GENERAL CATALOGUE
for Electrotherapy

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*Designs and specifications are subject to change without notice.
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Ultrasound
- US-751 Multi-Frequency Ultrasound
- US-750 Multi-Frequency Ultrasound

Electrotherapy
- ES-522 2-channel Electrotherapy Unit with All Low- and Medium-Frequency Currents
- ES-521 2-channel Low-and Medium-Frequency Electrotherapy
- ES-420 2-channel Low-Frequency Electrotherapy
- Trio 300 2-channel Palm-sized Multi-mode Stimulator

TENS
- ES-320 TENS / EMS Combo
- TENS 120Z Dual Channel TENS

Bone Growth Stimulator
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Radio Frequency
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Shortwave & Microwave
- SW-1000 Pulsed & Continuous Shortwave
- SW-180 Pulsed & Continuous Shortwave
- SW-201 Pulsed Shortwave
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Magnetotherapy
- HOT MAGNER with magnetic field, vibrations and heat

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Infrared Lamp
- SR-300/T-300 Infrared Lamp (Stand-alone, Desktop)
Thank you for using Ito products.
This is a guide to our physiotherapy equipment intended for health providers working in medical facilities, welfare facilities, and sports organizations. We hope that the products created as a result of our research and development can assist you in your work.

Our technology is widely acclaimed both in Japan and around the world.

Ito products are currently used in medical facilities in many countries around the world. This is due to the fact that, as a pioneer in this field in Japan, Ito was quick to embrace the worldwide mainstream concept of EBM (Evidence Based Medicine), and continually incorporate it into the development of innovative equipment. Our quality environmental management system is certified to satisfy the ISO 9001, ISO 13485, and ISO 14001, and our products comply with MDD (EU), UL and FDA (U.S.A). We made an investment in the construction of a Reliability Control Center that will enable us to supply even safer equipment with further quality improvements. We believe that our dedication to quality will gain us the trust of more and more people around the world.

Helping to treat and keep athletes in good condition.

It is vital for top athletes to maintain peak condition and recover as quickly as possible from injuries. Ito physiotherapy equipment plays an important role in enabling this goal to be achieved. Our equipment helped athletes to maintain their condition in world-famous sporting events. To support them more, ITO sponsors sports federations and associations, such as Japan Handball Association, Japan Cycling Federation, All Japan Judo Federation and others. We are actively involved in the world of sports based on the experience we have gained in both the medical and sporting fields.
Founded in 1916, ITO began by developing Japan’s first electrotherapy equipment. Since then, we have advocated the importance of health management, predicting the increase in lifestyle-related diseases. With the aging of society in recent years has come a reaffirmation of the effectiveness and potential of physiotherapy, with increased interest from a wide range of fields. We intend to continue leading the way into the new world of physiotherapy in order to maintain a healthy society.

There is a reason why practitioners around the world rely on ITO.

We will continue to lead the way into the new world of physiotherapy.
Placing greater assurance in our reputation

To further increase consumer confidence, we have established a company-wide control system focusing on quality in every stage of our operations from product development, to production and customer service and also work on meeting global standards. As a key element in this system, we built the Reliability Control Center which was completed in 2004.

The center boasts highly advanced test, inspection, verification and measuring facilities, and staffs who work in close cooperation with those in production headquarters to ensure our products live up to the expectations of our customers.

Global Standards

To deliver higher quality products, we dedicate ourselves to keep our products adherence to global standards, such as ISO 9001, ISO 13485, and ISO 14001. Responding to global standards, we are pursuing the best system required as a leader in the physiotherapy equipment industry.

Other Facilities

- Intelligent load testing robot
- Vibration tester
- Bending tester
- Photomicroscopy system
- Drop impact tester
- Specimen verification machine
- RF network analyzer
- Thermal shock chamber
- Measuring microscope
- Hydrophone
- Micro focus X-ray inspection system
- Low temp. thermo-hydrotstat large chamber

A focus on quality

The Reliability Control Center
Overview of our lineup

Electrotherapy/Ultrasound Combo

**EU-940**
4-Channel Electrotherapy/Ultrasound Combo

**EU-941**
4-Channel Electrotherapy/Ultrasound Combo

**EU-920**
2-Channel Electrotherapy/Ultrasound Combo

**US-750**
Multi-Frequency Ultrasound

**US-101L**
Palm-sized Ultrasound

**US-103S**
Palm-sized Ultrasound

**US-751**
Multi-Frequency Ultrasound

**OSTEOTRON IV**
Ultrasound Bone Growth Stimulator

**ES-521**
2-channel Low- and Medium-Frequency Electrotherapy

**ES-522**
2-channel Electrotherapy Unit with All Low- and Medium-Frequency Currents

**ES-420**
2-channel Low-Frequency Electrotherapy

**Trio-300**
2-channel Palm-sized Multi-mode Stimulator

**ES-320**
TENS/EMS combo

**TENS 120Z**
Dual Channel TENS

Radio Frequency

**DIA-TKR 800**
Radio Frequency Therapy

Continued →
Overview of our lineup

Shortwave & Microwave

**SW-180**
- Pulsed & Continuous Shortwave

**SW-201**
- Pulsed Shortwave

**SW-1000**
- Pulsed & Continuous Shortwave

**PM-810+ / PM-820**
- Microwave

Magnetotherapy

**HOT MAGNER**
- with magnetic field, vibrations and heat

Electroacupuncture

**ES-160**
- 6-channel Programmable Electroacupuncture

**ES-130**
- 3-channel Palm-sized Electroacupuncture

Vibrator

**VITER VR-7N**
- Professional-use Vibrator

Infrared Lamp

**T-300**
- Infrared Lamp (Desktop)

**SR-300**
- Infrared Lamp (Stand-alone)

Traction

**TM-400**
- Powered Traction Unit

**OE-210 / OE-220**
- Outcome Evaluation Systems

Evaluation

**OE-210**
- Tissue Hardness / Algometer Combo

**OE-220**
- Dynamometer (MMT)
The most user-friendly combination therapy system
Reliability, Excellence, all in this device
The most user-friendly combination therapy system

Features
* Large 7-inch TFT color touch screen
* Body diagram & Clinical program
* Low BNR
* A striking piano black finish
* Very low BNR, 3.2–3.6 for U.S.A.
* Multi frequency ultrasound (1/3 MHz, each probe) and eight stimulation modes such as 4-pole IF, 2-pole IF, EMS, Russian, TENS, Hi-Volt, Microcurrent (MCR), and DC.

Specifications
Power supply: AC 100–240 V ± 10 %, 50/60 Hz
Number of channels: 5
Current amplitude (max.): 600 mA (peak)
Ultrasound frequency: 1 and 3 MHz each probe
Safety class according to IEC 60601-1: Class I, Type BF
Dimensions: 350 (W) x 270 (D) x 145 (H) mm
Weight: 4 kg

Optional Accessories
EU-940 + SU-520 (Vacuum Unit)
B180361 Power Supply Cord (110V, Type A )
B180566 Power Supply Cord (220V, Type F) or
B180562 Power Supply Cord (110–240V, Type F) or
B180564 Power Supply Cord (110–240V, Type A ) or
B180567 Power Supply Cord (110–240V, Type B)
B120612 Ultrasound Gel (250 ml)
B120719 Ultrasound Probe Holder
B120812 Ultrasound Probe Holder (120 x 150 mm)
B180537 Ultrasound Probe (S)
B180534 Ultrasound Probe (L)
B180535 Ultrasound Probe (M)
B180536 Ultrasound Probe (S)
B180535 Ultrasound Probe (L)

Standard Kit
D12415 Ultrasound Probe (S)
B180234 electrode cable (Black)
B180235 electrode cable (Red)
B180236 electrode cable (Orange)
B180237 electrode cable (White)
D11151 Ultrasound Electrode (M), 4 x 5 cm, 2pack, 4x
D11148 Ultrasound Sponge A, 8 x 10 cm, 2pack, 4x
D11145 Strap (S), 40 x 5 mm, 4x
D12096 Probe Holder
D120612 Ultrasound Gel (250 ml)
D120719 Ultrasound Probe Holder

EU-940 + SU-520 (Vacuum Unit)
B180566 Power Supply Cord (110–240V, Type F) or
B180564 Power Supply Cord (110–240V, Type A ) or
B180567 Power Supply Cord (110–240V, Type B)
B120612 Ultrasound Gel (250 ml)
B120719 Ultrasound Probe Holder
B120812 Ultrasound Probe Holder (120 x 150 mm)
B180537 Ultrasound Probe (S)
B180534 Ultrasound Probe (L)
B180535 Ultrasound Probe (M)
B180536 Ultrasound Probe (S)
B180535 Ultrasound Probe (L)

Optional Accessories
EU-940 + SU-520 (Vacuum Unit)
B180361 Power Supply Cord (110V, Type A )
B180566 Power Supply Cord (220V, Type F) or
B180564 Power Supply Cord (110–240V, Type F) or
B180567 Power Supply Cord (110–240V, Type B)
B120612 Ultrasound Gel (250 ml)
B120719 Ultrasound Probe Holder
B120812 Ultrasound Probe Holder (120 x 150 mm)
B180537 Ultrasound Probe (S)
B180534 Ultrasound Probe (L)
B180535 Ultrasound Probe (M)
B180536 Ultrasound Probe (S)
B180535 Ultrasound Probe (L)

Standard Kit
D12415 Ultrasound Probe (S)
B180234 electrode cable (Black)
B180235 electrode cable (Red)
B180236 electrode cable (Orange)
B180237 electrode cable (White)
D11151 Ultrasound Electrode (M), 4 x 5 cm, 2pack, 4x
D11148 Ultrasound Sponge A, 8 x 10 cm, 2pack, 4x
D11145 Strap (S), 40 x 5 mm, 4x
D12096 Probe Holder
D120612 Ultrasound Gel (250 ml)
D120719 Ultrasound Probe Holder

EU-940 + SU-520 (Vacuum Unit)
B180566 Power Supply Cord (110–240V, Type F) or
B180564 Power Supply Cord (110–240V, Type A ) or
B180567 Power Supply Cord (110–240V, Type B)
B120612 Ultrasound Gel (250 ml)
B120719 Ultrasound Probe Holder
B120812 Ultrasound Probe Holder (120 x 150 mm)
B180537 Ultrasound Probe (S)
B180534 Ultrasound Probe (L)
B180535 Ultrasound Probe (M)
B180536 Ultrasound Probe (S)
B180535 Ultrasound Probe (L)

Optional Accessories
EU-940 + SU-520 (Vacuum Unit)
B180361 Power Supply Cord (110V, Type A )
B180566 Power Supply Cord (220V, Type F) or
B180564 Power Supply Cord (110–240V, Type F) or
B180567 Power Supply Cord (110–240V, Type B)
B120612 Ultrasound Gel (250 ml)
B120719 Ultrasound Probe Holder
B120812 Ultrasound Probe Holder (120 x 150 mm)
B180537 Ultrasound Probe (S)
B180534 Ultrasound Probe (L)
B180535 Ultrasound Probe (M)
B180536 Ultrasound Probe (S)
B180535 Ultrasound Probe (L)
Ultrasound therapy

Ultrasound therapy ensures more efficient and effective treatment by varying the frequency in accordance with the depth of the tissue being treated, such as through the use of frequencies of 0.8 MHz or 1 MHz in the treatment of deep tissue, and 3 MHz for tissue close to the surface. The effective treatment depth for ultrasound is 4 to 5 cm beneath the skin surface. Rapid heating is also possible. Body parts with a complex shape, such as the feet or fingers, can be treated with the area immersed in water. Heating is likely to improve blood circulation and offer secondary benefits such as pain relief, promotion of healing of the injured area, and reduced recovery time.
ITO’s technologies are changing the look of ultrasound therapy. A new style in portable ultrasound therapy systems, catering to the needs of athletes and others.

**Features**
- Portability
- One-hand operation
- Waterproof
- Low BNR
- Rechargeable Battery (optional)

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>US-101L</th>
<th>US-103S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>134 (H) x 59 (W) x 55 (D) mm</td>
<td>134 (H) x 59 (W) x 60.5 (D) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>200 g</td>
<td>190 g</td>
</tr>
</tbody>
</table>

**Power supply**
- AC 100–240 V 50/60 Hz or Rechargeable Battery (optional)

**Ultrasound frequency**
- 1 and 3 MHz each probe
- 2 W/cm² ± 10 %, continuous
- 3 W/cm² ± 20 %, pulsed

**Débit**
- 1 to 30 min. ± 5 %

**Safety class according to IEC 60601-1**
- Class I, Internally powered equipment, Type BF

**Timer**
- One hundred (100) free program memories. The stored programs can be sorted in alphabetical order, and a desired program can be selected simply by touching the patient name or treatment objective.
- Very low BNR, 2.4 – 3.6 (IEC standards)
- Selectable coupling sensitivity for regular or medicated gel
- Pleasant key-touch sound. Melodies in a “do-re-mi” scale can be selected.
- Choice of three different treatment-end melodies
- Enables combo therapy in conjunction with the ES-320

**Optional Accessories**
- Power Cable for Battery Charger (220–240 V, Type F) or Power Supply Cord (110–120 V, Type A)
- Protective Cap for US-101L Probe
- Protective Cap for US-103S Probe
- Ultrasound Gel (250 ml)
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-101L Probe
- Protective Cap for US-103S Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-101L complete with standard accessories, including
  - Protective Cap for US-101L Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)
  - Ultrasound Gel (250 ml)
  - Probe Holder
  - Unit Stand
  - Battery Case
  - Protective Cap for US-101L Probe

**Optional Accessories**
- Power Cable for Battery Charger (220–240 V, Type F) or Power Supply Cord (110–120 V, Type A)
- Protective Cap for US-101L Probe
- Protective Cap for US-103S Probe
- Ultrasound Gel (250 ml)
- Protective Cap for US-103S Probe

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  -Ultrasound Probe (S)
  -Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)

**Ordering Data**

**Standard Kit**
- US-750 complete with standard accessories, including
  - Ultrasound Probe (S)
  - Ultrasound Probe (L)
  - Ultrasound Gel (250 ml)
  - Protective Cap for US-750 Probe
  - Power Cable for Battery Charger (110–240 V, Type F) or Power Supply Cord (110–120 V, Type A)

**Optional Accessories**
- Probe Holder
- Unit Stand
- Battery Case
- Ultrasound Probe (L)
- Protective Cap for US-750 Probe
- Ultrasound Gel (250 ml)
A variety of electrical-stimulation therapy methods to suit the specific condition
Electrical-stimulation therapy is a treatment that promotes or represses vital reactions through the application of electric stimulation to the neuromuscular system or sensory nerves in order to reduce pain, improve muscle strength, increase joint mobility, suppress spasm, promote blood circulation, and reduce the severity of edema.

**ES-522**
2-channel Electrotherapy Unit with All Low- and Medium-Frequency Currents

**Features**
- Provided with the most common currents, a full range of DC currents, I/T curve and AQ:
  - 4-pole IF, 2-pole IF, EMS, Russian, TENS, Hi-Volt, Microcurrent (MCR), DC: Galvanic, Faradic, Diadynamic (DF), MF, CF, CF-SD, IP, RS, Traebert (Ultra Resi)
- Diagnostic: I/T curve and AQ
- Seventy (70) free program memories
- Touch panel for easy operation
- Alphabetic keyboard
- Two pause keys, one for each channel
- Three different treatment-end melodies
- Connectable to the SU-520 vacuum unit (optional)

**Specifications**
- **Power supply**: AC 100–240 V ± 10 %, 50/60 Hz
- **LCD display**: touch panel, 320 x 240 pixels, 10 languages
- **Number of channels**: 2, 2.5, 4 or 5 kHz
- **Safety class according to IEC 60601-1**: Class I, Type BF
- **Dimensions**: 285 (W) x 251 (D) x 107 (H) mm
- **Weight**: 3.5 kg

**Optional Accessories**
- Electrode Sponge A (S), 70 x 45 mm, 2pcs/pack
- Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- Electrode Sponge A (M), 80 x 65 mm, 2pcs/pack
- Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- Vacuum Unit SU-520 (see page 38)
- Electrode Cable (Blue)
- Electrode Cable (Gray)
- Electrode Sponge A (M), 80 x 65 mm, 2pcs/pack, 2x
- Rubber Electrode (M), 60 x 50 mm, 2pcs/pack, 2x

**Ordering Data**
- **Standard Kit**
  - ES-522 complete with standard accessories, including:
    - 011152 Rubber Electrode (S), 70 x 45 mm, 2pcs/pack
    - 011150 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
    - 011147 Electrode Sponge A (S), 49 x 49 mm, 2pcs/pack
    - 011036 Electrode Sponge A (M), 80 x 65 mm, 2pcs/pack
    - 010747 Self-adhesive Electrode, 89 x 51 mm, 4pcs/pack
    - 011172 MCR (Microcurrent) Probe, 2pcs/pack
  - **Ordering Data**
  - **Standard Kit**
  - ES-522 complete with standard accessories, including:
    - 011152 Rubber Electrode (S), 70 x 45 mm, 2pcs/pack
    - 011150 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
    - 011147 Electrode Sponge A (S), 49 x 49 mm, 2pcs/pack
    - 011036 Electrode Sponge A (M), 80 x 65 mm, 2pcs/pack
    - 010747 Self-adhesive Electrode, 89 x 51 mm, 4pcs/pack
    - 011172 MCR (Microcurrent) Probe, 2pcs/pack

**Screens**
- Diadynamic
- DC currents

**A universal current electrotherapy unit that anyone can use easily**
- Touch panel, alphabetic keyboard, and two pause keys drastically enhance usability

**Features**
- Touch panel for easy operation
- Provided with the eight most common currents: 4-pole IF, 2-pole IF, EMS, Russian, TENS, Microcurrent (MCR), DC.
- Alphabetic keyboard: Treatment objectives or patient names are registered in the program memory. The program to use is selected by touching the intended application or name expressed.
- Two pause keys, one for each channel
- Seventy (70) free program memories
- Three different treatment-end melodies: When several systems are used, different melodies can be selected for each system to distinguish which system has completed therapy.
- Connectable to the SU-520 vacuum unit (optional)
2-channel Low-Frequency Electrotherapy

Features

* AC / DC dual power supply
* Eighteen (18) preset programs
* Programmable: up to six (6) programs may be stored
* An excellent value / performance ratio

Specifications

<table>
<thead>
<tr>
<th>Power supply</th>
<th>AC adaptor or 6 x R6 (AA) battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of channels</td>
<td>2</td>
</tr>
<tr>
<td>Current amplitude (max.)</td>
<td>99 mA ± 10 % (peak)</td>
</tr>
<tr>
<td>Safety class according to IEC 60601-1</td>
<td>Class 2 Internally powered equipment, Type BF</td>
</tr>
<tr>
<td>Dimensions</td>
<td>227 (W) x 207 (D) x 96 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.4 kg (without batteries)</td>
</tr>
</tbody>
</table>

Ordering Data

Standard Kit
ES-420 comes with standard accessories, including
- D11365 AC Adapter (220–240 V or 110–120 V)
- D11151 Rubber Electrode (6), 60 x 50 mm, 2pcs/pack, 2x
- D11148 Electrode Sponge A (M), 60 x 50 mm, 2pcs/pack, 2x
- B180492 Electrode Cable (Ivory)
- B180508 Electrode Cable (Gray)
- D11105 Strip (L), 60 x 120 mm
- D11405 Strip (S), 50 x 100 mm
NOTE: Batteries are not included.

Optional Accessories
- D010306 Self-adhesive Electrode, 49 x 49 mm, 4pcs/pack
- D010747 Self-adhesive Electrode, 89 x 51 mm, 4pcs/pack
- D010886 Self-adhesive Electrode, 32, 4pcs/pack
- B010306 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010747 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010886 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack
- B010886 Rubber Electrode (L), 100 x 60 mm, 2pcs/pack
- B010306 Rubber Electrode (S), 50 x 30 mm, 2pcs/pack
- B010747 Rubber Electrode (M), 60 x 50 mm, 2pcs/pack

Features

* Versatile modes and functions in a palm-sized device, including TENS, EMS (NMS), Microcurrent, preset programs, and five (5) free program memories
* Easy-to-read indications on large LCD screen
* Simple four-key operation
* Memory retains its contents even when battery runs out
* DC and AC operation (with an optional AC adaptor)

Specifications

<table>
<thead>
<tr>
<th>Power supply</th>
<th>AC adaptor or 6 x R6 (AA) battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of channels</td>
<td>2</td>
</tr>
<tr>
<td>Current amplitude (max.)</td>
<td>80 mA (peak)</td>
</tr>
<tr>
<td>Safety class according to IEC 60601-1</td>
<td>Internally powered equipment, Type BF</td>
</tr>
<tr>
<td>Dimensions</td>
<td>68 (W) x 25 (D) x 113 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>145 g (without a battery)</td>
</tr>
</tbody>
</table>
What makes the ES-320 different?

The ES-320 is designed so practitioners can check whether the patient has used the unit as prescribed (PAT.P), or allows you to check the patient’s usage, helping you make reliable evaluations on therapeutic effect based on the parameters specially set up for the patient.

Features
- Saves in memory the cumulative number of treatments and duration of treatment (PAT.P)
- Stores and protects programs formulated for each individual patient (PAT.P)
- Provide five (5) stimulation modes such as Constant, Burst, Surge (EMS), Sweep and Random (sequential)
- Four (4) free program memories (one for each mode)
- Color-coded, easy-to-use operational keys
- Accommodation prevention mode — Sweep and Random (sequential) modes
- Self-test — checks ROM/RAM when the power is turned on

Specifications

<table>
<thead>
<tr>
<th>Power supply</th>
<th>DC 4.5 V, 3 x R6 (AA) battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of channels</td>
<td>2</td>
</tr>
<tr>
<td>Current amplitude (max.)</td>
<td>90 mA (peak)</td>
</tr>
<tr>
<td>Output mode:</td>
<td>Constant, Burst, Surge (EMS), Sweep, Random</td>
</tr>
<tr>
<td>Safety class according to IEC 60601-1</td>
<td>Internally powered equipment, Type BF</td>
</tr>
<tr>
<td>Dimensions</td>
<td>61 (W) x 37 (D) x 122 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>120 g (without batteries)</td>
</tr>
</tbody>
</table>
Radio frequency Therapy

Radio frequency therapy is a new treatment which uses heat conduction within tissue combined with therapeutic massage. Using this method, the body can be heated using internal energy and natural auto-repair mechanism found within tissue and muscle.

Features
- Touch panel for easy operation
- Provided with two emission modes: Capacitive mode & Resistive mode
- Specially designed handpiece can be used for both emission modes without changing the applicator
- Over 60 pathologies with 3D pictures and protocols description by phase
- Bio-transfer System is installed which can measure the quantity of energy transferred to the tissues
- AVx Mode allows the integration of 2 new modes: Automatic mode & Automatic Pulse mode
- Adjustable Pulse Mode is installed which can adjust energy supply at time intervals

Specifications
- Power supply: AC 100~240 V, 50/60 Hz
- Power: 120 W effective (350 Wpp)
- Display: Color TFT 5.7” Touch screen
- Emission mode: Capacitive mode & Resistive mode
- Preset protocol: Over 60
- Dimensions: 320 (W) x 249 (D) x 130 (H) mm
- Weight: 1.8 kg
The mechanism of shortwave therapy

Shortwave therapy presently uses a frequency of 27.12 MHz (11-m wavelength). The electric-field methods used in shortwave therapy comprise capacitor (condenser) electric-field methods and inductor (coil) electric-field methods. Shortwaves in the form of electromagnetic radiation are absorbed by the body, generating molecular rotational movement and a displacement current within the body, in accordance with the Maxwell equation. The unique wave motion of electromagnetic radiation propagates deep inside the body allowing tissue to be heated.

**SW-1000** Pulsed & Continuous Shortwave

**Features**
- 1000 W pulsed and 400 W continuous maximum power output
- 10 effective clinical programs
- Choice of output modes: pulsed 3 in 3, 2 in 3, 1 in 3 or continuous
- 16 programmable memories
- Capacitive, inductive disk or plate applicators
- Automatic tuning
- Easy-to-read indications on large color touch screen

**Specifications**
- **Power supply**: AC 100–240 V 50/60 Hz
- **Frequency**: 27.12 MHz
- **Output power**: 1000 W (maximum Peak Power) in Pulsed mode
- **Safety class according to IEC 60601-1**: Class I, Type BF
- **Dimensions**: 470 (W) x 470 (D) x 940 (H) mm
- **Weight**: 38 kg (without electrodes)
  - Country of origin: England

**Ordering Data**

<table>
<thead>
<tr>
<th>Standard Kit</th>
<th>8004801</th>
<th>8004802</th>
<th>8004803</th>
<th>8004804</th>
<th>8004805</th>
<th>8004806</th>
<th>8004807</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW-1000</td>
<td>100 mm Capacitive Electrodes and Cables, 2pcs/pack</td>
<td>Output Test</td>
<td>50 mm Capacitive Electrodes and Cables, 2pcs/pack</td>
<td>Monopulse Inductive Applicator</td>
<td>Flexipulse Inductive Applicator</td>
<td>8004804</td>
<td>Rubber Pad Electrodes 180 × 120 mm with 4 Felt Spacers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Optional Accessories**

- 2pcs of Felt Spacers only, for above, 180 × 120 mm

**Ordering Data**

<table>
<thead>
<tr>
<th>Standard Kit</th>
<th>8004801</th>
<th>8004802</th>
<th>8004803</th>
<th>8004804</th>
<th>8004805</th>
<th>8004806</th>
<th>8004807</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW-180</td>
<td>Condenser Disk-applicator with Cable, 2pcs/pack</td>
<td>Power Supply Cord (220–240 V, Type F)</td>
<td>Power Supply Cord (110–120 V, Type A)</td>
<td>Arm Unit, 2x</td>
<td>Test Tube</td>
<td>Power Supply Cord (220–240 V, Type F)</td>
<td>Power Supply Cord (110–120 V, Type A)</td>
</tr>
</tbody>
</table>

**Features**
- Low interference level
- Large LCD screen
- Solid state
- Automatic tuning
- Capacitive, inductive, disk or plate applicators
- Twenty-eight (28) free program memories
- Simultaneously displays both preset and actual values

**Specifications**
- **Power supply**: AC 100–120 or 220–240 V 50/60 Hz
- **Frequency**: 27.12 MHz ± 162.72 kHz
- **Output power (max.)**: 80 W (peak), 3–30 W (mean): Pulsed Mode
- **Safety class according to IEC 60601-1**: Class I, Type BF
- **Dimensions**: 380 (W) x 320 (D) x 835 (H) mm
- **Weight**: 26 kg

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**Features**

- **Pulsed and Continuous Mode:** The PM-810® offers both Pulsed and Continuous modes. Note: A Continuous mode is available on the PM-810®, and not on the PM-820.

- **New Type Applicator:** A new applicator intermediate in size between the conventional Circular and Rectangular applicators, was designed specifically for clinical applications for dramatically improved convenience. Users no longer need to change the applicator, even when using applicators for different purposes or in different treatment areas.

- **Space-saving Design:** The unit is 12 cm narrower and 6 cm shallower than products in the PM-800 series, with volumes reduced by as much as 65%.

- The smaller dimensions give the unit a sleek look, even when installed in a small, cramped treatment room.

- **New Alternate Oscillation Mode** (PM-820 only)
  - Advantages of alternate oscillation mode:
    1) Two patients can be treated simultaneously.
    2) The treatment area and related nerves can be irradiated simultaneously, reducing treatment time and creating synergetic effects.

**Specifications**

- **Power supply:** AC 110 or 220–240 V ± 10% 50/60 Hz
- **Frequency:** 27.12 MHz ± 162.72 kHz
- **Output Power:** 132 W (peak), 44 W (mean)
- **Timer:** 0–30 minutes
- **Safety class according to IEC 60601-1:** Class I, Type BF
- **Dimensions:** 330 (W) x 395 (D) x 790 (H) mm
- **Weight:** 28 kg (PM-810®), 36 kg (PM-820®)

---

**Ordering Data**

**Standard Kit**

1. **PM-810® complete with standard accessories, including:**
   - 011623: Coiled Disk-applicator with Cable, 011627: Arm Unit for 011623 or 011624
   - 011605: Mobile Cart
   - B080234: Core Filter, 5x
   - B180157: Power Supply Cord (220–240 V, Type F) or B180349: Power Supply Cord (110–120 V, Type A)

2. **PM-820 complete with standard accessories, including:**
   - 012040: Rectangular Applicator with HF Cable, 290 mm in width
   - 012041: Rectangular Applicator with HF Cable, 290 mm in width
   - B151196: Tool for Tightening Arm Joint
   - B180350: Power Supply Cord (220–240 V, Type F) or B180349: Power Supply Cord (110–120 V, Type A)

---

**Features**

- **Vertical, space-saving design:** The main unit measures a mere 194 mm in width for use in confined spaces. The unit can be mounted on the supplied mobile cart or simply set on a desktop.

- **Wide range of applicators:** Capacitive or Inductive applicators or Disc or Plate applicators, to achieve the optimal match for a treatment objective.

- **Solid-state oscillation and Auto-tuning functions**

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**Ordering Data**

**Standard Kit**

1. **PM-810® complete with standard accessories, including:**
   - 012460: Rectangular Applicator with HF Cable, 290 mm in width

2. **PM-820 complete with standard accessories, including:**
   - 012460: Rectangular Applicator with HF Cable, 290 mm in width
   - B151196: Tool for Tightening Arm Joint
   - B180350: Power Supply Cord (220–240 V, Type F) or B180349: Power Supply Cord (110–120 V, Type A)

---

**Specifications**

- **Power supply:** AC 110, 220, 230 V ± 10% 50/60 Hz
- **Frequency:** 2450 MHz ± 50 MHz
- **Output power:** Pulsed: max. 100 W (mean) power, a fixed peak power of 1500 W Continuous: max. 150 W
- **Timer:** 0–30 minutes
- **Safety class according to IEC 60601-1:** Class I, Type B
- **Dimensions:** 330 (W) x 395 (D) x 790 (H) mm
- **Weight:** 28 kg (PM-810®), 36 kg (PM-820®)
**HOT MAGNER**

with magnetic field, vibrations and heat

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**Power Supply**

- **HM-101**
  - AC 100–240 V 50/60 Hz
- **HM-202**
  - AC 110–240 V 50/60 Hz
- **HM-204**
  - AC 100–240 V 50/60 Hz

**Number of channels**

- 1
- 2
- 4

**Temperature Control**

- 4 steps
- 4 steps
- 4 steps

**Dimensions**

- 240 (W) x 225 (D) x 125 (H) mm
- 450 (W) x 300 (D) x 205 (H) mm
- 440 (W) x 300 (D) x 320 (H) mm
- 440 (W) x 300 (D) x 320 (H) mm

**Weight**

- 5 kg
- 12 kg
- 13 kg
- 19 kg

**Safety class according to IEC 60601-1**

- Class 2, Type B

---

**Magnetotheraphy with pleasant heat and 1/1 fluctuations**

An alternating pulsed magnetic field (PRMF) is used to vary the strength and direction of the magnetic flux with a constant rhythm, in order for the magnetic flux to act effectively in balance with the body. Magnetic flux alters the electric potential of nerves and cells, providing pain-relief effects and healing of injured tissue. A semi-Markov series is used to generate a pleasing "1/1 fluctuation" biological rhythm, which ensures even more pleasant treatment.

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**Optional Accessories**

- **Standard Kit** HM-202 complete with standard accessories, including
  - 8004255 Super Magner Pack MS (4PIN) 390 x 200 x 25 mm (w/pack cover), 2x
  - 8004222 Strap (S), 50 x 1200 mm, 2x
  - 8004223 Magnetic Detector

- **Optional Accessories**
  - 8004255 Super Magner Pack MS (4PIN) 390 x 200 x 25 mm (w/pack cover), 2x
  - 8004222 Strap (S), 50 x 1200 mm, 2x
  - 8004223 Magnetic Detector

**Ordering Data**

**Standard Kit**

- HM-202 complete with standard accessories, including
  - 8004255 Super Magner Pack MS (4PIN) 390 x 200 x 25 mm (w/pack cover), 2x
  - 8004222 Strap (S), 50 x 1200 mm, 2x
  - 8004223 Magnetic Detector

**HM-204 complete with standard accessories, including**

- 8004255 Super Magner Pack MS (4PIN) 390 x 200 x 25 mm (w/pack cover), 2x
- 8004222 Strap (S), 50 x 1200 mm, 2x
- 8004223 Magnetic Detector

**HM-204 complete with standard accessories, including**

- 8004255 Super Magner Pack MS (4PIN) 390 x 200 x 25 mm (w/pack cover), 2x
- 8004222 Strap (S), 50 x 1200 mm, 2x
- 8004223 Magnetic Detector

**HM-2SC-A complete with standard accessories, including**

- 8004269 Super Magner Pack LX (4PIN) 470 x 200 x 25 mm (w/pack cover), 2x
- 8004222 Strap (S), 50 x 1200 mm, 2x
- 8004223 Magnetic Detector

**HM-101 complete with standard accessories, including**

- 8004255 Super Magner Pack MS (4PIN) 390 x 200 x 25 mm (w/pack cover), 2x
- 8004222 Strap (S), 50 x 1200 mm, 2x
- 8004223 Magnetic Detector

**Optional Accessories**

- 8004255 Super Magner Pack MS (4PIN) 390 x 200 x 25 mm (w/pack cover), 2x
- 8004222 Strap (S), 50 x 1200 mm, 2x
- 8004223 Magnetic Detector

**Traction Packages**

- **Fixed Traction Table Packages**, including
  - TM-400 + Table + 10 Memor. + 30 Traction
  - 800740 Traction Table Package, including 2 Amynti/Harien, 160 x 380 mm
  - 800770 Traction Table Package (with 4 steps), 220 x 500 mm
  - 811747 Cardiac Harman
  - 811786 Public Harman
  - 812088 Spreader Bar

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**Power Supply**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>HM-101</th>
<th>HM-25CA</th>
<th>HM-202</th>
<th>HM-204</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>AC 100–240 V 50/60 Hz</td>
<td>AC 110–240 V 50/60 Hz</td>
<td>AC 100–240 V 50/60 Hz</td>
<td>AC 100–240 V 50/60 Hz</td>
</tr>
<tr>
<td>Number of channels</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Temperature Control</td>
<td>4 steps</td>
<td>4 steps</td>
<td>4 steps</td>
<td>4 steps</td>
</tr>
<tr>
<td>Dimensions</td>
<td>240 (W) x 225 (D) x 125 (H) mm</td>
<td>450 (W) x 300 (D) x 205 (H) mm</td>
<td>440 (W) x 300 (D) x 320 (H) mm</td>
<td>440 (W) x 300 (D) x 320 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>5 kg</td>
<td>12 kg</td>
<td>13 kg</td>
<td>19 kg</td>
</tr>
<tr>
<td>Safety class according to IEC 60601-1</td>
<td>Class 2, Type B</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Features**

- Large and high-visibility LCD screen. Screen display in ten languages.
- Eight (8) traction modes: intermittent, static, progressive, regressive, cyclic, and combinations thereof.
- Pulling speed selectable from five preset values.
- The number of ramp steps and the pause time of each step are selectable. Combining these parameters with pulling speed and traction mode makes the model suitable for various symptoms.
- Thirty (30) free program memories.
- Automatic calibration of traction force to maintain correct traction force (PAT.P).
- Both the set value and the actual value are displayed on the screen.
- One of three melodies signaling the end of therapy can be selected to distinguish which system has completed therapy.
- Pleasant touch key sound. Either monotone or sol-fa sounds can be selected.
By using a proprietary measurement method (PAT.P) the device displays muscle force, tissue hardness and degree of pain in numerical values to allow objective evaluations. Measurement results are printed by wireless Bluetooth link. Helps ensure efficient, high-quality therapy.

**Features**

**OE-210**
- **Dynamometer (MMT):** The OE-210 uses a dedicated measuring device to convert muscle force into a numerical value. This allows objective evaluations of muscle strength and eliminates subjective assessments.
- **Tissue Hardness Meter:** By expressing the hardness of soft tissue as a numerical value, the OE-220 allows objective evaluations of the effectiveness of a course of therapy for muscle damage and other disorders, as well as objective assessments of muscle fatigue.
- **Algometer:** It allows pain to be expressed as a numerical value. Numerical values can be used as indices to assess the effectiveness of a course of therapy, eliminating reliance on the examinee’s self-reported subjective pain assessments.

**Specifications**

- **Power supply:** DC 9V battery (non-rechargeable type)
- **Power consumption:** 500 mVA ±15% or lower
- **Safety class according to IEC 60601-1:** Internally powered equipment, Type B
- **Weight (main unit):** 350 g (without a battery)
- **Measurement detection section:**
  - Max. 100 kgf load cell x 1 (OE-210)
  - Max. 20 kgf load cell x 2 (OE-220)
- **Measurement accuracy:** 5% or lower (full scale)

**Bluetooth specifications**

- **Firmware version:** Bluetooth Ver. 2.0 + EDR compatibility
- **Supporting profile:** SPP (Serial Port Profile)
- **Output class:** Class 2
- **Communication system:** FHSS (frequency hopping system)
- **Maximum distance between device and printer:** Approximately 10 m
- **Frequency bandwidth:** 2.4 GHz bandwidth (2400 to 2480 MHz)
- **Baud rate:** 9600 bps

*NOTE: Confirm the Radio Law of your country before use.*

**OE-220 — Two functions in one unit**
- **Dynamometer (MMT) & Tissue Hardness Meter/Algometer Combo:**
  - **Dynamometer (MMT):** The OE-220 uses a dedicated measuring device to convert muscle force into a numerical value. This allows objective evaluations of muscle strength and eliminates subjective assessments.
  - **Tissue Hardness Meter:** By expressing the hardness of soft tissue as a numerical value, the OE-220 allows objective evaluations of the effectiveness of a course of therapy for muscle damage and other disorders, as well as objective assessments of muscle fatigue.
  - **Algometer:** It allows pain to be expressed as a numerical value. Numerical values can be used as indices to assess the effectiveness of a course of therapy, eliminating reliance on the examinee’s self-reported subjective pain assessments.

**Ordering Data**

**Standard Kit**
- OE-210: Dynamometer (MMT), including
  - 012012: Dynamometer Attachment Large
  - 012013: Dynamometer Attachment Small
- OE-220: Tissue Hardness Meter/Algometer Combo, including
  - 013018: Tissue Hardness Meter Attachment Small
  - 013019: Tissue Hardness Meter Attachment Large
  - 012016: Algometer Attachment Small
  - 012017: Algometer Attachment Large
- 012018: Trap

**Ordering Data**

**Standard Kit**
- OE-210: Dynamometer (MMT), including
  - 012012: Dynamometer Attachment Large
  - 012013: Dynamometer Attachment Small
- OE-220: Tissue Hardness Meter/Algometer Combo, including
  - 013018: Tissue Hardness Meter Attachment Small
  - 013019: Tissue Hardness Meter Attachment Large
  - 012016: Algometer Attachment Small
  - 012017: Algometer Attachment Large
- 012018: Trap

**NOTE:** Batteries are not included.

**NOTE:** Confirm the Radio Law of your country before use.

**Try the various stimulation modes and preset programs available with this new model for cases that previously could not be well cured by similar units due to their limited stimulation modes.**

**Features**

- **Wireless printing by Bluetooth link**
- **Measurement results are easily printed with the CITIZEN branded CMP-10BT Bluetooth printer.**
  - The printer isn’t included in the standard kit.

**Specifications**

- **Power supply:** DC 6 V, 4 x R14 battery
- **Number of channels:** 6
- **Current amplitude (max.):** 32 mA ±25 % (peak)
- **Safety class according to IEC 60601-1:** Internally powered equipment, Type BF
- **Dimensions:** 239 x 174 x 41 (H) mm
- **Weight:** 600 g (without batteries)
The most popular unit among acupuncturists in the world

**Features**
- For busy clinics that require multiple units
- Easy to carry
- Low / High intensity settings
- Built-in battery checker

---

**Specifications**

**Power supply**
- 1 x DC 9 V battery

**Frequency**
- 50-500 Hz, variable

**Maximum output voltage**
- 30 V ± 15 % (at 500 Ω load)

**Current amplitude (max.)**
- 14 mA ± 20 % rms (at 500 Ω load)

**Phase duration**
- 100 µs

**Number of channels**
- 3

**Safety class according to IEC 60601-1**
- Internally powered equipment, Type BF

**Dimensions**
- 63 (W) x 27 (D) x 96 (H) mm

**Weight**
- 120 g (without a battery)

---

**Features**
- Cooling system for continuous use — sturdy enough for long massage periods
- Durable body construction for professional use
- Horizontal circular motion which most effectively relieves muscular fatigue and pain
- Two speeds — a high / low speed selector

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**Specifications**

**Power supply**
- AC 110, 120, 220 or 240 V, 50/60 Hz

**Turning Ratio**
- High: 2,720–3,100 rpm
- Low: 1,440–1,750 rpm

**Weight**
- 3 kg

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**Ordering Data**

**Standard Kit**
- SR-300 or T-300 complete with standard accessories, including:
  - 8004919: Carrying Bag
  - 8104815: Electrode Cable with Clips (Silicon)
  - 8104814: Electrode Cable with Clips (Silicon)
  - NGB: A battery isn’t included.

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**Infrared Lamp (Stand-alone, Desktop)**

**SR-300 / T-300**

**Specifications**

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Stand-alone SR-300</th>
<th>Desktop T-300</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 110 or 220 V, 50/60 Hz</td>
<td>300 W</td>
<td>300 W</td>
</tr>
<tr>
<td>Weight</td>
<td>10 kg</td>
<td>10 kg</td>
</tr>
</tbody>
</table>

---

**Ordering Data**

**Standard Kit**
- SR-300 or T-300 complete with standard accessories, including:
  - 8104919: Infrared Lamp Bulb for SR-300 or T-300
  - 8004919: Timer for SR-300 or T-300
## Commodity order code list

### Electrotherapy/Ultrasound Combo

#### EU-941

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>012410</td>
<td>Ultrasound Probe (S)</td>
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</tr>
<tr>
<td>B180354</td>
<td>Electrode Cable (Brown)</td>
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<tr>
<td>B180355</td>
<td>Electrode Cable (Red)</td>
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<tr>
<td>B180356</td>
<td>Electrode Cable (Orange)</td>
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<tr>
<td>B180357</td>
<td>Electrode Cable (Yellow)</td>
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<tr>
<td>011151</td>
<td>Rubber Electrode (M), 60 x 55mm, 2pcs/pack, 4x</td>
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<tr>
<td>011150</td>
<td>Electrode Sponge A (S), 50 x 30mm, 2pcs/pack, 4x</td>
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<td>011149</td>
<td>Electrode Sponge A (L), 120 x 80mm, 4pcs/pack</td>
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<td>011147</td>
<td>Electrode Sponge A (S), 70 x 45mm, 2pcs/pack</td>
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<td>011136</td>
<td>Hi/DIC Probe</td>
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<tr>
<td>011122</td>
<td>MCR (Monocurrent) Probe, 2pcs/pack</td>
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</tbody>
</table>

#### SU-540

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>011711</td>
<td>Electrode Hose (Blue), 2x</td>
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<tr>
<td>011712</td>
<td>Electrode Hose (Gray), 2x</td>
<td></td>
</tr>
<tr>
<td>012999</td>
<td>Vacuum Electrode B (S), 600 x 360mm, 4x</td>
<td></td>
</tr>
<tr>
<td>012400</td>
<td>Vacuum Electrode B (S), 600 x 240mm, 4x</td>
<td></td>
</tr>
<tr>
<td>011276</td>
<td>Electrode Sponge B (S), 60 x 30mm, 4pcs/pack</td>
<td></td>
</tr>
<tr>
<td>B180552</td>
<td>Power Supply Cord (220–240 V, Type F) or (20 V, only North America, Type A)</td>
<td></td>
</tr>
<tr>
<td>B180555</td>
<td>Power Supply Cord (110–120 V, Type A)</td>
<td></td>
</tr>
</tbody>
</table>

#### EU-920

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>011151</td>
<td>Rubber Electrode (M), 60 x 55mm, 2pcs/pack, 4x</td>
<td></td>
</tr>
<tr>
<td>011148</td>
<td>Electrode Sponge A (S), 60 x 30mm, 2pcs/pack, 4x</td>
<td></td>
</tr>
<tr>
<td>B180534</td>
<td>Electrode Cable (Brown)</td>
<td></td>
</tr>
<tr>
<td>B180535</td>
<td>Electrode Cable (Red)</td>
<td></td>
</tr>
<tr>
<td>B180536</td>
<td>Electrode Cable (Orange)</td>
<td></td>
</tr>
<tr>
<td>B180537</td>
<td>Electrode Cable (Yellow)</td>
<td></td>
</tr>
<tr>
<td>011655</td>
<td>Strap (S), 80 x 1200mm, 4x</td>
<td></td>
</tr>
<tr>
<td>011654</td>
<td>Strap (S), 80 x 600mm, 4x</td>
<td></td>
</tr>
<tr>
<td>011995</td>
<td>Ultrasound Probe (S)</td>
<td></td>
</tr>
<tr>
<td>B120719</td>
<td>Ultrasound Probe Holder</td>
<td></td>
</tr>
<tr>
<td>B12056</td>
<td>Power Supply Cord (220–240 V, Type F) or (20 V, only North America, Type A)</td>
<td></td>
</tr>
<tr>
<td>012061</td>
<td>Probe Holder</td>
<td></td>
</tr>
</tbody>
</table>

### Ultrasound

#### US-751

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>012301</td>
<td>Ultrasound Probe (L)</td>
<td></td>
</tr>
<tr>
<td>012330</td>
<td>Ultrasound Probe (S) (Canada version)</td>
<td></td>
</tr>
<tr>
<td>B120612</td>
<td>Ultrasound Gel (250 ml)</td>
<td></td>
</tr>
<tr>
<td>012396</td>
<td>Probe Holder (with magnet)</td>
<td></td>
</tr>
<tr>
<td>B004611</td>
<td>Core Filter</td>
<td></td>
</tr>
<tr>
<td>B180672</td>
<td>Power Supply Cord (220–240 V, Type F) or (20 V, only North America, Type A)</td>
<td></td>
</tr>
<tr>
<td>B180676</td>
<td>Power Supply Cord (110–120 V, Type A)</td>
<td></td>
</tr>
<tr>
<td>B180673</td>
<td>Power Supply Cord (110–120 V, only North America, Type B)</td>
<td></td>
</tr>
</tbody>
</table>

#### US-1011L/US-1035S

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>012355</td>
<td>Protective Cap for US-1011 Probe</td>
<td></td>
</tr>
<tr>
<td>B120612</td>
<td>Ultrasound Gel (250 ml)</td>
<td></td>
</tr>
<tr>
<td>012356</td>
<td>AC Adaptor (100–240 V)</td>
<td></td>
</tr>
<tr>
<td>B12066</td>
<td>Power Supply Cord (220–240 V, Type F) or (20 V, only North America, Type A)</td>
<td></td>
</tr>
<tr>
<td>B180676</td>
<td>Power Supply Cord (110–120 V, only North America, Type B)</td>
<td></td>
</tr>
<tr>
<td>B180673</td>
<td>Power Supply Cord (110–120 V, only North America, Type B)</td>
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</tr>
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</table>

#### US-750

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>011387</td>
<td>Ultrasound Probe (S)</td>
<td></td>
</tr>
<tr>
<td>B12066</td>
<td>Probe Holder</td>
<td></td>
</tr>
<tr>
<td>B120652</td>
<td>Ultrasound Gel (250 ml)</td>
<td></td>
</tr>
<tr>
<td>B18056</td>
<td>Power Supply Cord (220–240 V, Type F) or (20 V, only North America, Type A)</td>
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</tr>
<tr>
<td>B180559</td>
<td>Power Supply Cord (110–120 V, only North America, Type B)</td>
<td></td>
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</tbody>
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### Electrotherapy

#### ES-522

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>011151</td>
<td>Rubber Electrode (M), 60 x 55mm, 2pcs/pack, 2x</td>
<td></td>
</tr>
<tr>
<td>011146</td>
<td>Electrode Sponge A (S), 80 x 60mm, 2pcs/pack, 2x</td>
<td></td>
</tr>
<tr>
<td>B180613</td>
<td>Electrode Cable (Gray)</td>
<td></td>
</tr>
<tr>
<td>B180614</td>
<td>Electrode Cable (Blue)</td>
<td></td>
</tr>
<tr>
<td>011655</td>
<td>Strap (S), 80 x 1200mm, 2x</td>
<td></td>
</tr>
<tr>
<td>011654</td>
<td>Strap (S), 80 x 600mm, 2x</td>
<td></td>
</tr>
<tr>
<td>B180562</td>
<td>Power Supply Cord (220–240 V, Type F) or (20 V, only North America, Type A)</td>
<td></td>
</tr>
<tr>
<td>B180559</td>
<td>Power Supply Cord (110–120 V, Type A)</td>
<td></td>
</tr>
</tbody>
</table>

#### ES-512

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
<th>Standard Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>011151</td>
<td>Rubber Electrode (M), 60 x 55mm, 2pcs/pack, 2x</td>
<td></td>
</tr>
<tr>
<td>011146</td>
<td>Electrode Sponge A (S), 80 x 60mm, 2pcs/pack, 2x</td>
<td></td>
</tr>
<tr>
<td>B180613</td>
<td>Electrode Cable (Gray)</td>
<td></td>
</tr>
<tr>
<td>B180614</td>
<td>Electrode Cable (Blue)</td>
<td></td>
</tr>
<tr>
<td>011655</td>
<td>Strap (S), 80 x 1200mm, 2x</td>
<td></td>
</tr>
<tr>
<td>011654</td>
<td>Strap (S), 80 x 600mm, 2x</td>
<td></td>
</tr>
<tr>
<td>B180562</td>
<td>Power Supply Cord (220–240 V, Type F) or (20 V, only North America, Type A)</td>
<td></td>
</tr>
<tr>
<td>B180559</td>
<td>Power Supply Cord (110–120 V, Type A)</td>
<td></td>
</tr>
</tbody>
</table>
# Commodity order code list

## Electrotherapy

### ES-521

<table>
<thead>
<tr>
<th>Code</th>
<th>Optional Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>011152</td>
<td>Rubber Electrode (L), 100 x 60 mm, 2pcs/pack</td>
</tr>
<tr>
<td>011150</td>
<td>Rubber Electrode (S), 50 x 30 mm, 2pcs/pack</td>
</tr>
<tr>
<td>011149</td>
<td>Electrode Sponge A (L), 120 x 80 mm, 2pcs/pack</td>
</tr>
<tr>
<td>011147</td>
<td>Electrode Sponge A (S), 70 x 45 mm, 2pcs/pack</td>
</tr>
<tr>
<td>B010306</td>
<td>Self-adhesive Electrode, 49 x 49 mm, 4pcs/pack</td>
</tr>
<tr>
<td>B010476</td>
<td>Self-adhesive Electrode, 89 x 51 mm, 4pcs/pack</td>
</tr>
<tr>
<td>B010816</td>
<td>Self-adhesive Electrode, 432 x 44mm, 4pcs/pack</td>
</tr>
<tr>
<td>011343</td>
<td>MCR (Microcurrent) Probe, 2pcs/pack</td>
</tr>
<tr>
<td>011770</td>
<td>HiVAC Probe</td>
</tr>
<tr>
<td>B011767</td>
<td>EST Cable for combo use with ES-521</td>
</tr>
</tbody>
</table>

### ES-420

<table>
<thead>
<tr>
<th>Code</th>
<th>Optional Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>01152</td>
<td>Rubber Electrode (L), 100 x 60 mm, 2pcs/pack</td>
</tr>
<tr>
<td>011150</td>
<td>Rubber Electrode (S), 50 x 30 mm, 2pcs/pack</td>
</tr>
<tr>
<td>011149</td>
<td>Electrode Sponge A (L), 120 x 80 mm, 2pcs/pack</td>
</tr>
<tr>
<td>011147</td>
<td>Electrode Sponge A (S), 70 x 45 mm, 2pcs/pack</td>
</tr>
<tr>
<td>B010306</td>
<td>Self-adhesive Electrode, 49 x 49 mm, 4pcs/pack</td>
</tr>
<tr>
<td>B010476</td>
<td>Self-adhesive Electrode, 89 x 51 mm, 4pcs/pack</td>
</tr>
<tr>
<td>B010816</td>
<td>Self-adhesive Electrode, 432 x 44mm, 4pcs/pack</td>
</tr>
</tbody>
</table>

### TENS 120Z

<table>
<thead>
<tr>
<th>Code</th>
<th>Optional Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>011146</td>
<td>Electrode Sponge A (B), 80 x 45 mm, 2pcs/pack</td>
</tr>
<tr>
<td>011210</td>
<td>Self-adhesive Electrode, 49 x 49 mm, 4pcs/pack</td>
</tr>
<tr>
<td>B010474</td>
<td>Self-adhesive Electrode, 89 x 51 mm, 4pcs/pack</td>
</tr>
<tr>
<td>B010823</td>
<td>Strap L, 45 x 1200 mm</td>
</tr>
<tr>
<td>B010820</td>
<td>Strap S, 45 x 600 mm</td>
</tr>
</tbody>
</table>

## Standard Kit

### TENS 120Z

- 011146: Electrode Sponge A (B), 80 x 45 mm, 2pcs/pack
- 011210: Self-adhesive Electrode, 49 x 49 mm, 4pcs/pack
- B010474: Self-adhesive Electrode, 89 x 51 mm, 4pcs/pack
- B010823: Strap L, 45 x 1200 mm
- B010820: Strap S, 45 x 600 mm

## SU-520

<table>
<thead>
<tr>
<th>Code</th>
<th>Optional Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>011171</td>
<td>Electrode Hose (Blue)</td>
</tr>
<tr>
<td>011172</td>
<td>Electrode Hose (Gray)</td>
</tr>
<tr>
<td>012399</td>
<td>Vacuum Electrode B (S), Ø80 (Gray), 2x</td>
</tr>
<tr>
<td>012400</td>
<td>Vacuum Electrode B (S), Ø80 (Blue), 2x</td>
</tr>
<tr>
<td>011176</td>
<td>Electrode sponge B (S), Ø70, 4pcs/pack, 2x</td>
</tr>
<tr>
<td>B180562</td>
<td>Power Supply Cord (220~240 V, Type F)</td>
</tr>
<tr>
<td>B180565</td>
<td>Power Supply Cord (110~120 V, Type A)</td>
</tr>
<tr>
<td>B180566</td>
<td>Power Supply Cord (110~120 V only North America, Type B)</td>
</tr>
</tbody>
</table>

### Standard Kit

- B120671: AC Adaptor (220~240 V)
- B010373: Electrode Hose, 2x
- B200183: Carrying Bag

## SW-1000

### Standard Kit

- 010483: 100 mm Capacitive Electrode and Cables, 2pcs/pack
- 010508: Output Tester

## SW-180

### Standard Kit

- 010442: Condenser Disk-applicator with cable, Ø70, 2pcs/pack
- 011198: Arm Unit, 2x
- B180010: Test Tube
- B180157: Power Supply Cord (220~240 V, Type F) or
- B180291: Power Supply Cord (110~120 V, Type A)

## SW-201

### Standard Kit

- 011423: Condenser Disk-applicator with cable, Ø70
- 011427: Arm Unit for 011423 or 011424
- 011425: Mobile Cart
- B080224: Core Filler 5x
- B180512: Power Supply Cord (220~240 V, Type F) or
- B180576: Power Supply Cord (110~120 V, Type A)

## Bone Growth Unit

### Standard Kit

- 012005: Ultrasound Probe 1.5 MHz, 3x
- 012097: Probe Retainer with 700 mm Belt, for use with Cast
- 012098: Probe Retainer with 450 mm Belt, for use with Cast
- 012099: Probe Retainer with 470 mm Belt, for use without Cast
- B120100: AC Adaptor (100~240V)
- B120157: Power Cable for AC Adaptor (220~240 V, Type F)

## OSTEOTRONIV

### Standard Kit

- 012056: Carrying Bag
- B120101: Ultrasonic Probe 750 kHz
- B120102: Probe Retainer with 250 mm Belt, for use with Cast
- B120103: Extension Belt, 600 mm
- B010404: Solid Gel Pad, 4pcs/Sheet

## DIA-TKR 800

### Standard Kit

- 006411: Handlepiece
- 006412: Common Cable
- 006413: Tree Cable
- 006419: Patient Button
- 006414: Conductive Crema
- 006415: Creme Diffusor
- 006416: Flat Plate Ø35
- 006417: Flat Plate Ø40
- 006418: Flat Plate Ø40
- 006420: Flat Plate Ø150 x 230 mm
- 006421: Adhesive Plate 2D/2400 mm
- 006423: Electrode 120x30x180 mm
- 006424: Bag

## SW-2001

### Standard Kit

- 01123: Condenser Disk-applicator with cable, Ø70
- 01127: Arm Unit for 01123 or 01124
- 01125: Mobile Cart
- B080224: Core Filler 5x
- B180157: Power Supply Cord (220~240 V, Type F) or
- B180576: Power Supply Cord (110~120 V, Type A)

## SW-2021

### Standard Kit

- 01124: Condenser Disk-applicator with cable, Ø70
- 01148: Coaxial Cable-applicator with cable, Ø50 x 180 mm
- 01125: Coaxial Cable-applicator with cable, Ø50 x 130 mm
- 01126: Condenser Plate-applicator M with cable, Ø10 x 110 mm
- 01130: Condenser Plate-applicator S with cable, Ø50 x 50 mm
- 01121: Condenser Plate-applicator L with cable, Ø50 x 150 mm, Ø10 x 150 mm
- B101858: Strap (L), 45 x 1200 mm
- B101856: Strap (S), 45 x 600 mm
Commodity order code list

**Shortwave & Microwave**

*PM 810*/PM 820

- **Standard Kit**
  - for PM-810
    - 012040 Rectangular Applicator with HF Cable, 290 mm in width
    - 012041 Circular Applicator with HF Cable, 170 mm in diameter
  - for PM-820
    - 012040 Rectangular Applicator with HF Cable, 290 mm in width
    - 012041 Circular Applicator with HF Cable, 170 mm in diameter

**Magnetotherapy**

**HOT MAGNER**

- **Standard Kit**
  - for HM-202
    - 800423 Super Magner Pack MS (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
    - 800422 Strap (L), 50 x 1200 mm, 2x
    - 800423 Magnetic Detector
  - for HM-204
    - 800425 Super Magner Pack MS (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
    - 800424 Super Magner Pack GS (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
  - for HM-25C-A
    - 800426 Super Magner Pack LX (HPN) 470 x 200 x 25 mm (w/pack cover), 2x
    - 800422 Strap (L), 50 x 1200 mm, 2x
    - 800423 Magnetic Detector
  - for HM-101
    - 800429 Super Magner Pack LX (HPN) 470 x 200 x 25 mm (w/pack cover), 2x
    - 800422 Strap (L), 50 x 1200 mm, 2x
    - 800423 Magnetic Detector

**Optional Accessories**

- 012040 Super Magner Pack MS (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
- 012041 Super Magner Pack GS (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
- 012042 Super Magner Pack OS (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
- 012043 Super Magner Pack MX (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
- 012044 Super Magner Pack MX (HPN) 390 x 210 x 25 mm (w/pack cover), 2x
- 012045 Magnet Wire for L, M, N, MS
- 012046 Pack Cover for O, GS
- 012047 Strip (L), 100 x 1200 mm, 2x
- 012048 Strip (S), 50 x 1200 mm, 2x
- 012049 Cart for HM-202, HM-204
- 012050 Cart for HM-25C-A
- 012051 Magnetic Detector
- 012052 Magnet Wire for Conversion Cable

**Traction**

*TM 400*

- **Standard Kit**
  - 011844 Traction Rope Kit
  - 011975 Fixed Height Traction Table, 600 x 2500 mm
  - 011976 Pelvic Harness
  - 011977 Cervical Harness
  - 011978 Pelvic Harness
  - 011990 Thoracic Harness
  - 012003 Spreader Bar
  - 0803760 Armpit Holder, 2pcs/set
  - 0803761 Fixed Height Traction Table including 2 Armpit Holders, 600 x 2500 mm
  - 0803762 Electric Variable Height Traction Table, 640 x 2540 mm

**Optional Accessories**

- 012018 Patient Switch
- 012016 Power Supply Cord (220 V, Type F) or
- 012017 Power Supply Cord (110 V, Type A)
- 012018 Power Supply Cord (220 V, Type F) or
- 012014 Power Supply Cord (110 V, Type A)

**Electricacupuncture**

*ES-160*

- **Standard Kit**
  - 011380 Traction/Neural Probe
  - 011324 Electrode Cable (Black)
  - 011325 Electrode Cable (Brown)
  - 011326 Electrode Cable (Red)
  - 011327 Electrode Cable (Green)
  - 011328 Electrode Cable (Blue)
  - 011329 Electrode Cable (Gray)
  - 08060999 Exclusive Clips (Black), 6x
  - 08061000 Exclusive Clips (Red), 6x

**ES-130**

- **Standard Kit**
  - 08160762 Carrying Bag
  - 08160432 Electrode Cable with Clips (Gray)
  - 08160433 Electrode Cable with Clips (Yellow)
  - 08160434 Electrode Cable with Clips (Green)

**Infrared Lamp**

*SR-300*/T-300

- **Standard Kit**
  - 08049199 Infrared Lamp Bulb for SR-300 or T-300
  - 08049198 Timer for SR-300 or T-300

**Others**

*Trolley-200*

- **Standard Kit**
  - 08102349 Mobile cart for EU series, ES series, US series, and SU series

**Best View Stand**

*[P. 29]*

**Evaluation**

*OE-210/OE-220*

- **Standard Kit**
  - 012012 Dynamometer Attachment (Large curved)
  - 012013 Dynamometer Attachment (Medium)
  - 012014 Dynamometer Attachment (Small)
  - 012018 Strip

**OE-220 Textile Hardness Meter/Allogrammer Combo, including**

- 012015 Textile Hardness Meter/Tip Plate
  - 012017 Allogrammer Tip Attachment (Large)
  - 012018 Allogrammer Tip Attachment (Small)
  - 011991 Paten Switch for Allogrammer
  - 012018 Strip

*SR-300*

- **Standard Kit**
  - 08160164 Triangular tilt stand for EU series

**Best View Stand**

- **Standard Kit**
  - 08102349 Mobile cart for EU series, ES series, US series, and SU series

The trolley provides a large storage basket and drawer for accessories, gel or water bottle tray, electrode cable holders, four lockable caster wheels, a user-friendly handle and two plates on which equipment can be placed.