DUAL YELLOW D10B
SPECIFICATION SHEET

**Issue Date** 10 October 2011

**Classification**  
Medical Device, Class II b according to 2007/47/EC  
Protection class 1, type B according to EN 60601-1; 1990  
Not to be used in the presence of anaesthetics or other flammable materials.

**Operation**  
Quasi-continuous emission (pulse duration 30ns, repetition rate 22KHz)  
The radiation is not continuous but is emitted in short pulses of about 30ns with a gap between pulses of about 45 micro seconds. These Fast Edge MicroPulses (FEM™) of light have a peak power of several kilowatts, however, the average power is up to 10W for both the yellow and green light combined.

**Mains Supply**  
240, 230, 220, 210 VAC, 1800W, 50/60 Hz, Selectable

**Laser**  
Type: Copper Bromide fully sealed laser tube  
Classification: Class 4 complying with EN 60825-1: 1994  
Output wavelengths:  
511nm,  
578nm,  
578nm + 10% 511nm  
511 and 578nm

**Output Fluence (Nominal)** User selectable in ranges:  
Yellow 1 J/cm² 300 J/cm²  
Green 3 J/cm² 300 J/cm²  
Y10G 3 – 300 J/cm²  
Both 5 J/cm² 300 J/cm²

**Operating Modes**  
Selection of Laser Wavelength:  
Mode Yellow 578nm  
Mode Green 511nm  
Mode Y10G 578nm + 10% 511nm  
Mode Both 511nm & 578nm.

**Operating Modes**  
Repetition Mode:  
On Time: 10–950 ms (1 & 5ms resolution)  
Pulse per second (PPS) 1 to approx 20 PPS  
Rapid pulse mode
## Physical characteristics

<table>
<thead>
<tr>
<th>Laser</th>
<th>Height: 620 mm</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Length: 1000 mm (1100 mm with distance bracket)</td>
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<tr>
<td></td>
<td>Width: 280 mm</td>
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<td>Weight: 50 kg</td>
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</tbody>
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### Display Console

- Floor standing, full colour, Touch Screen

### Delivery device and spot size

- Hand held pen, 600 micron spot size non-contact
- Hand held pen, 1000 micron spot size optical glass skin contact tip

## Foot Control

Safety foot pedal for all operating modes

## Operating environment

- Ambient temperature: 15–30°C
- Relative humidity: 30–75 % (non-condensing)
- Atmospheric pressure: 700–1060 hPa
- Maximum tilt angle: 10° from vertical
- Do not move until 30 minutes after turn-off

## Storage environment

- Ambient temperature: 10–40°C
- Relative humidity: 30–75 % (non-condensing)
- Atmospheric pressure: 700–1060 hPa
- Maximum tilt angle: 45 ° from vertical

## Accessories Supplied

- Two pairs of Safety Glasses to suit [Yellow] and [Yellow and Green]
- One Laser Safety Sign
- One set of Lead Eye Shields
- One User Manual

## Optional Items

- Additional Safety Glasses
- Hot air exhaust kit with electronic control and fan
- Optiview Polarised Light
- Multi Spot Handpiece
  - Patch size: 5mm diameter
  - Spots within patch: approx. 7 spots
  - Spot size: approx. 100 micron
  - Contact face: Glass
- 5mm Handpiece
- Scanner:
  - Scanner, 5mm scan pattern, 0.6mm spot size optical glass skin contact tip
  - Scanner, 10mm scan pattern, 2mm spot size optical glass skin contact tip
Warranty

The D10B DUAL YELLOW laser system is warranted for a period of 12 months from delivery ex works. The warranty covers all parts manufactured by Norseld Pty Ltd and all purchased items used in the laser system.

The D10B laser tube is warranted for a period of 12 months from installation, or 1000 hours operating lifetime.

We reserve the right to repair defects of the laser system by replacing defective parts. The replacement of parts is no valid reason for an extension of the warranty of the product.

All parts replaced by us are warranted as required by law.

Defects due to improper handling or operation of the laser system are not covered by our warranty.

Regulatory Requirements

It is the user’s responsibility to ensure that all local and national regulations are adhered to.

Statement of Quality

This equipment is manufactured under a Quality System complying with the requirements of ISO 9001:2008
ISO 13485:2003
and complies with the following European Directives -
2007/47/EC Medical Devices (MD) Directive

Subject to change without notice