NeuroTrac™ PELVITONE

DUAL CHANNEL STIM UNIT

Operators Manual

Visit our website: www.veritymedical.co.uk
for detailed application protocols

EN

VERITY MEDICAL LTD

Warnings

* This unit must be used with the guidance of a Physiotherapist or Doctor.
* Type BF equipment, Continuous Operation
* Do not insert lead wires into a mains power supply.
* Do not immerse unit into water or any other substance.
* Do not use the NeuroTrac™ PelviTone unit in the presence of a flammable anaesthetic gas mixture and air or with Oxygen or Nitrous Oxide.
* If using rechargeable 9 Volt PP3 Nickel Metal Hydride batteries, be sure to use a CE approved battery charger. Never connect the NeuroTrac™ PelviTone directly to a battery charger or to any other mains powered equipment.
  We advise not to use Ni-Cad rechargeable batteries.
* Patient Electrodes are for ***single patient use only.***
* Keep out of reach of children.
* Do not use this stimulator on your facial area unless you are under strict guidance from a qualified Clinician.
* Application of electrodes near the thorax may increase the risk of cardiac fibrillation.
* Operation in close proximity (e.g. 1m) to a shortwave or microwave therapy quipment may produce instability in the stimulator output.
* Simultaneous connection of a patient to a high frequency surgical equipment may result in burns at the site of the stimulator electrodes and possible damage to the stimulator.
* No modification of this equipment is allowed!

Symbols on the rear cabinet of NeuroTrac™ PelviTone explained:

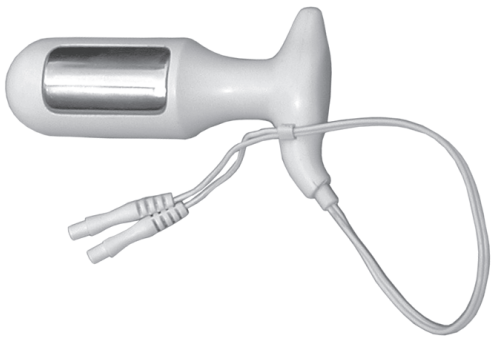
Caution (output)

Type BF Equipment

Follow instructions for use

Do not dispose in normal dustbin (see page 18 for the disposal instructions)

Contents



Please contact your local distributor about our Vaginal Probe

What is STIM?

Neuromuscular Stimulation has been used for many years to stimulate muscle and nerve fibres to treat a number of muscle and nerve related conditions. Over the last 30 years numerous clinical trials and papers have been written.

The NeuroTrac™ PelviTone is one of a new breed of modern Neuromuscular Stimulators which Verity Medical have developed with the Therapist and Patient in mind. Our principle aim is to design products that have high levels of functional use, are sensibly priced, compact and user friendly.

The NeuroTrac™ PelviTone is a dual channel device combining several treatment programmes into one unit. Neuromuscular Stimulation is increasingly understood by Therapists and Doctors. There is a better understanding of the mechanisms which exist between nerves and muscles that makes it possible to stimulate the neuromuscular system with precise electrical signals. The NeuroTrac™ PelviTone offers precision giving full control of Pulse Widths, Rates, Ramp up times, Work / Rest cycles as well as alternating or synchronous application if two channels are being applied.

Customer Care
We welcome constructive comments regarding our equipment particularly those that might help us to improve existing features, add new ones or develop new products for the future.

Contra Indications & Precautions

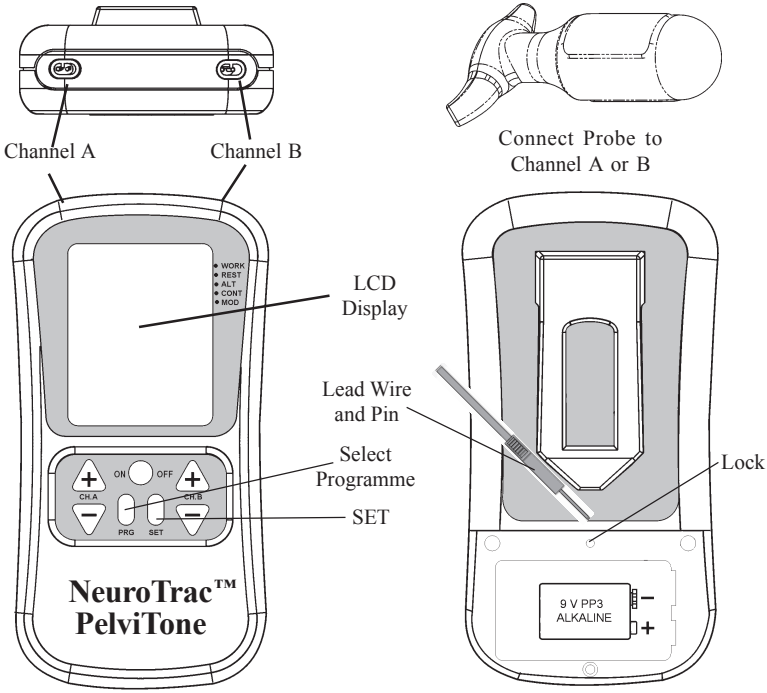
Before using this equipment you must first seek the advice of your Physiotherapist or Doctor

Read this operating manual before using the STIM unit

STIM should not be used:

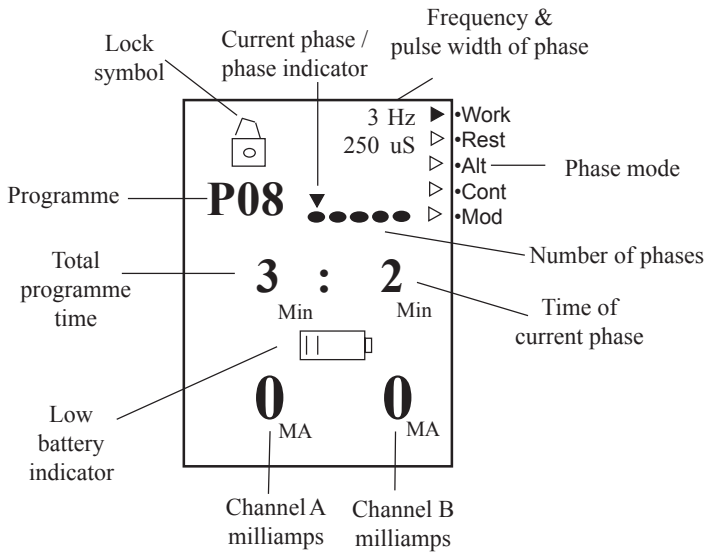
* By patients fitted with a demand style cardiac pacemakers unless so advised by their Doctor
* During pregnancy [unless medically advised]
* By patients with undiagnosed pain conditions
* By patients with undiagnosed skin, vaginal or rectal conditions
* With patients who have diminished mental capacity or physical competence who cannot handle the device properly
* On anaesthetised or desensitised skin
* When driving a vehicle or operating potentially dangerous equipment
* Do not place electrodes:
  - > Over carotid sinus nerves
  - > Over larynx or trachea
  - > Inside mouth
  - > Over the area of the heart unless so advised by your Doctor
  - > On your facial area unless under strict guidance from a qualified Clinician
* The patient should use the unit only as prescribed
* Do not immerse the unit in water or any other liquid
* Keep unit out of reach of children
* If in doubt about the use of the STIM unit, call your Doctor, Therapist, Clinician or your distributor for advice
* Only use CE approved skin electrodes
* Only use CE approved vaginal or rectal probes

Description of STIM Unit & Functions

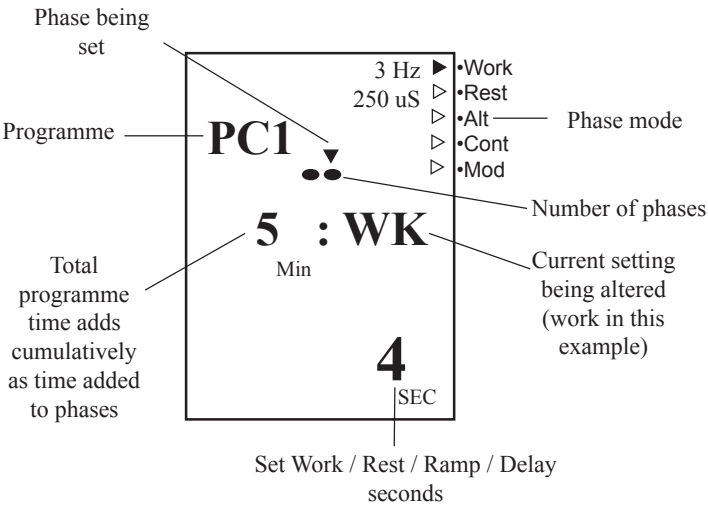


*** PRG button** Selects the desired set programme from P01 - P11 or customised programme PC1 - PC3.
Pauses (reducing the intensity (MA) to zero) and escapes from a running programme.

*** SET button** Reduces the intensity (MA) to zero and pauses the programme (if a programme is running) and moves the phase one step forward.
Displays the menu for programmes PC1 - PC3 and allows the parameters for Time, Work, Rest, Ramp up time, CH.A / CH.B Synchronous or Alternating and delay to be set.



Example of preset programme



Example of custom programme

Quick Start Instructions

1. Insert a 9 volt PP3 Alkaline battery. Alternatively insert a rechargeable Nickel Metal Hydride battery {which has a much longer life than the Ni-Cad rechargeable batteries} into the battery compartment.
2. Insert lead wire/s in to Channel A and B, if you are using two channels.
3. Switch on the unit by pressing the on/off button on the front of the unit.
4. Press the PRG button to select one of the pre-set programmes P01 - P11 outlined in the tables on page 11 to 16 or PC1 - PC3 for the customised programmes (see page 9 for setting customised programmes).
5. You can press the set button to change to the next phase of the current programme if required.
6. To start the programme, press channel A + and / or B + if you are using both channels, then increase the mA intensity to the desired level.
7. To stop the programme press the on/off button which will turn the unit off or alternatively press the PRG button twice to return to the home screen.

Low Battery Indicator
When the battery power is low, the low battery indicator will appear on the screen (shown in the diagram on page 7). When the battery indicator shows one bar, replace the battery.

Electrode Disconnection Indicator
When an electrode becomes disconnected or when an electrode no longer conducts the electrical current or if the lead wires are faulty, the milliamp level will return to zero and the effected channel will flash on and off.

Setting up the Customised Programmes PC1, PC2 or PC3

First, if a programme is running, press the PRG button twice to return to the home screen.

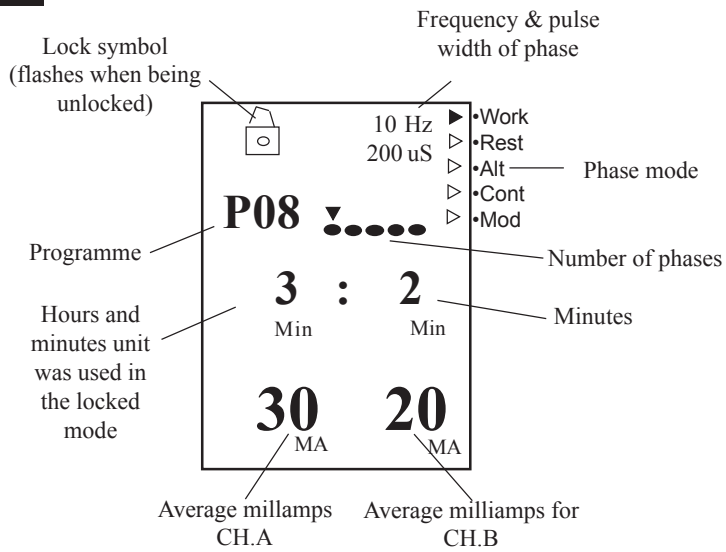
Refer to the example of custom programme diagram on page 7.

1. Press the PRG button until PC1, PC2 or PC3 is selected.
2. Press and hold the SET button for three seconds, the phase indicator arrow and Hz symbol will flash on and off.
3. Press CH.B +/- to set the fequency between 2 Hz and 100 Hz.
4. Press CH.A +, the µS symbol will flash, press CH.B +/- to set the pulse duration between 50 µS and 450 µS.
5. Press CH.A +, the MIN symbol will flash, press CH.B +/- to set the length of the phase time between 1 and 99 minutes.
   Set the time to zero to end the programme on this phase.
6. Press CH.A +, the WORK / REST or the CONT symbols will flash, Press the CH.B +/- to select WORK / REST or CONT (continuous).
   Note: if continuous is selected, the menu will loop back to step 2.
7. Press CH.A +, WK will appear and flash, press CH.B +/- to set the work seconds between 2 and 99 seconds.
8. Press CH.A +, RT will appear and flash, press CH.B +/- to set the rest seconds between 2 and 99 seconds.
9. Press CH.A +, RP will appear and flash, press CH.B +/- to set the ramp seconds between 0.1 and 9.9 seconds.
10. Press CH.A +, AL or SY will appear and flash, press CH.B +/- to select alternating or synchronous current.
    Note: if alternating is selected, the menu will loop back to step 2.
11. Press CH.A +, DY will appear and flash, press CH.B +/- to set the delay of channel B starting between 0 and 4 seconds after channel A.
12. The menu will now loop back to step 2 and the Hz symbol will flash.
13. To set the next phase, press the set button. The phase symbol will flash over the next phase, continue with step 2 to set this phase.
14. When finished setting the phases, press the PRG button to save the settings and return to the home screen.
    The programme will be saved permanently.

Setting the phase time of phase 2,3,4 or 5 to zero will cause the programme to end at that phase.

Following procedures 1 to 12 can reprogramme a customised programme.
If for example there are 5 pre-set phases in one overall programme and only 4 phases are now required, input 0 (zero) into the phase time that is no longer required and press the PRG key to store the new information.

Lock Button



A "concealed" lock button is included in the NeuroTrac™ PelviTone which allows the clinician to accurately monitor "Home Compliance" of the patent between appointments. It records the time in use and the average intensity (MA). It also locks the customised programmes, stopping them from being altered.

To Lock the Unit

1. Select the pre-set or customised programme required. In the case of a customised programme, make sure that the pulse width, frequency, time etc. are set-up correctly.
2. Remove the battery cover and, using a thin rod gently press on the lock button as shown in the diagram on page 6 until you hear a double beep. The unit is now “locked” and cannot be altered until “unlocked”. Note: The lock symbol will appear on the LCD when the unit is “locked”.

To Unlock the Unit

Remove the battery cover and press the concealed switch with a thin rod until a single beep is heard. Now the LCD will display the average mA used on each channel and the total hours and minutes the unit has been in use as shown in the diagram. To return to normal "unlocked" operation, simply press SET.

Continence Treatment Programmes

Programme : P01	**Pelvic Floor Pain**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		Cont				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	20 min					

Programme: P02	**Urge Incontinence**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		W/R				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	20 min					

Programme: P03	**Stress Incontinence 1**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		W/R				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	20 min					

Programme: P04	**Stress Incontinence 2**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		W/R				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	20 min					

Programme: P05	**Frequency / Urge 1**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		W/R				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	20 min					

Programme: P06	**Frequency / Urge 2**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	15				
Mode		Cont				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	15 min					

Programme: P07	**Frequency / Urge 3**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		Cont				
Frequency work						
Pulse duration						
Ramp up time	secs					
Ramp down time	secs					
Work time	secs					
Rest time	secs					
Alternating						
Synchronous		*				
Overall time	20 min					
This programme works continuously with no rest period. It is used in some countries where they have found continuous stimulation can work effectively.						

Programme: P08	**Lack of Sensitivity**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	3	10	5	4	3
Mode		W/R	W/R	W/R	W/R	W/R
Frequency work						
Frequency rest						
Pulse duration						
Modulation time						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*	*	*	*	*
Overall time	25 min					

Programme: P09	**Pelvic Floor Work Out**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	4	15	8	8	10
Mode		W/R	W/R	W/R	W/R	W/R
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*	*	*	*	*
Overall time	45 min					

Programme: P10	**Building up Endurance**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		W/R				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	20 min					

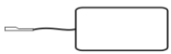
Programme: P11	**Relaxing the Pelvic Muscle**	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Phase time	min	20				
Mode		W/R				
Frequency work						
Pulse duration						
Ramp up time						
Ramp down time						
Work time						
Rest time						
Alternating						
Synchronous		*				
Overall time	20 min					
This programme is to help relax the pelvic muscle. It may be used where the EMG readings are high, in the region of 8 microvolts or more or when the pelvic muscle has been working hard and some fatigue may have resulted. The very low 2 Hz frequency will help to relax the muscle.						

W/R = INTERMITTENT WORK/REST
CONT = CONTINUOUS

Electrodes Types and Tips

* Self-Adhesive Hypoallergenic electrodes have a typical life span (if looked after) of 4/6 weeks. We recommend cleaning the skin before placing the electrodes. After use place the electrodes back onto the plastic film and in the zip-tag plastic pouch. Store in a cool environment.

Skin Electrode Types Available:

SHAPE	CODE	DESCRIPTION
	VS.4040	40 x 40 mm, square [** max 53mA]
	VS.5050	50 x 50 mm, square (recommended for general use)
	VS.9040	90 x 40 mm, rectangular
	VS.9050	90 x 50 mm, rectangular
	VS.10050	100 x 50 mm, rectangular
	VS.30	30 mm diameter, round [** max 46mA]
	VS.50	50 mm diameter, round
** IMPORTANT : Don't use VS 4040 at more than 53mA and VS3030 at more than 46 mA.		

A Few Good Tips [Self- Adhesive Electrodes]

* If you find the electrodes will not stick due to oily skin, cleanse the skin with soap and water, then rinse and dry the area around the electrode site. If this does not work, try cleansing the skin with a swab impregnated with alcohol.
* Clip away hairy skin using scissors; don't use a razor to remove the hairs!
* The electrodes conductive material is water- based. If it becomes saturated (e.g. from perspiration), it will lose its adhesive qualities. After use leave the electrodes face up overnight to dry out (replace on plastic film in the morning).
  At some point the electrodes will become dry. Moisten the adhesive surface with a few drops of water, and apply onto the plastic film overnight. This procedure will increase the electrode life by few more days.

Care, Maintenance, Accessories and Disposal

WARNING! Only medically approved accessories should be used!

CONTROL UNIT:

* Wipe the surface once a week with a damp cloth or antiseptic wipe
* Do not use cleaning sprays or alcohol based cleaning solutions
* Control unit disposal: please return to Verity Medical LTD or to the appointed distributor

ACCESSORIES

Battery:

* To change the battery, open the battery door on the rear of the control unit by pressing down on the raised rib pattern just below the belt clip. Lift the battery out of the compartment. This is very easy and can be done by the user.
* Check periodically for any discharge from the battery
* Remove battery completely from unit if not in use for any extended period of time (typically one week)
* Low battery indicator of 6.9 volts shown on LCD display. When flashing change battery for a new one
* Preferably use a PP3 alkaline battery
* Battery disposal: please return to the supplier from whom you've purchased it.

Lead Wires:

* The lead wires should be handled carefully and never stretched, as this can cause the stimulation to function below normal standards or not at all
* Examine lead wires before each treatment for loose connections or damage
* Avoid stretching and twisting the lead wires
* Store the lead wires carefully after each use
* Lead wires Disposal: please return to the supplier from whom you've purchased them.

Self-Adhesive Electrodes:

* Check the short connectors have not become separated from the electrodes
* Replace electrodes onto plastic film after use. If they drop onto the floor debris will adhere to conductive gel rendering the electrodes ineffective

Electrode life can be considerably reduced by:

* The type and condition of the skin
* Deep seated moisturisers or make-up

Vaginal / Rectal Probes:

* Check the connectors have not become separated from the probe
* We advice you to use Verity Medical's VeriProbe.
* Vaginal Probe Disposal: please return it to the supplier from whom you've purchased it.

Caution: Static electricity may damage this product

NOTE: Only Verity Medical Ltd or appointed distributors / importers are approved to undertake servicing.

Applications

* Promotes continence
* Increases muscle strength
* Maintains or improves range of movement
* Increases and improves the blood supply to the muscle in cases of intermittent caudication
* Reduces pain

Specifications

STIM

1. Dual channel: individually isolated circuits.
2. Amplitude: 0-90 mA into 500 Ohm load; actual mA will tend to be less than indicated due to electrode impedance: at 1000 Ohms load (Electrodes in poor condition) the maximum will be limited to 86 mA, at 1500 Ohms load the maximum will be limited to 65 mA.
3. Type: Constant current, maximum output voltage 180 Volts +10 / -30 Volts
4. Waveform: Symmetrical, rectangular bi-phasic with zero DC current.
5. Selectable pulse width: 50 µS – 300 µS [2% accuracy].
6. Pulse Rate selection: in the continuous mode 2 – 100 Hz [2% accuracy].
7. Time duration of the treatment selectable: 1 minute to 90 minutes.
8. Low Battery Indicator: If the battery goes below 6.9 volts +/- 0.2 volts the battery symbol will flash on/off once every second.
9. Open Electrode Detect: If an open circuit is detected at the output of channel A or B the output current will be reset at zero.
10. Ramp up time 0.1 - 9.9 seconds.
11. If the battery voltage is below 6.6 (+/- 0.2) volts the unit will not turn on.

Physical dimensions: 134 x 69 x 29.7 mm.

Weight: 0.18 KG with battery.

Environmental Conditions for use:
+10 to +30 degrees Centigrade. 0-90% Humidity.

Environmental conditions for storage & transport:
-10 to +50 degrees Centigrade. 0-90% Humidity.

Information regarding Electromagnetic compatibility and interference (EMC)

NeuroTrac™ products are designed to produce very low levels of radio frequency (RF) emissions (interference), to be immune from effects of interference produced by other equipment operating in their vicinity and damage due to electrostatic discharge all when operating in a typical domestic and or clinical environment. They are certified to meet the international EMC standard EN60601-1-2. For more information please refer to the tables 201, 202, 204 and 206.

Table 201: Guidance and manufacturer's declaration – electromagnetic emissions

The NeuroTrac™ product is intended for use in the electromagnetic environment specified below. The customer or the user of the NeuroTrac™ product should ensure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The NeuroTrac™ product uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The NeuroTrac™ product 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 IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Table 202: Guidance and manufacturers declaration – electromagnetic immunity

The NeuroTrac™ product is intended for use in the electromagnetic environment specified below. The customer or the user of the NeuroTrac™ product should ensure that it is used in such an environment, and that precautions regarding that environment are heeded.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment– guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±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 %.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at characteristic levels of a typical location in a typical commercial or hospital environment.

Table 204: Guidance and manufacturer's declaration – electromagnetic immunity

The NeuroTrac™ productis intended for use in the electromagnetic environment specified below. The customer or the user of the NeuroTrac™ product should ensure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2,5 GHz	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2,5 GHz	Portable and mobile RF communications equipment should be used no closer to any part of the NeuroTracTM product, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. **Recommended separation distance** d = 1.2 √P (150 kHz to 80 MHz), d = 1.2 √P (80 MHz to 800 MHz), d = 2.3 √P (800 MHz to 2.5GHz), where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, (a) should be less than the compliance level in each frequency range; (b) interference may occur in the vicinity of equipment marked with the following symbol: 

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

(a) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which NeuroTrac ™ product is used exceeds the applicable RF compliance level above, the NeuroTrac ™ product should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the NeuroTrac ™ product.
(b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Table 206: Recommended separation distances between portable and mobile RF communications equipment and NeuroTrac™ product

The NeuroTrac™ product is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the NeuroTrac™ product can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the NeuroTrac ™ product as recommended below, according to the maximum output power of the communications equipment.

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
	$d = 1.2\sqrt{P}$	$d = 1.2\sqrt{P}$	$d = 2.3\sqrt{P}$
0,01	0.12	0.12	0.23
0,1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters [m] can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.
NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Warranty

Verity Medical Ltd., provides a warranty to the original purchaser that this product will be free from defects in the material, components and workmanship for a period of 2 years from the date of purchase by the Distributor [invoice date from Verity Medical to the appointed Distributor].
If the distributor - from whom the product was purchased by the user - is satisfied that the product is defective, the user may return the unit directly to this Distributor who will forward it to Verity Medical Ltd. All such returns from the Distributor to Verity Medical must be authorised by Verity Medical Ltd., in advance. The liability of Verity Medical Ltd., under this limited product warranty does not extend to any misuse or abuse such as dropping or immersing the unit in water or other liquid substance or tampering with the unit or normal wear and tear. Any evidence of tampering will nullify this warranty.

Customer Service

Any queries should be addressed to:

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United Kingdom

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+44 (0) 1794 367 451

Fax: +44 (0) 1794 367 890

E-mail: sales@veritymedical.co.uk
Web: www.veritymedical.co.uk

This product is manufactured by Verity Medical Ltd.,
in compliance with the European Union Medical Device Directive
MDD93/42/EEC under the supervision of SGS,
Notified Body number 0120.

CE 0120

Verity Medical Ltd., is certified by SGS to the following
Quality Standards:

ISO 9001:2008, ISO13485:2003.

Clinical References

Neuromuscular Stimulation:

Knight S, Laycock J, Naylor D. [1998] Evaluation of neuromuscular electrical stimulation in the treatment of genuine stress incontinence; Physiotherapy 84, No. 2, 61 - 71.

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Lindstrom S, Fall M, Carlson C A, Erlandson BE. [1983] The neurophysiological basis of bladder inhibition in response to intravaginal electrical stimulation.

Fall M, Ahlstrom K., Carlsson C, Ek A, Erlandson BE, Frankenberg AS, Mattiasson A. [1986] Contelle: Pelvic floor stimulator for female stress-urge incontinence. A multicentre study; Urology 27, 282-287.

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