OPAL
KOMBI

Combined CO_2 and diode
medical laser

Treatment of complications
of COVID19
Treatment of infections
Otolaryngology (ENT)
Dermatology
Plastic surgery
Oral surgery
Gynecology
Ophthalmology
Laparoscopic surgery
General surgery

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LASRAM

CO_2 and diode laser, combined.

Three of the mostly used laser technology in one device. The revolutionary combination of 10600, 1470 and 980nm wavelength allows the Opal Kombi to open new possibilites for fast end efficient surgeries.

Lasram's OPAL Kombi with power levels ranging from 7 to 40W can be used with a variety of handpieces and accessories in all medical fields.

Guiding laser beams of different wavelengths along a beam line requires special solutions. The guiding mirrors of the laser beam are coated with a multi-wavelength reflection (Wide Broad Reflecting) coating, which is capable of transmitting laser beams of different wavelengths with high efficiency.
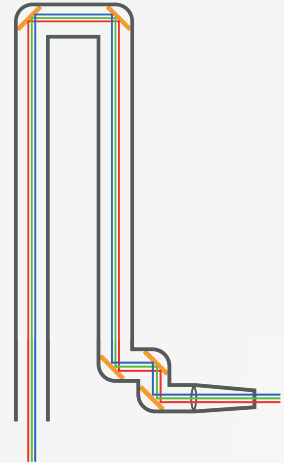
| CO_2 laser	Diode laser
10600nm beam	980 nm beam
	1470 nm beam

MAIN FEATURES

- Optimal for treating complications of COVID19 and other infections

- CO_2 (1600nm) and diode (980nm) laser combined

- Option for 980 and 1470nm diode laser combination

- 0.1-0.2 μm Spot Diameter

- Spring loaded smooth arm balancing

- Tilting 9" color touchscreen

- For all medical areas

ADVANTAGES OF THE COMBINED LASERS

- Operating in the high wavelength range, it is optimally suited for the treatment of complications of COVID19 and other infections.

- Interventions that previously required multiple tools can now be easily performed.

- Because of the wide wavelength range, no other traditional surgical devices such as electro-acuters or other haemostatic solutions are needed during surgery.

- Unexpected events during surgery can be dealt with quickly and efficiently, ensuring a bleeding-free or minimal bleeding operation.

- The combination of 10600nm and 980nm technology can reduce bleeding in the event of a cut during surgery. Operating simultaneously with CO2 laser cutting, the 980nm laser can close blood vessels up to 1mm in diameter.

- By using a 980nm laser wavelength, we can treat inflamed areas. This type of irradiation can reduce the degree of inflammation.

Three laser technology in one package. The Lasram Kombi laser system is a compact, ergonomic device in a modern shape with user friendly opereation.
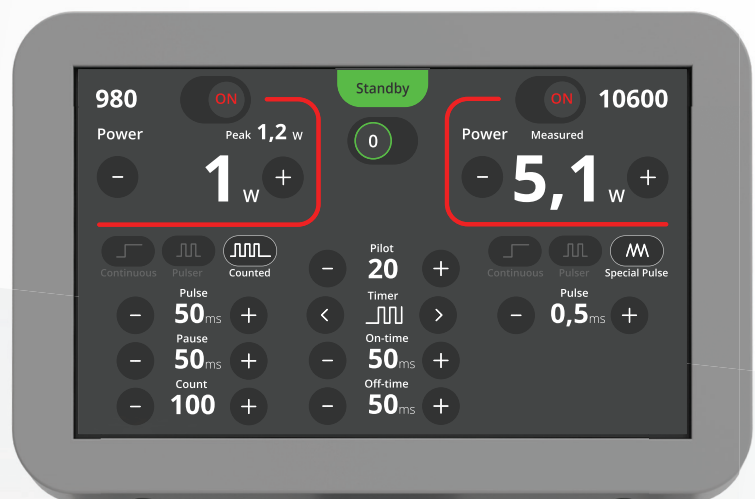
The user interface has been designed to be clear and intuitive, so that the surgeon can focus on the procedure. The simple and modern design is appealing on the tilting 9" touchscreen display with wide viewing angle IPS technology.

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S p e c i f i c a t i o n s

Laser source	DC excited CO_2 and diode laser sources
Wavelength (CO_2)	10600nm
Wavelength (Diode)	980nm, 1470nm
Power on tissue	0.1-40W
Power on tissue (Super Pulse)	0.4-12W/0.6-18W
Operating modes (CO_2)	Continuous (CW), Single pulse, Repeat pulse, Special pulse, Super pulse
Operating modes (Diode)	Continuous (CW), Single pulse, Repeat pulse,
Aiming beam	3mW 635nm diode laser
Beam delivery arm	7 joint articulated, spring balanced, 1300mm radius
Cooling	Air
Operating panel	9" tiltable color touchscreen LCD display
Memory	5 freely programmable + scanner parameters
Power supply input	230V, 50Hz, 4A, PE
Weight	45kg
Dimensions	Width: 460mm, Depth: 500mm, Height: 1800mm

1800 mm
1350 mm
460x500 mm
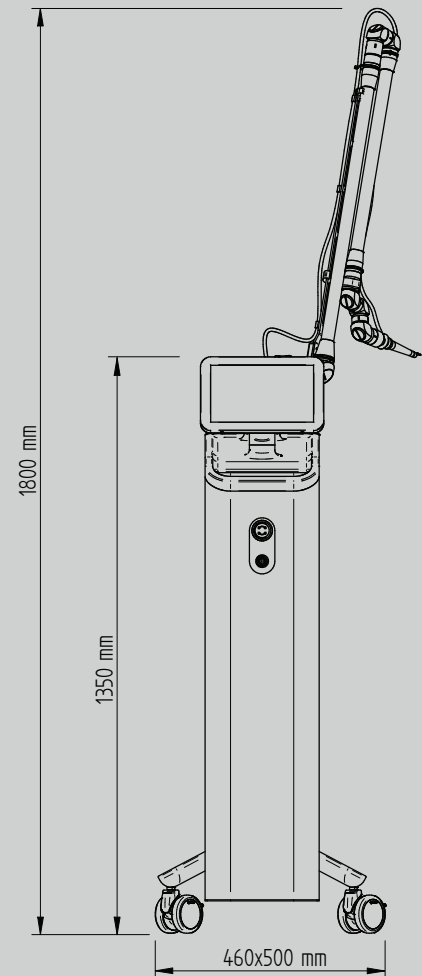
About Lasram

Lasram is a European medical and industrial laser system developer and manufacturer company, based in Hungary and Germany. Lasram products are developed, tested and manufactured according to the international standards. The company is EN ISO 9001:2015 and EN ISO 13485:2016 certified and has EN ISO 14001:2015 environmental management certificate.

HUNGARY
H-1044 Budapest
Ezred utca 2. B2/2
Tel: +36-1-688 1910

H-2500 Esztergom
Mátyás Király utca 44.
Tel: +36-33-501 015

GERMANY
D-85774 Unterföhring
Münchner Str. 18.
Tel: +49-89-2441 3103

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