

Laser Therapy

LaserFlex LT24



OPTIONAL
LASER
SURGERY
MODULE

LT24 Laser Therapy

For even more efficiency and results!

1 Reduce inflammation

Decrease the release of pro-inflammatory chemicals, thus reducing the inflammatory signals in the affected area.

2 Accelerate tissue repair

Laser light stimulates fibroblast development in damaged tissue. And photons of light from lasers penetrate deeply into tissue and accelerate cellular reproduction and growth.

3 Reduce pain

Laser can reduce nerve sensitivity by decreasing bradykinin. It normalizes ion channels and releases endorphins and enkephalins that produce an analgesic effect.



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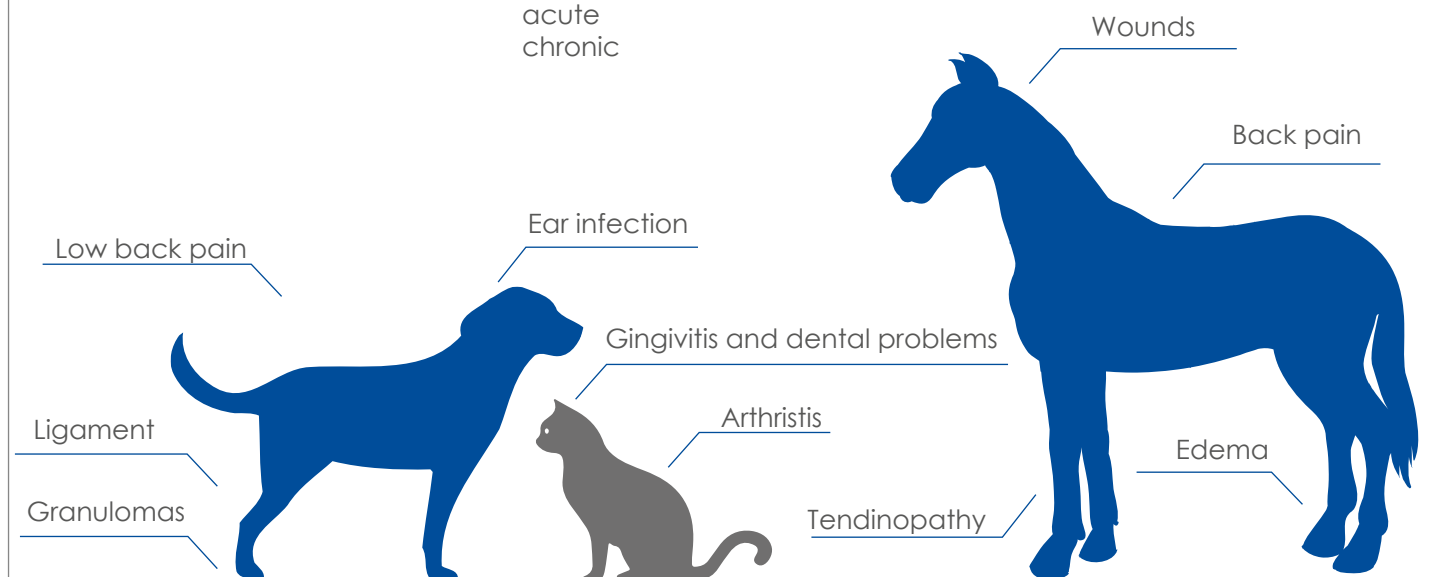
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Main indications



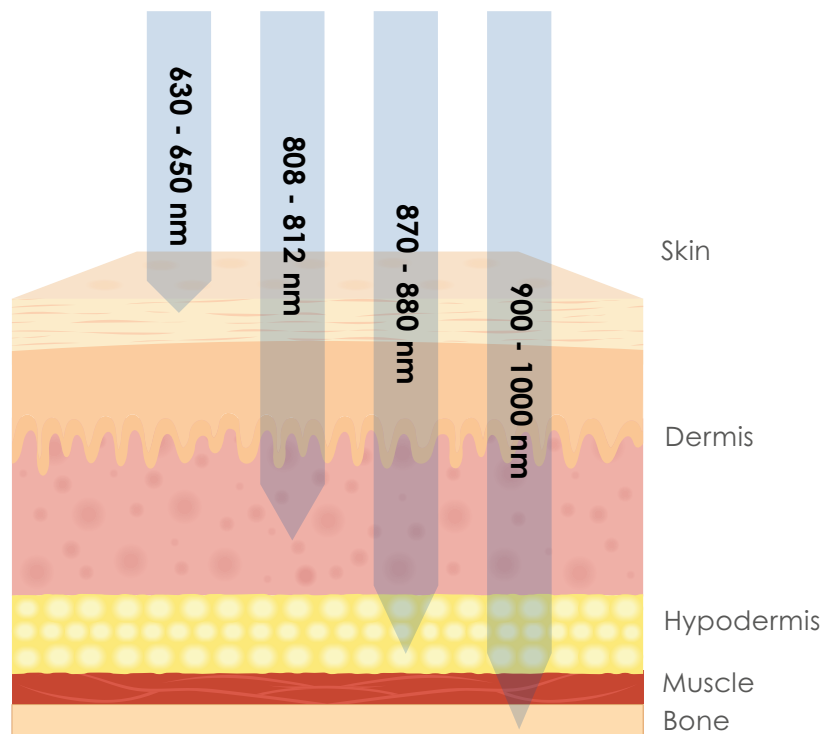
- ▶ Dermatosis
 - dermatitis
 - anal sacculitis
 - anal sac abscess
 - bacterial folliculitis
 - non-inflammatory alopecia
 - cellulitis
 - otitis externa
 - pemphigus
 - pododermatitis
- ▶ Oral disease
 - periodontal disease
 - feline stomatitis
 - tooth extractions
 - ulcer
- ▶ Neurological conditions
 - intervertebral disk disease
 - degenerative myelopathy
- ▶ Orthopedic diseases
 - arthritis
 - myopathies
 - tendinopathies
 - cranial cruciate ligament injuries
 - fractures
 - osteomyelitis
- ▶ Wounds
 - surgical incisions
 - granulomatous
 - burns
 - autoimmune
 - aural hematoma
 - oral wounds
- ▶ Pain management
 - surgical
 - acute
 - chronic



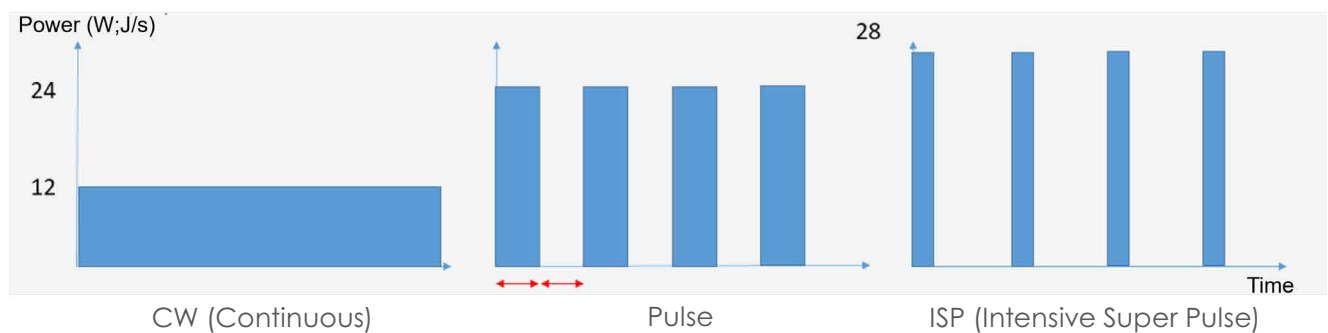
LT24 Class IV Laser Therapy

4 wavelengths

- ▶ **650 nm:** Accelerates surface repair. such as surgical wounds, infected wounds, skin diseases
- ▶ **810 nm:** Increases ATP production. Thermal, anti-inflammatory and swelling effects
- ▶ **915 nm:** Enhances oxygen delivery. Eg. shock, poisoning, cyanosis, analgesia
- ▶ **980 nm:** Improves circulation, insufficient organ supply. Promotes the supply of nutrients to the cells in the treated area. Thermal and analgesic effect.



3 modes



- ▶ *The ISP is used for in-depth treatments such as osteoarthritis.*



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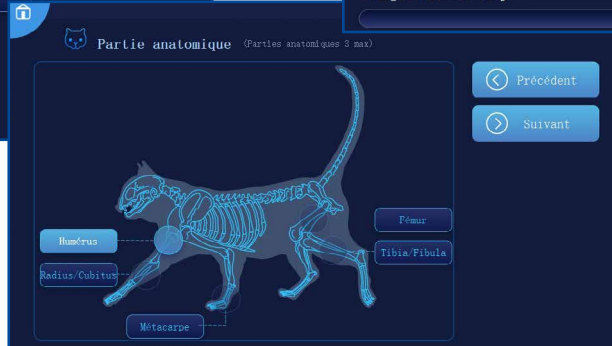
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Satisfying in a wide range of clinical cases.

More than
1 300 protocols
developed for
dogs, cats,
horses and
exotics

Clear and intuitive choice of protocols:

- ▶ species
- ▶ disease type
- ▶ body part
- ▶ skin color
- ▶ acute and chronic
- ▶ weight range
- ▶ treatment area...



5 different lenses



- ① **ENT Optical:**
Treatment of the ear, nose and throat of small animals. It can be used for irradiation stimulation of acupuncture points in acupuncture programs.
- ② **25 mm zoom optical:**
Non-contact treatment head, suitable for small and medium-sized animals. For use on open wounds or areas with exudates, or areas that are very painful and sensitive
- ③ **25 mm massage optical:**
Contact treatment head, suitable for small and medium-sized animals
- ④ **50 mm plus optical:**
Non-contact treatment head, suitable for large-sized animals. For use on open wounds or areas with exudates or areas that are very painful and sensitive
- ⑤ **50 mm massage optical:**
Contact treatment head, suitable for large-sized animals.

LTS24 Laser Surgery



What is laser surgery?

The laser beam has a sufficiently high energy concentration to effectively vaporise or separate tissue.

During the incision, the laser cauterises and closes the small blood vessels using a process called photocoagulation. This considerably reduces the risk of haemorrhage and blood loss. This mechanism also facilitates the work of the surgeon, as bleeding does not impede his visibility. For the majority of surgical procedures, the duration of the operation and of the anaesthetic is significantly reduced, which reduces the risks associated with anaesthesia.



► Indications

Any surgery requiring a precise cut in highly vascularised areas. This includes all ENT surgery, the main indication for which is surgery on the soft palate, but also the removal of small tumours or excrescences in dermatology.

- Extracorporeal ablation:
 - perianal tumor
 - breast tumor
 - castration
 - eyelid polyps
- Gingivectomy:
 - gum hyperplasia
 - melanoma
 - oral polyps
 - oral surgery
- Endoluminal polypectomy
- Intraluminal tumor ablation:
 - stomatitis
 - intraluminal tumors



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Ultra-precise cut .

Immediate coagulation of the micro-vascularisation

► Infection reduction:

The laser has an antimicrobial effect thanks to the energy it releases. The intense heat generated by when it penetrates the tissue eliminates bacteria present on the skin at the surgical site. This considerably reduces the risk of complications after the operation.

► Pain reduction:

The heat released by the laser seals the nerve endings, significantly reducing post-operative pain. This improves the patient's quality of life.

► Oedema reduction:

The laser can seal the lymphatic vessels responsible for post-surgical oedema, which causes fluid to accumulate in the wound. This can lead to infection and stitch rupture. As oedema is also a source of discomfort, laser surgery greatly minimises these risks, making the operation safer and preventing unexpected complications..

► Precise surgery:

The laser offers great precision, guaranteeing perfect incisions that do not damage adjacent tissue. In addition, the LT24 laser is equipped with a super-pulsed mode, which emits a rapid pulse, approximating a continuous beam, while avoiding overheating the tissue. This mode is particularly suitable for certain procedures where the surrounding tissue is sensitive to heat.

► Customer satisfaction:

Pet owners express great satisfaction with laser surgery, mainly because of the significant reduction in their pet's recovery time, and the almost total absence of post-operative complications. They also feel reassured by the increased safety offered by this technique.



Technical data

▶ Laser classification	Class IV
▶ Laser type	Semi conductor laser
▶ Source	Gallium aluminium arsenide laser diode (GaAlAs)
▶ Wavelengths	650 nm, 810 nm, 915 nm, 980 nm
▶ Max. power	28W (super pulse mode)
▶ Aiming Beam Power	> 50 mW
▶ Operation modes	Continuous wave (CW) or repeat pulse
▶ Frequency	From 1 to 20 000 Hz
▶ Aiming laser wavelength	650 nm
▶ Switch operation	ON / OFF
▶ Battery capacity	2 600 mAh
▶ Battery operating time	≈1 hour @ 6.3W on CW
▶ Operating temperature	0° to 30° C
▶ Weight	4.5 kg
▶ Dimensions	290 x 242 x 270 mm
▶ Screen size	LCD 7" (17.5 cm) touchscreen
▶ Included accessories	1 handpiece + cable 5 different heads (ENT probe, 50 mm massage lens, 25 mm massage head, 25 mm zoom optical lens & 50 mm plus optical lens) 3 goggles for users 3 goggles (diff. sizes) for animals
▶ Kit chirurgical (option)	Surgical handpiece Surgical fiber Pedal Fiber cutter Laser needles x 10 Fiber stripper



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