



# HIGH INTENSITY LASER





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# HIGH INTENSITY LASER

## MILESTONE IN LASER THERAPY

The BTL High Intensity Laser technology is based on the proven principle of low level laser therapy (LLLT). High power up to 12 W allows deep tissue penetration for unlimited pain therapy. Its maximum power is more than 50 times higher than in LLLT.

The High Intensity Laser stimulates local microcirculation and supports lymph drainage of the pathological area. Combining biostimulation and photomechanical stimulation, the BTL High Intensity Laser therapy actually heals the tissue while providing a powerful and non-addictive form of pain management. The BTL High Intensity Laser system offers very effective treatment for wide range of clinical indications ranging from muscle injuries and tendinopathies to degenerative joint disorders. BTL High Intensity Laser devices are portable, touch screen operated and equipped with automatic therapy protocols for easy and effective operation.

In 2014, the BTL-6000 High Intensity Laser achieved Red Dot Design Award, one of the most respected worldwide awards in product design. BTL-6000 High Intensity Laser won this coveted award due to its superior functionality, level of innovation, formal design quality and technological expertise.



**reddot award 2014**  
winner

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# A REVOLUTION IN THERAPEUTIC LASER TECHNOLOGY







# HIGH INTENSITY LASER PAINLESS AND NON-SURGICAL TREATMENT

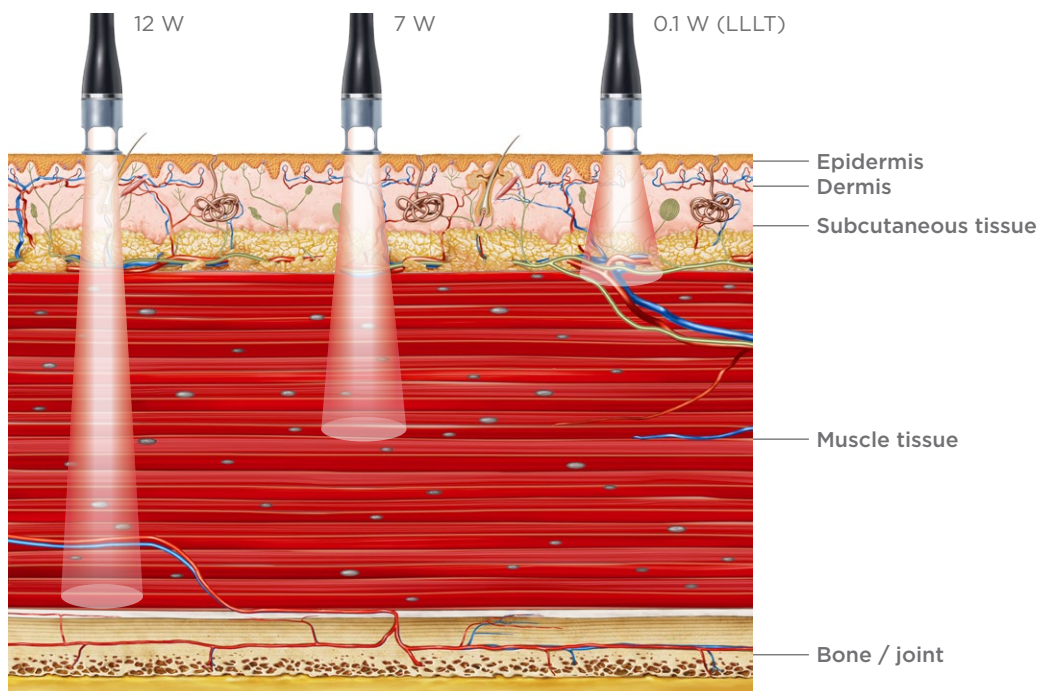


# FAST & EFFECTIVE THERAPY

- New generation of technology in laser therapy
- Deeper penetration
- Superior clinical outcome
- Maximum safety

## ADVANCED TECHNOLOGY

- Deep tissue penetration with power up to 12 W in continuous mode
- Max. power more than 50 times higher than in LLLT (cold laser therapy)
- Optimum therapeutic effect using 810 / 980 nm or 1064 nm wavelengths
- Pulsed mode for immediate elimination of pain
- Effective and powerful therapy for wide range of clinical indications



## LASER LIGHT IN HUMAN TISSUE

- The output power is approximately 30-50 times higher compared to the conventional cold laser therapy and is specific with almost unlimited penetration depth. That gives BTL High Intensity Laser ability to stimulate and heal any painful spot in the body.
- Use of pulsed laser with wavelengths close to 1000 nm creates photomechanical wave in the subcutaneous tissue. This photomechanical stimulation inhibits painful sensation and brings immediate pain relief.

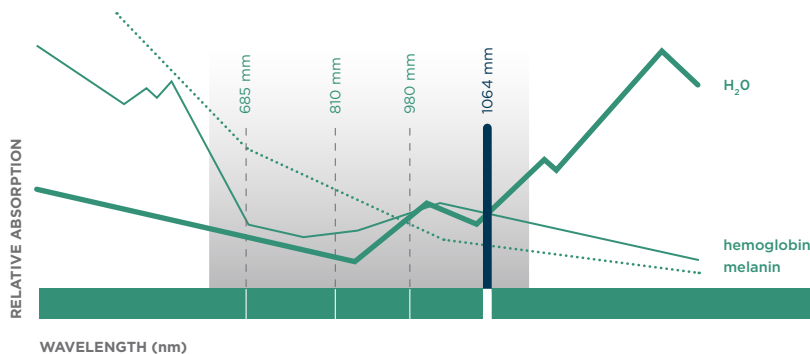
# MEDICAL EFFECTS

## BIOSTIMULATION MECHANISM

Biostimulation means ability to “bio-stimulate” tissue growth and repair at cellular level. Laser light, due to its monochromacy and coherency, can be precisely adjusted and its behaviour finely pre-defined. 810 / 980 nm and 1064 nm wavelengths are specific for their high action on biological chromophores, allowing maximum therapeutic effect without irradiating unwanted areas.

## HIGH PENETRATION DEPTH

The maximum power of 12 W allows extremely high penetration depth of this laser light. The optimum ratio of absorption and penetration depth guarantees efficient stimulation of tissue and pain receptors in up to 12 cm depth. The High Intensity Laser therapy can be easily targeted into any painful spot of the body.



## IMMEDIATE AND LONG LASTING PAIN RELIEF

Using laser light wavelengths close to 1000 nm in extremely short pulsed mode gives BTL Laser technology completely new therapeutic feature – ability to create mechanical wave in the tissue. The 1064 nm wavelengths are designed to be extremely well absorbed in liquid based structures. When reaching the skin the laser light creates wavelength-specific photomechanical wave in the human tissue. The mechanical stimulation of free nerve endings blocks pain pathways in the nervous system and brings immediate pain relief.



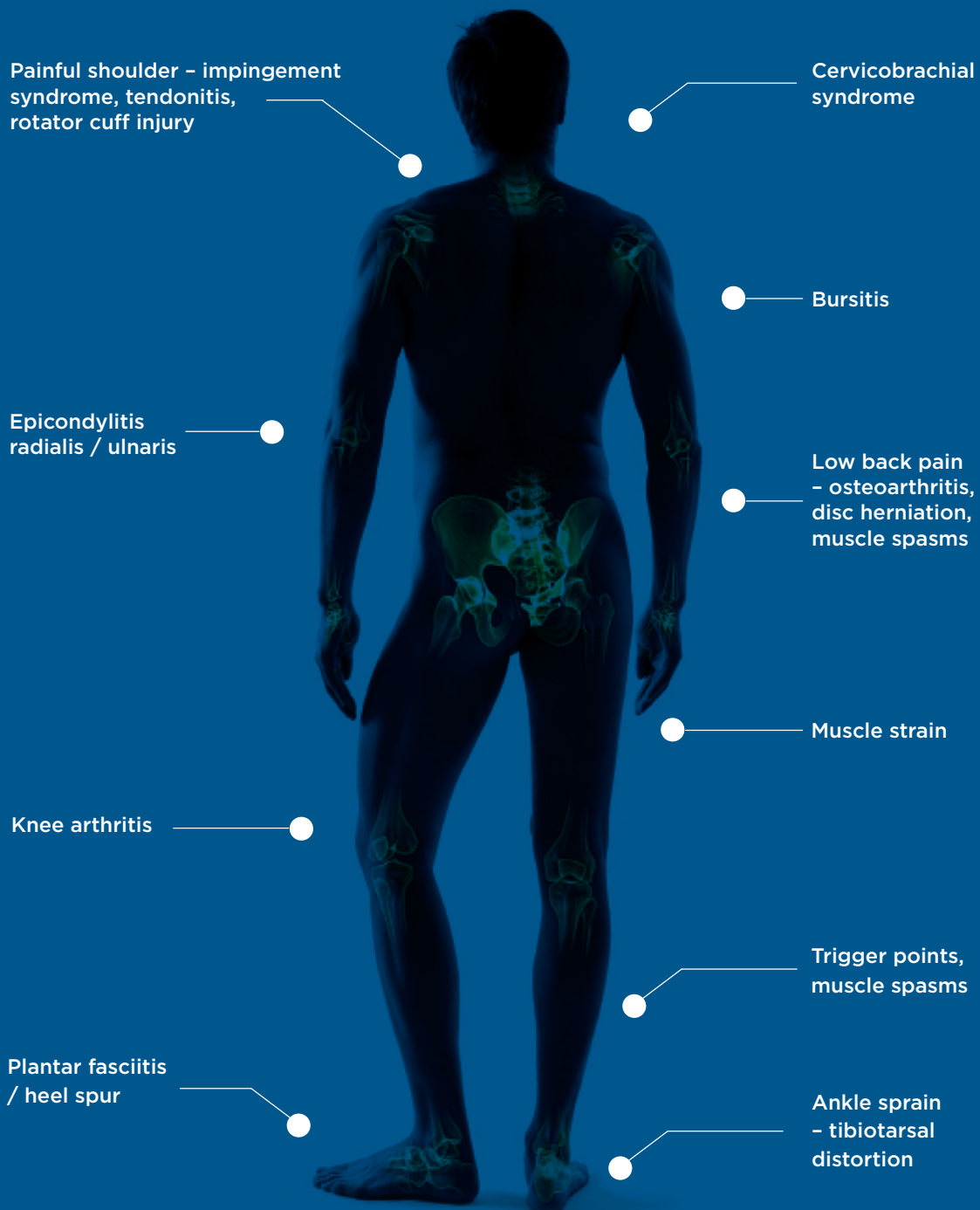
## MICROCIRCULATION SUPPORT

Moreover, this mechanical wave stimulates local microcirculation and supports lymph drainage of the pathological area. Combining biostimulation and photomechanical stimulation, the BTL High Intensity Laser therapy actually heals the tissue while providing a powerful and non-addictive form of pain management.



# MOST COMMON INDICATIONS

High Intensity Laser therapy offers effective treatment of wide range clinical protocols ranging from muscle injuries and tendinopathies to degenerative joint diseases.



To help you with the application procedure in these and many other clinical indications, BTL created therapeutic encyclopaedia. This clinical guide explains the therapy step by step for all the common diagnoses.

BASED ON **LATEST**  
**RESEARCH** RESULTS





# BTL-6000 HIGH INTENSITY LASER 12 W

## BTL-6000 HIGH INTENSITY LASER 12 W

- 12 W power
- 1064 nm wavelength

## FEATURES & BENEFITS

- Deep tissue penetration with power up to 12 W in continuous mode
- Maximum therapeutic effect using 1064 nm wavelength
- Pulsed mode for immediate elimination of pain
- Precise definition of the treatment area
- Automatic laser source calibration
- Preset protocols for easy application
- Built-in therapy guide
- Touch screen interface
- Safety footswitch operation



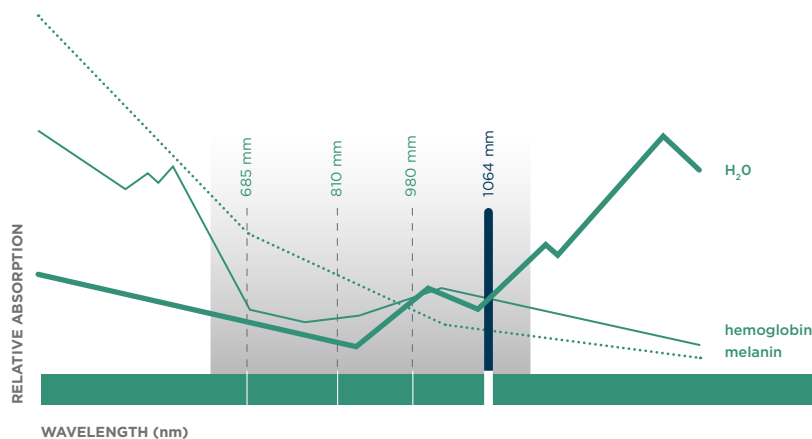
### Applicator

- Advanced ergonomics
- 3 sizes of removable spacers
- Spacers magnetic attachment



### Easy operation/portability

- Touch screen interface
- Preset protocols
- Extreme portability (7 kg)



### Unique wavelength

- 1064 nm wavelength of Nd:YAG laser
- Optimum ratio of absorption and penetration

# BTL-6000 HIGH INTENSITY LASER 7 W

## BTL-6000 HIGH INTENSITY LASER 7 W

- 7 W power
- 810 / 980 nm wavelength

## FEATURES & BENEFITS

- Pulsed mode for immediate elimination of pain
- Precise definition of the treatment area
- Automatic laser source calibration
- Preset protocols for easy application
- Built-in therapy guide
- Touch screen interface
- Safety footswitch operation



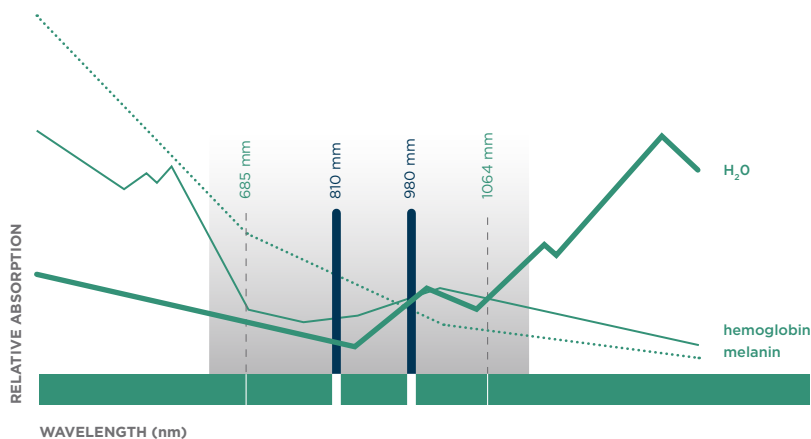
### Applicator

- Advanced ergonomics
- 3 sizes of removable spacers
- Spacers magnetic attachment



### Easy operation/portability

- Touch screen interface
- Preset protocols



### Dual wavelength

Simultaneous emission of two wavelengths at 810 / 980 nm



# HIGH INTENSITY LASER ACCESSORIES

## COMFORT AND EASY OPERATION

- Design and ergonomics of the applicator
- Three sizes of removable spacers
- Magnetic attachment of the spacers
- Touch screen interface



10 mm



30 mm



60 mm



Touch screen operation

## SAFETY FEATURES

- Footswitch operation
- Navigation light
- Safety ending spacers
- Unit lock
- Safety eyewear



Footswitch  
control



Safety applicator  
spacer 30 mm



Safety eyewear

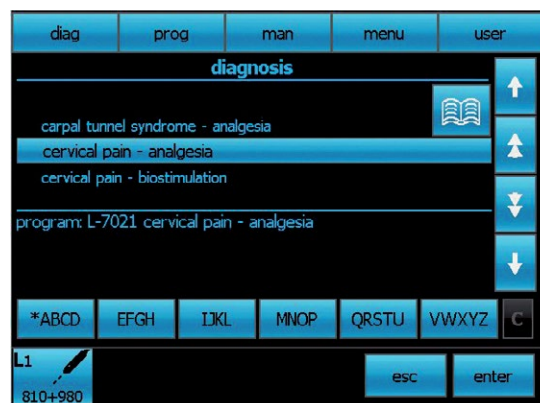
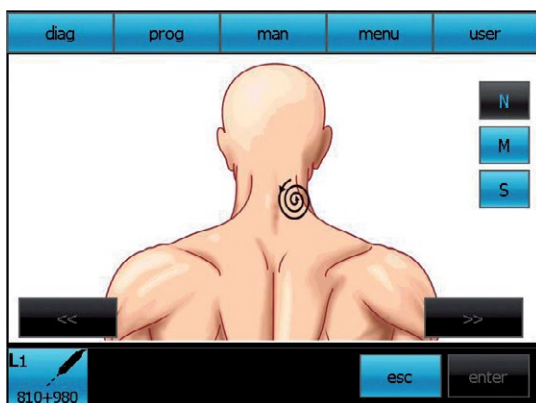
# BTL THERAPY GUIDE

## EASY & EFFECTIVE THERAPY

The built-in therapeutic guide is designed to make the therapy both very easy and effective. Those who start with laser therapy will appreciate the preset therapy parameters and pictures that guide them step by step throughout the application. Those more experienced in laser therapy will profit from the advanced clinical recommendations based on the long-term clinical expertise.

### BUILT-IN THERAPEUTIC ENCYCLOPAEDIA:

- Anatomical pictures
- Step by step therapy protocols
- Preset parameters



# MOST COMMON APPLICATIONS



Painful shoulder



Hip arthrosis



Epicondylitis



Carpal tunnel syndrome



Patellar tendinopathy



Low back pain



Achilles tendonitis



Dorsalgia

# TECHNICAL PARAMETERS

## HIGH INTENSITY LASER

TECHNICAL SPECIFICATIONS	BTL-6000 HIGH INTENSITY LASER 12 W	BTL-6000 HIGH INTENSITY LASER 7 W
Part number	P6000.402	P6000.401
Total output	12 W in continuous mode	7 W in continuous mode
Operating wavelength	1064 nm	810 / 980 nm simultaneously
Mode of operation	continuous, pulsed, single pulse	
Number of protocols	61	
Safety features	emergency off switch operation by footswitch safety interlock	
Dimensions	320 × 190 × 280 mm	
Mains supply	230 V / 50-60 Hz, 115 V / 50-60 Hz	
Laser class	IV	
Equipment protection class	IIB	
Standard accessories	Footswitch control, navigation light, calibration block, safety applicator spacer 30 mm, safety eyewear 2 pieces, touch screen pointer	

### Optional accessories

Part number P6000.412	Safety applicator spacer 10 mm	Part number P6000.211	BTL-6000 trolley
Part number P6000.414	Safety applicator spacer 60 mm	Part number P6000.210	Transportation case



BTL-6000 High Intensity Laser on trolley



BTL-6000 High Intensity Laser



reddot award 2014  
winner



## BTL-6000 HIGH INTENSITY LASER RED DOT DESIGN AWARD 2014

**In 2014, the BTL-6000 High Intensity Laser achieved Red Dot Design Award, one of the most respected worldwide awards in product design.**

The Red Dot Design Award is an international product design prize awarded by the Design Zentrum Nordrhein-Westfalen in Essen, Germany. Since 1955 every year a specially selected jury announces the best designs in 3 categories: product design, design agencies, and design concepts. Winners are presented in a grand ceremony and winning products are exhibited in the Red Dot Design Museum, former historical Zollverein Coal Mine Industrial Complex in Essen.







