

MODEL AWQ-105 PRO

ACUPUNCTURE STIMULATOR / T.E.N.S.

(5 channels with digital displays)



INSTRUCTION MANUAL

AWQ-105 PRO ACUPUNCTURE STIMULATOR / T.E.N.S.

It is a professional, brand new unit with 5 channels. It comes up with a modern design and inherits the features of AWQ-series acupunctoscope. This professional unit provides multiple functions and features, which are essential in daily acupuncture practice.

Before using this device, please read the instruction manual carefully as well as read all “Safety Precautions” and “Warnings” carefully to ensure the device is operated properly.

Table of Contents

Contents of the “AWQ-105 PRO” Package	3
Technical Specifications	4
Wave Form Pictures	6
Introduction	7
Indication and Its Intended Purpose	7
Safety Precautions - Warnings	8
Features & Advantages:	9
Battery Information.....	11
Indications and Controls	12
Operation of Controls	14
Precaution before the Treatment	16
Instructions For Use.....	16
ELECTRIC STIMULATION SETTINGS.....	18
Acupuncture therapy (Needles or Electrodes).....	20
Therapy with Electric Stimulation probe & Settings	21
Precaution After the Treatment.....	22
Disposal of the Device	22
Maintenance.....	23
Trouble Shooting.....	24
Storage and Transportation	25
Environmental condition.....	25
Cleaning	25
Limited Warranty.....	26

Contents of the “AWQ-105 PRO” Package

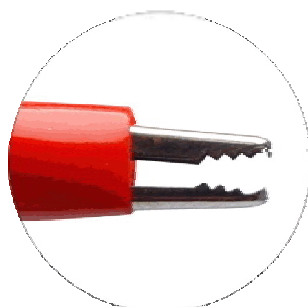
“AWQ-105 PRO” ACUPUNCTURE STIMULATOR / T.E.N.S.	1 pc.
Search/stimulation probe with handgrip electrode	1 pc.
Connecting wire (4 assorted colors ● ● ● ●)	4 pcs.
Pin lead to duck beak clip adaptor	4 pairs.
DC 1.5V C size battery (not included in package)	6 pcs.
Instruction manual	1 pc.

The device and its accessories are packed in a sturdy paper carton box.



Optional accessories...

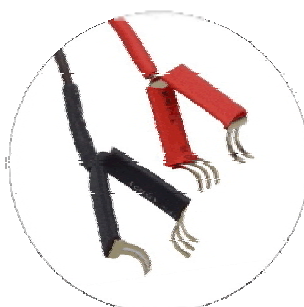
Different types of connecting clips are available for selection:



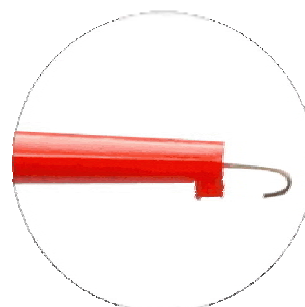
Crocodile Clip



Duck Beak Clip



Grasp⁺ Clip



Micro-Hook Clip

Technical Specifications

Output channel : 5 Channels (including one channel for “APD/STIM”)

	Normal Output channels	APD/STIM output channel
Output Voltage	Hi : 0 - 22.5V Low : 0 - 10V	0 - 40 V
Output Current	Hi : 0 - 45 mA Low : 0 - 20 mA	0 - 80 mA
Pulse width	X1 : 50 - 500 μ S adj. X5 : 10 - 100 μ S adj.	260 μ S (fixed)
Pulse Rate	X1 : 1 - 100 Hz. Adj. X5 : 5 - 500 Hz. Adj.	10 Hz (fixed)


APD & Stim mode : LED lights up in “Stim” mode, and is flashing when “Stim button” is pressed.

Waveform : Asymmetric Square Wave with a negative spike

Pulse width : 50 -500 μ S adjustable, when in X1 position
10 -100 μ S adjustable, when in X5 position

Pulse Rate : 1-100 Hz, adjustable, when in X1 position
5-500 Hz, adjustable, when in X5 position

Mode : Constant - pulse rate and width are adjustable from 1-100 Hz, & 50-500 μ S respectively at X1 position, and from 5-500 Hz, & 10-100 μ S respectively at X5 position,
Modulation - Preset Pulse Rate and width ramp up and down for 6 seconds per one cycle; both pulse rate & width are adjustable.
Burst - Preset Pulse Rate and width <ON> 3 seconds; <OFF> 3 seconds; both pulse rate & width are adjustable.

Timer	:	Cont ; 15 min; 30 min
Display	:	3 LCD, each measure 15x30 mm
Low battery lamp	:	The LED lights when voltage drops to 7V
Power supply	:	C type (LR 14) batteries x 6 pcs Or DC 9V 500mA adaptor (optional) (Use correct adaptor comply with standard and spec.)
DC Power Jack	:	6.3mm x 2mm centre pin.
Output socket	:	1.5mm diameter socket.
Error LED	:	Red LED lights up & music sounds when turn ON the unit without reset all previous channels setting to zero output. The unit resumes work after reset all channels to zero position.
Weight	:	726g (main unit only)
Size	:	255 x 175 x 75 (mm) (main unit only)
Accessories	:	Search/stimulation probe with handgrip electrode Connecting wire (4 assorted colors ) 4 pcs. Pin lead to duck beak clip adaptor 4 pairs. Instruction manual 1 pc.

Wave Form Pictures

FC

A. CONTINUOUS



Pulse Rate : FC = Continuous Frequency

Pulse Width range at different Pulse Rate settings

X 1

x5

Pulse Rate	1-100 Hz	5-500 Hz
Pulse Width	50-500 μ S	10-100 μ S

B. MODULATE



Preset pulse rate and width ramp up and down for 6 seconds per one cycle.

Pulse Width range at different Pulse Rate settings:

X 1

x5

Pulse Rate	1-100 Hz	5-500 Hz
Pulse Width	50-500 μ S	10-100 μ S

C. BURST



Preset pulse rate and width (ON) 3 seconds, (OFF) 3 seconds.

Pulse Width range at different Pulse Rate settings:

X 1

x5

Pulse Rate	1-100 Hz	5-500 Hz
Pulse Width	50-500 μ S	10-100 μ S

Introduction

AWQ-105 PRO ACUPUNCTURE STIMULATOR / T.E.N.S. is a professional, brand new unit with 5 channels. It comes up with a modern design and inherits the features of AWQ-series acupunctoscope. This professional unit provides multiple functions and features, built in with 5 outputs channels, and with separated groups for adjusting frequency and pulse width. The acupuncture point detection is with sensitivity control and the Search /Stim Probe includes a Search-to-treat push button selector, which when depressed allows immediate stimulation on a point right after its location is found.

2 large LCD (each measures 15X30 mm) for displaying precise frequency of each group, and one LCD (15x30 mm) for showing sensitivity during acup-point detection and the frequency during direct stimulation. It provides 3 different Mode; Cont (continuous), Modulate and Burst, and a High/Low selection of output.

Lastly, a timer is equipped for selection of different period of treatment session, and a Buzzer ON/OFF control, for shutting down the sound during point detection.

Indication and Its Intended Purpose

The AWQ-105 PRO ACUPUNCTURE STIMULATOR / T.E.N.S. is intended to use in applying electronic stimulation to acupuncture points. The device utilizes a low-intensity, low frequency pulse multimode generator and either electrodes or alligator clips to deliver electronic stimuli to the patient. When using the device with electrodes, the electrodes may be placed on the skin at the treatment location. When using the device with alligator clips, the alligator clips should be connected to acupuncture needles that penetrate the skin at the acupuncture points.

Safety Precautions - Warnings

Heart Patient - Adequate precautionary measures should be considered prior to stimulating patients suspected of having heart disease. Current clinical data cannot sufficiently rule out the possibility of adverse results for such patients.

Carotid sinus - Do not stimulate over the carotid sinus nerves, especially in patients with known sinus reflex sensitivity.

Neck Stimulation - Severe spasm of the laryngeal and pharyngeal muscles may occur when the electrodes are placed across the neck or the mouth. This may be strong enough to close off the airway.

Cardiac Pacemakers - Stimulation will inhibit the output of some demand cardiac pacemakers and therefore, it is not recommended for patients with this type of pacemaker.

Pregnancy - The safety of electrical nerve stimulation for use during pregnancy or delivery has not been established.

Other - Electrical nerve stimulation, as presently understood, is a symptomatic treatment and as such may suppress the progress of pain which would otherwise serve as a protective influence on the outcome of a disease process. The potential for physical and/or psychological dependence upon nerve stimulation as a means of relieving pain has not yet been determined.

It has been noted that some patients find the sensation of electrical stimulation extremely unpleasant and should probably be excluded from further use of the stimulator.

Do not apply electrical nerve stimulation when pain syndromes are undiagnosed until etiology is established.

Do not apply electrical nerve stimulation current transcranially.

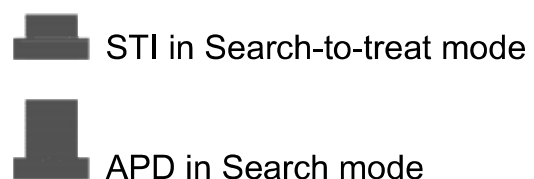
Electrical nerve stimulation devices should be used only under the continued supervision of a physician. Electronic monitoring equipment (such as EKG monitors and EKG alarms) may not operate properly when electrical nerve stimulation is in use.

Avoid use in post-operative recovery rooms when a heart monitor is on.

Keep out of reach of children.

Features & Advantages:

- ◆ 5 outputs (including an output exclusively for the use of search/stimulation probe for point detection and immediate stimulation.)
 - ◆ Frequency and Pulse Width are adjustable & separated into two groups, Group 1 for Ch 1 & 2 , and Group 2 for Ch 3 & 4. (Instead of one Frequency and one Pulse Width for all channels)
 - ◆ 2 large LCD (each measures 15X30 mm) for displaying precise frequency of each group, and one LCD (15x30 mm) for showing sensitivity during acup-point detection. This LCD also displays the frequency (fixed at 10 Hz) during direct stimulation by the search/stimulation probe.
 - ◆ 3 different Mode; Cont (continuous), Modulate and Burst.
 - ◆ High & Low output levels for selection.
 - ◆ X1 and X5 (multiplier) of pulse rate and width for adjustments.
 - ◆ Timer selection for different period of treatment session. Continuous, 15 minutes and 30 minutes.
 - ◆ Buzzer ON/OFF, for sound control during point detection.
 - ◆ Music for timer alert and error warning.
- i) The Search / Stim Probe includes a Search-to-treat push button selector, which when depressed allows immediate stimulation on a point right after its location is found.



Improved design of accessories, CE-marked plug connecting wires (4 assorted colors) with pin leads so that each can be fitted to alligator clip adaptors or different types of needle connectors such as Grasping clips, duck beak clips, micro-hook clips or crocodile clips. A large range of optional accessories is available.

ii) Optional accessories...



Crocodile Clip



Duck Beak Clip

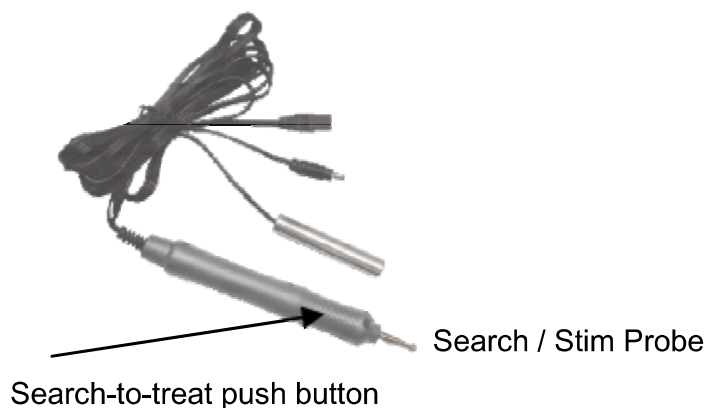


Grasp Clip



Micro-Hook Clip

iii) Alligator clip wires which provide very sturdy and convenient connection to needles, search-to-treat probe for point detection & electric stimulation, and optional accessories which expand its function to a powerful T.E.N.S device as well.



Battery Information

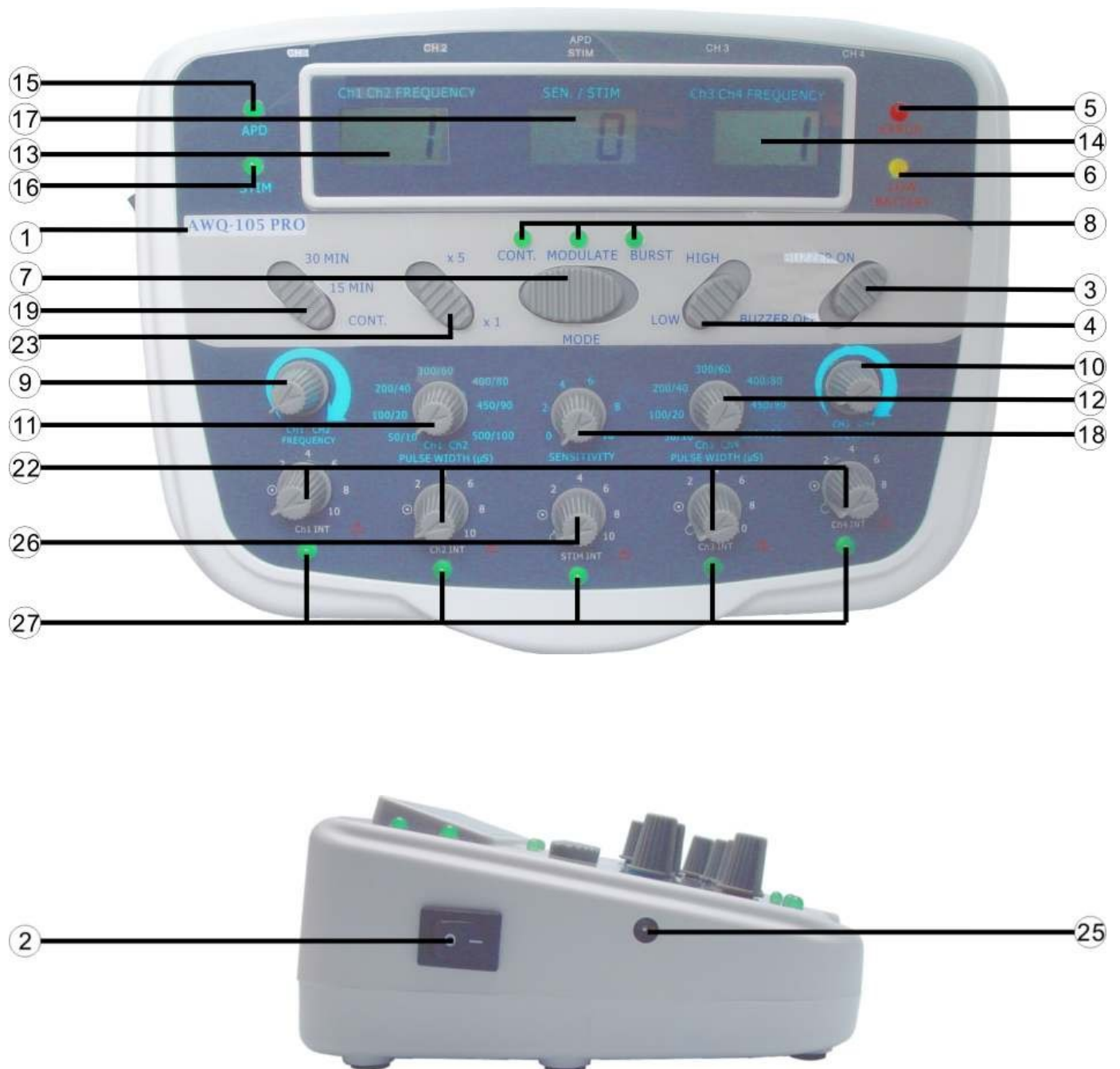
Your stimulator requires 6 pcs. 1.5V battery (not included), use “C type (LR14)” or its equivalent type of battery. The batteries can be replaced by opening the battery door on the bottom side of the device. Slide the battery door off, remove the old batteries and insert the new batteries. Insert the batteries correctly into the battery compartment by making sure the direction of the positive and negative poles of each battery match the illustrations inside the battery compartment. Be sure that each battery used is a fresh new battery. Once the batteries have been properly seated inside the battery compartment, the battery door should be closed. Battery life expectancy is between 4 to 20 treatment hours depending on current settings and treatment length. Many short treatments yield longer battery life than fewer longer treatments.

- *To avoid battery leakage, remove the battery if the device will not be used for an extended period of time.*
- *A specially designed battery compartment is used in this device to ensure easy and proper insertion as well as securely hold the batteries in place.*



Special design of battery compartment for easy and proper insertion of batteries.

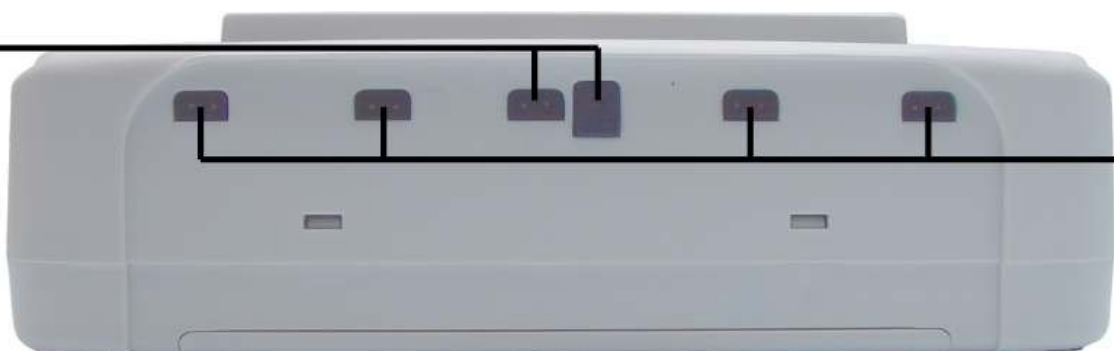
Indications and Controls





24

20



21

Operation of Controls

No.	Descriptions	Functions
1	Model Name	AWQ-105 PRO
2	Power ON/OFF switch	Turns the power ON or OFF.
3	BUZZER ON/OFF switch	Turns the buzzer sound during point detection ON or OFF.
4	HI / LOW switch	For selection of HI range or LOW range output intensity.
5	ERROR LED	When turn ON the unit, if all channels setting do not reset to OFF output, Red LED lights up & music sounds. The unit resumes work after reset all channels to OFF position.
6	LOW BATTERY LED	When the battery voltage drops to under 7 volts, this LED will illuminate indicating that new batteries need to be installed.
7	Mode selection switch	To select different modes of waveform, CONT. (continuous), MODULATE (dense-disperse) and BURST (Intermittent).
8	Mode indication LED	The selected waveform mode LED will illuminate indicating which waveform is currently active.
9	Frequency Adjustable knob for Ch1 & Ch2	Turn clockwise (increase) or anticlockwise (decrease) to adjust the frequency (pulse rate) of Ch1 & Ch2.
10	Frequency Adjustable knob for Ch3 & Ch4	Turn clockwise (increase) or anticlockwise (decrease) to adjust the frequency (pulse rate) of Ch3 & Ch4.
11	Pulse Width Adjustable knob for Ch1 & Ch2	Turn clockwise (increase) or anticlockwise (decrease) to adjust the Pulse Width of Ch1 & Ch2.
12	Pulse Width Adjustable knob for Ch3 & Ch4	Turn clockwise (increase) or anticlockwise (decrease) to adjust the Pulse Width of Ch3 & Ch4.
13	Ch1 Ch2 Frequency LCD	Displays the frequency selected for Ch1 & Ch2
14	Ch3 Ch4 Frequency LCD	Displays the frequency selected for Ch3 & Ch4
15	APD LED	It illuminates during point detection, and flash continuously which indicates the probe reaches or closer to the acupuncture point.
16	STIM LED	It illuminates when Search-to-treat push button is depressed for immediate stimulation.
17	SEN./STIM LCD	This LCD displays the detection accuracy when using the point location feature of the device – the higher the number, the closer the probe is to the acupuncture point. It also shows the frequency of stimulation when the Search-to-treat push button is depressed for immediate stimulation on a point right after its location is found.

18	Sensitivity Knob	Fine-tune the sensitivity of the point location feature of the device. Adjust the sensitivity knob of the “Loc” to the appropriate position (it turns with increasing sensitivity) during location of acupuncture point.
19	Timer switch	Select the timer duration for 15, 30 minutes or continuously.
20	Search/Stimulation probe insertion jack (socket)	This jack is used for attaching the search/stim probe to the device.
21	Output jacks (socket)	For insertion of output connecting wires.
22	Output Intensity control knob	Rotating the knob clockwise will first turn on the output channel and then increase the current output. (or vise versa)
23	X1 X5 switch	X1 X5 multiplier switch - to select the frequency and pulse width of the output in normal range of frequency at 1 ~ 100 Hz , pulse width at 50-500 μ S, or multiplies 5, i.e. 5 ~ 500 Hz. (frequency), and 10-100 μ S (pulse width)
24	Battery compartment door	The battery compartment door can be removed to expose the battery compartment. The device uses 6 pcs. of 1.5 V “C” type (LR14)batteries.
25	DC 9V Input	This input can be used to plug in an external 9V 500mA input source.
26	Output Intensity control knob for search / stim probe	Output Intensity control knob is applied only at “APD & STIM mode”: when operating stimulation at “APD & STIM mode”, rotating the knob clockwise turns on the output channel and then increase the current output intensity (or vise versa) of the search / stim probe.
27	Output Intensity LED Lights	When turning clockwise output intensity knob at “ON” position, output intensity LED lights will illuminate.

Precaution before the Treatment

INSTALLATION

- Use the device in an area free from any exposure to water.
 - Avoid storing the device in an environment of high humidity and temperature, and free from dust or chemical contamination.
 - Place the device on a flat and stable surface free from any inclination and vibration.
 - Do not operate the device in an environment where flammable substances are present.
-
- Check to be sure the device is installed with new batteries, and check that all LCD displays on the device are working properly.
 - Connect all cables correctly.
 - Only use accessories that are supplied with the device.
 - Check that all output intensity knobs are turned OFF.
 - Never operate the device with wet hands to avoid an electric shock.
 - Avoid operating the device consecutively for more than 60 minutes in each treatment.

Instructions For Use

POINT DETECTION - BASIC PRINCIPLE, and DIRECT STIMULATION

On the body surface, the electric resistance of an acupuncture point is lower than its surrounding area. It can be readily located by means of an instrument which is sensitive to resistance changes. When the metal probe touches a low resistance point, the loudspeaker gives a sound signal and the digital display shows a numerical value. Its pitch rises and digital display number increases with the lowering of the electric resistance of the skin. The pitch will get higher and the numerical value will increase as the probe moves closer to the acupuncture point. With this instrument and method of detection, acupuncture points located usually produce a strong sensation and reaction to electric stimulation, and will achieve the best therapeutic results.

Ensure that all batteries are inserted correctly (see the battery information section). Turn on the device by pressing the POWER ON/OFF switch on the left side of the unit.

Insert the Search/stimulation probe with handgrip electrode into the APD/STIM socket.

Adjust the sensitivity by turning the sensitivity knob. When the air humidity is wet, turn the knob anti-clockwise to decrease sensitivity. If it is too dry, turn the knob clockwise to increase sensitivity.



Sensitivity knob

Touch the hand grounding pole with the probe tip, the buzzer will give a sharp sound signal, the digital display will show increasing numbers, and the “ADP” LED will flash continuously indicating that the point location capabilities of the device are working properly.

Let the patient grasp the hand pole in one hand. Search for the acupuncture point with the probe tip on the patient's skin in the appropriate anatomical location. When doing this, the probe should be held in a vertical position perpendicular to the surface of skin. The pressure and duration in touching the point with the probe should be kept constant. If too much pressure is applied to the skin, the electrical resistance measured by the device effectively becomes lower and the device will behave as though an acupuncture point was found. When the probe touches an acupuncture point the buzzer will buzz (the LED of the “ADP” will flash continuously at the same time), the digital display will show a higher number and a very light electric stimulus may be felt by the patient. Since an acupuncture point is very small, it should be located with patience and care.

If the electrical resistance of the general surface of the skin is low, or when the skin is wet or sweating, which would lower the skin resistance, the buzzer would give a sound signal on

the skin surface wherever the probe touches. When this happens, dry the skin with a towel, maneuver the probe with lighter pressure, and readjust the sensitivity setting to a lower level so that the point to be located can be discriminated from the surrounding areas of the skin. There is no definite standard for the adjusting the sensitivity of the device and how much pressure to apply to the skin surface, the appropriate sensitivity will be found through experience.

WARNING:

Never use the probe on open cuts or wounds!

If the located point is to be stimulated by the probe tip, make sure the probe tip is touching the located point, and press the search-to treat button on the probe (adjusting the intensity setting of STIM INT Channel will increase or decrease the stimulation intensity), direct stimulation with preset waveform, frequency and pulse width will be provided by the probe head.

BUZZER ON / OFF switch – the buzzer will emit sounds during point detection. The buzzer can be turned ON or OFF by switching it to OFF position.



ELECTRIC STIMULATION SETTINGS

This section of the instrument produces stimulating impulses, which act on acupuncture points or through electrodes for therapeutic purpose.

Operating instructions

Ensure that all batteries are inserted correctly (see the battery information section). Turn on the device by pressing the POWER ON/OFF switch on the left side of the unit.



Insert connecting wires to corresponding output jacks. Connect the wire to acupuncture needles with the clips.

Select the appropriate mode and adjust frequency (pulse rate) and pulse width as follows:

- i) MODE selection switch - the desired waveform mode; CONT. (continuous), MODULATE (dense-disperse) and BURST (Intermittent) may be selected by switching this switch. Each waveform mode has a corresponding LED that will illuminate when the waveform mode is selected.
- ii) The Frequency and Pulse Width of Ch1/2 and Ch3/4 can be adjusted separately.
To adjust the frequency and pulse width of Ch1 & Ch2 - Turn clockwise (increase) or anticlockwise (decrease) of the <Frequency Knob CH1 CH2> to adjust the frequency, and <Pulse Width knob Ch1 Ch2> to adjust the pulse width.
To adjust the frequency and pulse width of Ch3 & Ch4 - Turn clockwise (increase) or anticlockwise (decrease) of the <Frequency Knob CH3 CH4> to adjust the frequency, and <Pulse Width knob Ch3 Ch4> to adjust the pulse width.
- iii) Ch1 Ch2 Frequency LCD will display the frequency for Ch1 & Ch2 when selected.
- iv) Ch3 Ch4 Frequency LCD will display the frequency for Ch3 & Ch4 when selected.

A X1 X5 multiplier switch is provided for selecting the frequency and pulse width of the output in normal range of frequency at 1 ~ 100 Hz , pulse width at 50-500us, or multiplies 5, i.e. 5 ~ 500 Hz. (frequency), and 10-100 us (pulse width).

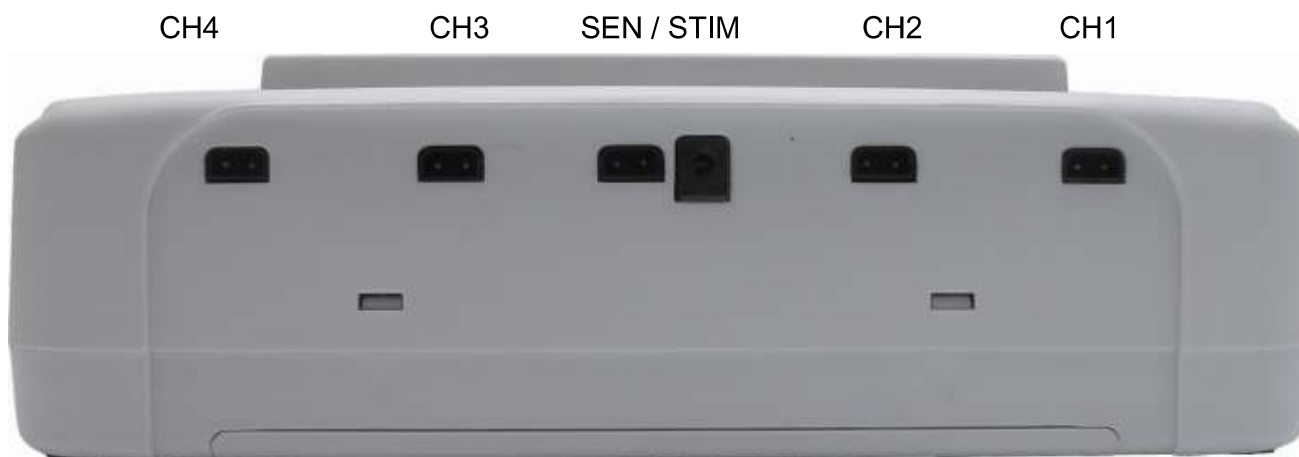
The channel output intensity for all channels is adjusted by rotating the knob of Ch1 ~ 4 INT respectively in clockwise direction, it will first turn on the output channel and then increase the current output (or vise versa).

Two ranges (High, Low) of output intensity are provided. If maximum intensity in Low range is not sufficient, switch it to High range for stronger intensity output.

Select the timer duration of treatment for 15, 30 minutes or continuously by switching the Timer switch to the selected position.

Acupuncture therapy (Needles or Electrodes)

- Turn all “intensity” knobs to OFF position and slide the HI/LOW switch to the “Hi” or “Lo” position as required. HI (for electrode stimulation) or LOW (for needle stimulation)
- Apply acupuncture needles or electrodes to patient.
- Insert alligator type connecting wires into 1, 2, 3 or 4 sockets and fasten their clips to the acupuncture needles or electrodes. The number of channels used depends on the number of needles or electrodes used in each treatment.

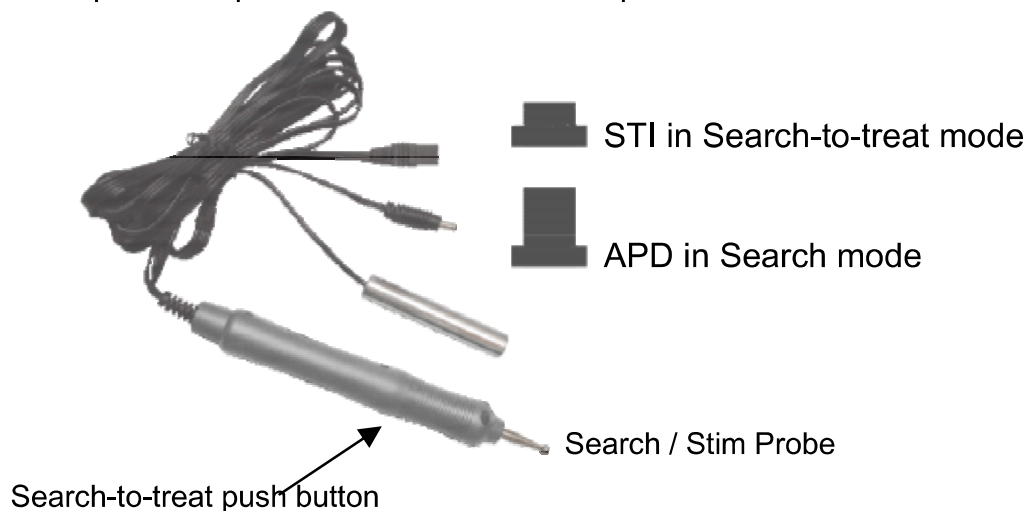


- Set the desired mode, frequency (pulse rate), pulse width and operation time with the switches as mentioned above.
- Adjust the intensity of each channel to appropriate setting. The intensity current of each output channel can be adjusted from 0 mA to 20 mA when the “HI/LOW” switch is switch to the “LOW” range or 0 to 45 mA when the “HI/LOW” switch is switch to the “HI” position. Rotating the INTENSITY knob will increase (or decrease) the intensity.



Therapy with Electric Stimulation probe & Settings

- Use the Search/Stimulation probe (point detector with hand pole) by placing the probe tip onto the acupuncture point or another selected part of the skin.



- Insert the Search/stimulation probe with handgrip electrode into the APD/STIM socket. To stimulate the acupuncture point with the probe tip, make sure the probe tip is touching the treated point or area, and press the search-to treat button on the probe (The intensity is regulated by the STIM Channel), direct stimulation with fixed waveform, frequency and pulse width will be provided by the probe head.



NOTE : The output intensity of "Stim" is in High range intensity (0-80 mA) and frequency is fixed at 10 Hz (SEN/STIM LCD will display the Hz during direct stimulation).

Precaution After the Treatment

After use, turn all output knobs to OFF position, and press the POWER SWITCH to turn off the device.

Keep the device clean and Store it in a clean and dry place.

Explanation of symbols

The following symbols are used in this device:



On



Off



Read Instruction



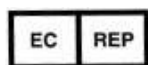
Type BF Applied
Part



Year of
Manufacture

SN

Serial Number



Authorised
Representative in
the European
Community



CE 0197 mark of conformity.

The device is complied with the Essential Requirements for
Medical Devices according to EC Directive 93/42/EEC

Disposal of the Device

Please follow the local environmental requirements when disposing of the device, or its accessories, or packing materials.

Maintenance

Maintenance of the stimulator is limited to cleaning the stimulator battery contacts and replacing lead wires when they become old.

The stimulator operates on DC 1.5 volt x 6 pcs. Batteries (not included). When adequate stimulation can no longer be maintained, change the batteries.

Remove the old batteries and replace them with new batteries.

The device will provide sufficient levels of stimulation only if the batteries are properly installed.

To avoid battery leakage, remove the batteries if the device will not be used for an extended period of time.

To ensure the device works properly, please check the device on a periodic basis with the following:

PARTICULARS	DESCRIPTIONS	PROCEDURES
Appearance	I. check for broken or damaged parts. II. check all LCD displays, make sure all digits are legible.	By visual inspection
Operation	I. check all LEDs light when device is turned on. II. check that the buzzer sounds. III. check that the device functions properly.	By operating the device
Accessories	I. check for broken or damaged parts of all accessories including the search/stim probe. II. check all connecting wires for any broken or damaged parts.	By visual inspection
Safely precaution	I. Turn on one of the intensity knobs, press POWER SWITCH ON so an error occurs. Verify that the device resets to normal operation when turn OFF all intensity knobs, no error light, no music to be function.	By operating the device

Trouble Shooting

If your device appears to be functioning improperly, check the procedures shown below to determine what may be wrong.

If none of these measures correct the problem, the device should be serviced.

Do not attempt to repair the device by yourself! Return the device to your local authorized dealer or to the manufacturer as listed in this manual for repair or service.

Problem	Solution
Indicator lights up but device does not function properly.	I. Check control settings, are they set to values prescribed as desired. II. Check if frequency control is turned on (not too low, or at zero setting) III. Are needles or electrodes firmly fixed and in proper position? IV. Check connecting wire. Make sure all alligator clips are firmly connected to the needles or electrodes. V. Replace connecting wire with another to insure the wire is not broken.
Low battery lamp illuminates.	Replace batteries with new ones.
No indicators light up.	Replace batteries with new ones.

1. Battery replacement - Batteries should be replaced whenever sufficient stimulation cannot be maintained.
2. Care of Device - The stimulator and connecting wires should be kept clean. The stimulator should not be immersed in any liquid. Avoiding rough use will help prevent premature failure.

Storage and Transportation

Store the device in a dry location free from dust and contamination where the temperature remains fairly constant and within the range of 10°C to 50°C (50°F to 122°F).

Do not drop, mishandle, or expose to temperature or humidity extremes <outside the range of 10°C to 50°C (50°F to 122°F), 15-95% RH non-condensing>. Do not use if the device malfunctions or has been damaged in any manner.

There is generally no restricted “shelf-life” of the device.

Environmental condition

	Temperature	Humidity	Pressure
During Use	10°C to 40°C (50°F to 104°F)	30-75% RH non-condensing	700-1060 hPa
Storage	10°C to 50°C (50°F to 122°F)	15-95% RH non-condensing	700-1060 hPa
Transportation	10°C to 50°C (50°F to 122°F)	15-95% RH non-condensing	700-1060 hPa

Cleaning

DO NOT IMMERSE THE STIMULATOR IN ANY CLEANING SOLUTION.

The stimulator should be periodically wiped clean using a damp cloth and a solution of mild soap and water. Use of other cleaning solutions may damage the housing.

The wires should be wiped clean with a cloth dampened with a mild soap solution and then wiped dry.

Limited Warranty

This warranty is in lieu of any other warranty expressed or implied:

This AWQ-105 PRO ACUPUNCTURE STIMULATOR / T.E.N.S. is warranted to the initial purchase. ("purchases") and to no other person against any defects in material and workmanship for a period of one year from the date of purchase. If the stimulator is found to be defective within the warranty period, it will be repaired or replaced if returned prepaid to an authorized service center. This warranty does not cover damage caused by rental, misuse, negligence, accident, abuse, alteration, or modification of the device. Repairs after the warranty period will be made and charged to the customers on the basis of rates which are available on request. Except for personal injury, no liability is held in either tort or contract for any loss or damage, direct, consequential, or incidental arising out of the use, misuse, or inability to use this product.

Serial No.:

(located on the rear side of the device, next to the battery compartment door)

Date Purchased

Customer: Please record this information