



## 7 Alarming things you must know before Buying an Equine Laser. #3 will blow your mind

1. **Laser Diodes.** Make sure that the Laser therapy unit comes with **Laser Diodes NOT LEDs.** Laser diodes are clinically proven to penetrate the deepest. The output power is far greater from laser diodes, than LEDs. Due to the wide diversion angle associated with LEDs, output power is lost. Laser diodes have monochromatic light that travels in a column, hence power is not lost and thus penetration is the deepest.
2. **Laser Class.** The AEL IR 4400 is a Class 3B laser therapy unit, these lasers have an output power of <500mW and hence do not burn. Class 4 lasers are >500mW and have the potential to burn if used incorrectly.
3. **Wavelength.** Infrared wavelengths eg 904nm penetrate the deepest, around 5cm. Visible red wavelengths eg 650nm are suitable for Acupuncture and Trigger points and hence only penetrate 1.5cm. Claims made by some manufacturers that their therapy machines **penetrate 5 inches are unfounded and without clinical proof!** The AEL IR 4400 comes with 3 x 904nm laser diodes and 1 x 635nm visible red aiming beam for precise positioning of the head onto the injured muscle tissue.
4. **Frequencies, Continuous Wave as well as Nogier and Bahr** frequencies are the best for treating Equine injuries. The AEL IR 4400 operates in all 3 frequencies and has the ability to store 14 dosages in the unit's memory. Some laser therapy units only operate in **Continuous Wave.** Research indicates that when stimulation is required, use lower frequencies. Higher frequencies are best for sedation. The 4400 can be used in 7 **Nogier** frequencies 73Hz-4672 as well as 599Hz, 1199Hz and 2398Hz **Bahr** frequencies. The 4400 covers all bases when it comes to frequencies.
5. **Portability.** There are many desktop laser therapy units that are bulky and can only be used in a Vet's practice or kept at a stable. Having a portable unit that allows for the easy transportation of the laser therapy unit wherever one goes whether out on the farm or at the racetrack is another advantage of the AEL IR 4400. This unit operates off rechargeable batteries – take it wherever you go! The 4400 is a very user friendly unit with NO formal training required. It is simply a matter of switching the unit on, selecting the injured area from the color chart provided and then the dosage stored in the unit's memory.
6. **Quality**– There are many manufacturers of laser therapy units world-wide. Some of these are made off-shore and then Distributed by 3<sup>rd</sup> parties who have taken a large mark-up on these products. The AEL IR 4400 is manufactured by Laserex an Australian manufacturer of quality laser diode solutions since 1989. Laserex is an ISO 9001:2015 Quality Assured company. The AEL IR 4400 comes with a 2 year Manufacturer's warranty.
7. **Affordability** - The unit is very reasonable priced when one considers that there are laser therapy units on the market that cost \$US 15-\$20,000!



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