

## 6. Technical datasheet

### 1. Control unit: BYONIK® PTL Professional Max

<b>LASER CLASS</b>	1
<b>Degree of protection</b>	IP 21 (drip-proof)
<b>Associated power supply unit</b>	XP Power AFM60US12 Input voltage: 100-240 VAC 50-60 Hz Output voltage: 12 VDC, 5 A Protection class: I
<b>Weight</b>	Ca. 10 kg
<b>Dimensions (L x B x H)</b>	38 cm x 44.5 cm x 46 cm
<b>Screen</b>	10.4-inch colour touchscreen

### 6.2 Operating conditions

<b>AMBIENT TEMPERATURE</b>	+10 °C to +30 °C
<b>Relative air humidity</b>	30% to 75%
<b>Air pressure</b>	700 hPa to 1060 hPa

### 6.3 Transport and storage conditions

<b>AMBIENT TEMPERATURE</b>	-20° C to +40° C
<b>Relative air humidity</b>	30% to 75%
<b>Air pressure</b>	700 hPa to 1060 hPa

### 6.4 Technical data of the BYONIK® handpieces

<b>LASER CLASS</b>	1 (optionally 2)
<b>Laser type</b>	Diode laser (DL)
<b>Operating modes</b>	All laser diodes CW and wobbling
<b>Pulse width</b>	Wobbling operating mode: 55 ms to 100 ms
<b>Pulse frequency</b>	Wobbling operating mode: 0.5 Hz to 1.5 Hz
<b>Spot size</b>	Circle, A = 1520.52 mm <sup>2</sup>
<b>Repetition rate</b>	Wobbling operating mode: up to 10 Hz
<b>Peak power</b>	500 mW per handpiece
<b>Cooling</b>	Contact cooling system: passive cooling system via aluminium heatsink, ambient air, ventilation slits
<b>Light window</b>	Satinised, impact-resistant Plexiglas®

## 6.5 Technical data of the laser diodes

### BYONIK RED

No.	Wave length	Output power	Operating mode / pulse duration	Angular expansion individual diode
BLX	808 nm 658 nm	5 x max. 68 mW 4 x max. 40 mW	Continuous wave (CW) Continuous wave (CW)	8,12 mrad 8,58 mrad

### BYONIK BLUE

No.	Wave length	Output power	Operating mode / pulse duration	Angular expansion individual diode
BLX	808 nm 450 nm	5 x max. 68 mW 4 x max. 40 mW	Continuous wave (CW) Continuous wave (CW)	8,12 mrad ca. 8 mrad

**6.6 EU conformity declaration**

 <p><b>beauty lumis GmbH</b> Bruckmannring 38 D-85764 Oberschleissheim</p>	
<p><b>CE</b></p>	
<p><b>BYONIK®PTL Professional Max</b></p>	

beauty lumis GmbH hereby declares that it assumes full responsibility for the product BYONIK® PTL Professional Max.

**Purpose**

The product BYONIK® PTL Professional Max is an active, non-invasive, line-powered laser device based on so-called pulse-triggered laser (PTL) technology. Due to this PTL technology, the device adjusts its energy output to the pulse of the person to be treated (max. 500 mW – low-level laser therapy (LLLT)). In its application, the laser device combines the wavelengths (450 nm, 658 nm & 808 nm). The BYONIK® PTL Professional Max is not intended for use at home.


**Risk class:**

Class IIb (according to Regulation (EU) 2017/745 Annex 8 Chapter 3 and Commission Implementing Regulation (EU) 2022/2347 (5)).

Herewith we declare that the product mentioned above is in conformity with the following harmonised standards:

<p><b>IEC 60601-1-2: Edition 4.0; 2014</b></p>	<p>Medical electrical equipment</p>
<p><b>EN 60601-1-2: Edition 4.0; 2015</b></p>	<p>Medical electrical equipment</p>
<p><b>IEC 60601-1_2005, AMD1:2012</b></p>	<p>General requirements for basic safety and essential performance</p>

Herewith we declare that the product mentioned above is in conformity with Regulation (EU) 2017/745.

<p>Oberschleissheim, 14.02.2024</p>	 <p>General Manager, Angela Frommer</p>
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