

# Electrotherapy and low level laser therapy

## Duoter Plus

Two-channel unit for electrotherapy with one treatment timer.

The unit generates all the most commonly used currents: unidirectional (unipolar) and bidirectional (bipolar) as well as tonolisis used in spastic paralysis rehabilitation.

The unit has the possibility of performing the electrodiagnostics of the nervous-muscle system, in program mode calculating rheobase, chronaxie, as well as threshold, coefficient and quotient of accommodation. Duoter Plus is equipped with magnetic regulators for quick and precise adjustment of current in patient's circuit, which greatly improves comfort of unit's usage.

The extended treatment sequence mode allows putting together even eight different currents in one treatment procedure. It gives tremendous opportunities for differentiation therapeutic effects depending on chosen currents and their parameters.

The unit functionality is additionally extended by the possibility of connecting red or infrared laser probes. Thanks to this solution, the unit may be used as a basic unit for laser therapy.

### SPECIFICATION

#### ELECTROTHERAPY – CURRENTS

- galvanic
- diadynamic (MF,DF,CP,CP-ISO,LP)
- pulse (rectangular, triangle, UR according to Trabert)
- interferential (dynamic, static, one-channel)
- Kotz' /Russian stimulation
- TENS (symmetric, asymmetric, burst)
- tonolisis

#### ELECTRODIAGNOSIS

- semi-automatic determination of the curve I/t
- automatic calculation of the rheobase, chronaxie, coefficient and quotient of accommodation

#### LASER THERAPY (optional)

- point probe R 660 nm/40 mW
- point probe R 650 nm/20 mW
- point probe IR 808 nm/400 mW
- point probe IR 808 nm/200 mW

#### MANUAL MODE

complete control for advanced users



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## Duoter Plus

### TREATMENT PROGRAMS

- simplification of the unit operation
- treatment programs chosen by name
- 80 preset treatment programs for electrotherapy
- 40 preset treatment programs for laser therapy
- 80 user-defined programs
- naming individual user programs

### TREATMENT PROGRAMS SEQUENCES

- simplification of the unit operation
- treatment programs arranged in one treatment procedure
- 20 preset sequences
- up to 8 currents in a sequence
- naming individual user programs



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# Duoter Plus

## Technical specifications

### ERGONOMICS

- two application channels
- operation mode: program/manual
- easy-to-read display
- treatment programs chosen by name
- treatment timer
- amplitude regulation in patient's circuit by knobs

### STRUCTURE

- alphanumeric LCD display
- heavy-duty and reliable keyboard
- stabilization of laser probes power
- self-test – systematic control of the unit

### TECHNICAL PARAMETERS

maximum current voltage in patient's circuit:

galvanic	40 mA
diadynamic, pulse	60 mA
interferential, Kotz', TENS	100 mA

treatment timer 0,5 – 60,5 minutes

mains supply 230 V, 50 Hz, 40 W

unit dimensions 35x26x13,5 cm

weight 4,5 kg

### WARRANTY

Duoter Plus 2 years

laser probes 1 year

### STANDARD ACCESSORIES

- mains cable
- patient's cables
- electrodes
- viscose electrode covers
- elastic velcro belts for fastening
- user guide

### OPTIONAL ACCESSORIES

- laser probe R 660 nm/40 mW with holder
- laser probe R 650 nm/20 mW with holder
- laser probe IR 808 nm/400 mW with holder
- laser probe IR 808 nm/200 mW with holder
- safety goggles for work with laser probes
- point electrodes
- disposable self-adhesive electrodes
- sand-filled bags
- crocodile clips
- lead for combination therapy
- bag for the unit and accessories
- cart

