



SpectraVET Therapeutic Lasers increase the speed, quality and tensile strength of tissue repair, resolve inflammation and provide relief from both acute and chronic pain. Widely researched and proven effective, Laser Therapy is a valuable form of treatment for animal athletes and companion animals alike, and helps improve the quality of life for aging pets.

RELIABLE • EFFECTIVE • AFFORDABLE

- Rugged, all-metal construction
- Lightweight, ergonomic design
- Complete portability & long battery life
- Can be operated while recharging
- User-replaceable shock-resistant lenses
- User-replaceable probe cables
- Standard 5-year warranty*
- Made in the USA!

We understand the often rough and unpredictable environments in which our products are used, so all SpectraVET Laser Systems are designed to be tough, easy to use and maintain, and to maximize your return on your investment.

As research brings to light optimal treatment parameters for existing and new applications, we continually develop and enhance our range of control units and laser probes to ensure our customers can deliver the highest quality outcomes for the animals in their care.

A wide range of standard single- and multi-laser probe configurations is available to suit every small and large animal application, and additional laser powers, wavelengths and probe configurations are available upon request. All SpectraVET control units and laser probes are interchangeable, ensuring your SpectraVET laser system will continue to offer optimal performance even as your needs grow and change.

PRO2 Control Unit Specifications:

- Timer (secs):** 10, 20, 30, 40, 50, 60, 70, 80, 90, 120, 150, 180
- Freq (Hz):** CW & 2, 4, 6, 8, 10, 15, 20, 25, 50, 75, 100
- Duty Cycle (%):** 50 (when any frequency other than CW is selected)
- Safety:** Key Switch; Watchdog Timer; Emergency Stop Button;
Remote Interlock Connector; Auto-Standby after 5 mins
- Power:** Rechargeable Batteries & External Plug Pack/Charger
- Weight:** 1.8 lbs + Probe(s) & Accessories
- Warranty:** 5 Year Extended Care Warranty & Service Program
(2 Yrs Battery; 1 Yr Accessories)
- Package:** Control Unit, Laser Probe(s)[°], AC Adaptor, Operating Manual,
User Guide, Treatment Chart(s) & Sample Protocols, Carry
Case, Spare Probe Cable, 2pr Laser Eyewear.

[°] Laser probes sold separately - see overleaf



SPECTRAVET PHOTOBIOMODULATION PROBE SPECIFICATIONS

							
Item Code	445-2000 LED ANTIBAC	660-1500 LED WOUND	405-100 DENTAL	650-100 DENTAL	810-100 DENTAL	810-500 DEEP	810-1000 DEEP
Primary Uses Secondary Uses	Anti-Bacterial Wounds Ulcers, Burns Dermal Issues	Wounds Ulcers, Burns Dermal Issues Superficial Tendons	Disinfection Anti-Microbial	Dental/Intraoral Wound Healing Vital Pulp Tx Analgesia Inflammation	Dental/Intraoral Analgesia Desensitization Inflammation	Analgesia Trigger Points Deep Tissue Tissue Repair Inflammation	Analgesia Trigger Points Deep Tissue Tissue Repair Inflammation
Wavelength	445 nm Blue	660 nm Red	405 nm Violet-Blue	650 nm Red	810 nm Infrared	810 nm Infrared	810 nm Infrared
Number of Emitters	3	3	1	1	1	1	1
Power per Emitter	666 mW	500 mW	100 mW	100 mW	100 mW	500 mW	1000 mW
Total Probe Power	2000 mW	1500 mW	100 mW	100 mW	100 mW	500 mW	1000 mW
Emission Mode	Continuous Wave	Continuous Wave	Continuous Wave	Continuous Wave	Continuous Wave	Continuous Wave	Continuous Wave
Aperture Size Ø	25 mm	25 mm	8 mm	8 mm	8 mm	16 mm	16 mm
Hazard Classification	LED Risk Group 2	LED Risk Group 2	Class 3B Laser	Class 3B Laser	Class 3B Laser	Class 3B Laser	Class 4 Laser

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Item Code	904-200S P4-MULTI	904-600S P12-MULTI	904-1200S P24-MULTI	810-1000 P4-MULTI	810-2000 L-MULTI	810-4000 L-MULTI
Primary Uses Secondary Uses	Inflammation Tissue Repair Deep Tissue Long Thick Coats Analgesia	Inflammation Tissue Repair Deep Tissue Large Areas Long Thick Coats Analgesia	Inflammation Tissue Repair Deep Tissue Large Areas Long Thick Coats Analgesia	Analgesia Long Thick Coats Deep Tissue Inflammation Tissue Repair	Analgesia Large Areas Deep Tissue Inflammation Tissue Repair	Analgesia Large Areas Deep Tissue Inflammation Tissue Repair
Wavelength	904 nm Infrared	904 nm Infrared	904 nm Infrared	810 nm Infrared	810 nm Infrared	810 nm Infrared
Number of Emitters	4	12	24	4	4	4
Power per Emitter	50 mW Av / 25 W Pk	50 mW Av / 25 W Pk	50 mW Av / 25 W Pk	250 mW	500 mW	1000 mW
Total Probe Power	200 mW Av / 100 W Pk	600 mW Av / 300 W Pk	1200 mW Av / 600 W Pk	1000 mW	2000 mW	4000 mW
Emission Mode	Super-Pulsed	Super-Pulsed	Super-Pulsed	Continuous Wave	Continuous Wave	Continuous Wave
Aperture Size Ø	5 mm x 4	5 mm x 12	5 mm x 24	5 mm x 4	35 mm	35 mm
Hazard Classification	Class 3R Laser	Class 3R Laser	Class 3R Laser	Class 3B Laser	Class 3B Laser	Class 4 Laser

* Representative of complete range. Other Class 3B & Class 4 probes are available, including customized configurations of power and wavelength.

SPECTRAVET PROBE SELECTION GUIDE

SpectraVET combines form and function to deliver the right amount of light effectively, efficiently, and precisely where it's needed!

Laser photobiomodulation therapy (PBMT) requires, at its most fundamental level, the controlled absorption of light with specific parameters within living tissue. This leads to a cascade of photochemical and photophysical mechanisms that produce clinically-important beneficial effects, such as pain relief, reduced inflammation, and faster healing.

Research shows that the most efficient and precise method of delivering light into living tissue is to place the probe lens in direct, stationary, contact with the skin and apply gentle pressure. However, hair often gets in the way when treating animals, impeding the passage of light from the laser probe to the skin and beyond. Ideally patients would be shaved, but who wants to do that?

Since 1996, SpectraVET has been designing laser PBM equipment specifically for veterinary markets and optimizing our probes for treating animals.

Instead of a large, flat window, our probes have individual protruding lenses that push hair out of the way, directing light to the skin and eliminating energy absorption losses in the coat.

Our lenses are also anti-reflection coated, and closely matched to the refractive index of the skin to minimize beam reflection losses.

We utilize convex lenses, because this shape allows gentle pressure to compress the tissue, pushing superficial absorbers of light out of the immediate beam path and leaving more light available to penetrate deeper. Compression also decreases the distance from the laser source to the target tissue, allowing deeper tissues to be treated faster.

All SpectraVET probes have user-replaceable lenses and cables, minimizing downtime and expense if they get damaged.

				
Item Code	650-100 DENTAL	810-500 DEEP	904-600S P12-MULTI	810-2000 L-MULTI
Primary Uses <i>Secondary Uses</i> <i>Other Considerations</i>	Wound Healing (CW) Tissue Repair (CW) <i>Analgesia (CW)</i> <i>Inflammation (CW or 10 Hz)</i> Dental/Intraoral Shallow Penetration Superficial Tissue Targets	Analgesia (CW) <i>Tissue Repair (10 Hz)</i> <i>Inflammation (10 Hz)</i> Trigger / Acu Points Deep Tissue Targets	Inflammation (CW) Tissue Repair (CW) <i>Analgesia (CW)</i> Superficial & Deep Tissues Large Areas Long Thick Coats	Analgesia (CW) <i>Inflammation (10 Hz)</i> <i>Tissue Repair (10 Hz)</i> Deep Tissue Targets Large Areas
Wavelength	650 nm Red	810 nm Infrared	904 nm Infrared	810 nm Infrared
Laser Mode of Operation	CW / Switched CW	CW / Switched CW	Super-Pulsed	CW / Switched CW
Number of Emitters	1	1	12	4
Power per Emitter (CW)	100 mW	500 mW	50 mW Average 25 W Peak	500 mW
FREQ Settings: CW 2-100 Hz	Continuous Wave Switched-CW (a.k.a. Pulsed)	Continuous Wave Switched-CW (a.k.a. Pulsed)	Super-Pulsed Switched Super-Pulsed	Continuous Wave Switched-CW (a.k.a. Pulsed)
Probe Power CW (100%) Probe Power 2-100 Hz (50%)	100 mW 50 mW	500 mW 250 mW	600 mW (Average) 300 mW (Average)	2000 mW 1000 mW
Clear Aperture Size Ø	Lightguide 8 mm Standard Lens 16 mm	Standard Lens 16 mm DEEP Acutip 5 mm	12 Lenses @ 5 mm Each Total Area ~50 cm ²	Standard Lens 35 mm Total Area ~10 cm ²

Selecting your SpectraVET probes

Selection of the best probes to use for any given indication and/or treatment session is largely determined by factors such as the size and depth of the target tissue, and the desired effects and outcome of the session.

'DEEP TISSUE' probes are intended for smaller anatomical targets, and for treating deeper tissue structures by placing the probe in direct, stationary, contact with the skin and applying pressure; the closer you can 'push' the probe toward the target tissue, without causing further pain/discomfort for the animal, the better. Better access is available to the animal's skin when the hair is parted. The laser beam itself is a thin rectangular shape, oriented such that the long axis of the beam is perpendicular to the top of the probe switch, which allows the whole beam to irradiate the skin exposed by parting the hair. An optional acupuncture tip with a Ø5 mm aperture is available for DEEP probes (reduces output power by 50%).

L-MULTI probes are better for treating larger areas, particularly when hair cover is thin/light or the animal has been shaved or clipped, and are effective in both deep and superficial tissues. The same 'stationary-contact-with-pressure' application technique is recommended unless treating skin conditions and large wounds, when a non-contact 'painting' technique is preferred.

P-style MULTI probes, such as the 904-600S P12-MULTI, are ideal for treating larger target tissue regions that are covered by a thick or long coat, because the protruding lens assembly in front of each laser diode acts like the tooth of a comb, parting the hair and carrying the laser beam directly to the skin surface. The increased efficiency of P-style MULTI probes in delivering energy to the tissue enables much lower powered lasers to be used without decreasing effective penetration depth, increasing treatment time, or compromising efficacy.

DENTAL probes are fitted with a light guide for wound healing, inflammatory modulation, pain management, antibacterial effects, and so on, inside the mouth (and for access into other orifices). DENTAL probes can also be fitted with a standard lens for use outside of the mouth, such as for wound healing and dermal conditions.