



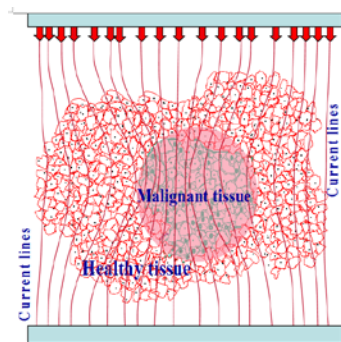
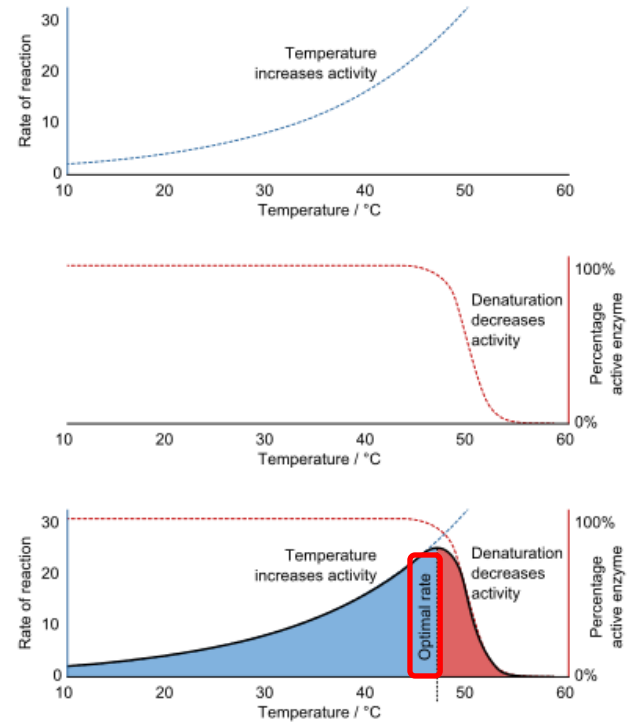
New Paradigm

For Musculoskeletal Disorder and Joint Pains

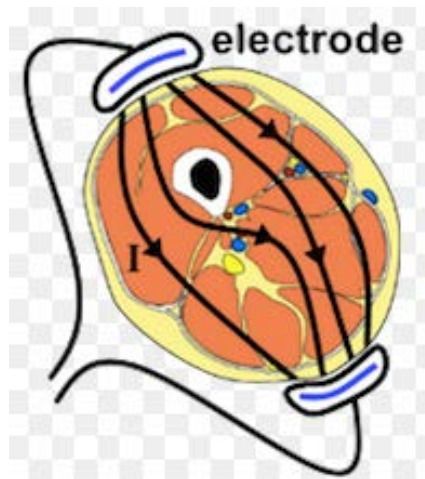


Body Temperature, and Why 2MHz?

- Van't Hoff's Law observes that the rate of a chemical reaction increase two or three folds for each 10°C rise in temperature
- Elevating tissue temperature from normal 37°C to targeted range in between 40 and 42°C will speed cellular metabolism, oxygen consumption and energy expenditure.



- Advanced 2MHz High Frequency technology smoothly emits the thermal energy into the body. And the thermal energy is mainly focused to deep target area with minimized heat damage to the superficial skin.
It reduces the risk of burn and electric shocks compared to conventional probe type devices.



BENEFIT

Diathermy involves heating deep muscular tissues. When heat is applied to the painful area, cellular metabolism speeds up and blood flow increases.

The increased metabolism and circulation accelerates tissues repair. The heat helps the tissues relax and stretch, thus alleviating stiffness. Heat also reduces nerve fiber sensitivity, increasing the patient's pain threshold.

Diathermy can be used to treat arthritis, bursitis, and other conditions involving stiff, painful joints. It is also used to treat pelvic infections and sinusitis.

CAUTION!

Patients with metal implants should not undergo diathermy treatment because the metal can act as a conductor of heat and result in serious internal burns. Female patients with metallic implants, such as an IUD, should avoid treatment in the pelvic area.

Diathermy should not be used in joints that have been replaced with a prosthesis or in those with sensory impairment who may not be able to tell if they are burning. Patients with hemophilia should avoid the treatment because the increased blood flow could cause them to hemorrhage.



Auto Focusing Pain Control

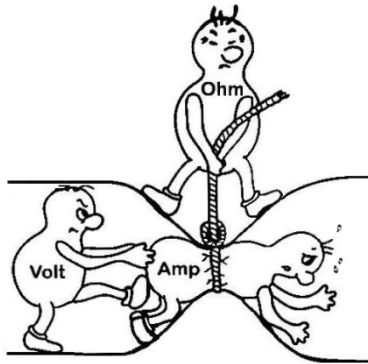
The electric field and resulting heat between two flexible electro pads are directed to the lesioned area without energy loss of the superficial skin, In addition, the energy is more focused to the target area with minimized thermal effect to the surrounded normal tissues.

AXION is using the 2MHz high technology to reduce pain with high currency and low voltage for the best safety and efficacy.

Its heating effect up to 42°C increases circulation and metabolism and speeds up the rate of ion diffusion across cellular membranes

Increased body temperature makes the Immunity 5 times stronger

$$V = IR$$



■ The Safest Technology

Using 2MHz and flexible pads can produce the low resistance, so the AXION can use low voltage and high current.

Compared to other conventional devices, it can reduce any risk of electric shocks or burn, and provide the best safety to the patient during treatment.

Bye Bye!

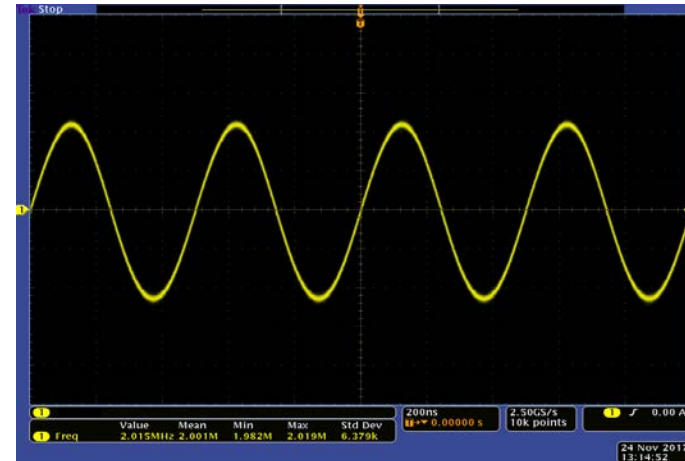


Safe and Truly Deep Diathermy



- Flexible & Adhesive electro Pads safely generate thermal energy at the center between two electro pads. The thermal temperature in the body goes 40~42 degrees.
- Generated high radiofrequency between two attached electro pads is changed to thermal energy.
- The thermal energy at the lesion area creates higher tissue temperature, which produces vasodilation which increases the supply rate for oxygen and nutrients as well as the elimination of carbon dioxide and other metabolic waste.

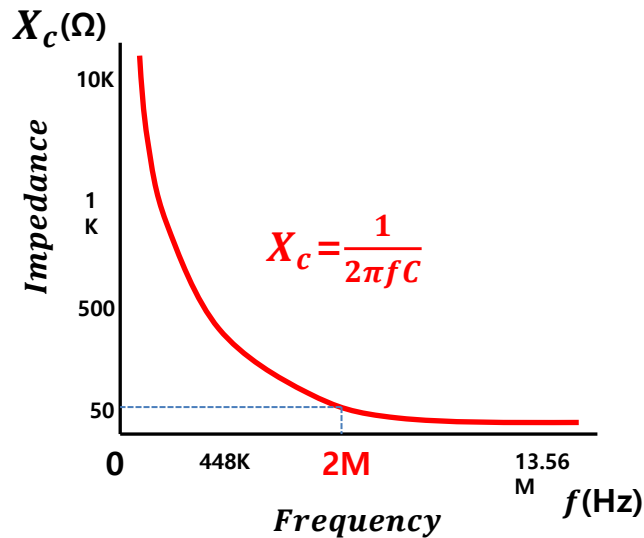
Why 2MHz Technology



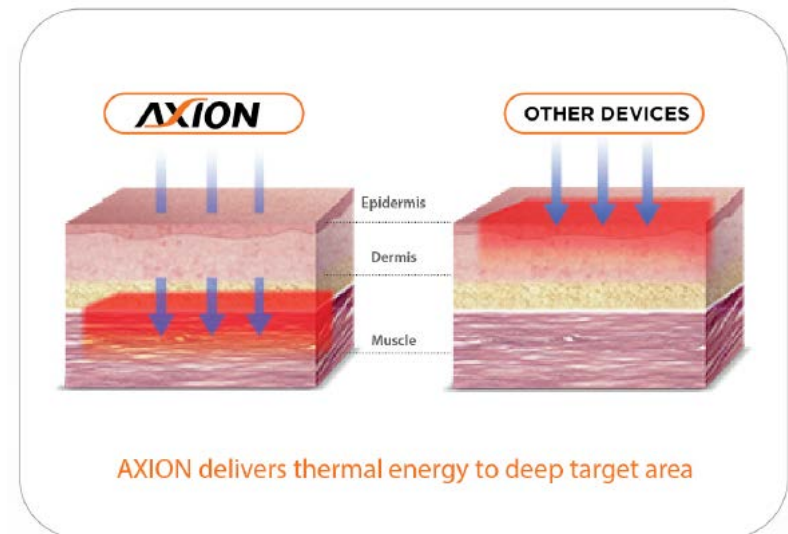
AXION Out power (Screen capture)

- 2 MHz High Frequency smoothly penetrates to the deep target area without thermal damage to the superficial skin
- Minimized the side effects such as electric shocks and burns compared with other conventional devices
- The RF energy is delivered to the target area with minimized energy loss on the way

Advanced 2MHz Hyperthermia



- Advanced 2MHz hyperthermia technology emits thermal energy into the body smoothly. And thermal energy is primarily focused on the deep target area to minimize surface heat damage to the superficial skin.
- Advanced 2MHz makes the dielectric constant of the human body and the impedance of the electrode close to zero resistance with low voltage and high current. As a result of deeper thermal energy and less superficial stimulation, it significantly reduces the risk of burns and electric shocks compared to other 300KHz to 1MHz devices.
- Elevated tissue temperature from normal 37 ° C to a target range of 40-42 ° C accelerates cell metabolism, oxygen consumption, and energy consumption. And it optimizes tissue recovery due to oxygen and nutrient delivery to the blood. As a result, it improves tissue regeneration and increases cellular nutrition.





SPORTS PHISYOTHERAPY

- Ligament injuries
- Muscle injuries
- Sprains
- Pathologies

REHABILITATION

- Neurology
- Acute&Chronic Pains
- Traumatology
- Rheumatology

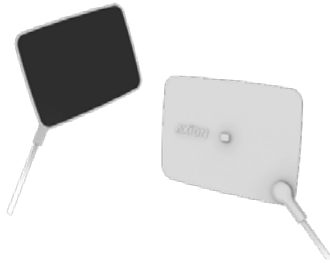
BENEFIT

- activation of cellular metabolism process
- Tissue regeneration
- Blood flow activation
- Tissue compacting effect
- Analgesic and anti-inflammatory activity

TECHNOLOGY

- Harmless
- Safe
- Efficacy with thousand of treatments

Applicable any angled and uneven area

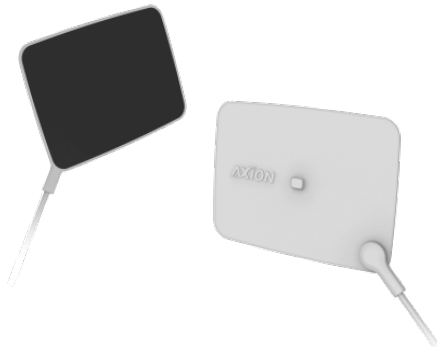


The Flexible electro pad can be stably applied to any uneven and angled area such as knee, shoulder and elbow joint, so that it doesn't need any practitioner or gel during treatment

Flexible & Adhesive Pad



WORLD FIRST !



Flexible & Adhesive Pad



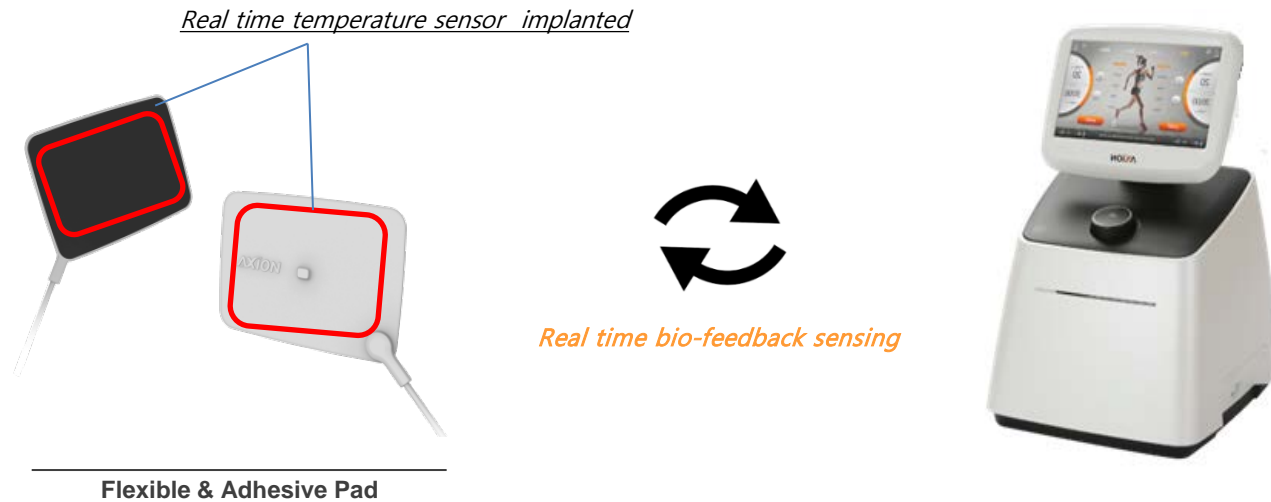
■ AXION doesn't require Gel and practitioner during treatment. It reduces the risk of electric shocks and saves labor cost

2 PATIENTS = 1 AXION

SLIM BODY DESIGN FOR BETWEEN 2 BEDS



- Two patients treatment is available at the same time



- Real time temperature sensor to prevent burn and electric shocks during treatment

✓ Advanced High Frequency

- 2Mhz high frequency system delivering thermal energy to the deep target area
- Impedance Auto-calibration providing stably energy to the each patient
- Intuitive touch-screen interface displays

✓ Cart

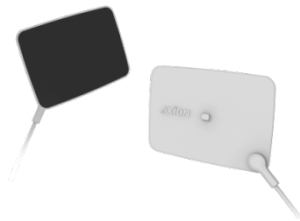
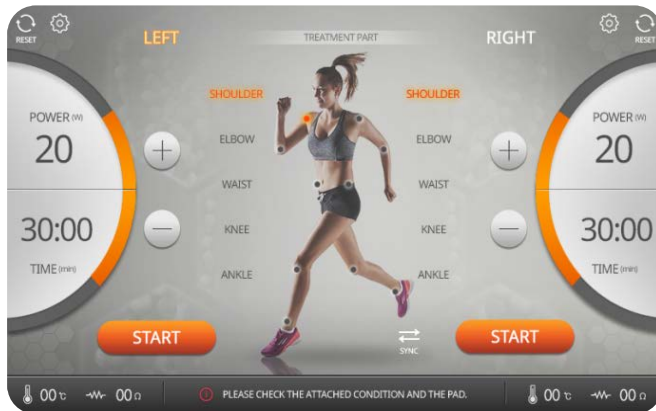
- Easy transportation and installation
- Slim and compact design
- Back drawer for accessories and pads
- Non-slip handle and hanger for cable



✓ Flexible & Adhesive Electro Pad

- Adhesive electrode pads which doesn't require any gel application or rub with the probe
- 2 Channel Electro Pads enable 2 patients treatment at the same time
- Stable and Safe attachment to the angled area
- Real time temperature sensor to prevent burn and electric shocks
- Easy attachment by single use hydro-gel pad

Advantages



Flexible & Adhesive Pad



Emergency Stop Remote

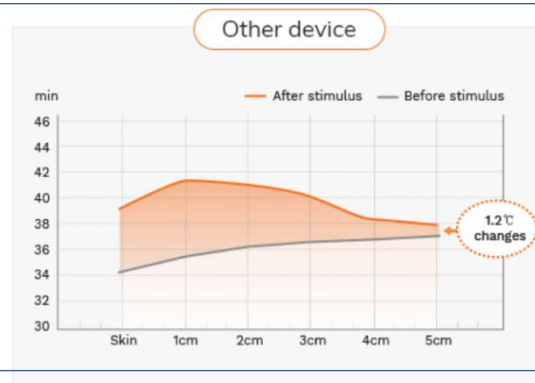
✓Advantages

- World first, **Flexible & Adhesive electro Pad**
- Ideal thermal stimulation in to **Deep Target area**
- **Best safety** by Auto stop function checking the skin temperature
- **2MHz High Frequency** technology safely delivering the energy into the body
- **No practitioner and No gel** during the treatment
- Easy treatment guide by **pre-setting program**
- **2 Channel electro pads** for wide applications
- **Impedance Auto Calibration** for each patient
- **Emergency Stop Remote** control in any cases

Safety and efficacy : AXION delivers RF energy to the deep target area with minimized thermal damage to the superficial skin compared to other probe type devices.

(Other device)

Depth/ Time	Skin	1cm	2cm	3cm	4cm	5cm
0min	34.4	35.7	36.3	36.6	36.8	37.1
40min	39.5	41.8	41.0	40.4	38.6	38.3
Variation (°C)	5.1	6.1	4.7	3.8	1.8	1.2



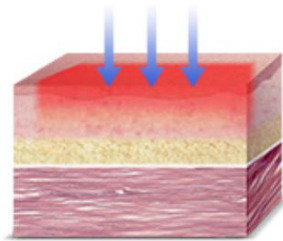
AXION
Ture & Deep Thermal Stimulation High Frequency Technology

Depth/ Time	Skin	1cm	2cm	3cm	4cm	5cm
0min	32.3	33.3	34.6	34.7	34.7	34.6
40min	35.3	37.5	37.5	37.4	37.7	39.2
Variation (°C)	3.0	4.2	2.9	2.7	3.0	4.6



■ AXION shows that the temperature of the deep area goes up more than other devices

(Other devices)



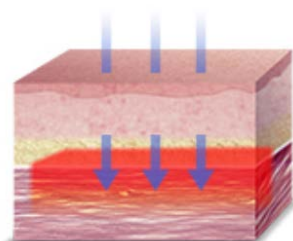
Before



After



- A practitioner applies and rubs the probe to the epidermic area above the targeted chronic pain for 40 mins. Thermal energy is mainly accumulated on the epidermis and only a small amount of thermal energy penetrates to the deep area. it caused burn and electric shocks to the skin



Before



After



- A flexible and adhesive pad is applied for 40 mins above the targeted area and thermal energy is mainly accumulated into the deep targeted area and results in comparatively less temperature changes to the epidermis. There is not any burn or electric shock

■ Applications

- Chronic musculoskeletal disorders
- Multi-joint pains
- Regional treatments(rheumatoid arthritis, tendinitis etc)
- Sports injury and pains





Thank you!

