Polymatech®

Polymatech Electronics Limited
SIPCOT Hi Tech SEZ, Oragadam, Tamil Nadu 602 105, India
sales@polymatechworld.com · www.polymatechworld.com

DENTAL EQUIPMENT · LIGHT CURING

LED Curing Light

Model DCL-100-E1 · Cordless with charging base

A cordless dental LED curing light with six work modes, a clear digital display and a charging base with built-in light-intensity meter. Designed for everyday restorative, orthodontic and diagnostic work in the dental clinic.

6	2,500 mW/cm²	385–515 nm	114 g
WORK MODES	PEAK INTENSITY	WAVELENGTH RANGE	CORDLESS HANDPIECE

Why clinicians choose the DCL-100-E1

Six clinical work modes

Restoration, Pulp, Orthodontics, Brackets, Soft and Caries detection, each with preset exposure times.

Rapid LED curing

Rapid LED curing demonstrated under controlled conditions, with up to 2,500 mW/cm² in Brackets mode.

Cordless and light

114 g handpiece with a 2,000 mAh rechargeable lithium battery and slim, balanced grip.

Built-in intensity meter

The charging base checks light output so the clinic can confirm performance before treatment.

Clear digital display

Shows work mode, exposure time and battery status, with a beep at the start and end of each cycle.

Smart power management

Low-battery warning, automatic switch-off after 7 minutes idle, and wake-up on pick-up.

Polymatech®

Polymatech Electronics Limited
SIPCOT Hi Tech SEZ, Oragadam, Tamil Nadu 602 105, India
sales@polymatechworld.com · www.polymatechworld.com

Work modes

Work mode	Exposure time	Light intensity
P1 Restoration	5 · 10 · 15 · 20 s	800 – 1,000 mW/cm²
P2 Pulp	5 · 10 · 15 · 20 s	800 – 1,000 mW/cm²
P3 Orthodontics	3 · 6 · 9 s	1,200 – 1,400 mW/cm²
P4 Brackets	1 · 2 · 3 s	2,300 – 2,500 mW/cm²
P5 Soft	5 · 10 · 15 · 20 s	1,200 – 1,400 mW/cm²
P6 Caries detection	30 · 60 s	—

Technical specifications

Model	DCL-100-E1
Light source	High-power blue-light LED
Wavelength	385 – 515 nm
Light intensity	800 – 2,500 mW/cm² (±10%)
Depth of cure	≥ 2 mm
Power source	Li-ion battery, 3.6 V / 2,000 mAh, 7.2 Wh
Charger input	100 – 240 V~, 50/60 Hz, 0.4 A max.
Charger output	DC 5 V / 1 A
Operation mode	Intermittent
Applied part	Type B
Ingress protection	IPX0
Auto switch-off	After 7 minutes idle
Handpiece weight	114 g
Packing size	245 × 210 × 60 mm
Warranty	One year from date of sale

In the box

- Cordless handpiece with light guide
- Charging base with light-intensity meter
- Power adapter, 100 – 240 V~
- User manual with warranty card

From semiconductor to healthcare solution

01 · LIGHT ENGINE
Polymatech LED chip-on-board
The high-power blue LED is Polymatech's own chip-on-board technology.

›

02 · ELECTRONICS
Brandner Electronics, Estonia
Printed circuit board from the group's European PCB company.

›

03 · ASSEMBLY
Polymatech, India
Final assembly and quality control by Polymatech Electronics Limited, ISO 13485 certified.

Engineered by Polymatech for human comfort

The LED Curing Light is intended for the light-curing polymerisation of dental composites, luting materials, cements and other light-cured materials, for use by qualified dental professionals only. Please read the user manual before use. Availability and regulatory status vary by market. Specifications may change without notice.

SALES ENQUIRIES
sales@polymatechworld.com
www.polymatechworld.com