

Innovative solutions in Ophthalmology

# LacriMax 25

Stenosis of the nasolacrimal duct is a common disorder and may lead to recurrent infection with pathogenic bacteria, sepsis, sinus thrombosis or corneal ulcer. Dacryocystorhinostomy (DCR) is the treatment of choice for these patients.

Laser transcanalicular DCR is a minimally invasive technique. It can be performed under endoscopic control or with trans-nasal visualization of the fiber position alone. The aiming beam transilluminates the nasal mucosa and bone indicating the position of the proximal end of the fiber inside the lacrimal duct and giving operator precise control over the procedure.

A 200  $\mu\text{m}$  diameter quartz fiber is used in contact mode to cut through periosteum, bone and nasal mucosa.

Laser transcanalicular DCR features very short operating time, minimal complications and is a safe and effective procedure with rapid recovery where patient's life is minimally disrupted.

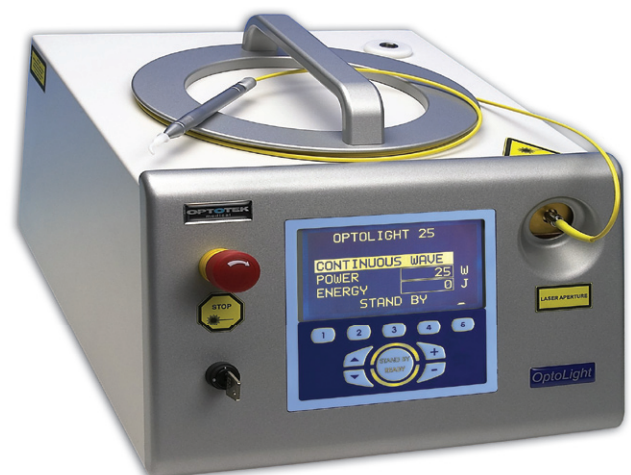
LacriMax 25 is a medical laser designed for surgical procedures. It delivers up to 25 W of power through a 200  $\mu\text{m}$  fiber, making it ideal for precise surgery, especially for endoscopic procedures.

Its wavelength of 980 nm is perfectly matched to the absorption peak of water, which, together with its excellent absorption in hemoglobin, results in cutting and hemostasis with minimal lateral thermal damage. It leaves the operating field clean and sterile. There is little or no pain and swelling during and after the procedure.

The user can choose from several preset modes of operation. Alternatively, the user can save sets of parameters for each particular application. These can be recalled at a touch of a button, saving valuable time. The parameters used in the procedure are stored and can be reviewed after the procedure is finished.

## ADVANTAGES:

- user friendly
- compact and portable design
- innovative diode laser technology
- optimal laser wavelength
- little or no pain and swelling



# Technical Specifications:

Mode of operation	CW, single pulse, repeat pulse
Wavelength	980 nm
Output power	1 – 25 W
Pulse duration	continuous wave; 5 ms – 30 s
Laser output	SMA 905 connector
Delivery system	optical fiber 200, 400, 600 $\mu$ m
Handpieces	bare fiber, focused, collimated
Aiming beam	laser diode 635 nm; < 1mW; adjustable
User interface	graphics display, keypad; audible signal; program memory; parameter history
Dimensions (W x L x H)	300 x 390 x 250 mm
Weight	14 kg, portable
Power requirements	90–264 V AC, 50/60 Hz, 6 A fuse, single phase
Cooling	forced air
Auxiliary Connections	safety interlock, warning lamp, smoke evacuator, COM port
Footswitch	electrical

## ACCESSORIES:

- DCR handpiece - a handpiece for diode laser for DCR application
- DCR fiber stripper - a stripper with measuring pipe for shortening the fiber tubing
- DCR optical fiber - 200  $\mu$ m fiber in silicon tubing (3 m), male SMA905 connector on one end, STERILE for use with the DCR handpiece
- fiber scribe - a scribe for cutting the optical fiber
- cleaning brush - for cleaning the endoscope, DCR cannula inner channels
- safety goggles - specific eye protection, wavelength 980 nm, CE marked (EN 207)
- DCR alu case

DCR handpiece - a unique tool in the field of laser surgery

