

# PRODUCT INFORMATION

## MiCD C02-X LED Curing Light



Light Cure with Confidence



**SHOFU DENTAL**  
ASIA-PACIFIC PTE. LTD.

## Introduction

**MiCD C02-X LED Curing Light** is a broad-spectrum, high intensity light curing unit designed to predictably cure a wide range of light-cured dental materials. A slim ergonomic, streamlined wand design with low profile, compact head enables easy access to all regions of the oral cavity without comprising light cure capability or patient comfort.

Engineered with a dual range wavelength (*Purple: 390 ~ 430 nm/ Blue: 440~ 480 nm*), the LED light is optimized for the power mode selected to meet specific clinical indications, while delivering excellent depth of cure with collimated uniform straight light beam.

## Indication

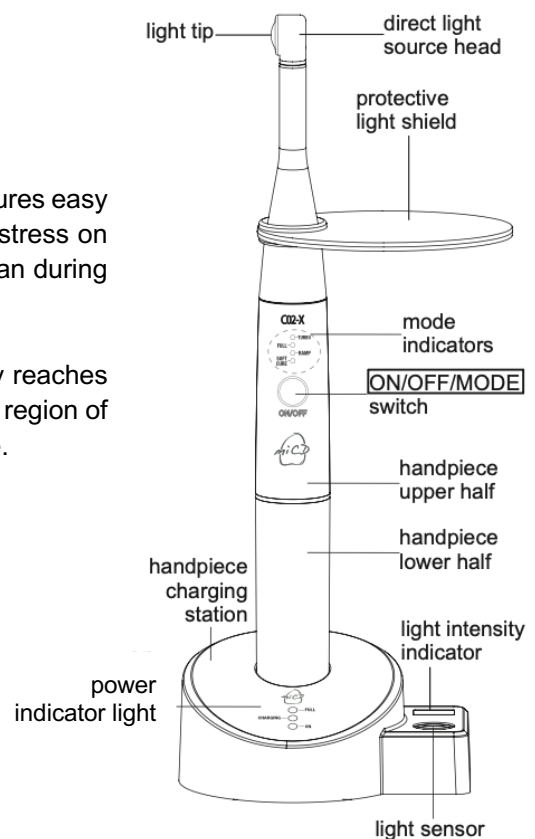
MiCD C02 LED Curing Light with a wavelength range of 390 ~ 480 nm, is designed to polymerize all light-cured dental (restorative, adhesive and cement) materials, as well as quick light curing of orthodontic bonds/cements.

## FEATURES:

### 1) Ergonomic Design

The slim and ergonomic wand design with a sturdy frame ensures easy access to all areas of the oral cavity without causing undue stress on patient's joints and oral tissue or any discomfort to the clinician during use.

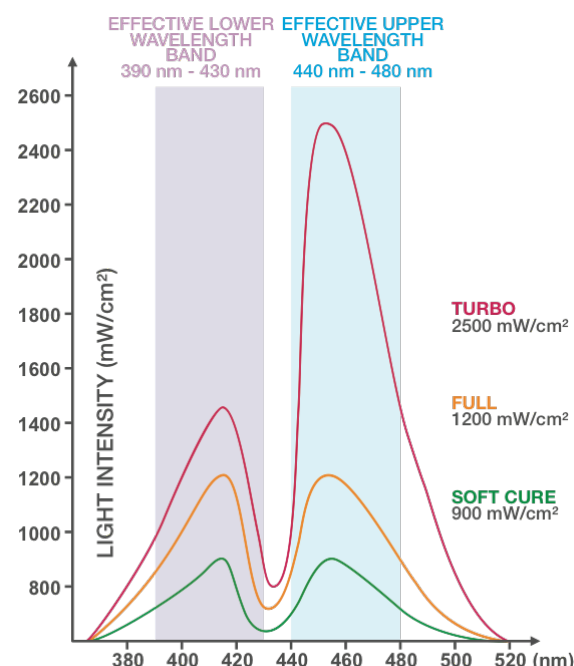
The low profile 90° right angle direct light source head easily reaches all areas and is stable during placement even at the posterior region of the oral cavity, assuring direct light delivery at restoration site.



## 2) Powerful Broad Spectrum Light Polymerization

MiCD C02 LED Curing Light has a **powerful wide spectrum light output with dual range wavelength** for optimal cure of an array of dental materials used in general restorative and orthodontic application. It has a high intensity light output of 2500 mW/cm<sup>2</sup> for a quick cure and is **engineered with an automatic compensation light circuitry** to ensure constant power output and light intensity.

The curing light features a hardened glass lens at the light tip. **Collimated uniform straight light beam technology** delivers consistent light output with minimal energy loss for a more efficient cure.



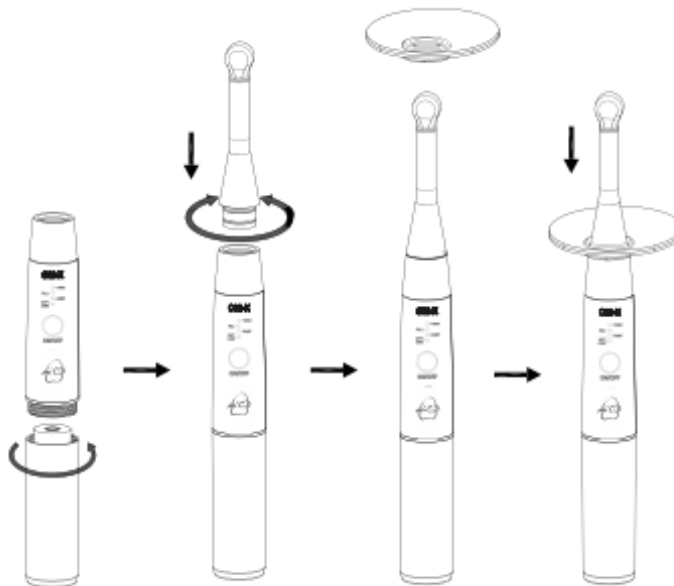
Meticulous circuit design facilitates **4 popular curing modes** with optimized light intensity and wavelength to match each power mode for a more versatile workflow.

| C02-X Specifications |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Light wavelength     | Dual Range<br>Purple Range: 390 – 430 nm<br>Blue Range: 440 – 480 nm                                           |
| Application          | General/ Ortho                                                                                                 |
| Direct Light Head    | 12 mm Width & 10 mm Diameter Ø                                                                                 |
| Turbo                | 2,500 mW/cm <sup>2</sup> for 3 sec ± 10%                                                                       |
| Full                 | 1,200 mW/cm <sup>2</sup> for 5, 10, 15, 20 sec ± 10%                                                           |
| Ramp                 | 1 <sup>st</sup> 5 seconds from 0 – 1,200 mW/cm <sup>2</sup><br>Next 5 to 20 sec 1,200 mW/cm <sup>2</sup> ± 10% |
| Soft Cure            | 1 <sup>st</sup> 5 seconds from 0 – 900 mW/cm <sup>2</sup><br>Next 5 to 20 sec 900 mW/cm <sup>2</sup> ± 10%     |
| Weight               | 140 gm                                                                                                         |
| Length               | 255 mm                                                                                                         |

| MODE             | Application                                                                                                                              | Time       | Depth measurements |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| <b>TURBO</b>     | Super-fast curing of resin and composite that is no more than 2mm thick. Also recommended for ceramic brackets, bonding of veneers, etc. | 3 seconds  | 4.5 mm             |
| <b>FULL</b>      | For general applications                                                                                                                 | 10 seconds | 5.2 mm             |
| <b>RAMP</b>      | First 0-5 seconds are ramped for general application                                                                                     | 10 seconds | 4.9 mm             |
| <b>SOFT CURE</b> | First 0-5 seconds are ramped for more gentle processing, designed for patients sensitive to heat                                         | 15 seconds | 5.1 mm             |

### 3) Durability & Convenience

The sleek and sturdy curing light is constructed with a robust frame for easy cleaning and improved infection control. The built-in **light intensity indicator** adds an extra convenience that aids in regular inspection of light intensity as part of the daily workflow.



The MiCD LED Light C02-X has simple assembly and comes with replaceable battery and built-in safety function that halts charging once full to preserve battery life.

## Directions for Use:

1. Insert the battery included in the box inside the lower half of the handpiece. Connect upper and lower halves together by securely screwing the lower half into the upper half.

2. Insert the direct light source head securely into the curing light handpiece with a TWISTING motion. Place curing light in the charging station. The “CHARGING” indicator light will be switched on if it is placed correctly into the charging station.

The battery is not fully charged prior to shipment. Please charge the battery for a minimum of 2 hours prior to first use. When fully charged, the “FULL” indicator light on the charging station will turn on.

3. To use the MiCD LED C02-X Light, activate by pressing ON/OFF/MODE switch once, the indicator light for the last selected mode will be on. The curing light is preset in the factory at “FULL” mode.

4. To change the mode, press and hold ON/OFF/MODE switch for 3 seconds, the curing light will signal with one ‘beep’, and the indicator light for the selected mode flashes. Continue pressing the ON/OFF/MODE switch to select the mode of your choice. This mode will be locked after 2 seconds if there are no further changes to the settings.

5. To change again, press and hold the ON/OFF/MODE switch for 3 seconds to unlock. Every start and end of a programme or every change of mode will be signalled with a ‘beep’.

The curing light will automatically turn off if it is not in operation for 1 minute. It will keep the last selected programme in memory once restarted.

## Packaging

### MiCD C02-X LED Curing Light (MS0003X) Contents:

- Curing Light Handpiece with Charging Station
- 10 mm Direct Light Source Head
- Protective Light Shield
- Heat Protective Rings (6 pcs)
- Disposable Curing Light Shields (100 pcs)
- C02-X-LH Handpiece Lower Half including battery
- USB Type-C plug cord

