

ENT

Minimally invasive
laser therapies in ENT



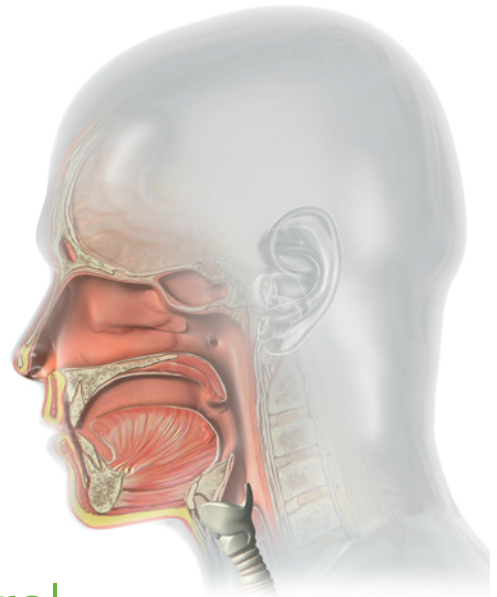
- Precision
- Excellent hemostasis
- Multi-purpose and versatile

Laser solutions for outpatient ENT surgery

The biolitec® laser and fiber systems have a compact, maintenance-free design for effective and safe use in ENT surgery. Specifically developed for various applications, this sophisticated system offers a wide range of possibilities for minimally invasive laser therapy of ear, nose and throat ailments. Whether in the OR, in out-patient clinic or in private practice - the range of applications can be extended according to individual requirements.

Effective, precise, minimally invasive with dedicated solutions in the following areas:

- Endonasal surgery
- Oropharynx
- Dacryocystorhinostomy (DCR)
- Otology
- Larynx
- Pediatrics

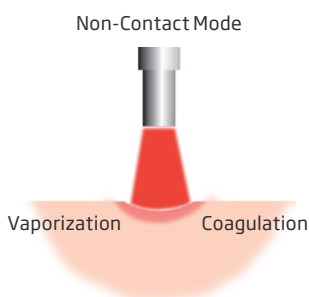
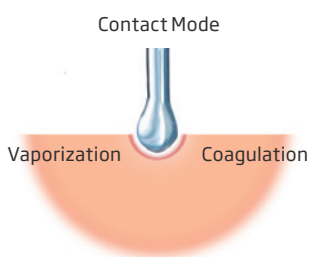


Significantly better hemostasis and control

The wavelength of 980 nm has a high absorbance in hemoglobin whereas the 1470 nm has a high absorbance in water. The thermal penetration depth of the LEONARDO® DUAL laser therefore can be adjusted to the needs of the particular ENT application by just a finger tip. This allows safe and precise procedures to be performed close to delicate structures while protecting the surrounding tissue. Compared to the CO₂ laser, this special wavelength set exhibits a significantly better hemostasis and prevents bleeding during the operation, even in hemorrhagic structures such as nasal polyps and hemangioma. With the biolitec® LEONARDO® DUAL laser system, precise excisions, incisions and vaporization of hyperplastic and tumorous tissue can be performed effectively with almost no side effects.

Advantages

- Microsurgical precision
- Tactile feedback from the laser fiber
- Minimal bleeding, optimal in situ overview during the operation
- Few post-operative measures required
- Short recovery period for the patient



Applications

- Turbinate hyperplasia
- Septal spur, septal deformation
- Epistaxis, Morbus Osler
- Synechias, stenoses in endonasal structures
- Concha bullosa
- Paranasal surgery
- Polyposis nasi et sinuum
- Cysts, mucocoeles
- Tonsillotomy
- Laser assisted Uvulopalatoplasty (LAUP)
- Partial glossectomy
- Tumor vaporization

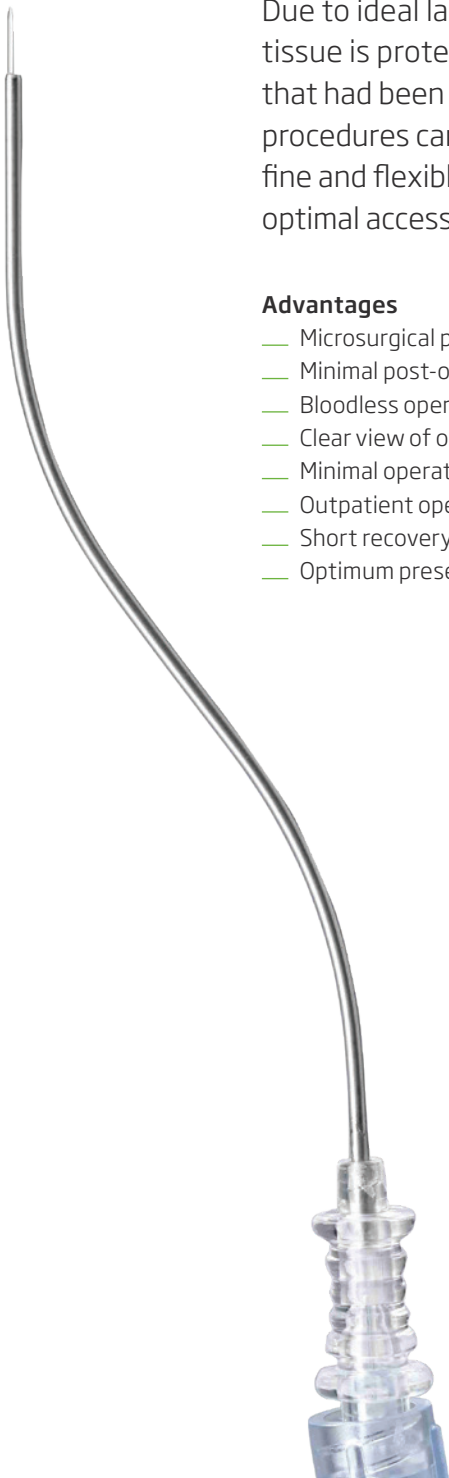
Ambulatory treatment

Endo Nasal surgery

Endoscopic surgery is an established, modern process in the treatment of nasal and paranasal sinuses. However, due to the strong bleeding tendency of the mucosal tissue, surgical treatment in this area is often challenging. A poor operating field of vision due to bleeding often results in imprecise work; prolonged nasal packing and significant patient and doctor effort is usually unavoidable. The main imperative in endonasal surgery is to maintain the surrounding mucosal tissue as much as possible. New designed fiber with special conical fiber tip on distal end allows atraumatic entrance into nose turbinate tissue and vaporization could be performed in interstitially way to protect mucosa outside completely. Due to ideal laser-tissue interaction of wavelength 980 / 1470 nm, adjacent tissue is protected optimally. This leads to rapid reepithelialisation of bone areas that had been opened up. As a result of the good hemostatic effect, precise procedures can be undertaken with a clear view of the operating area. Using the fine and flexible biolitec® optical laser fibers with core diameter of min. 400 µm, optimal access to all nasal areas is guaranteed.

Advantages

- Microsurgical precision
- Minimal post-operative swelling of tissue
- Bloodless operation
- Clear view of operating field
- Minimal operative side effects
- Outpatient operation possible under local anesthesia
- Short recovery period
- Optimum preservation of surrounding mucosal tissue



Oropharynx

One of the most frequent operations in the oropharynx area is laser tonsillotomy in children (Kissing Tonsils). In pediatric symptomatic tonsillar hyperplasias, LTT represents a sensible, gentle and very low risk alternative to tonsillectomy (children up to 8 years of age). The risk of post-operative bleeding is minimal. The minimal amount of post-operative pain thanks to the shortened period of healing, the ability to perform out-patient operations (with general anesthesia) and the leaving behind of a tonsillar parenchyma are significant advantages of laser tonsillotomy. Laser-assisted Uvulopalatoplasty (LAUP) can be performed for snorers using the biolitec® system. Due to the ideal laser-tissue interaction, tumor or dysplasias can be removed bloodlessly while keeping the adjacent tissue unaffected. A partial glossectomy can only be done under general anesthesia in a hospital operating room.

Advantages

- Outpatient operation possible
- Minimally invasive, bloodless procedure
- Short recovery time with little post-operative pain



Dacryocystorhinostomy (DCR)

Hindered drainage of tear fluid, caused by a blockage of the lacrimal duct, is a common condition, particularly amongst older patients. The traditional treatment method is to surgically reopen the lacrimal duct externally. However, this is a lengthy, difficult procedure associated with a high potential for side effects such as strong, post-operative bleeding and scar formation. biolitec® has developed a procedure kit for DCR that makes the reopening of the lacrimal duct a safer, minimally invasive procedure. The thin cannula with its atraumatically shaped mandrel is introduced once in order to perform the treatment painless and bloodlessly. Then, the required drainage is set in place using the same cannula. The procedure can be done under local anesthesia and leaves no scars.

Advantages

- Atraumatic procedure
- Limited complications and side effects
- Local anesthesia
- No post-operative bleeding or oedema formation
- No infections
- No scars

Clinical applications

Otology

In the field of Otology, biolitec®'s advanced LEONARDO® diode laser systems extend the range of minimally invasive treatment options. Laser PARACENTESIS is a minimally invasive and bloodless treatment operation that opens the eardrum with a single shot contact technique. The small circular perforated hole in the eardrum, performed by the laser, has the advantage of remaining open for about three weeks. The emission of liquid is easy to handle and therefore the healing process after inflammation is considerably shorter, compared to conventional surgical treatment options.

A large number of patients is suffering from OTOSCLEROSIS in the middle ear. The LEONARDO® technique, combined with flexible and thin 200 micron fibers, offers ear surgeons minimally invasive treatment options for laser STAPEDECTOMY (a single pulse laser shot to perforate the foot-plate) and laser STAPEDOTOMY (a circular opening of the stirrup footplate for pick up special prosthesis afterwards). In comparison to the CO₂ laser, the contact beam method has the advantage of eliminating the risk that the laser energy inadvertently affects other areas in the small middle ear structure.

Larynx

The main imperative in surgical treatments in the larynx area is to avoid significant scar formation and undesired tissue loss since this can significantly affect phonetic functions. The pulsed diode laser application mode is used here. This way, the thermal penetration depth can be further reduced; tissue vaporization and tissue resection can be executed precisely and in a controlled manner, even on sensitive structures, while optimally protecting the surrounding tissue. Main indications: vaporization of tumors, papilloma, stenosis and removal of vocal cord polyps.

Pediatrics

In pediatric procedures, surgery often involves very narrow and delicate structures. The biolitec® laser system offers considerable advantages. Using extremely thin laser fibers, such as in connection with a microendoscope, even these structures can be easily reached and precisely treated. For example, recurrent papiloma, a very common indication in children, becomes a bloodless and painless operation, with postoperative measures being significantly reduced.



LEONARDO®



Model	LEONARDO® Mini Dual	LEONARDO® DUAL 45
REF	SL980+1470nm16W	SL980 + 1470 nm 45 W
Wavelength	980 nm and 1470 nm	980 nm and 1470 nm
Power	11 W (980 nm) / 5 W (1470 nm)	max. 45 Watt (1470 nm / 15 Watt + 980 nm / 30 Watt) separately adjustable
Fiber diameter	≥ 360 µm	≥ 360 µm
Aiming beam	635 nm, max. 4 mW	532 nm and 635 nm, green 1 mW, red 4 mW, user controlled intensity
Treatment mode	CW, Pulse Mode (optional)	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode
Pulse duration /-break	0.01 – 60 sec. / 0.01 – 60 sec.	0.01 – 60 sec. / 0.01 – 60 sec.
Power supply	110 – 240 VAC, 50 – 60 Hz (7.2 VDC @ 36 W)	110 – 240 VAC, 50 / 60 Hz, 450 VA
Batteries	Li-ion batteries	–
Dimensions (H × B × T)	6 cm × 9 cm × 21.5 cm	approx. 28 cm × 37 cm × 9 cm
Weight	900 g	approx. 8.5 kg

All laser sets incl. 3 safety goggles, foot switch, interlock connector, power cord and manual in a carrying case.

Fibers

REF	Product	PU*	length [m]	OD ø [mm]
503200755	ENT Fiber CS, IC	5	2.5	0.96
503200800	ENT Fiber RE USE, IC	5	2.5	0.95
503201921	Reusable Bare Fiber 600 µm, Flat Tip, IC (10x1 h)	5	3	0.95
503201919	Reusable Bare Fiber 600 µm, Flat Tip, IC (10x12 h)	5	3	0.95
503200740	Bare Fiber 600 µm, Flat Tip, IC	10	2.6	0.96
505200920	Bare Fiber Tip 600 µm	10	0.165	0.96
503200390	Coupling Fiber 400 µm	1	3	–

Fibers/Otology

503200765	ENT-24-DL-CB, IC	5	2.6	0.56
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Kits

503300625	DCR Procedure Kit, IC	5	2.6	2.0
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Handpieces and Instruments

REF	Single Use Product	PU*	ID
400100300	Laser surgical handpiece 9 cm with suction channel REF S165	25	1.1
400100310	Laser surgical handpiece Larynx 20 cm with suction channel REF S165	25	1.1
	Reusable Product		
AB1326-1	Offset – Rigid 10 cm, 16 ga REF 9132	1	1.1
AB1321-1	Curved – Rigid 11 cm, 16 ga REF 9123	1	1.1
AB1319-1	Straight – Rigid 11 cm for 600 – 800 µ Fibers REF 9113	1	1.1
AB1481-1	Straight – Rigid 5 cm, 16 ga REF 912	1	1.1

Accessories

400100115	Medi Strip 0,7/1.2 BF 600 µm, autoclavable	1
400100130	Ceramic Fiber Cleaver	1
LA7209	Laser safety goggle LEONARDO DUAL	1
AB1323	Fiber Stripping Tool	1

* packaging unit

Contact us

to learn more about a whole new world
of minimally invasive laser therapies



- Venous diseases
- Hemorrhoids and fistulas
- Wide spectrum of ENT diseases
- BPH and urological tumors
- Uterine tumors
- Cervical and lumbar disc herniation
- Lung metastases and bronchial tumors

biolitec® worldwide

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All fibers are free of latex and DEHP. Our fibers are single use products (unless otherwise indicated) delivered sterile for immediate use.

Imprint

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LEONARDO®



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Pulse duration /-break	0.01 – 60 sec. / 0.01 – 60 sec.	0.01 – 60 sec. / 0.01 – 60 sec.
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* packaging unit

HOLA[®] ELLA[®] LaEvita



Innovative Laser Therapies in Gynecology



More insights



- Precise
- Excellent hemostasis
- Versatile
- Working in non-contact or contact

biolitec® laser therapies in Gynecology

The biolitec® diode laser systems are characterized by a compact, maintenance-free design for effective and safe use in surgery. For almost 20 years biolitec® has been developing methods and procedures in many medical disciplines and offers established and sophisticated devices with a selection of optical fibers for different applications. The laser systems used worldwide are developed in Germany at the Bonn location and are characterized by high quality and safety standards. Whether in the operating room or in the outpatient OR center, the use of biolitec® diode lasers significantly expands the spectrum of users.

In gynecology, biolitec® offers a wide range of treatment options in both hysteroscopy and laparoscopy. Myomas, polyps, dysplasia, cysts

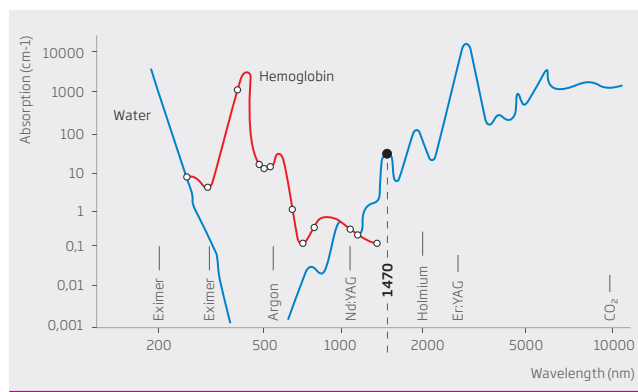
and condylomas can be treated by cutting, enucleation, vaporization and coagulation. Controlled cutting with laser light has hardly any effect on the uterine muscles and thus avoids painful contractions. The simultaneous coagulation guarantees excellent hemostasis and therefore a good view on the surgical field at all times. The defined penetration depth allows very precise and tissue-friendly working and is therefore the method of treatment with a great contribution to preserving fertility.

Easy to use, precise & versatile in

- **Hysteroscopy**
- **Laparoscopy and**
- **Minimally invasive surgery**

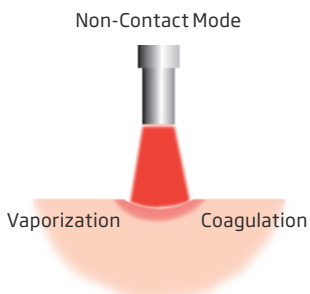
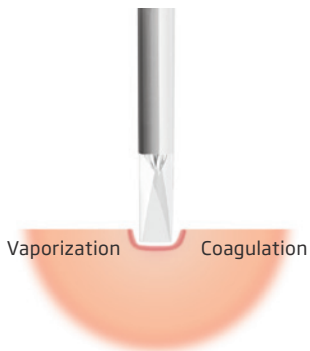
“Technology meets Anatomy”

The 1470 nm/980 nm wavelengths ensure high absorption in water and hemoglobin. The thermal penetration depth is significantly lower than, for example, the thermal penetration depth with Nd: YAG lasers. These effects enable safe and precise laser applications to be performed near sensitive structures while providing thermal protection of the surrounding tissue. Compared to the CO₂ laser, these special wavelengths offer significantly better hemostasis and prevent major bleeding during surgery, even in hemorrhagic structures.



Absorption of laser beam in hemoglobin and water

Contact Mode



With thin, flexible glass fibers you have very good and precise control of the laser beam. The penetration of laser energy into deep structures is avoided and surrounding tissue is not affected. Working with quartz glass fibers in non-contact and contact offers tissue-friendly cutting, coagulation and vaporization.

LEONARDO® DUAL

Easy

- Easy handling
- Reduced surgery time

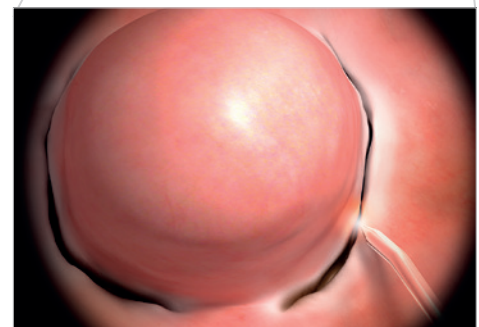
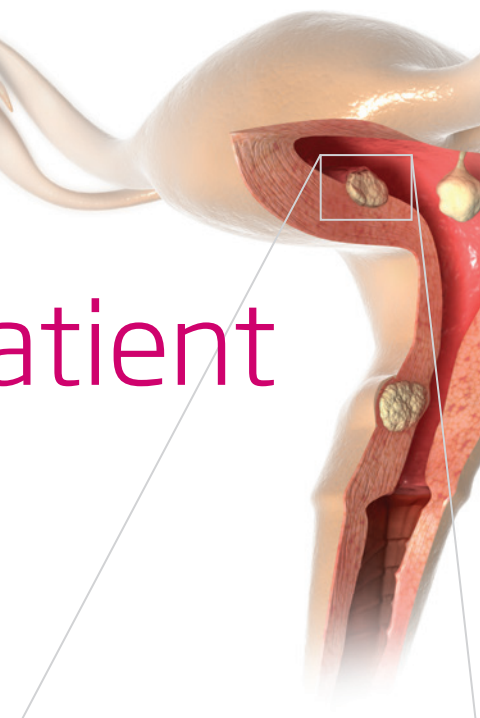
Safe

- Intuitive interface
- RFID for sterility assurance
- Defined penetration depth

Flexible

- Contact or non-contact with tactile feedback
- Cutting, coagulation, hemostasis

HOLA® – Hysteroscopic Outpatient Laser Application



Enucleation of a myoma with MyoFiber® CC

The gentle and, above all, uterine preserving treatment of polyps and myomas is especially important for women who wish to have children. Polyps and myomas can be enucleated quickly and gently with the MyoFiber® CA and MyoFiber® CC. The use of standard diagnostic hysteroscopes with small diameter allows direct treatment during diagnosis. The laser energy avoids contraction of the uterine muscles and can therefore be used without or under minimal local anesthesia. In addition, in the treatment of the uterine septum, the laser may be a more conservative technique that can maintain the muscular integrity of the uterus without weakening the myometrium. This can be a great advantage in women who wish to have children after surgical treatment.

Applications

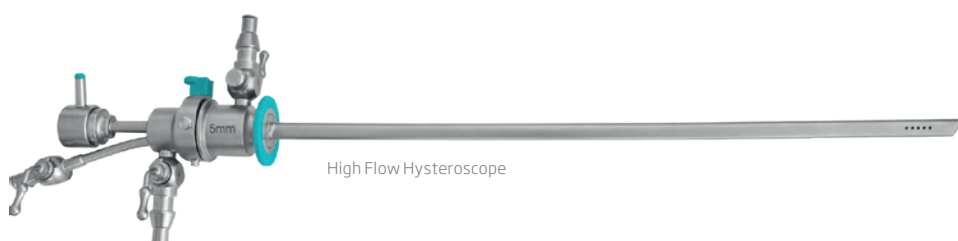
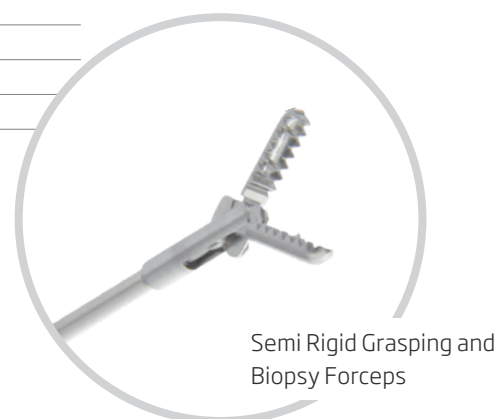
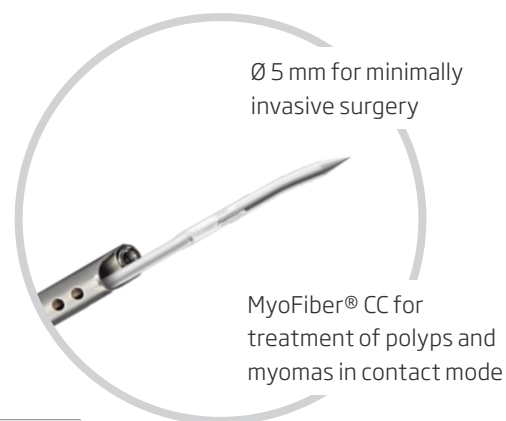
- Polyp
- Myoma
- Septum
- Isthmocele

Advantages

- Safe working in saline solution
- Outpatient possible without anesthesia
- Use of standard instruments
- Almost painless for patients

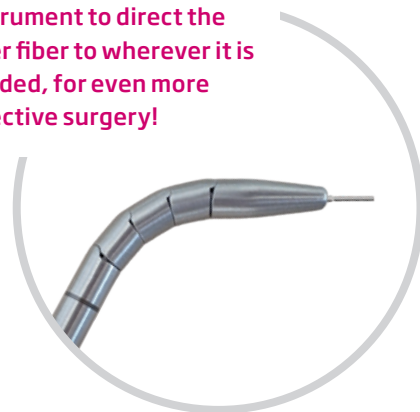
Instruments and fibers

REF	Product
400400130	continuous flow outer sheath Ø 5,0mm; FL 216mm turquoise
400400140	inner sheath with 5 Fr. working channel; turquoise
400400150	Biopsy grasping-forceps semi-rigid, oval, double action Ø 1,6mm, 5 Fr., 340mm
400400160	ENDOSCOPIC SEAL
400500130	ASAP Hysteroscope optics HD, 2.9mm, 30°, 300mm
503200760	MyoFiber® CC, IC
503200770	MyoFiber® CA, IC



ELLA® – Endometriosis Laparoscopic Laser Application

Discover the new
Laparoscopic Bending
Instrument to direct the
laser fiber to wherever it is
needed, for even more
effective surgery!



Endometriosis is one of the main causes in women of infertility and abdominal pain. biolitec® has developed an innovative technique to preserve fertility in women. The laser effectively vaporizes endometriotic lesions without altering ovarian function and sparing the number of available follicles.

Applications

- Deep Infiltrating Endometriosis
- Ovarian Endometriomas
- Adhesiolyses
- Salpingectomy
- Ovarian Cysts
- Twin-to-Twin Syndrome TTTS

Advantages

- Working in non-contact or contact with tactile feedback
- Defined penetration depth without impact on surrounding tissue
- Preservation of ovarian reserve and fertility
- Excellent hemostasis
- Reduced scarring and avoidance of adhesions



Endometriosis, ovarian cyst

Instruments and fibers

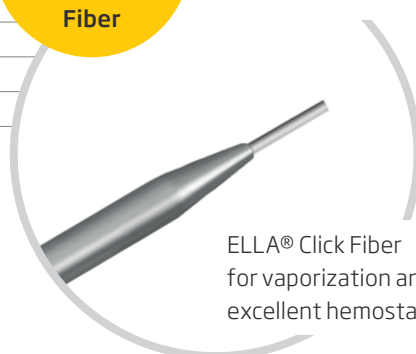
REF	Product
400400110	Laparoscopic sheath 30 cm
400400115	Laparoscopic sheath 40 cm
400400120	Laparoscopic Bending Instrument
503200600	ELLA® Click Fiber, IC
503200775	MyoFiber® CS, IC



ELLA® Click Fiber and Laparoscopic bending instrument

Get
maximum
security with
ELLA® Click
Fiber

Laparoscopic sheath
Ø 5 mm for all standard trocars



ELLA® Click Fiber
for vaporization and
excellent hemostasis



LaEvita

The laser treatment of genito-urinary syndrome of the menopause

biolitec® has the complete solution to the main disorders affecting the female reproductive system.

Applications

- Vaginal atrophy
- Mild stress urinary incontinence
- Recurrent infections

Advantages

- It significantly reduces vaginal dryness and pain without side effects
- It helps maintain a fulfilling intimate life
- Fully outpatient procedure
- No anesthesia required
- No side effects
- Effective
- Almost no pain
- No downtime

Instruments and fibers

REF	Product	REF	Product
400500400	LaEvita Small	400500430	LaEvita Handpieces Set
400500410	LaEvita Medium	503200610	Vaginal Atrophy LaEvita Kit, IC
400500420	LaEvita Large	503200620	Urinary Incontinence LaEvita Kit, IC

Minimally invasive surgery

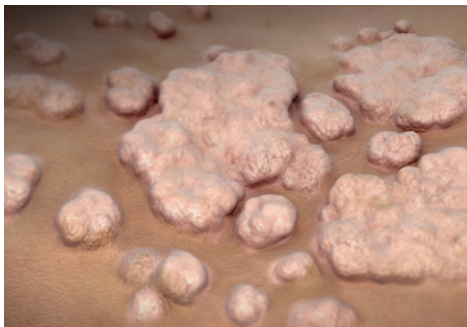
Laser surgery is also excellently suited for the treatment of condylomas or dysplasia in the areas of vulva, vagina and cervix. The defined penetration depth of the laser energy is less invasive, leading to fewer complications and a quick recovery of the patients.

Applications

- Condyloma
- Cervical Ectropion
- Vulvar and Cervical Dysplasia

Advantages

- Precise cutting and coagulation
- Short rehabilitation time
- Almost blood-free procedure



Condylomata acuminata

Instruments and fibers

REF	Product
400100100	Universal Dual Luer Handpiece
503200775	Myofiber CS, IC
AB2594	Biopsy Needle
503200970	LOMA Focus Handpiece



Universal Dual Luer Handpiece



LOMA Focus Handpiece

LEONARDO®

One device for multiple applications
in Gynecology

LEONARDO® DUAL 45
The complete solution
for gynecology and more



LEONARDO® Mini
For hysteroscopy
and condylomas



LEONARDO®

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 532 +/- 10 nm CW 1 mW (Max.) (Aiming)
EN 60825-1:2008 EN 60601-2-22:2007

LEONARDO® Mini Dual

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
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CLASS 4 LASER PRODUCT

Diode-Laser 980 +/- 30 nm CW 13 W (Max.)
Diode-Laser 1470 +/- 30 nm CW 5 W (Max.)
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VISIBLE LASER RADIATION
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CE 1984

CeramOptec GmbH
Siemensstr. 44, D-53123 Bonn

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Fiber diameter	≥ 360 µm	≥ 360 µm
Aiming beam	635 nm, max. 4 mW	532 nm and 635 nm, green 1 mW, red 4 mW, user controlled intensity
Treatment mode	CW, Pulse Mode (optional)	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode
Pulse duration /-break	0.01 – 180 sec / 0.01 – 180 sec	0.01 – CW / 0.01 – 60 sec
Power supply	110 – 240 VAC, 50 – 60 Hz (12 VDC Max 100 W)	110 – 240 VAC, 50 / 60 Hz, 450 VA
Batteries	Li-ion batteries	–
Dimensions (H x W x D)	6.0 cm x 9.0 cm x 21.5 cm	approx. 28 cm x 37 cm x 9 cm
Weight	900 g	approx. 8.5 kg

All laser sets incl. 3 safety goggles, foot switch, interlock connector, power cord and manual in a carrying case.

Contact us

to learn more about a whole new world
of minimally invasive laser therapies

For more insights



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All fibers are free of latex and DEHP. Our fibers are single use products (unless otherwise indicated) delivered sterile for immediate use.

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LaEvita

Regain your femininity

The laser treatment of genito-urinary syndrome of the menopause

biolitec® has the complete solution to the main disorders affecting the female reproductive system.



Why LaEvita?

LaEvita is the new virtually pain-free solution to the treatment of **vaginal atrophy** and **mild stress urinary incontinence**. Unlike other CO₂-lasers, this is a **NON-ablative and NON-destructive tissue technique** that is virtually painless and well tolerated by patients.

How does it work?

Thanks to the special applicator, the LEONARDO® Dual laser emits a gentle, painless light that stimulates collagen production and restores vaginal elasticity and hydration, and improves vascularization of the vaginal mucosa. Each session lasts about 10 minutes and is performed without anesthesia. The treatment includes 3 sessions at 4-week intervals. In more severe cases, 1 additional session may be necessary. The procedure is performed on an outpatient basis, is virtually painless for the woman, and does not require hospitalization.

What is required?

The technique requires the use of the LEONARDO® Dual laser, the use of special reusable LaEvita handpieces and dedicated kits for the treatment of vaginal atrophy or urinary incontinence

Advantages

- It significantly reduces vaginal dryness and pain without side effects
- It helps maintain a fulfilling intimate life
- Fully outpatient procedure
- No anesthesia required
- No side effects
- Effective
- Almost no pain
- No downtime



LaEvita Handpieces*

REF	Product	Outer ø [mm]	Inner ø [mm]	Length ø [mm]
400500400	LaEvita Small	24	2,20	100
400500410	LaEvita Medium	24	2,20	135
400500420	LaEvita Large	28	2,20	135
400500430	LaEvita Handpieces Set - (LaEvita small, medium, large)			

*The Vaginal Handpiece is a reusable for use in gynecological vaginal treatments.



LEONARDO® DUAL 45
The complete solution
for gynecology and more

Kits

REF	Product	Components	Quantity
503200610	Vaginal Atrophy LaEvita Kit, IC	Coupling Fiber, IC	1
		Side Fiber Tip	10
503200620	Urinary Incontinence LaEvita Kit, IC	Coupling Fiber, IC	1
		Radial Fiber Tip	10
		Side Fiber Tip	10



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Contact us



LOMA

Focusing handpiece

Lasertherapy for condylomas



LOMA

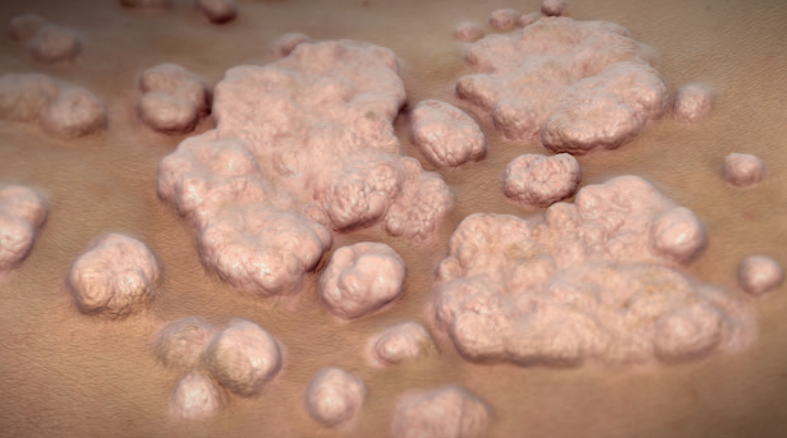
REF	Product
503200970	LOMA Focus Handpiece
AB 2854	LOMA Handpiece Protection Cap



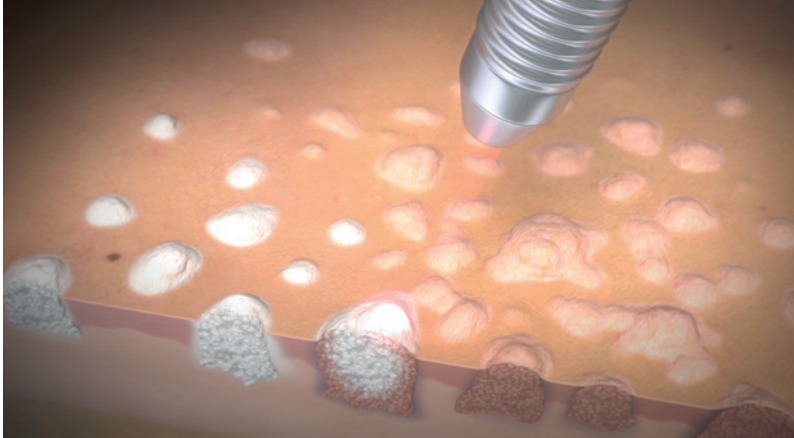
LOMA Focus
Handpiece



LEONARDO® DUAL 45
universal & ingenious



Condyloma acuminata before



Laser treatment

Condyloma – effectively treated with LEONARDO® DUAL and LOMA

The LOMA focusing handpiece was specially developed for the treatment of condylomas. Condylomas are genital warts caused by a virus, the so-called human papillomavirus (HPV). With the focused laser spot of 1.0 mm, the affected areas are irradiated with the LEONARDO® DUAL laser.

Application:

- Vaporization of the affected areas with DUAL wavelengths 980 nm and 1470 nm
- Complete destruction of the viral genome by depth effect
- Non-contact procedure
- Cost-effective treatment with reusable handpiece

Features of the LOMA:

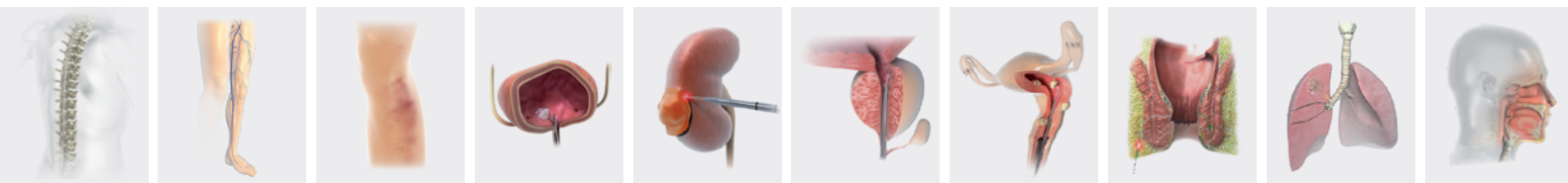
- Two-year service life guarantees reliable functionality
- In a set with three sterilizable caps so that several patients can be treated one after the other

Advantages:

- Bloodless surgical field
- Little smoke development
- Short treatment time
- No burns, vital surface of the skin
- Less post-operative pain

Under the roof of biolitec AG, CeramOptec SIA, based in Livani, develops and distributes diode lasers and high-quality light guides. With numerous international offices, the biolitec group has been present internationally for over 30 years.

For more information on other areas of application, please visit **www.biolitec.com** and contact us.



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