

DIODE LASER

Easy-to-use laser for soft tissue procedures – ‘Cut without the Knife’



The Velopex Diode 5W 830nm laser is ideal for all soft tissue procedures, as it does not interact with teeth, bone or implants. It is particularly suitable for periodontal and endodontic work, where its bactericidal effects can be used to the full without any adverse effect on pulpal temperatures or root surface changes.

Wide range of applications

The Diode Laser is the effective solution for procedures including apicectomy, frenectomy, gingivectomy, operculectomy, and the removal of papillomas/fibromas

Excellent for tooth whitening

The Diode Laser can also be used for tooth whitening procedures, producing outstanding results rapidly.

Blood-free minor surgery

In minor oral surgery, the laser's wavelength allows an area to be cut with complete haemostasis. The laser both cuts and sterilises the tissues, making for good post-operative results with less swelling and discomfort for the patient.

High patient acceptability

The Velopex Laser helps eliminate pain and bleeding, and significantly reduces post-operative discomfort, building the confidence of patients.

Accuracy without eye-strain

A small laser pointer provides a bright aiming beam for accurate positioning. This pointer beam turns off when the working beam starts, making the procedure easier on the dentist's eyes.

Easy to work with

All surgery is achieved with a tactile technique, giving ample control to the clinician. The unit's user-friendly, menu-based control system is extremely simple to navigate.

Complete and ready to use

The Velopex Diode Laser package includes 300µ (surgical) and 400µ (tooth whitening) flexible fibre delivery systems; foot switch; main cable; tooth whitening handpiece (single tooth); cutting instrument (bare fibre); fibre stripper (bare fibre); spare surgical handpiece tips

FREQUENTLY ASKED QUESTIONS

Soft tissue management

The Velopex Diode 5W 810nm laser is ideal for all soft tissue procedures, as it does not interact with teeth, bone or implants. It is particularly suitable for periodontal and endodontic work, where its bactericidal effects can be used to the full without any adverse effect on pulpal temperatures or root surface changes.

Wide range of applications

The Diode Laser is the effective solution for procedures including apicectomy, frenectomy, gingivectomy, operculectomy, and the removal of papillomas/fibromas - all soft tissue applications.

Excellent for tooth whitening

The Diode Laser can also be used for tooth whitening procedures, producing outstanding results rapidly - in a typical power bleaching application.

Blood-free minor surgery

In minor oral surgery, the laser's wavelength allows an area to be cut with complete haemostasis. The laser both cuts and sterilises the tissues, making for good post-operative results with less swelling and discomfort for the patient.

High patient acceptability

The Velopex Laser helps eliminate pain and bleeding, and significantly reduces post-operative discomfort, building the confidence of patients.

Accuracy without eye-strain

A small laser pointer provides a bright aiming beam for accurate positioning.

Easy to work with

All surgery is achieved with a tactile technique, giving ample control to the clinician. The unit's user-friendly, menu-based control system is extremely simple to navigate.

Complete and ready to use

The Velopex Diode Laser package includes 320µ (surgical) flexible fibre delivery systems; foot switch; mains cable; cutting instrument (bare fibre); protective glasses.

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DIMENSIONS:

Width: 170mm/6.7"

Height: 235mm/9.2"

Depth: 320mm/12.6"

WEIGHT:

4.1Kg (9 lbs)

POWER REQUIREMENT:

100-220VAC/ 50-60Hz 250VA

LASER TYPE:

Solid State Diode Laser (class IV)

WAVE LENGTH:

810nm

OUTPUT POWER:

Max. 5.0W at output port

OUTPUT PORT:

SMA 905

FIBRE:

400um, 0.37NA

OPERATING MODES:

Continuous Wave (CW)

Pulsed

Repeat

PULSE DURATION:

User selectable on and off 0-1000 msec

FIBRE OUTPUT PORT:

SMA

OPTICAL FIBRES:

From menu 320µ bare

Aiming beam: 650nm, 2mw (class 3A)

Main beam: 810nm, 5cw (class 4)

SURGICAL HANDPIECE:

Fibre gripping

DUTY RATIO:

On/ Off duration adjustable

COOLING:

Thermal Electrically Cooled with
Forced Air

OPERATION TEMP:

10 °C to 35 °C

STORAGE TEMP:

-20 °C to 70 °C

DISPLAY SCREEN:

5 inch colour touch