

Polymatech®



Dental Curing Light

Model DCL-100-E1

Engineered by Polymatech for human comfort

Sales enquiries welcome

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Specifications subject to change without notice. Availability and regulatory status vary by market; please contact Polymatech for the position in your country.
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Overview

The Polymatech Dental Curing Light DCL-100-E1 is a cordless LED curing light for the dental chair. Six working modes cover restoration, pulp, orthodontic, bracket and progressive curing, with a violet-light inspection mode. A constant optical power output keeps the curing effect steady as the battery level falls, and the charging base has a built-in light-intensity detection function.

6

Built-in curing modes

385–515 nm

Wavelength range

2500 mW/cm²Peak intensity, Bracket
Mode**2000 mAh**Battery, with charging
base

Features

■ Constant optical power

Curing performance is not affected as the battery level falls.

■ Light-intensity check

The charging base has a built-in light-intensity detection function.

■ Aluminium-alloy body

Integrated industrial aluminium housing for durability and heat dissipation.

■ English-only interface

Clear, intuitive display, with automatic power-off after 5 minutes of inactivity.

■ Curing depth

Not less than 4 mm within 10 seconds in light-cured composite resin.

■ Low-battery protection

Monitors battery level and shuts down automatically when it is low.



Modes and set contents

Six working modes

Mode	Light	Intensity	Irradiation time
Restoration	● Blue	800–1000 mW/cm ²	5, 10, 15 or 20 s
Pulp	● Blue	800–1000 mW/cm ²	5, 10, 15 or 20 s
Orthodontic	● Blue	1600–1800 mW/cm ²	3 s pulse, 1 s interval; 5 or 10 cycles
Bracket	● Blue	2100–2500 mW/cm ²	1, 2 or 3 s
Progressive	● Blue	Final intensity 800–1000 mW/cm ²	5, 10, 15 or 20 s
Inspection	● Violet	—	30 or 60 s

Operation: long-press the power key for 2 s to enter irradiation-time setting, then short-press to change the time. In time setting, long-press the power key for 1 s to switch to mode setting, then short-press to change the mode.

In the box

- Curing light handpiece
- Charging base
- Protective glasses
- Orange light shield
- Power adapter

Power plug supplied to suit the destination country.



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Technical specification

Model	DCL-100-E1
Power input	AC 100–240 V, 50/60 Hz, max. 0.4 A
Power output	DC 5 V, 1 A
Battery capacity	2000 mAh
Main unit dimensions	200 mm × 22 mm × 22 mm
Main unit weight	Approx. 110 g
Working modes	Six: Restoration, Pulp, Orthodontic, Bracket, Progressive, Inspection
Wavelength range	385–515 nm
Effective optical area	≥ 50 mm ²
Optical output	Constant optical power; curing effect is not affected as the battery level falls
Curing depth	Not less than 4 mm within 10 s (light-cured composite resin)
Interface	English-only display; auto power-off after 5 minutes of inactivity
Housing	Integrated industrial aluminium alloy
Low-battery protection	Automatic shut-down when battery is low
Charging base	Built-in light-intensity detection function
Light guide	Optional metal guide wand, rotates 360°

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