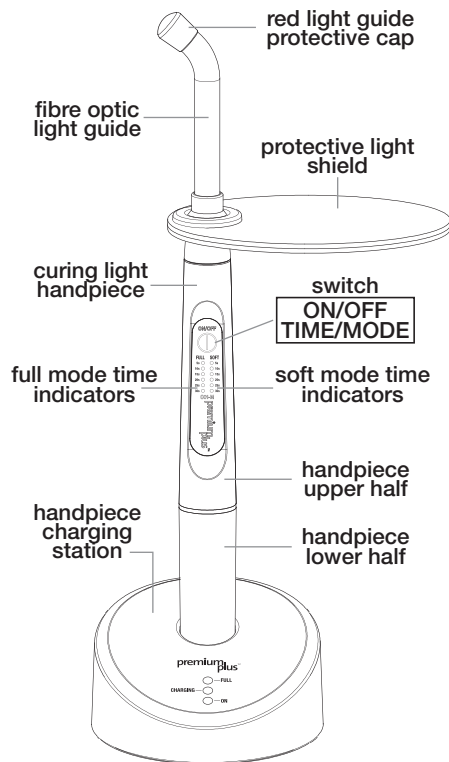


# C01-M CURING LIGHT INSTRUCTIONS



**Intended use:-** This curing light is intended for use by trained dental professionals only for the purpose of light curing dental resins and composites

C01-M SPECIFICATIONS	
F.O. LIGHT GUIDE	8 mm ( dia. )
LIGHT WAVELENGTH	440~480 nm
APPLICATION	General

## Contents:-

- C01-M Curing Light Handpiece with Charging Station
- C01-M-1 8 mm Fibre Optic Light Guide
- C01/2-M-2 Protective Light Shield
- 228 Disposable Curing Light Sleeves Mini (100 pcs)

## ENVIRONMENTAL FACTORS:-

Operation: 10°C~40°C / 30%~75% relative humidity / 500hPa~1060hPa atmospheric pressure

Transportation and Storage: -10°C~55°C / 10%~95% relative humidity / 500hPa~1060hPa atmospheric pressure

## PRIOR TO INSTALLATION AND START-UP OF THE UNIT READ THESE INSTRUCTIONS CAREFULLY.

This device must be used in strict conformity with these instructions.

The manufacturer rejects all liabilities if instructions are not followed or if the device is used for any other applications.

## ⚠ WARNINGS AND CAUTION:-

- High intensity curing lights produce more heat. This is a direct indication of the power of the light being emitted.
- The light radiation produced by this type of device can be dangerous and MUST NOT be pointed at the eyes.
- The light produced by this device must be directed only at the zone to be treated in the oral cavity.
- When using the device for more than 10 seconds, do not keep the light tip in one position. It is always recommended to use a dental syringe to blow a cold air flow on the area during long periods of curing. This will maintain a lower temperature for the composite and surrounding area, particularly when using rubber dam so as to avoid any rubber dam breakage due to heat built-up.
- Uninterrupted exposure times of the same tooth surface in excessive time and direct contact with oral mucosa or skin must be strictly avoided. Polymerization at intermittent intervals is recommended.
- Avoid the light guide tip coming into contact with any soft tissue in the mouth and do not expose soft tissue to the light being emitted for more than 2 seconds or burns may occur.
- There are many variables (distance and angle between the light tip and composite, area, shade thickness and type etc.) affecting composite curing times. It is recommended to place and cure a maximum of 2 mm for each composite placement. The light guide tip should be placed approximately 1-2 mm above the composite or resin and pointed perpendicular to the tooth surface.
- Using a barrier sleeve on the curing light will reduce light intensity by 5-10% affecting curing times.
- Always use protective shields and eyewear during curing light operation.
- Do not use the device near a heat source. Do not use solvents, detergents or flammable products to clean or immerse the device in, this may damage the device or cause a short-circuit.
- Prevent any liquid from entering the curing light, charging station or power adaptor.
- Never modify the device or any of its components. Any modification may compromise its safety and effectiveness.
- The curing light is not field-repairable. Do not disassemble this product. Unqualified repairing or tampering with internal parts may lead to serious injury and will VOID the manufacturer's warranty.

- Check the device before every use. Do not use the device if it is damaged in any way. The continuous use of a damaged device may cause injury or improper results.
- Charge the device for no less than 2 hours before use if it has not been used for longer than one month.
- US Federal Law restricts this device to sale by or on the order of a health care professional/dentist.

## INSTALLATION:-

### A. CHARGING STATION:-

- Plug in USB Type-C plug cord with the charging station and the USB power supply (not included).
- Charging Station power indicator light will be on if power is connected.

### B. CURING LIGHT HANDPIECE:-

- Put the battery (included in the box) inside the lower half of the handpiece. Connect the handpiece upper and lower halves together by screwing the lower half into the upper half. Ensure the handpiece is connected securely.
- Insert fibre optic light guide into the curing light handpiece with a TWISTING motion. Ensure the light guide is fitted securely in the handpiece.
- Put the handpiece in the charging station as shown in the above diagram. The “CHARGING” indicator light will be on if handpiece is fitted 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 the first use.
- When curing light handpiece is fully charged, “FULL” indicator light on the charging station will turn on.
- Curing light circuit will automatically compensate for power during use for constant light intensity output.
- We recommend placing the curing light handpiece into the charging station to charge whenever the curing light is not in use. Continually charging the curing light will not affect the life of the battery as the unit has a built-in safety function that will stop charging when the battery is full.
- The curing light intensity should be checked regularly with a light intensity meter.

## CHANGING OF SETTINGS AND USE:-

- Turn on the curing light by pressing **ON/OFF/TIME/MODE** switch.
- The curing light is preset in the factory at “FULL” mode for 10 seconds.
- To change the time or the mode full/soft cure, press and hold **ON/OFF/TIME/MODE** switch for 3 seconds, the curing light will signal with 2 continuous ‘beeps’. The lights on the left are the full mode times and the right are the soft mode times. Time can only be adjusted in 5 second increments.
- Continue pressing the **ON/OFF/TIME/MODE** switch to locate the time and mode required.
- The time/mode will be locked after 3 seconds with 2 continuous ‘beeps’ signaled if there are no further changes to the settings. To change, press and hold the **ON/OFF/TIME/MODE** switch for 3 seconds to unlock.
- Every start and end of a programme or every change of time or mode, will be signaled with a ‘beep’.
- The light will automatically turn off if it is not in operation for 1 minute. The light will keep the last selected programme in memory once restarted.
- To start using the curing light, take off the red protection cap from the light guide.
- Put on the disposable curing light sleeve to cover the whole curing light for cross-infection control.
- Put on the protective light shield from the top of the fibre optic light guide until it is firmly held.
- If curing light handpiece is off, press **ON/OFF/TIME/MODE** switch to turn on. The curing light is now ready for operation.
- Press **ON/OFF/TIME/MODE** switch to start light curing when preparation is ready.
- After the light curing process is finished, remove and dispose the curing light sleeve for every patient.
- If the battery power is low, curing light will not operate and all of the 12 light indicators will flash.

## CURING LIGHT MODE APPLICATIONS:-

MODE	APPLICATION	SPECIFICATION
<b>FULL</b>	For general applications.	1,200 mW/cm <sup>2</sup> for 5, 10, 15, 20, 25, 30 seconds±10%
<b>SOFT CURE</b>	First 0-5 seconds are ramped for more gentle processing, designed for patients sensitive to heat.	1st five seconds from 0-900 mW/cm <sup>2</sup> ±10% next 5, 10, 15, 20, 25, 30 seconds 900 mW/cm <sup>2</sup> ±10%

## DEPTH OF CURE:-

MODE	Intensity mW/cm <sup>2</sup>	Time	Depth Measurements	ISO 4049 Depth Measurements (-50%)
FULL	1,200±10%	10 seconds	4.3 mm	2.15 mm
SOFT CURE	900±10%	15 seconds	4.6 mm	2.30 mm

**Data is only for reference, always follow the instructions from your resin and composite manufacturers.**











**Remarks:** Above data is based on test results using an A2 shade composite. The light guide tip was placed above and pointed perpendicular to the composite. Tests were done as per ISO 4049 Standard. The samples were measured and the data was divided by two (50% of the total composite depth cured). ISO 4049 Standard requires that the results for class II restorative materials should be at least 1.5 mm for non-opaque shades and 1.0 mm for opaque shades. All resins and composites have different curing times. It is strongly recommended that you should test your composite and resin performance to determine the curing times required.

## CLEANING AND DISINFECTING:-

- Switch off the curing light and disconnect the USB cord from the USB power supply.
- The curing light handpiece and charging station can only be cleaned with a non-alcohol based disinfectant wipe for cold sterilization only.
- Fibre Optic Light Guide is autoclavable and should be autoclaved as per ISO 17665-1 121°C (250°F) for a minimum of 15 minutes.
- Always follow the autoclave manufacturer's instruction.

**WARRANTY:** Curing light is warranted to the original purchaser against any defective workmanship and materials under accepted installation, use, and service for a period of 24 months from date of purchase.

## SYMBOLS:-

	Symbol for "Class II Equipment"		Electronic Waste: properly dispose of when use is discontinued
	Symbol for "Manufacturer"		LOT Number
	Symbol for "Authorised Representative in EU"		Symbol for "Type B Applied Part"
	Symbol for "Authorised Representative in UK"		Follow Instructions for use
	Symbol for "Importer"	<b>IPX0</b>	Symbol for "protection from ingress of liquids into handpiece"
	Symbol for "Distributor"	<b>SN</b>	Symbol for "Serial Number"

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