Laser Hair Technical Specification

Overview

The Rio Laser Hair removal system is a product designed for safe home use to give a hair reduction by destroying the hair follicle with a laser.

The unit consists of two main parts, the console unit and the wand assembly. The console is powered by an adapter and controls the key features of the product. The wand is connected to the console and houses the laser and skin detect circuit.

Technical Specification

Input voltage	9 –12V dc @ max 340mA using ac-dc adapter.
Laser Wavelength	808nm.
Laser Technology	Gallium Arsenide (GaAs) 500mW To5.

Power Setting	**Pulse ON time (s)**	**Pulse OFF Time (s)**	
1 (3%)(lowest)	0.1	0.6	
2 (15%)	0.5	0.6	
3 (30%)	1	0.6	
4 (70%)	2.5	0.6	
5 (100%) (highest)	3.5	0.6	

Treatment Cycle Duration: Auto limited to 4 seconds max.

Laser Output Optical Power: 300mW

Laser Output Optical Energy: 1.05J per treatment cycle - highest setting.

Laser Output Optical Energy Density: 0.45J/mm^2 (45J/cm^2).

Operating Conditions:	0 – 40 deg C 20 – 65 % RH
Storage Conditions:	0 – 55 deg C 10 – 90 % RH
Safety Features:	Keylock with two keys. Touch probes to detect contact with skin. Wand lens to achieve MPE level of secondary reflected laser light. Auto reset to zero after inactivity. High brightness safety LED to cause “blink”
Size:	245mm x 210mm x 90mm
Weight:	560g

EN Harmonised Safety Standards used in Design and Manufacture
(independently tested by accredited test house to know standards)

Directive 73/23

BS EN 60335-2-27	2003
BS EN 60825-1	1994 +A1,A2 and A3

Directive 89/336 and 2004/40

BS EN 55014-1	2000 +A1: 2001 +A2:2002
BS EN 55014-2	1997 +A1:2001
BS EN 61000-3-2	2000
BS EN 50036	

Also compliance with the following:
Directives 2002/95 and 2002/96