



VETERINARY APPLICATION

# LEONARDO<sup>®</sup>

## DUAL 45/100

biolitec<sup>®</sup> is one of the world's leading medical technology companies in the field of minimally invasive laser applications. The unique LEONARDO<sup>®</sup> diode laser from biolitec<sup>®</sup> is the first universally applicable medical laser with a combination of two wavelengths, 980 nm and 1470 nm, which can be used in all disciplines.



## Equine

ENT application: Nose and Larynx operations  
One of the main indications: Laryngeal hemiplegia  
Surgical indications like resection / vaporization of tumors and cysts in different medical fields

## Small animals / exotic animals

Wide range of applications in different medical fields:

- Ear, nose, throat
- Larynx Gynecology
- Urology General surgery

[www.biolitec.com](http://www.biolitec.com)



**LEONARDO® DUAL 45**

INVISIBLE LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR INDIRECT RADIATION

**CLASS 4 LASER PRODUCT**  
Diode-Laser 980 +/- 30 nm CW 30 W (Max.)  
Diode-Laser 1470 +/- 30 nm CW 15 W (Max.)  
EN 60825-1:2008 EN 60601-2-22:2007

VISIBLE LASER RADIATION  
AVOID EYE EXPOSURE TO DIRECT RADIATION

**CLASS 3R LASER PRODUCT**  
Diode-Laser 635 +/- 10 nm CW 4 mW (Max.) (Aiming)  
Diode-Laser 1470 +/- 30 nm CW 15 W (Max.)  
EN 60825-1:2008 EN 60601-2-22:2007

**LEONARDO® DUAL 100**

INVISIBLE LASER RADIATION  
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**CE** 1984

**CeramOptec GmbH**  
Siemensstr. 44, D-53121 Bonn

Model	LEONARDO® DUAL 100	LEONARDO® DUAL 45
REF	SL980+1470nm100W	SL980+1470nm45W
Wavelength	980 nm and 1470 nm	980 nm and 1470 nm
Performance	max. 100 Watt (1470 nm / 15 Watt + 980 nm /85 Watt), individually adaptable	max. 45 Watt (1470 nm / 15 Watt + 980 nm /30 Watt), individually adaptable
Fiber diameter	≥ 360 µm	≥ 360 µm
Laser class	4	4
Target beam	532 nm and 635 nm, green 1 mW, red 4 mW, user-defined intensity	532 nm and 635 nm, green 1 mW, red 4 mW, user-defined intensity
Treatment mode	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode
Impulse length/ break	0.01 - CW/ 0.01 - 60 sec	0.01 - 60 sec/ 0.01 - 60 sec
Energy supply	110 - 240 VAC, 50/60 Hz, 600 VA	110 - 240 VAC, 50/60 Hz, 450 VA
Cooling	-	-
Measurements (H x W x D)	approx. 27.50 cm x 37 cm x 8.5 cm	approx. 28 cm x 37 cm x 9 cm
Weight	approx. 8.5 kg	approx. 8.5 kg



The laser energy is „transported“ to the surgical field with special laser probes, partially fixed in special handpieces. Just ask our experts for details:

