
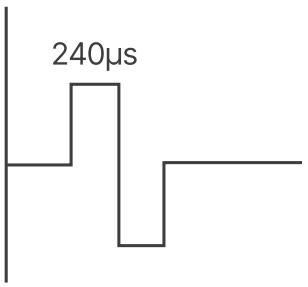
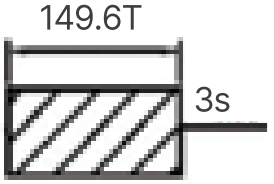
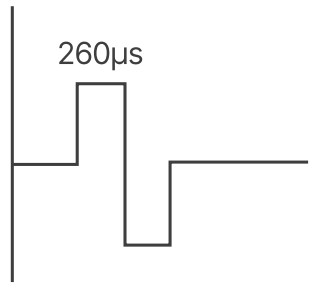
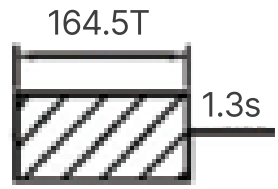
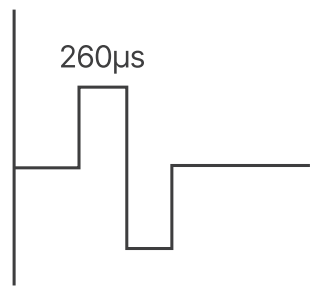
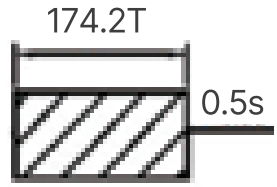
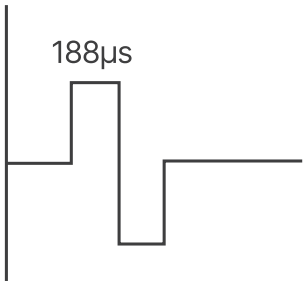
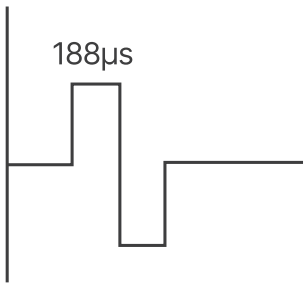
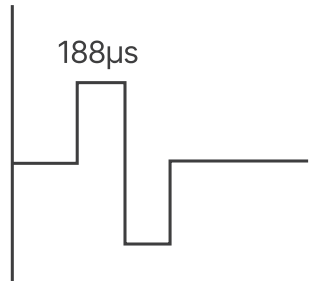
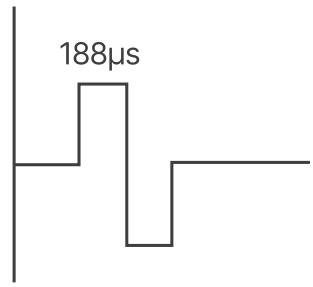
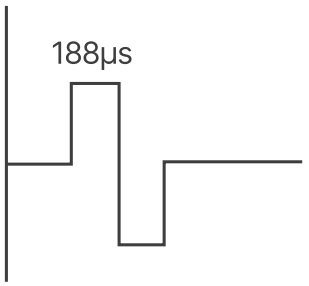
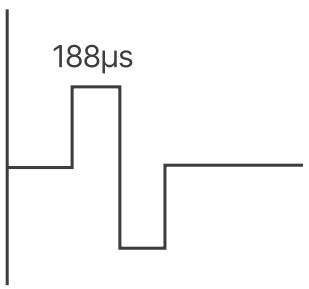
Mode 43			
Pulse duration:	200μs	Maximum Amplitude of output voltage:	50V @ 500Ω
Pulse Repetition Frequencies:		13Hz	
Basic Waveform:			
Cycle of Mode 43:			
Mode 44			
Pulse duration:	200μs	Maximum Amplitude of output voltage:	52V @ 500Ω
Pulse Repetition Frequencies:		10Hz	
Basic Waveform:			
Cycle of Mode 44:			

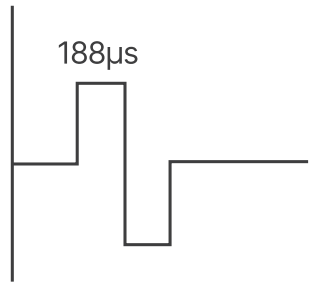
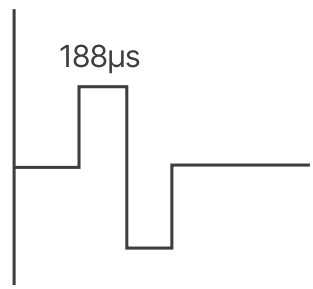
<table>
<tr><td colspan="4">Mode 45</td></tr>
<tr><td>Pulse duration:</td><td>240μs</td><td>Maximum Amplitude of output voltage:</td><td>37V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">24Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 45:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="4">Mode 46</td></tr>
<tr><td>Pulse duration:</td><td>240μs</td><td>Maximum Amplitude of output voltage:</td><td>35V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">22Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 46:</td><td colspan="2"> 
</td></tr>
</table>

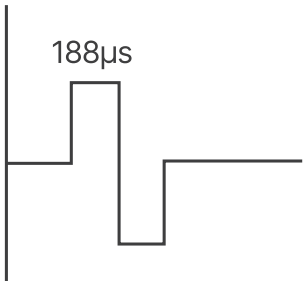
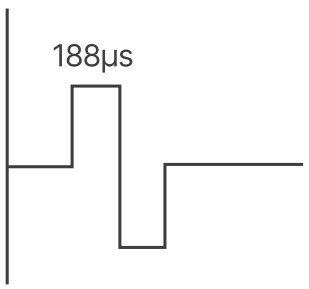
Mode 47			
Pulse duration:	260μs	Maximum Amplitude of output voltage:	35V @ 500Ω
Pulse Repetition Frequencies:		35Hz	
Basic Waveform:			
Cycle of Mode 47:			
Mode 48			
Pulse duration:	260μs	Maximum Amplitude of output voltage:	35V @ 500Ω
Pulse Repetition Frequencies:		26Hz	
Basic Waveform:			
Cycle of Mode 48:			

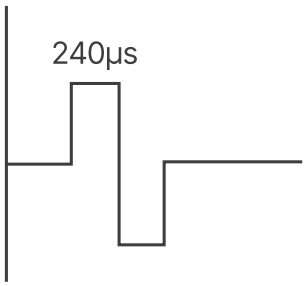
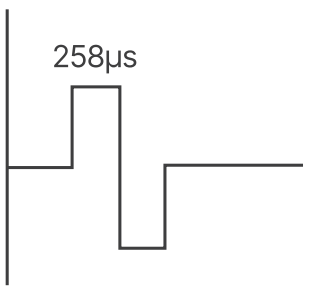
<table>
<tr><td colspan="4">Mode 49</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>42V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">2Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 49:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
<tr><td colspan="4">Mode 50</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>41V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">3Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 50:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
</table>

Mode 51			
Pulse duration:	188μs	Maximum Amplitude of output voltage:	40V @ 500Ω
Pulse Repetition Frequencies:		5Hz	
Basic Waveform:			
Cycle of Mode 51:		The device waveform is a continuous output waveform, and the wave group is not reflected here.	
Mode 52			
Pulse duration:	188μs	Maximum Amplitude of output voltage:	40V @ 500Ω
Pulse Repetition Frequencies:		7Hz	
Basic Waveform:			
Cycle of Mode 52:		The device waveform is a continuous output waveform, and the wave group is not reflected here.	

<table>
<tr><td colspan="4">Mode 53</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>40V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">8Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 53:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
<tr><td colspan="4">Mode 54</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>40V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">9Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 54:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
</table>

<table>
<tr><td colspan="4">Mode 55</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>41V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">10Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 55:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
<tr><td colspan="4">Mode 56</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>40V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">9Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 56:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
</table>

<table>
<tr><td colspan="4">Mode 57</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>40V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">13Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 57</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
<tr><td colspan="4">Mode 58</td></tr>
<tr><td>Pulse duration:</td><td>188μs</td><td>Maximum Amplitude of output voltage:</td><td>40V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">16Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 58:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
</table>

<table>
<tr><td colspan="4">Mode 59</td></tr>
<tr><td>Pulse duration:</td><td>240μs</td><td>Maximum Amplitude of output voltage:</td><td>40V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">15Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 59</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
<tr><td colspan="4">Mode 60</td></tr>
<tr><td>Pulse duration:</td><td>258μs</td><td>Maximum Amplitude of output voltage:</td><td>36V @ 500Ω</td></tr>
<tr><td colspan="2">Pulse Repetition Frequencies:</td><td colspan="2">38Hz</td></tr>
<tr><td colspan="2">Basic Waveform:</td><td colspan="2"> 
</td></tr>
<tr><td colspan="2">Cycle of Mode 60:</td><td colspan="2">The device waveform is a continuous output waveform, and the wave group is not reflected here.</td></tr>
</table>

TROUBLESHOOTING GUIDE

Problem	Possible Causes	Solution
The intensity from one pad is noticeably stronger than from the others.	Sensitivity levels can vary across different body areas.	Adjust the application areas if needed.
Weak intensity.	The gel electrode pad is not attached to the skin firmly.	Attach the pad firmly to the skin.
	Lower pulse intensity is selected.	Adjust to a higher pulse intensity.
	Lower pulse intensity is selected.Adjust to a higher pulse intensity.	Lower pulse intensity is selected.Adjust to a higher pulse intensity.
No stimulation.	The gel electrode pad is not connected to the control unit firmly.	Refer to “Operation” to assemble.
Skin turns red or the skin feels irritated.	The adhesive surface of the gel electrode pad is dirty or dry.	Wash the adhesive surface of pads gently with your fingertips for about 3 seconds under slow running water.
	Used for too long with the pulse intensity set too high.	Use the device less than 30 min a session and choose a lower pulse intensity.
	The gel electrode pad’s surface is worn out.	Replace another gel electrode pad.

The device stops working suddenly.	Battery is weak or depleted.	Charge the device and restart it.
	The auto-off timer is activated.	Restart the device if needed.
	The device was disturbed by other RF devices.	Wait for the device to correct itself. If unsuccessful, restart the device or relocate to use.
Failed to turn on the device.	Batteries are weak or depleted.	Charge the device and restart it.
	Power Button was pressed for only a short duration.	Press and hold the Power Button to turn on the device.
Slow charging / unable to charge.	Use other types of charging cables.	Use the provided charging cable only.
It's difficult to attach the gel electrode pads to the skin.	The transparent protective films were not peeled off before use.	Peel off the protective film from the gel surface.
	The gel electrode pads were applied immediately after washing.	Ensure the gel electrode pads are dry before use.
	The gel electrode pads were applied immediately after washing.Ensure the gel electrode pads are dry before use.	The gel electrode pads were applied immediately after washing.Ensure the gel electrode pads are dry before use.

DISPOSAL

1. The device and accessories out of shelf life or use life should not be thrown randomly and should be recycled by the manufacturer.
2. To dispose of packing materials, take appropriate actions in accordance with the rules and regulations in force in your area to prevent adverse ecological effects.
3. The expected service life for the main unit is one year. And the expected service life of Electrode is 2 years. Please replace a new electrode when it is not sticky.

LABEL SYMBOLS

Label symbols are shown in the following table:

1.		Medical device. Indicates the item is a medical device
2.		DATE OF MANUFACTURE. This symbol shall be accompanied by a date to indicate the date of manufacture.
3.		Symbol for "MANUFACTURER". This symbol shall be accompanied by the name and the address of the manufacturer.
4.		Collect separately from other household waste
5.		Type BF Applied Part
6.		IP classification
7.		General warning
8.		Refer to user manual
9.		Batch code
10.		MR unsafe

Essential Performance

The main functions such as the button function, electrical stimulation and the LCD screen of the device can keep working normally.

ELECTROMAGNETIC COMPATIBILITY

1. This device complies with Medical Electrical Safety Standards:
   - EMC and low voltage instructions IEC 60601-1, IEC 60601-1-11, IEC 60601-2-10
   - Biological Safety of Medical Devices ISO 10993-5, ISO 10993 -10
2. The Pain Therapy Device also complies with Medical EMC Standard (IEC 60601-1-2).

Guidance and manufacturer's declaration – electromagnetic emissions	
This equipment is intended for use in the electromagnetic environments specified below, and the purchasers or users shall ensure that it is used in these electromagnetic environments.	
Emissions	**Compliance**
RF emissions (Radiated) CISPR 11	Group 1 Class B
RF emissions (Conducted) CISPR 11	Group 1 Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies

Guidance and manufacturer's declaration – electromagnetic immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that It is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Environments**
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	HOME HEALTHCARE environment
Electrical fast transient/burst (EFT) IEC 61000-4-4	±2 kV for power supply lines	±2 kV for power supply lines	HOME HEALTHCARE environment
Surge IEC 61000-4-5	± 0.5kV, ± 1 kV line(s) to lines	± 0.5kV, ± 1 kV line(s) to lines	HOME HEALTHCARE environment
Voltage dips, short interruptions and Voltage variations on power supply input lines IEC 61000-4-11	0% UT, 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT, 1 cycle at 0° 70% UT, 25 / 30 cycle at 0° 70% UT, 25 / 30 cycle at 0° 0% UT, 250 / 300 cycle	0% UT, 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT, 1 cycle at 0° 70% UT, 25 / 30 cycle at 0° 70% UT, 25 / 30 cycle at 0° 0% UT, 250 / 300 cycle	HOME HEALTHCARE environment
Power frequency (50/60 Hz)	30 A/m	30 A/m	HOME HEALTHCARE environment

magnetic field IEC 61000-4-8			
Conducted RF IEC 61000-4-6	3 Vrms 0.15 MHz to 80MHz 6 Vrms in ISM bands between 0.15 MHz and 80MHz	3 Vrms 0.15 MHz to 80MHz 6 Vrms in ISM bands between 0.15 MHz and 80MHz	HOME HEALTHCARE environment
Radiated RF IEC 61000-4-3	3 Vrms 80 MHz to 2.7GHz 80% AM at 1KHz	3 Vrms 80 MHz to 2.7GHz 80% AM at 1KHz	HOME HEALTHCARE environment
Proximity magnetic fields IEC 61000-4-39	30 kHz / CW / 8A/m 134.2 kHz / Pulse modulation 2.1KHz / 65A/m 13.56MHz /Pulse modulation 50 kHz / 7.5A/m	30 kHz / CW / 8A/m 134.2 kHz / Pulse modulation 2.1KHz / 65A/m 13.56MHz / Pulse modulation 50 kHz /7.5A/m	HOME HEALTHCARE environment

NOTE

1. UT is the a.c. mains voltage prior to application of the test level; 25 / 30 and 250 / 300 cycle means 25 / 250 for 50 Hz system and 30 / 300 for 60Hz system.
2. The ISM (industrial, scientific and medical) bands between 0,15 MHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The amateur radio bands between 0,15 MHz and 80 MHz are 1,8 MHz to 2,0 MHz, 3,5 MHz to 4,0 MHz, 5,3 MHz to 5,4 MHz, 7 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2 MHz, 18,07 MHz to 18,17 MHz, 21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz and 50,0 MHz to 54,0 MHz.

3. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radio, AM and FM radio broadcast, and TV broadcast cannot, theoretically, be predicted with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, consider conducting an electromagnetic site survey. If the measured field strength in the location the system is used exceeds the applicable RF compliance level listed in this table, observe the system to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the system.
4. At 80 MHz and 800 MHz, the higher frequency range applies.
5. These guidelines may not apply in all situations. Electromagnetic propagation is affected by the reflection from structures, objects, and people.
6. Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
7. This test is applicable only to ME EQUIPMENT and ME SYSTEM intended for use in the HOME HEALTHCARE ENVIRONMENT.
8. The carrier shall be modulated using a 50% duty cycle square wave signal.
9. r.m.s., before modulation is applied.

Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

Test frequency (MHz)	Band a) (MHz)	Service a)	Modulation b)	Maximum power (W)	Distance (m)	IMMU-NITY TEST LEVEL (V/m)
385	380-390	TETRA 400	Pulse modula-tion b) 18Hz	1.8	0.3	27
450	430-470	GMRS 460, FRS 460	FM c) ±5 kHz deviation 1 kHz sine	2	0.3	28
710	704-787	LTE Band 13,17	Pulse modula-tion b) 217Hz	0.2	0.3	9
745						
780						
810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modula-tion b) 18Hz	2	0.3	28
870						
93						
1720	1700-1 900		Pulse modula-tion b) 217Hz	2	0.3	28
1845						
1970						

		GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS				
2450	2400 -2 570	Blue- tooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modula- tion b) 217Hz	0.2	0.3	28
5240	5100- 5 800	WLAN 802.1 1a/n	Pulse modula- tion b) 217Hz	0.2	0.3	9
5500						
5785						

NOTE: If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the
transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

a) For some services, only the uplink frequencies are included.
b) The carrier shall be modulated using a 50% pulse duty cycle square wave signal.
c) As an alternative to FM modulation, 50% pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

Hong Qiangxing(Shen Zhen) electronics Limited
Address: 2F,Yongcheng Blvd,Xicheng Industrial area,Xixiang Street,Bao'an District,Shenzhen City, Guangdong Province, China ,518126

WARRANTY POLICY

Your RENPHO product purchase is covered by a one-year limited manufacturer warranty from the date of delivery.

For warranty terms and conditions, please visit:
https://renpho.com/pages/warranty-terms-and-conditions

Note: Product registration is not required for the warranty. If you choose not to register your product, it will not diminish the product warranty.

CUSTOMER SERVICE

Please feel free to contact us if you have any questions or concerns.
RENPHO Customer Service Team guarantees a quick response and hassle-free solutions to any issue you may have within business hours.

Tel: **+1(844) 417 0149 (US&CA)**
Monday-Friday 9:00AM-4:30PM

Email: **support@renpho.com (US&CA)**

*For defective products or the return of items, please contact us with your order number within the specified warranty period. DO NOT dispose of any product parts as they may be required for inspection/repair.

FCC Regulatory Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 radio frequency 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.

ISED Regulatory Compliance

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1: This device may not cause interference.

2: This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RENPHO

Made in China

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