

OTOLARYNGOLOGY BREAKTHROUGH

Photoniccs Lasers have been accepted as the latest advanced surgical tool. Known for their accuracy and efficiency, lasers provide safetreatments and instill a sense of confidence into the surgeons as well as the patients. The field of Otolaryngology has benefitted significantly from today's diode lasers.

Surgeons can confidently perform 100% bloodless surgeries with confidence. Photoniccs 15W Laser is perfect for ENT surgeries including nose, ear, neck, larynx and more. Earlier, CO2 lasers, Argon lasers and Nd:YAG lasers were widely used for ENT applications. Today, however, diode lasers have advanced significantly to offer all these benefits in a single package. In each and every characteristic, be it coagulation effect, absorption degree or tissue cutting; diode lasers offer more precision and efficiency compared to all these lasers.

Photoniccs 15w/980nm is a lightweight and portable 980nm wavelength Diode laser with a fiber optic delivery system offering affordable and efficient surgical procedures.

ADVANTAGES IN ENT

- Bloodless Treatment with High Precision
- Fast and gentle outpatient treatments
- Minimally-invasive surgery using flexible fiber optics
- Easy endoscopy based operations
- Quick healing
- Improved patient compliance
- Minimum to nil postoperative complications

WHT PHOTONICCS LASER

- Over twenty years of experience in laser technology.
- we provides unique tips for different applications in ENT
- Cutting edge technology
- Extendable database of predefined therapy protocols which can be modified and assigned to a patient.
- Lowest operating costs.
- Very Compact and Small-sized device.
- Flexibility of development other customized parameters and OEM products.



TECHNICAL PARAMETERS

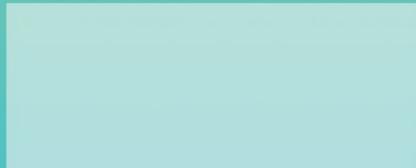
Laser type : Diode, Semiconductor
Wavelength : 980nm
Max Power : 15 watts
Aiming beam : 635nm, < 5mw
Operation Mode : Continuous or pulsed
Pulsed Time : 0.05ms~1000ms
Beam Delivery : SMA905 connector
Optic Fiber Compatible : Optic fibers having a core from 200um to 1000um, NA=0.22~0.48
Beam Emission Initiation : Footswitch
Controller : Microprocessor
Display : 5.5" LCD with touch panel Medical approved
Cooling : Silent cooling fan, Multi- channel copper tube electronic cooling
Power supply of the laser : DC 24V/8.33A from the separate AC
Power supply of AC adapter : Single phase 100~240VA; 50-60HZ, Max 90w
AC Adapter : DC 24V/8.33A Medical approved
Laser Dimensions : 20cm* 20cm*10cm length*width*height
Laser weight : 1.7 kg
Laser case dimensions : 19cm x 13.4cm x 9cm
Weight of laser with cases : 9 kg
Environmental conditions during work : From +10 to 24°C degree, relative humidity from 30% up to 60%
Cass of Medical Device : IIB
Laser safety Class : 4
Electric Safety Class : I type B
Housing Protection Degree : Ip20b
Footswitch Protection Degree : IPX6
Battery Capacity : 3350 mAh

Meets the following standard
 Hardware: IEC 60601-1:2005+A1:2012
 IEC 60601-1-2:2014
 IEC 60601-2-22:2012
 IEC 60825-1:2014
 Software: IEC 62304:2015
 Biological evaluation: ISO 10993-1:2018
 Battery test: IEC 62133-2:2017

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DISTRIBUTOR

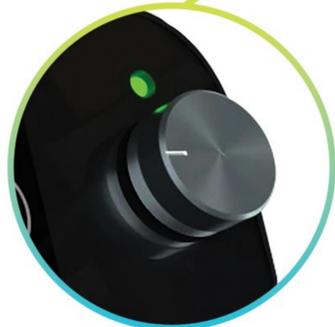


The Smartest Way forward

ENT LASER

Smallest and brightest Diode Laser





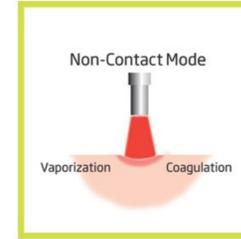
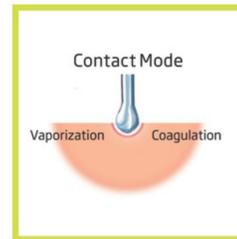
Dial Switch



Touch Screen Interface

LASER TECHNOLOGY AT YOUR FINGERIPS

Photonics 15w/980nm is ideal for contact mode surgeries where laser fiber tip is in direct touch with the targeted tissue. This mode is preferred for vaporization of tissue and photo-coagulation. The lower power settings help achieve coagulation while the higher power bands help undertake vaporization. In non-contact mode, the tip of the laser fiber remains at a distance from the tissue. This mode is ideal for tissue photo coagulation.



APPLICATIONS

EAR/OTOLOGY

- Paracentesis
- Mucosa Hyperplasia
- Stapes Surgery
- Removal of cholesteatoma Cysts
- Accessory auricle
- Tumors of the inner ear
- Hemangioma
- Myringotomy
- Cholesteatoma
- Tympanitis

NOSE

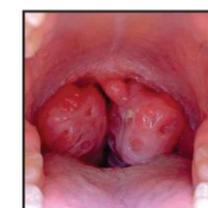
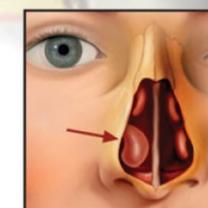
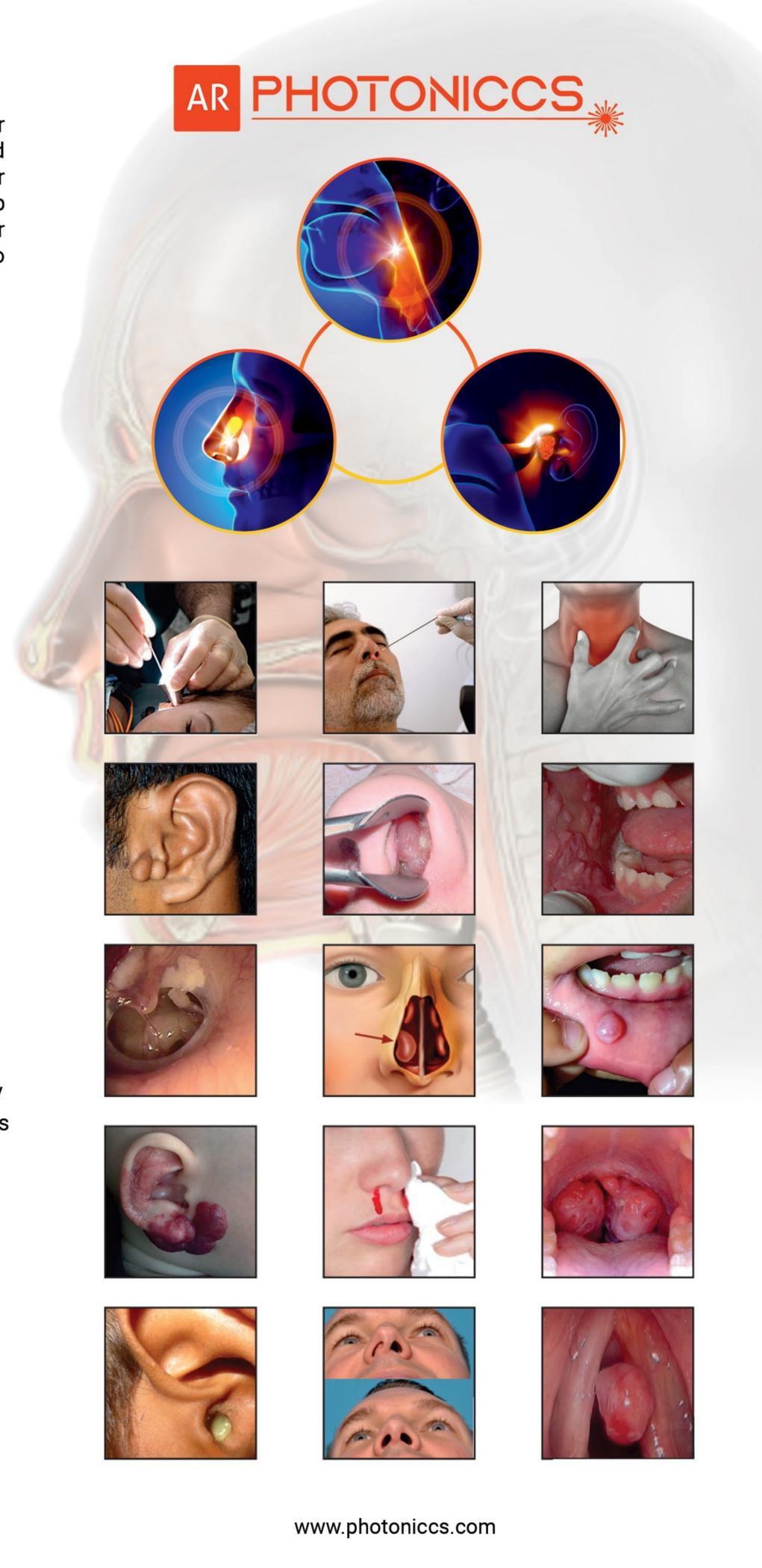
- Nasal Polyp, Rhinitis
- Turbinate reduction
- Turbinate treatment
- Septum spur
- Septum deformation
- Cysts & Mucoceles
- Epistaxis
- Stenosis & Synechia
- Sinus Surgery
- Dacryocystorhinostomy (DCR)
- Laser assisted tuboplasty of the eustachian tube (LETP) with a special micro endoscope
- Nasal Sinus Surgery
- Tonsillotomy, tonsillectomy/
- LAUP

ENDOSCOPY/MICRO ENDOSCOPY

- Eustachian tube
- Lacrimal passages
- Saliva way
- Micro otology
- Micro sinus surgery

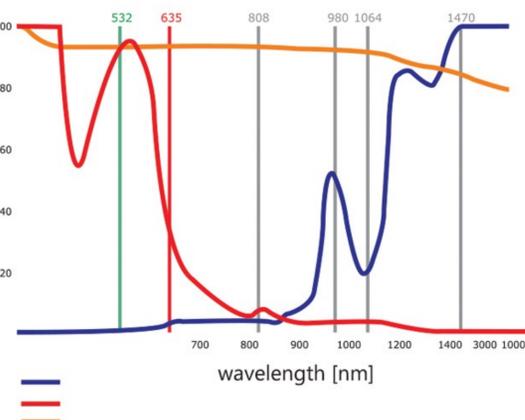
THROAT/ORAL/LARYNX SURGERY

- Polypectomy in area of vocal ligaments
- Polyps-/ papilloma resection
- Epistaxis treatment
- Laryngeal carcinoma
- Cysts, mucous cysts
- DCR treatment/Lacrimal surgery
- Removal of stenosis in lacrimalis
- Synechia, stenosis in endonasal structures
- Tumor, Granuloma resection
- Congenital larynx stenosis
- Hemangiomas
- Morbus Osler
- Uvulopalatoplasty (LAUP)
- Tonsillotomy
- Glossectomy
- Vocal cord polyps
- Epiglottectomy
- Strictures



WHAT WAVELENGTH IS RECOMMENDED

We have lasers with 980nm and 1470nm radiation for ENT. As seen on the chart the absorption coefficient is higher for haemoglobin than for water for 980 nm radiation. For 1470nm the situation is opposite and water absorbs the radiation better than haemoglobin. Both of these media are components of human tissues, including tissues surrounded by cysts.



Laser with 980nm radiation has been widely used for over 15 years in ENT, whereas 1470nm has the ideal wavelength for removal of Cysts. We provide lasers with 980nm/1470nm both which makes Laser more useful in distinct procedures and safe wavelengths ensures minimal surround damage.