

VERTICAL DIODE LASER

HAIR REMOVAL SYSTEM

ADVANCED FOUR-WAVELENGTH TECHNOLOGY

A professional high-power diode laser platform with intelligent controls, connected operation, multi-stage cooling and real-time monitoring.

4000 W
SYSTEM POWER

1600 W
HANDLE POWER

20 Hz
MAX FREQUENCY

12.1 in
MAIN DISPLAY

FOUR WAVELENGTHS. ONE PLATFORM.

755 nm
Fine / residual hair

808 nm
General hair removal

940 nm
Target absorption profile

1064 nm
Deeper follicle targeting

PRECISION-ENGINEERED HIGHLIGHTS

01 ANDROID + CLOUD
Wi-Fi / Bluetooth connectivity

02 REMOTE CONTROL
Mobile user and parameter access

03 SMART PRESETS
Recommended treatment parameters

04 OLED HANDPIECE
1.54-inch touchscreen control

05 ACTIVE COOLING
108 W dual-plate system

06 SYSTEM MONITORING
20 detection functions

PROFESSIONAL AESTHETIC SOLUTIONS

Comfort-focused handpiece • Sapphire crystal • Dual-stage filtration
American Coherent laser bar; supplier lists a 100-million-shot warranty
(warranty terms and configuration should be confirmed).



TECHNOLOGY AND TECHNICAL DATA

PRINCIPLE OF TREATMENT

Diode laser hair removal is based on **selective photothermolysis**: hair pigment absorbs optical energy, which converts into heat in the follicle. Treatment settings depend on hair characteristics and skin type.

01 TARGET

Hair pigment absorbs light

02 HEAT

Energy converts to heat

03 RESULT

Follicle structure is affected

CONNECTED & INTELLIGENT OPERATION

- Android-based system with **Wi-Fi and Bluetooth** connectivity
- Cloud data transfer and supplier-described mobile remote control
- Remote machine operation, parameter settings and user information
- Suggested settings generated from gender, treatment area, skin colour, hair colour and hair density

HANDPIECE CONTROL & COOLING



1.54-inch OLED touchscreen on the handpiece supports direct adjustment of energy, pulse width and frequency, and displays real-time temperature.

Cooling and contact: sapphire crystal, a supplier-listed 108 W dual-semiconductor cooling module, and temperature sensing at the light outlet. Supplier cites surface temperatures down to -30°C.

INTELLIGENT PROTECTION & FILTRATION



20 real-time detection functions include water flow, water temperature, handpiece temperature and connection status, water level and cooling-plate operation.

Two-stage water filters: PP cotton filtration of particles followed by an ion filter targeting dissolved metal ions. Both stages are described as protecting the laser circuit.

TECHNICAL SPECIFICATIONS

System power	4000 W
Handpiece power	1600 W
Wavelengths	755 / 808 / 940 / 1064 nm
Main machine screen	12.1 inches
Handpiece screen	1.54 inches
Energy density	1-120 J/cm ² (deviation ≤ ±2%)
Pulse-width range	1-200 ms
Standard spot size	12 × 20 mm
Frequency	1-20 Hz
Cooling system	TEC cooling system
Net weight	57 kg
Machine dimensions	470 × 500 × 1330 mm
Packaging dimensions	530 × 492 × 1120 mm
Fuse specification	Ø 5 × 25 mm, 10 A
Voltage	220 V ±10%, 10 A, 50 Hz; 110 V ±10%, 10 A, 60 Hz

OPTIONAL HANDPIECE CONFIGURATIONS

12 × 12 mm
600 W / 1200 W

12 × 20 mm
1200 W

12 × 24 mm
1600 W / 2000 W

12 × 28 mm
2000 W

Optional facial tip: supplier states compatibility with the 12 × 12 mm handpiece for small treatment areas.