



**Leonardo** DUAL 45

# Dual Wavelength Surgical Diode Laser System

The most user friendly laser on the market



**45 WATTS**  
Higher power density  
for more effective and  
rapid cutting



BRITISH DESIGNED



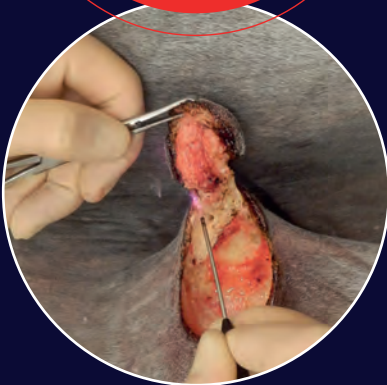
GERMAN ENGINEERED



**Adjustable  
Wavelength  
980/1470nm**

### **Haemostasis Setting**

For vessel sealing,  
reducing the need to  
use a ligature



# Leonardo DUAL 45

The latest dual-wavelength, German-manufactured surgical diode laser, the Leonardo® Dual 45, Combines two wavelengths: 1470nm and 980nm. The 1470nm wavelength is optimal for water absorption, and combining this with the 980nm wavelength has been proven to improve cutting efficiency by optimizing water and blood absorption across both wavelengths.

The increased 45 WATTS of power translates to greater power density, meaning the laser can vaporize and cut tissue more effectively and rapidly compared to most other models with only 30 WATTS.

- **German engineering**
- **Adjustable modes**
- **Proven reliability for excellent clinical results**
- **Used by leading academia and equine clinics**

## CLINICAL USE

# Control the bleeding, Control the outcome



Recent research has demonstrated excellent success rates with low recurrence of sarcoids following laser diode surgery. Laser surgery not only cuts but also vaporizes the tissue, offering several advantages over standard surgical excision, including reduced post-operative granulation tissue formation, pain, and swelling.

Additionally, the heat generated by the laser creates an area of necrosis around the lesion, minimizing the risk of cell spread to surrounding healthy tissue.

### Suitable for use on the following procedures:

- **Sarcoid and melanoma removal**
- **Laser Cordectomy (Hobday)**
- **Laser Sinoscopy**
- **Laser soft palate**
- **Ethmoid Haematoma**
- **Uterine cysts and adhesions**

## PRE-PROGRAMMED SETTINGS

### **SARCOID 1**

Precise setting for removal of sarcoids from ears, near eyes and vascular areas.

### **SARCOID 2**

Precise setting for de-bulking sarcoids/melanomas.

### **HAEMOSTASIS**

Enhanced setting to stop bleeding of a vessel reducing the need to use a ligature.

### **SCARIFY**

Optional reduced power setting to scarify the area where the sarcoid has been removed.

## AIRWAY RECOMMENDATIONS

Depending on the clinical airway procedure you are performing, the Leonardo is the perfect surgical tool.

The ability to have the combined wavelength is crucial whether you are carrying out a ventricular cordectomy, resecting aryepiglottic folds or removing an epiglottic cyst.

The combination wavelength gives the surgeon full flexibility when carrying out intricate airway procedures.

## CASE STUDY

# Surgical versatility redefined

**Dr. Kathy Duncan - BSc (Hons) BVMS Dipl. ECVS MRCVS, European Diploma holder from Heath Equine explains why their team prefers the Leonardo Dual Wavelength Surgical Diode Laser System.**

**With extensive experience treating challenging cases such as sarcoids and melanomas in a wide range of anatomical areas, Kathy shares how the versatility, precision, and safety features of the Leonardo Laser make it an indispensable tool in their surgical practice.**



### **Q: Why is having different settings useful to you as a surgeon?**

Having variable settings is incredibly useful because we primarily use the Leonardo Laser for treating melanomas and sarcoids across a wide range of anatomical areas, tissue densities, and lesion sizes. The flexibility allows us to tailor the power output precisely for each surgical site.

For example, when lasering a sarcoid near the eye, I would choose the “Sarcoid 1” setting, which uses slightly lower power - ideal for sensitive tissue. In cases where there’s deep pigmentation or hair loss, I might also scarify the adjacent area to the primary sarcoid.

The ability to safely and easily switch between presets means that anyone on the surgical team can use the laser confidently, knowing that the selected setting limits the power appropriately. This enhances both safety and consistency during procedures.



### Q: How helpful is the haemostasis setting?

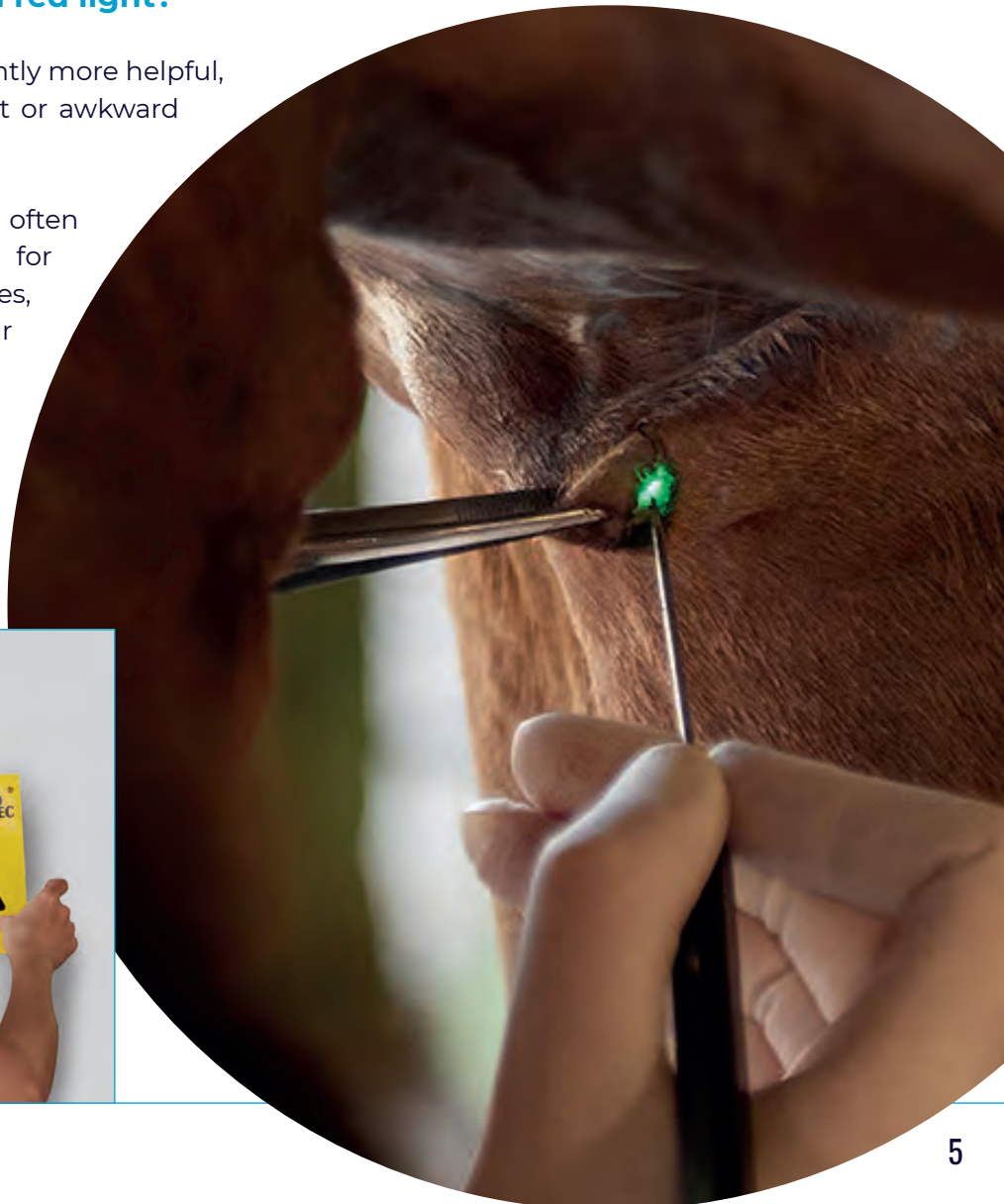
It's particularly beneficial in more aggressive cases, such as large sarcoids in vascular areas. Haemostasis can sometimes catch you off guard, but with this laser, we've experienced very few bleeding issues.

Postoperatively, the outcomes are cosmetically much better and less aggressive compared to using a standard diode laser. The haemostasis setting acts quickly and effectively - especially useful when treating melanomas. It also eliminates the need for ligatures or multiple forceps, which can clutter the surgical site.

### Q: How much more useful is the green variable aiming beam compared to the usual red light?

The green aiming beam is significantly more helpful, especially when working in difficult or awkward areas like the inner thigh.

We use the Leonardo Laser more often for sarcoids and melanomas than for airway surgeries, and in these cases, the green beam provides a clear contrast against surrounding tissue. Even without much bleeding, there's usually some ooze, and the green beam remains visible - making it far easier to see exactly where the laser is aimed.



## TECHNICAL SPECIFICATION

- Increased power output up to 45W
- Dual Wavelength - Able to combine 980nm and 1470nm wavelengths for a quicker, cleaner cut during surgery
- Adjustable modes for airway and skin applications
- Haemostasis setting - unique feature for vessel sealing
- Intuitive touch screen operation
- Transparent safety goggles
- Green aiming laser beam instead of red for ease of use
- Average product lifespan over 10 years

<b>Wavelength</b>	980nm and 1470nm	<b>Pulse Duration</b>	0.01 - 60sec/ 0.01 - 60 sec
<b>Power</b>	Max: 45 Watts	<b>Power Supply</b>	110 - 24-VAC, 50/60Hz, 450VA
<b>Fibre Options</b>	400 – 600 µm	<b>Weight</b>	8.5kg
<b>Aiming Beam</b>	532nm and 635nm, green 1mW, red 4mW, users controlled intensity	<b>Dimensions</b>	H: 28cm X W: 37cm x D: 9cm
<b>Treatment Mode</b>	CW, Continuous and pulse		

**5 YEAR**  
WARRANTY

We provide a 5-year warranty with our equipment and have two service plans to choose from based on your usage.

Financing is available to make high-quality equipment accessible from the outset.  
Simply contact us for more information.



**Weighs only  
8.5KG**

## WHAT'S INCLUDED:

- Leonardo Laser
- Laser fibres
- X4 Clear laser goggles
- Foot switch & cable
- Remote interlock
- Ceramic scissors
- Laser warning sign
- User manual



# Here's why so many vets choose the Leonardo Dual 45

"We purchased the Leonardo laser because we trust MED Equus to provide high quality equipment and good after sales support.

The Leonardo is extremely easy to use and set up. You can change the settings at the touch of a button part way through a procedure."

**JAMES MCINTOSH - SOUTHMOOR EQUINE**



"I like the user interface with ease of adjustable settings and portable. Being able to adjust the setting to vary the proportion of each wavelength is useful. For delicate areas we use less of the 980nm wavelength to reduce thermal damage."

**VICKY GROVE - THE DONKEY SANCTUARY**





“The combined wavelength was really effective during our first 3 months of surgery.”

**LEADING CHARITY WHO COMPLETED 16 SURGERIES IN 3 MONTHS AND HAD ONLY 1 CASE THAT BLED.**

“MED Equus Diode laser machine has been revolutionary for our large oncology caseload. The machine is easy to set up and the ability to change settings according to tissue type ensures exceptional control for sarcoid and melanoma removal and for lack of bleeding and haemostasis.”

**KATIE SNALUNE - OWNER AND HEAD OF KENT EQUINE HOSPITAL**



“Most user friendly laser on the market, much faster sarcoid removal compared to competitor machine we used to hire!”

**JESS WATSON - HAMPDEN EQUINE**



## Full clinical training is provided

Everything you need to confidently integrate this equipment into your equine practice, right from day one.



medview SURGICAL LASER SUITE

Leonardo DUAL 45 + medview DV3 AIRWAY

100%  
COMPATIBLE

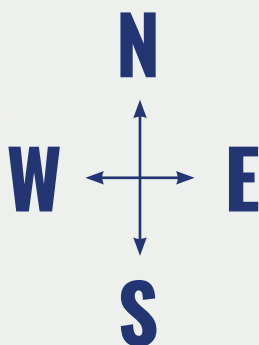
## State of the art, titanium-tipped laser compatible airway scope

The most feature-rich and high performance airway scope in the MED Equus collection.

Suitable for road or clinic based vets, looking for superb image quality, durability and performance.

- Unique infra-red laser filter - No white out
- Titanium distal tip for durability
- 6 O'Clock channel for midline surgical laser resection

DV3 LASER STAND  
SINGLE HANDED OPERATION



The imaging platform for road and hospital vets

- **Instant Sharing**  
Whatsapp / Wi-fi
- **Seamless Integration**  
Interchangeable between scopes
- **Split Screen Comparisons**  
Compare a live feed against a previous examination



## Need a bigger screen?

iHUB has optional HDMI output for scenarios that require a larger screen for optimal viewing.

**Optional  
HDMI output**





- Design & Innovation
- Customer Service
- Servicing Plans



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