

DENTAL INSTRUMENTS · MODEL DCL-100-E1

# Dental Curing Light

Light, engineered for every smile.

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 working modes

**385–515 nm**

Wavelength range

**2,500 mW/cm<sup>2</sup>**

Peak intensity, Bracket mode

**2,000 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.

### Curing depth

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

### English interface

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

### Low-battery protection

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

## Six working modes

| Mode        | Light  | Intensity                                    | Irradiation time                        |
|-------------|--------|----------------------------------------------|-----------------------------------------|
| Restoration | Blue   | 800–1,000 mW/cm <sup>2</sup>                 | 5, 10, 15 or 20 s                       |
| Pulp        | Blue   | 800–1,000 mW/cm <sup>2</sup>                 | 5, 10, 15 or 20 s                       |
| Orthodontic | Blue   | 1,600–1,800 mW/cm <sup>2</sup>               | 3 s pulse, 1 s interval; 5 or 10 cycles |
| Bracket     | Blue   | 2,100–2,500 mW/cm <sup>2</sup>               | 1, 2 or 3 s                             |
| Progressive | Blue   | Final intensity 800–1,000 mW/cm <sup>2</sup> | 5, 10, 15 or 20 s                       |
| Inspection  | Violet | —                                            | 30 or 60 s                              |

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

## 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       | 2,000 mAh                                                        |
| Main unit dimensions   | 200 × 22 × 22 mm                                                 |
| Main unit weight       | Approx. 110 g                                                    |
| Working modes          | Restoration, Pulp, Orthodontic, Bracket, Progressive, Inspection |
| Wavelength range       | 385–515 nm                                                       |
| Effective optical area | ≥ 50 mm <sup>2</sup>                                             |
| Optical output         | Constant optical power, unaffected as the battery level falls    |
| Curing depth           | ≥ 4 mm within 10 s (light-cured composite resin)                 |
| Interface              | English display; auto power-off after 5 min                      |
| Housing                | Integrated industrial aluminium alloy                            |
| Low-battery protection | Automatic shut-down when battery is low                          |
| Charging base          | Built-in light-intensity detection                               |
| Light guide            | Optional metal guide wand, rotates 360°                          |

## In the box



- Curing light handpiece
- Charging base
- Protective glasses
- Orange light shield
- Power adapter — plug to suit the destination country

## Supply in ASEAN

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer         | Polymatech Electronics Limited, India                                                                                                                                                                                                                                                                                                                                                                                |
| Supplied in ASEAN by | AEIM Pte. Ltd., 163 Kallang Way, #04-18, Mapletree Hi-Tech Park, Singapore 349256                                                                                                                                                                                                                                                                                                                                    |
| ASEAN supply         | Each country of supply has its own medical-device requirements: Singapore, Health Sciences Authority (HSA); Malaysia, Medical Device Authority (MDA); Indonesia, Ministry of Health (Kemenkes); Vietnam, Ministry of Health. Products are supplied in each country only in accordance with that country's requirements. Availability and registration status differ by country; please contact sales@aeimglobal.com. |
| Warranty             | 1 year standard; 2 years when registered within 7 calendar days of purchase at <a href="http://www.aeimworld.com/register-product.html">www.aeimworld.com/register-product.html</a> . Claims: service@aeimglobal.com                                                                                                                                                                                                 |

## Enquiries

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Specifications are subject to change without notice. The DCL-100-E1 is intended for use by dental professionals in accordance with the instructions for use. Curing results depend on the composite material, technique and exposure time used.