



CUBE Vet High Power Laser

Upgrade your practice with animal-friendly laser therapy

chattanooga® **CUBE Vet High Power Laser**

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The CUBE Vet High Power Laser (HPL) raises the bar for veterinary treatment options.

With HPL you can offer a quiet, non-invasive, safe alternative to medicines, such as pills, injections, and creams that most animals reject.

The CUBE Vet offers a light weight, transportable device that has intuitive, interactive screens to serve as guidelines for treatment options.

With its distinctive characteristics, the CUBE Vet offers an ideal solution in post-surgery rehabilitation and in rehabilitative therapy treatments.

Chattanooga has been offering a range of low level lasers for more than 20 years, and now completes the portfolio with a High Power Laser series: the Chattanooga CUBE Vet.

The higher power within the CUBE Vet helps to achieve greater photonic delivery and shortens treatment times while generating a photochemical and photothermal effect, thus improving the healing of tissues. It can aid in arresting soft tissue and joint pain, in addition to its multiple wavelengths that allow for optimal absorption to stimulate rapid tissue repair.



CUBE Vet 3

3 wavelengths, 15 W ISP-12W-CW
Standard lens
2 years warranty



CUBE Vet 4

4 wavelengths, 20 W ISP-15W-CW
Standard lens
2 years warranty



CUBE Vet 4 Option Performance

4 wavelengths, 25 W ISP-18W-CW
Dynamic lens
5 years warranty



Intense Super Pulse

CUBE Vet's ISP mode promotes deep tissue penetration without added heat. This exclusive technology means that you can use the same energy but at maximum power without pulling strength away from the laser.

Customized to your patient

The CUBE Vet allows for complete customization according to the body zone being treated, type of skin or coat hair of the patient, body weight, and skin or coat color as well as pain and chronicity level. It automatically adjusts output treatment parameters for increased safety and effectiveness based on the parameters selected.



***NOTE:** The distal piece of the CUBE Vet HPL devices comes with a special small protective glass to avoid fur/hair burn during treatments

Standard Accessories



Optional Accessories



Chattanooga CUBE Vet: Benefits

Providing a non-invasive laser therapy provides benefits to the patient and the clinician as it offers a quiet, pain free alternative to traditional medicines. HPL allows for further development of veterinary practices by providing an effective solution for the most commonly treated chronic pain conditions in daily practice.



For musculo skeletal conditions

Arthritis, tendinitis, fractures, neurological injuries, post-operative ligament ruptures, post-operative pain



For wound and dermatology

Incisions, wounds, bites, burns, lick granuloma, dermatitis



Infections, oral and dental diseases

Rhinitis, sinusitis, gingivo stomatitis, otitis, cystitis



Benefits for the vet

Expertise, high level of compliance, customer loyalty, long term relationship, return on investment



Benefits for the client

Efficient, quick results, less medication



Benefits for the animal

Quick pain relief, non-invasive, no pain, no side effects, short treatment time, reduced treatment stress

Additional features and benefits

- Deep tissue penetration with power up to 15W in continuous wave
- Optimal tissue absorption due to the 3 or 4 wavelengths, (660nm, 800nm, 905nm, 970nm) emitted simultaneously or alone
- Pulse range from 1-20,000 Hz to prevent tissue adaptation
- High quality optics producing a unique homogeneous beam profile for most consistent and safest application
- Optical Zoom 1 to 5cm² for better energy density control
- USB or Wifi for quick export of data history
- Built in Lithium Ion battery provides up to 75 minutes of treatment time
- Solid-state diode module, reducing heat and ensuring a stable laser emission

Chattanooga **CUBE Vet**: Therapeutic Effects

Laser light & Biostimulation

Biostimulation is the ability to stimulate and promote tissue growth and repair at the cellular level. The wavelengths of laser light are mainly absorbed by the chromophores; molecules located inside cells able to convert laser light. The by-products of this process are indispensable substances for the repair, growth, and proliferation of cells. By using the appropriate wavelength, the maximum therapeutic effect on the target tissue can be achieved. Depending on the modulation of the wavelength and on the chosen parameters, different effects can be achieved.

Analgesic effect - laser light converting into heat

Laser light is absorbed and partly scattered in the target tissue, which is then largely converted into heat. This thermal stimulus to the nociceptors of the skin affects the peripheral neurological tract and polarizes the neurons important for pain perception. HPL increases pain threshold while reducing the transmission of pain stimuli to the brain thus allowing immediate pain relief.

Anti-Inflammatory effect

Inflammation is necessary for healing. The challenge for the clinician is to control this acute inflammatory stage in order to allow the next stage of healing to begin. The CUBE Vet effectively modulates the inflammatory processes, secondary to their deep stimulation of tissues. This deep stimulation triggers vasodilatation and increased oxygenation, which activates the main metabolic activities and resolves the inflammatory process quicker.

Regenerative effect

The described acceleration of healing processes can be witnessed in the following:

- Facilitating the repair and regeneration of damaged cells
- By treating nerve injuries such as traumatic or iatrogenic paresthesias
- Enabling wounds, ulcers, and mucositis to heal faster thanks to biostimulation

The actual cascade of healing is fuelled by increased ATP synthesis and increased protein synthesis combined with cellular proliferation. The attenuation of the laser light in the tissue depends on the localization of the lesion and determines the laser power required. Deeper structures such as tendons or joint capsules may require the application of higher doses to the surface tissue.

Antibacterial and antiviral

Various types of bacteria can be thermally destroyed using HP Laser energy, without causing irreversible heat induced damage to tissues. The virulicid effect that deactivates or helps destroy viruses is generated by stimulation of the immune system and lymphocytes proliferation. In addition, the laser treatment generates an increase in oxidative stress which affect aerobic bacteria's growth.

Clinical case: Tympanic bulla infiltrate

Patient: 3-year-old, French Bulldog FE, 7kg

Condition: Chronic head tilt and unstable on her feet; unstable gait

History: Treated with cephalosporin and prednisolone. Had Total Ear Canal Ablation (TECA) with little to no results

CT Scans: Showed soft tissue material filling the tympanic bulla not confined to membranous structure. Note: green arrow shows increased density within the semi-circular canals; **Fig 1** 28APR2011. Moderate para-aural cellulitis and chronic changes in the semi-circular canals.

Treatment: 24OCT2011 started Laser therapy. Dark coated, head, odema and congestion setting (600) targeting 2.5J/cm² and a spot size of only 2cm to reduce the scatter. Week one: three treatments, week two: two treatments, and one treatment in week three.

Outcome: After three sessions the clinical signs improved to almost normal. 14NOV2011 CT Scan showed a improvement in the para-aural and tympanic bulla soft tissue infiltrate and no evidence of abscessation; **Fig 2** 21SEPT2011.

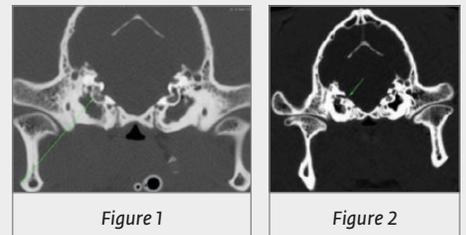


Figure 1

Figure 2

Chattanooga CUBE Vet: Dynamic Therapy

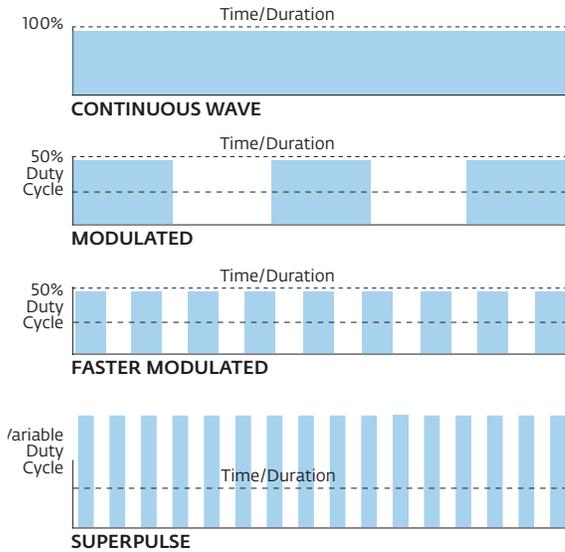
CUBE Vet technology allows optimal effect through the unique ability to use and modulate several pulse frequencies as well as adapt to influencing factors specific to the patient such as skin color and level of chronicity of injury. We call this Dynamic Therapy.

Different types of tissue correspond to different modulation parameters

The parameters of the new CUBE Vet line are distinguished according to the type of pulse (continuous wave mode, modulated pulse mode with adjustable frequencies, ISP super-pulse mode), with diversified tissue response.

Such effects have been thoroughly analysed, paying particular attention to:

- the amount of energy administered depending on the effect obtained;
- the response obtained at different tissue depths;
- the effects of laser light penetration related to the most suitable administration modalities according to the kind of tissue to be treated.



CUBE Vet Laser Therapy allows for personalized treatment depending on patient species

The CUBE Vet allows for an adjustment of energy delivered depending on the factors involved, specific to your patient. This is thanks to selected menus that are graphically intuitive. Increased power and the wavelengths available play a crucial role in the success of the laser therapy.



CUBE Vet Patient profile

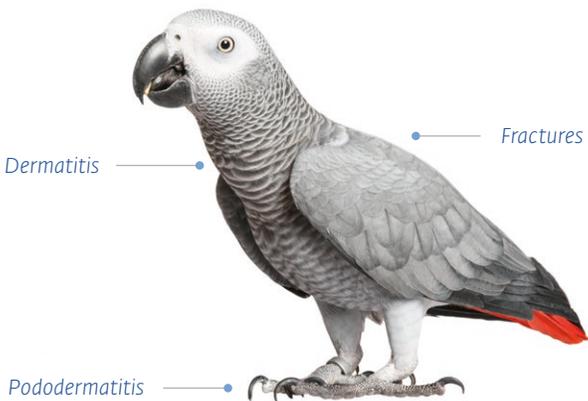
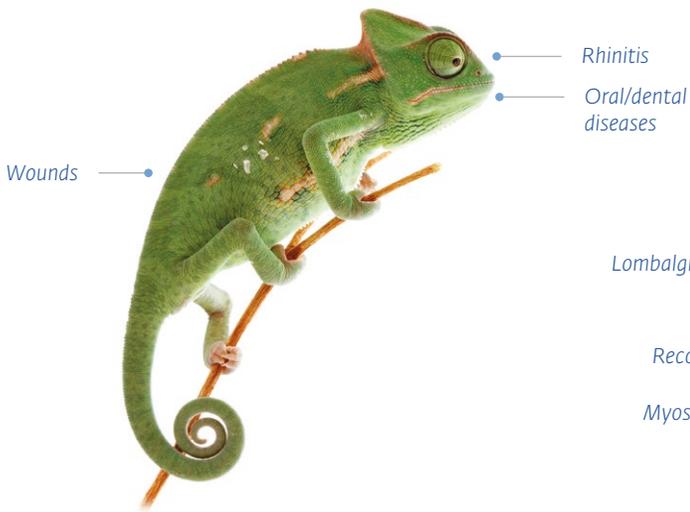
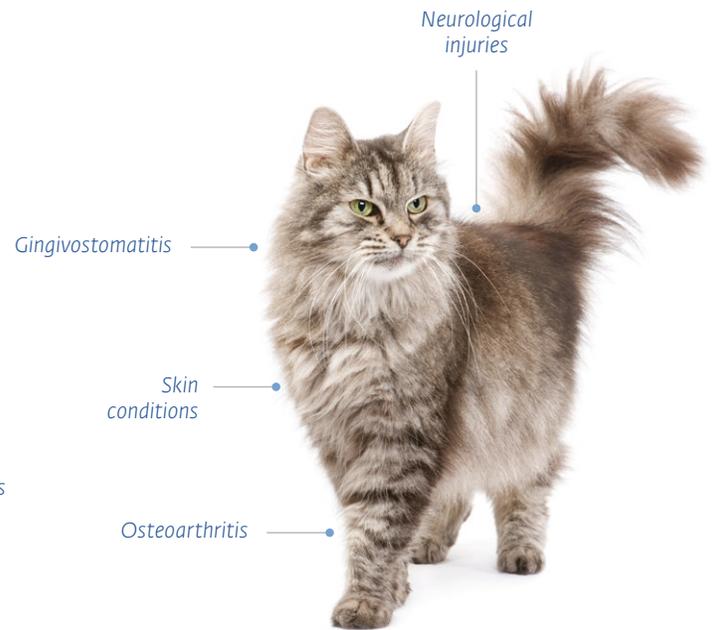
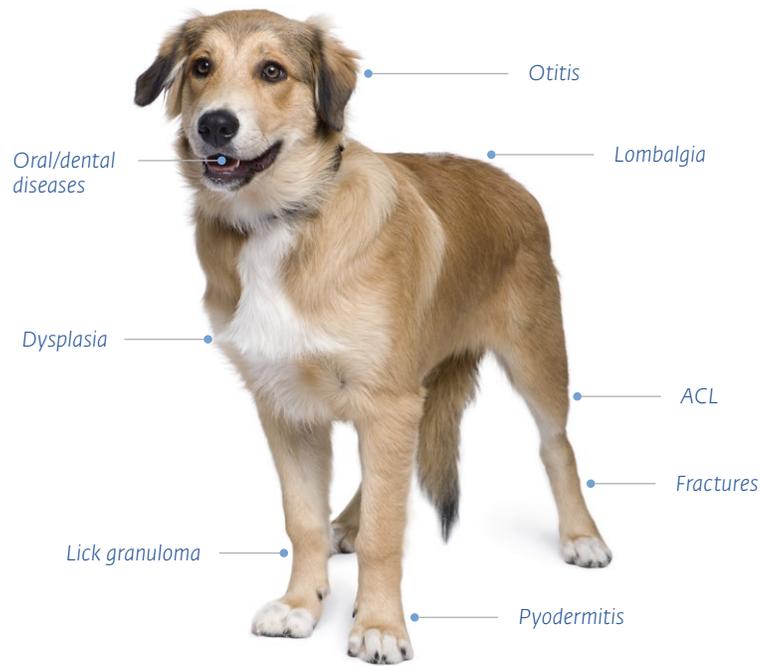
The CUBE Vet allows for complete customization according to the body zone being treated, type of skin or coat hair of the patient, body weight, and skin or coat color. CUBE Vet makes it possible to select specific treatments and tailor them to your patient's needs.



Dynamic Therapy

Every CUBE Vet protocol consists of dynamic parameter settings, to be chosen according to the different types of animal coats, treatment condition, and treatment area size.

Chattanooga CUBE Vet: Indications





CUBE Vet High Power Laser

Ordering Information

Part Number	Description
3079VETKIT-USA	CUBE Vet 3 15W-ISP - 12W-CW - 3 wavelengths
3080VETKIT-USA	CUBE Vet 4 20W-ISP - 15W-CW - 4 wavelengths
3081VETKIT-USA	CUBE Vet 4 Option Performance 25W-ISP - 18W-CW - 4 wavelengths with optical plus handpiece

Standard Accessories (included with CUBE Vet 3 & 4, or 4 Option Performance)

MP542-USA	White Sock, Chattanooga, CUBE Vet 3
MP543-USA	Black Sock, Chattanooga, CUBE Vet 4 & 4 Option Performance
EG254481	Interlock Connector
MP443-USA	Optical fiber handpiece
MP486-USA	Zoom optical, CUBE Vet 3 & 4 only
MP554-USA	Zoom optical, CUBE Vet 4 Option Performance only
MP481VET-USA	Distal piece, Vet
PF002P-USA	Goggles
MP503-USA	Dark goggles
MP516-USA	Animal goggles vet - set of 3
MP130GC-USA	Warning sign
T3-00171-US	Operating manual, Vet
E6254473-USA	Power supply
MP111B-USA	Power cord, USA/Canada

Optional Accessories

MP041P-USA	ENT handpiece
MP475VET-USA	Optical Plus Vet, 40mm
MP536-USA	Distal piece 40mm, Vet
MP449-USA	Optical part of zoom with distal, Vet
MP556-USA	Optical part of zoom Plus with distal, Vet
PF094-USA	Trolley
PF115-USA	Extend Plus and trolley
IM017A-USA	Aluminum transport case
PF067-USA	CUBE Vet 4 wireless foot pedal (on special order)

**All CUBE lasers are covered by a 2 year warranty on every default workmanship and components including the source (Laser diodes). CUBE 4 Optional Performance is covered by an extended warranty of 5 years on the source (Laser diodes)*



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