



EMS Physio Ltd



Product Specification

PRIMO INTERFERENTIAL EMS960

MAY2022 v1



Primo Interferential 960

- Colour touch screen technology
- Three carrier frequencies 2kHz, 4kHz and 8kHz
- 0-100mA peak constant current or 0-70/140v peak constant current voltage depending on mode selected
- Stimulation outputs: two and four pole interferential and medi-wave
- The two independent stimulation channels allow selection of independent waveforms and treatment

Treatment protocols

- Pain relief
- Stimulate local blood flow
- Osteoarthritis knee
- Chronic low back pain
- Acute low back pain
- Fibromyalgia
- Trigger points
- Post operative knee pain
- Stress & urge incontinence

Primo Interferential 960

The Primo Interferential 960 uses a mid-frequency electrical signal to treat muscular spasms and strains which makes it particularly effective in treating acute injuries, especially in sport. The Interferential therapy is used to relieve pain, stimulate muscles and increase blood flow.

Operates in conjunction with EMS vacuum unit if required. (pictured below)

Technical Specification

Power input 18v, 3.33 A external PSU

Internal fuse T3.15A

Battery External Primo Power pack (optional)

Maximum stimulation output: 100mA peak constant current, 140V peak constant voltage

Treatment programmes 16 user-defined set-ups

Treatment timer 0 to 30 minutes (treatment linked)

Language options English, French, German, Spanish, Italian, Vietnamese

Classification (EN60601-1) Class 1, Type BF

Size (height x width x depth) 90 x 230 x 290 mm

Weight 1.3 kg



Ordering information

Primo Interferential 960

Primo Interferential therapy unit with 2/4 pole patient lead, four electrode connection cables (blue and yellow)

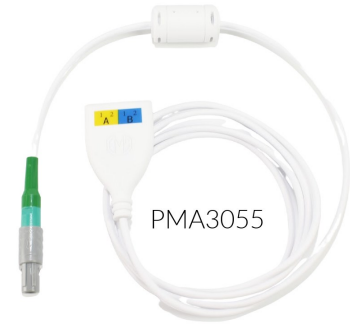
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Electrode pack option 1

Two stretch bandages (1,200 x 75mm) four medium rubber electrodes (100 x 70 mm), and four medium sponge covers

Electrode pack option 2

20 packs of Primo self-adhesive electrodes



NC3058



NC3057



RB5160



RB5164



NC3052B/53B/54B

NC3052A/53A/54A



DU1/DU2/DU4

What is interferential therapy?

Interferential therapy employs medium frequency interferential currents used in 2 or 4-pole configurations to produce a low-frequency stimulation effect. Prior to the introduction of interferential therapy in the mid-1950s, low-frequency stimulation (NMES) was used for pain relief, muscle re-education etc. These currents, however, have the disadvantage that normal human skin has a relatively high impedance at such frequencies. In order to overcome the skin impedance, a larger voltage has to be used to achieve the desired current, resulting in a more uncomfortable treatment for the patient. In addition, the penetration depth of these currents is poor and in part is limited by the discomfort to the patient.

Interferential therapy overcomes the problem of skin impedance. At 50 Hz (faradic current) the impedance for a 100 cm² of skin is approximately 3000 ohms. At 4000 Hz (medium frequency -medi-wave) the skin impedance of the same area is around 50 ohms. This means that a much lower voltage signal can be used to produce the desired current, resulting in less skin sensation and more comfortable treatment. This medium frequency is, however, well outside of the normal biological frequency range (0.1 to 250 Hz).

In order to produce the required stimulation, two medium frequencies are used. A constant frequency of, say, 4000 Hz is applied to one pair of electrodes and a slightly different frequency of say 3900 Hz is applied to the other pair. These two frequencies 'interfere' to produce an amplitude modulated medium frequency (beat frequency) in the tissue. The tissue responds to the cyclic rise and fall in the current intensity. It is the amplitude modulation frequency (AMF) that is within the normal biological frequency range and not the medium frequency (carrier).



Accessory ordering information

Small sponge electrode covers (set of 4) **NC3052A**

Small rubber electrodes (70 x 50 mm - set of 4)
NC3052B

Medium sponge electrode covers (set of 4) **NC3053A**

Medium rubber electrodes (80x60mm - set of 4)
NC3053B

Large sponge electrode covers (set of 4) **NC3054A**

Large rubber electrodes (130 x 100 mm - set of 4)
NC3054B

2/4-pole patient lead **PMA3055**

Blue electrode connection cables (1 pair) **NC3057**

Yellow electrode connection cables (1 pair) **NC3058**

Periform vaginal probe (single patient use - 34mm
diameter) **RB5160**

Anuform anal probe (single patient use - 25mm
diameter) **RB5164**

Stretch bandage - 600 x 75mm **DU1**

Stretch bandage - 1200 x 75mm **DU2**

Stretch bandage - 600 x 50mm **DU4**

Padded carrying case **EMS530**

Treatment trolley **EMS158**

Primo power pack **PMA1960**

PALS platinum self adhesive electrodes (25 mm
diameter, pack of 4) **RB450**

PALS platinum self adhesive electrodes (33 x 54 mm,
pack of 4) **RB410**

PALS platinum self adhesive electrodes (50 x 50 mm,
pack of 4) **RB430**

PALS platinum self adhesive electrodes (80 x 100 mm,
pack of 2) **RB440**

Primo Self-adhesive electrodes (50 x 50mm pack of 4)
RB435

Booklet - EMS Guide to Interferential & Combination
Therapy **EDC303**

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EMS960

EMS Physio Ltd - making it better since 1924

EMS Physio Ltd designs, manufactures and supplies electrotherapy equipment from our purpose-built offices and factory in the UK.

Our products include shockwave therapy products, therapeutic ultrasound units, electrical stimulators and shortwave diathermy products.

We also supply a full range of physiotherapy equipment including treatment couches, exercise equipment, gait analysis, pulse compression therapy units, CPM machines and the general equipment you would expect to find in an established clinic.