THERAPY LASERS
Dentistry
alveolitis, analgia, angulus infectiosus, aphta (stomatitis aphthosa),
caries dentis, cicatrix cheloidum, cicatrix recens, contusio,
decubitus, dentitio difficilis-analgia, fractura-analgia, gingivitis,
herpes, hyperaemia pulpae, hypersensibilitas dentinalis, morbus
temporomandibulare, neuralgia nervi trigemini, parodontitis,
periodontitis, postextractio, preparatio, pulpa aperta, pulpitis,
sanatio postoperativa

Dermatology
acne, alopecie, cicatrix cheloidum, cicatrix recens, combustio,
decubitus, dermatitis, dermatitis perioralis, eczema, furunculus,
haematoma, herpes simplex, zoster, lichen planus, rosacea,
sanatio postoperativa, striae, ulcus cruris

Gynaecology
abscessus glandulae, algomenorrhoea, bartholini, cervicitis acuta,
cicatrix cheloidum, cicatrix recens, colpitis acuta, colpitis chronica,
conisatio colli uteri, cystitis, dystrophia vulvae, haematoma, herpes
genitalis, incontinentia urinae, parametritis, pruritus, sanatio
postoperativa, striae, urocystis-irritabilis, vulvitis

ENT
cicatrix recens, furunculus, herpes, otitis media acuta, otitis
media chronica, perforatio membranae tympani traumatici,
pharyngitis, rhinitis vasomotorica, sanatio postoperativa, sanatio
posttrepanationis, sinusitis, tinnitus, tonsillectomia, tonsillitis,
tonsillopharyngitis

Rehabilitation
achillodynie, analgesia, arthritis, arthritis rheumatica, arthritis
uratica, arthrosis, bursitis, calcar calcanei, contusio, decubitus,
distorsio, enthesopathia, epicondylitis, haematoma, chondropathia
patellae, induratio penis plastica, ischialgia, migraena, morbus
dupuytrente, myorelaxatio, neuralgia, oedema, paresis nervi facialis,
sacralgia, spina dorsalis (dorsalgia), spondylarthritis ancylopoetica,
sy. canali carpi, sy. Tietz, sy. vertebralis, tendopathia, tendovaginitis

Neurology
analgia, calcar calcanei, enthesopathia, induratio penis plastica,
ischialgia, migraena, morbus dupuytrente, neuralgia, paresis nervi facialis,
sacralgia, spina dorsalis (dorsalgia), tinnitus

Orthopaedics
achillodynie, bursitis, calgar calcanei, distorsio epicondylitis,
chondropathia patellae, tendopathia, tendovaginitis

Paediatrics
acne, analgia, aphta (stomatitis aphthosa), cicatrix cheloidum,
cicatrix recens, combustio, contusio, dermatitis, eczema,
furunculus, haematoma, herpes, lichen planus, oedema, pruritus,
sanatio postoperativa

General Practitioner
acne, analgia, aphta (stomatitis aphthosa), arthritis, cicatrix
cheloidum, cicatrix recens, combustio, contusio, decubitus,
dermatitis, eczema, furunculus, haematoma, herpes, lichen planus,
oedema, pruritus, sanatio postoperativa, striae, ulcus cruris
The BTL-5110 Laser presents the best in low level laser therapy treatment (LLLT). Modern touch controlled display considerably simplifies the use of the unit. The built-in BTL therapy and user guide will guide you throughout the whole therapy. Based on detailed research and practical use of the unit, the well organised pre-programmed protocols will give you recommendations for treating various conditions. The unit also includes up to 150 free lots to define your own protocols. The wide variability of therapy parameters offers unlimited possibilities for LLLT specialists.

The summary of main features
- Black and white touch screen for easy operation
- 2 outputs for simultaneous connection of red and infrared probes or laser clusters
- Continuous and pulse laser therapy (frequency modulation 0–5000 Hz)
- Wide range of red and infrared laser probes and laser clusters
- Pre-programmed treatment protocols and 150 free lots for user-created protocols
- Laser acupuncture, Nogier and EAV frequencies
- Built-in patient database connecting patient data with treatment protocols
- Built-in BTL therapy guide and on-line help
- Sound volume adjustment, display colour and brightness setting, screen saver, auto switch-off
- Optical attachments for ENT, gynaecology, urology and dentistry

Available upgrades: high resolution colour touch screen 8.4” TFT, large memory capacity (over 500 patients + 500 therapy programmes), fine adjustment of duty factor.

Standard accessories: pen-pointer, holder for accessories, power cord
Optional accessories: colour touch screen, wide range of laser probes (30–400 mW) and clusters (200–1800 mW), optical attachments, acupuncture set, safety eyewear, cart, electrotherapy, magnetotherapy and ultrasound modules

Technical parameters of the BTL-5000 lasers

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modes of operation</td>
<td>Continual and pulse</td>
</tr>
<tr>
<td>Dose</td>
<td>fine adjustable 0.1–99.0 J/cm²</td>
</tr>
<tr>
<td>Frequency</td>
<td>fine adjustable 0.1–5000 Hz, 0.1–10000 Hz (BTL-5110 Laser with colour display)</td>
</tr>
<tr>
<td>Divergent red probes</td>
<td>685 nm/30 mW, 685 nm/50 mW</td>
</tr>
<tr>
<td>Convergent infrared probes</td>
<td>830 nm/50 mW, 830 nm/100 mW, 830 nm/200 mW, 830 nm/300 mW, 830 nm/400 mW</td>
</tr>
<tr>
<td>Red laser cluster</td>
<td>4 × 685 nm/50 mW</td>
</tr>
<tr>
<td>Infrared laser clusters</td>
<td>4 × 830 nm/200 mW, 4 × 830 nm/400 mW</td>
</tr>
<tr>
<td>Combined laser clusters</td>
<td>4 × 685 nm/50 mW + 4 × 830 nm/200 mW, 4 × 685 nm/50 mW + 4 × 830 nm/400 mW</td>
</tr>
<tr>
<td>Laser power</td>
<td>adjustable 20–100%</td>
</tr>
<tr>
<td>Therapy area</td>
<td>adjustable 0.1–99.0 cm²</td>
</tr>
<tr>
<td>Acupuncture</td>
<td>points detection, visual and acoustic signalization, Nogier and EAV frequency</td>
</tr>
<tr>
<td>Duty factor</td>
<td>10–90%</td>
</tr>
<tr>
<td>Laser class</td>
<td>3B</td>
</tr>
<tr>
<td>Mains supply</td>
<td>230 V/50–60 Hz, 115 V/50–60 Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>230 × 390 × 260</td>
</tr>
<tr>
<td>Weight (less accessories)</td>
<td>approx. 4.7 kg</td>
</tr>
</tbody>
</table>
With the BTL unique modular system you can combine electrotherapy, magnetotherapy, laser and ultrasound therapy in one unit with possibility of later upgrade.

Available models:
- BTL-5110 Laser BW 5.7” / Ordering No. P5110.001v110
- BTL-5110 Laser Colour 8.4” TFT / Ordering No. P5110.003v200
The BTL-4110 Laser Professional low level laser therapy unit features the best parameters, ergonomic design and a great flexibility due to the built-in rechargeable battery. The device offers a great selection of specialized therapeutic programmes for physical therapy and other medical areas.

The summary of main features

- Built-in therapeutic protocols and encyclopaedia for: rehabilitation, orthopaedics, sports medicine, dentistry, gynaecology, dermatology, ENT, paediatrics and general practice (see page 3)
- 50 customer designed therapeutic protocols
- Large selection of red and infrared laser probes and laser clusters
- 2 outputs for simultaneous connection of red and infrared probes or laser clusters
- Continuous and pulse laser therapy (frequency modulation 0–5000 Hz)
- Duty factor 10–90%
- Acupuncture set for laser acupuncture
- Nogier and EAV frequencies
- Built-in rechargeable battery
- Optical attachments for ENT, gynaecology, urology and dentistry

Standard accessories: adapter
Optional accessories: wide range of laser probes (30–400 mW) and clusters (200–1800 mW), optical attachments, acupuncture set, safety eyewear, cart, carry case

BTL-4110 Laser Professional / Ordering No. P4110.002v100
The BTL-4110 Laser Optimal therapy unit brings the choice of various programmes used in the LLLT treatment. A wide selection of laser probes is available; two probes can be simultaneously connected.

The summary of main features

- Numeric programmes with pre-set treatment parameters used in rehabilitation, orthopaedics, sports medicine, dentistry, gynaecology, dermatology, ENT, paediatrics and general practice (see page 3)
- 5 customer designed therapeutic protocols
- Large selection of red and infrared laser probes and laser clusters
- 2 outputs for simultaneous connection of red and infrared probes or laser clusters
- Continuous and pulse laser therapy (frequency modulation 0.1–5000 Hz)
- Duty factor 10–90%
- Acupuncture set for laser acupuncture
- Nogier and EAV frequencies
- Optical attachments for ENT, gynaecology, urology and dentistry

Standard accessories: adapter
Optional accessories: wide range of laser probes (30–400 mW) and clusters (200–1800 mW), optical attachments, acupuncture set, safety eyewear, cart, carry case

Technical parameters of the BTL-4000 Lasers

<table>
<thead>
<tr>
<th>Modes of operation</th>
<th>Continual and pulse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dose</td>
<td>fine adjustable 0.1–99.0 J/cm²</td>
</tr>
<tr>
<td>Frequency</td>
<td>fine adjustable 0.1–5000 Hz</td>
</tr>
<tr>
<td>Divergent red probes</td>
<td>685 nm/30 mW, 685 nm/50mW</td>
</tr>
<tr>
<td>Convergent infrared probes</td>
<td>830 nm/50 mW, 830 nm/100 mW, 830 nm/200 mW, 830 nm/300 mW, 830 nm/400 mW</td>
</tr>
<tr>
<td>Red laser cluster</td>
<td>4 × 685 nm/50 mW</td>
</tr>
<tr>
<td>Infrared laser clusters</td>
<td>4 × 830 nm/200 mW, 4 × 830 nm/400 mW</td>
</tr>
<tr>
<td>Combined laser clusters</td>
<td>4 × 685 nm/50 mW + 4 × 830 nm/200 mW</td>
</tr>
<tr>
<td>Laser power</td>
<td>adjustable 20–100%</td>
</tr>
<tr>
<td>Therapy area</td>
<td>adjustable 0.1–99.0 cm²</td>
</tr>
<tr>
<td>Acupuncture</td>
<td>points detection, visual and acoustic signalization, Nogier and EAV frequency</td>
</tr>
<tr>
<td>Duty factor</td>
<td>10–90%</td>
</tr>
<tr>
<td>Laser class</td>
<td>3B</td>
</tr>
<tr>
<td>Mains supply</td>
<td>built-in accumulator (BTL-4110 Professional), adapter 230 V/50–60 Hz, 115 V/50–60 Hz</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>160 × 140 × 350</td>
</tr>
<tr>
<td>Weight (less accessories)</td>
<td>max. 3 kg</td>
</tr>
</tbody>
</table>
The BTL-2000 is a portable and compact yet highly powerful low level laser therapy device. It is designed for easy use and it is understandable even to those who are new to laser therapy. Parameters can be easily changed as desired and your own programmes can be created and stored. The unit’s software allows continuous change of frequency, density, power and area. When a parameter is changed, the unit automatically recalculates the remaining parameters. The BTL-2000 provides a large number of pre-set treatment protocols.

The summary of main features
- Portable unit with heavy duty accumulator and adapter
- Pre-programmed therapy protocols for different specializations (see page 3)
- Free lots for user-designed programmes
- Red and infrared laser probes
- LCD display for an easy operation
- Built-in patient database
- Carry case

Standard accessories: adapter
Optional accessories: wide range of laser probes (30–400 mW), optical attachments, acupuncture set, safety eyewear and carry case

Technical parameters of the BTL-2000 laser

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modes of operation</td>
<td>Continual and pulse</td>
</tr>
<tr>
<td>Dose</td>
<td>fine adjustable 0.1–99.0 J/cm²</td>
</tr>
<tr>
<td>Frequency</td>
<td>fine adjustable 0.1–5000 Hz</td>
</tr>
<tr>
<td>Divergent red probes</td>
<td>685 nm/30 mW, 685 nm/50 mW</td>
</tr>
<tr>
<td>Convergent infrared probes</td>
<td>830 nm/50 mW, 830 nm/100 mW, 830 nm/200 mW, 830 nm/300 mW, 830 nm/400 mW</td>
</tr>
<tr>
<td>Laser power</td>
<td>adjustable 20–100%</td>
</tr>
<tr>
<td>Therapy area</td>
<td>adjustable 0.1–99.0 cm²</td>
</tr>
<tr>
<td>Acupuncture</td>
<td>points detection, visual and acoustic signalization, Nogier and EAV frequency</td>
</tr>
<tr>
<td>Duty factor</td>
<td>10–90%</td>
</tr>
<tr>
<td>Laser class</td>
<td>3B</td>
</tr>
<tr>
<td>Mains supply</td>
<td>built-in accumulator 8×NiCd, adapter 230 V/50–60Hz, 115 V/50–60 Hz</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>130 × 230 × 30</td>
</tr>
<tr>
<td>Weight (less accessories)</td>
<td>0.7 kg</td>
</tr>
</tbody>
</table>
BTL offers a wide range of divergent and convergent red (R) and infrared (IR) laser probes.

While infrared probes penetrate deeper into tissue, red probes are particularly suitable for treatment of superficial areas, such as wounds, scars and haematoma. All IR probes are equipped with green pilot beam.

Choose your probe:

<table>
<thead>
<tr>
<th>Probe</th>
<th>Technical parameters</th>
<th>Ordering No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red probe – divergent</td>
<td>685 nm/ 30 mW</td>
<td>L448.000v200</td>
</tr>
<tr>
<td>Red probe – divergent</td>
<td>685 nm/ 50 mW</td>
<td>L448.020v200</td>
</tr>
<tr>
<td>Infrared probe – convergent</td>
<td>830 nm/ 50 mW green navigation</td>
<td>L448.004v200</td>
</tr>
<tr>
<td>Infrared probe – convergent</td>
<td>830 nm/ 100 mW green navigation</td>
<td>L448.005v200</td>
</tr>
<tr>
<td>Infrared probe – convergent</td>
<td>830 nm/ 200 mW green navigation</td>
<td>L448.006v200</td>
</tr>
<tr>
<td>Infrared probe – convergent</td>
<td>830 nm/ 300 mW green navigation</td>
<td>L448.007v200</td>
</tr>
<tr>
<td>Infrared probe – convergent</td>
<td>830 nm/400 mW green navigation</td>
<td>L448.010v200</td>
</tr>
</tbody>
</table>

OPTICAL ATTACHMENTS

For easy application in ENT, dentistry, urology and gynaecology

- Gynaecology rounded / Ordering No. L449.009v100
- Gynaecology / Ordering No. L449.008v100
- ENT / Ordering No. L449.007v100
- Dentistry / Ordering No. L449.006v100
- Holder of optical attachment / Ordering No. L449.005v413

ACUPUNCTURE SET

Expand your therapy possibilities with acupuncture set for non-invasive laser acupuncture. All BTL lasers include software for detection and stimulation of acupuncture points.

- BTL-4000 & BTL-5000 / Ordering No. S100.003v100
- BTL-2000 / Ordering No. G000.091v500
Laser clusters present modern device for laser therapy of large areas. The beam easily and in short time treats by homogeneous laser field even areas over 50 cm² (for example the area of 50 cm² is treated with laser beam density of 2 J/cm² for only 4 minutes).

Beside the standard laser beam the cluster includes 13 high luminescence LEDs with wavelength of 470 nm suitable for aesthetic applications (acne, hypo-pigmentation, etc). All clusters work in continual as well as pulse mode and they are additionally equipped with blue pilot beam. The laser clusters can be used with both the BTL-4000 and BTL-5000 lasers.

Choose your laser cluster:

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Technical parameters</th>
<th>Ordering number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red cluster</td>
<td>685 nm/200 mW (4×50) Laser + 470 nm/200 mW (13×16) LED blue</td>
<td>L445.003v100</td>
</tr>
<tr>
<td>Infrared cluster</td>
<td>830 nm/800 mW (4×200) Laser + 470 nm/200 mW (13×16) LED blue</td>
<td>L445.001v100</td>
</tr>
<tr>
<td>Infrared cluster</td>
<td>830 nm/1600 mW (4×400) Laser + 470 nm/200 mW (13×16) LED blue</td>
<td>L445.002v100</td>
</tr>
<tr>
<td>Combined cluster</td>
<td>685 nm/200 mW (4×50) Laser + 830 nm/800 mW (4×200) Laser + 470 nm/200 mW (13×16) LED blue</td>
<td>L445.004v100</td>
</tr>
<tr>
<td>Combined cluster</td>
<td>685 nm/200 mW (4×50) Laser + 830 nm/1600 mW (4×400) Laser + 470 nm/200 mW (13×16) LED blue</td>
<td>L445.005v100</td>
</tr>
</tbody>
</table>

Suggested indications:
Red cluster: acne, alopecie, decubitus, dermatitis, eczema, herpes zoster, rosacea, striae, ulcus cruris
Infrared cluster: analgesia, arthritis rheumatica, arthrosis, contusio, decubitus, distorsio, enthesopathia, ischialgia, myorelaxatio, sacralgia, spina dorsalis (dorsalgia), chondropathia patellae

Therapy areas:
- Infrared convergent probe
- Red divergent probe
- Laser cluster contact method
- Laser cluster

50 cm²  25 cm²

Red cluster application  Infrared cluster application
BTL manufactures a range of other products for medical and aesthetic use. For details, please ask for a separate catalogue.

**CARDIOLOGY**
- 1, 3, 6 and 12 channel ECGs
- computer-based ECG
- stress test system
- ECG holters for 24-hour ECG monitoring
- ABPM (ambulatory blood pressure monitoring system)

**PHYSIOTHERAPY**
- electrotherapy
- ultrasound therapy
- magnetotherapy
- combined therapy units
- heat therapy

**COUCHES**
- manually and electrically adjustable couches

**GYNAECOLOGY CHAIRS**
- electrically adjustable gynaecological chairs

**HYDROTHERAPY**
- whole-body baths
- baths for upper and lower extremities
- obstetrics bath
- Scotch douche