

## Warranty

The unit is guaranteed for 12 months both for materials and construction.

This unit has been constructed and manufactured under consideration of all safety regulations. Should the unit show any manufacturing errors or irregularities during the guarantee period, the manufacturer according to our standards will fix them. For any guarantee claim, the invoice or delivery note must be provided as proof. The guarantee is limited to the replacement of the part or parts which show the manufacturing error or irregularity.

Excluded from guarantee are: personnel costs, expenses of the technical staff, transport costs, packaging, etc. Furthermore, errors or other problems that the manufacturer cannot be blamed for or parts that are subject to normal wear may not be claimed under guarantee.

Direct or indirect damage claims towards any persons or things may not be derived from this guarantee, even if the reason for the damage could be traced back to the unit. This guarantee will automatically be terminated, if the unit is repaired, changed or opened by force by the user/buyer or any unauthorized third party.

Should any problem occur during the guarantee period, the user/buyer have only to contact the manufacturer or an authorized service center named by the manufacturer.

The right to exchange the complete unit for a new one is excluded. Any parts replaced during the guarantee period must be returned to Micerium S.p.A., who will supply a new part. Should the replaced part not be returned, it will be billed to the user/buyer

### HOW TO CONTACT OUR CUSTOMER CARE MICERIUM S.P.A:

Please contact Micerium S.p.A. at the followings:

- Phone number: (+39) 0185 7887 880 (our sales offices are open all weekdays);
- Fax: (+39) 0185 78 87 970;
- E-mail: hfo@micerium.it

## CLED PLUS LED CURING LIGHT



## User's Manual



### Manufacturer:

Micerium S.p.A.

Via G. Marconi 83 - 16036 Avegno (GE) Italy

Tel: (+39) 0185 7887880 • Fax: (+39) 0185 7887970

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### Important!

It is recommendable that reusable dental instruments (such as air/water syringe and scalers) be heat sterilized between each patient.


Please read this manual carefully before operating your unit.

## Content of Delivery



CLED PLUS

Carefully unpack your device and verify that all accessories and components are included according to the content lists below:

 This content list can be used as a check list to verify delivery of components when unpacking. Contact your place of purchase if anything is missing.

## Accessories



Protective  
Eye Shield



11mm Fiber  
Optic Probe



Li-ion  
rechargeable  
Battery



Power Supply  
+ Cord



Charging/Storage  
Base

## CE DECLARATION OF CONFORMITY

WE

MICERIUM S.p.A.  
VIA G. MARCONI, 83  
16036 AVEGNO (GE) ITALY  
Tel.: (+39) 0185 7887870  
Fax: (+39) 0185 7997970

DECLARE UNDER OUR EXCLUSIVE RESPONSIBILITY THAT THE PRODUCT :

Ref. CLED PLUS

LED CURING LIGHT

WHICH THIS DECLARATION IS REFERRED TO,  
IS IN COMPLIANCE WITH WHAT IS  
ESTABLISHED BY THE DIRECTIVES:

93/42/EEC- MS (2007/47/ECC)  
ISO 13485:2003  
EN ISO 14971:2007  
EN ISO 10993-1:2003  
EN 60601-1:2006  
EN 60601-2:2001 (A1:2006)  
EN 60601-1 - 4: 1996 (A1:1999)  
EN 980:2008  
DIRETTIVA 2002/96/EC (WEEE)  
EN 1041 :2008  
EN 1640 :2004  
EN 1639 :2004  
EN ISO 3630-1 :2008

Avegno (GE), 02 May 2012

CE

Dr. Eugenio Miceli

## Maintenance

1. Check periodically for cracks, chips or any damage to the light guide. If damage is observed, replace light guide.
2. Remove any debris from the light guide. Clean with a soft or cotton ball.
3. The light guide should be autoclaved (Steam Autoclave Only) after each patient. The light guide can be autoclaved at 135°C and 2.2 Bar for 20 minutes.
4. Do not autoclave the curing light handpiece, oval protection shield or mini shield (if applicable). Follow the clinic's disinfection procedures for these items or use disposable plastic covers during procedures.
5. The Li-ion battery should be discarded according to national laws.
6. Remove the battery to save energy during prolong periods of nonuse.

**\*\* If you observe severe damage or your light is not functioning properly, please stop using the light and contact your purchase dealer for repair or replacement information.**

## Technical Specification

### Switching Power Adaptor

Input	AC 100-240V, 50/60Hz, 0.3A
Output	DC 5V, 2A

### Light Source

Model Type	LED Blu 5 W
Wavelength	456 nm

### Battery

Type	Li-ion
Voltage	DC 3.7V
Capacity	2350 mA
Dimension	18D X 65L mm



### Device Disposal

#### Information to Users

This product is covered by the European Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, for the reduction of the use of hazardous substances in electrical and electronic equipment, and disposal of waste.

The symbol of bin crossed reported on your equipment or its packaging indicates that the product at the end of its useful life must be disposed separately from other waste.

A separate collection of this equipment arrived at the end of its life is organized and managed by the manufacturer. If you want to get rid of this equipment, please contact the manufacturer and follow the system that he has chosen to allow separate collection of the apparatus arrived at the end of its life.

A proper separate collection for the next launch of the disused equipment to recycling, treatment and environmentally compatible disposal helps to avoid possible negative effects on the environment and on health and promotes reuse and / or recycling of materials composing the equipment. The illegal disposal of the product by the holder includes the application of administrative sanctions provided for by law.

## Safety

### Intended Use

This device is designed for dental purpose only. The curing light is designed for the acceleration of bonding and composite materials used for dental restoration. Do not use where it is not intended. If you are unsure about your application, please contact your local dealer or place of purchase.

### General requirements

Maintenance and repair of this device is only to be made by DBI America and its authorized service personnel with proper tools and equipments. This device should only be operated by a trained and licensed professional.

### Contraindications

This device is not to be used by or on any persons that suffers, or has suffered in the past from photo biological reactions.

### General Precaution

- To avoid eye injury, never look directly into the blue light.
- Wear protective glasses and place the oval protective shield on the Mega Light Plus before operating.
- Only turn the light on after the light guide is inside the patient's mouth, to prevent injuring the patient's eyes.
- Condensation inside an electrical appliance can be dangerous. If the device is transported from one place to another with vast temperature differences, allow light to acclimate to the new ambient temperature.
- Do not use the device near flammable anesthetic liquid, oxygen, nitrous oxide or near any heat source. Use of solvent or flammable products on device could cause damage.
- Keep light guide 3,2 cm from resin to prevent over-exposure to material or injury to patients.



**WARNING**

*Warning indicates a potential dangerous situation nonobservance may lead to death or injury.*



**CAUTION**

*Caution indicates a potential harmful situation. Non observance may damage equipment.*



**NOTE**

*Note indicates a situation where special notice should be observed.*

## Installation

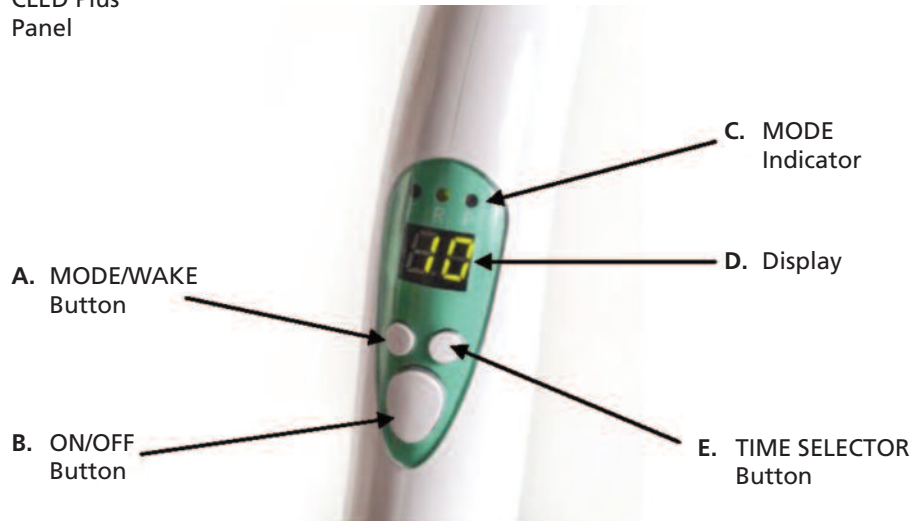
### Charging Li-ion Battery:

1. Install the Li-ion battery by removing the battery cover located underneath the curing light.
2. Connect the battery's two pin connector to the curing light female connector found inside the curing light handpiece.
3. After connecting the battery, tuck wires and battery in to the battery holding chamber.
4. Close the battery cover and make sure not to pinch the battery wires.
5. Connect the power adapter to the charging base.
6. Place the curing light handpiece in the charger and plug the power adapter to a power outlet.
7. After approximately 1 - 2 minutes the display will flash "CH" indicating that the battery is charging.

**i** *NOTE: A new battery requires to be charged for 8 hours prior to initial use. If battery is in sleep mode press the MODE button to activate the unit. The battery will not charge if it is in sleep mode.*

8. **Light Guide** – Directly insert the stainless steel chuck into the front of the curing light handpiece. Make sure that the chuck is pushed all the way inside the handpiece. Remove the black plastic protection cap from the tip of the light guide.
9. **Oval Protective Shield** – Insert the oval shield through the front of the curing light handpiece until it is firmly in place.

CLED Plus Panel



## Operating Instruction

**Selecting Program** – Press the Mode button in sequence to select programs. The LED indicator light under each corresponding letter will turn on with each specific program selected.

- (1) – **F**: Fast = 5 watts (full power)
- (2) – **R**: Ramp = Gradually increases strength
- (3) – **P**: Pulse = Short pulses

**Selecting Time** – Press the Time button to select desired curing times in intervals of 5, 10, 20, 30, 40 and 50 seconds.



**Warning:** Due to the high output power of this product, the tip portion of the light guide near the tooth can become very hot. We strongly recommend using a maximum of 10 seconds per each cure.

**Start Curing** – Press the On/Off curing button to activate light. A beep will be heard in 10 second intervals. To interrupt curing time, simply press the On/Off button. During the process of curing the digital display will show the remaining time.



**Warning:** Keep light guide 3,2 cm from resin to prevent over-exposure to material or injury to patient.

**Deactivating Sleep Mode** – To conserve energy the Mega Light Plus will go into sleep mode of the light has not been utilized for 60 seconds. To deactivate sleep mode, press the Mode button.

**Low Power Operation** – When "CH" flashes on the display panel the light must be charged. If this happens in the middle of a procedure, press the Mode button to bypass the system lock.



**Note:** the battery must be charged immediately after the procedure. If you are unable to charge the battery before your next procedure, directly connect the power cord from the charging base to the curing handpiece and continue working.

### Curing Light Legend

**P** – Indicates connection with the power adaptor.

**CH** – Indicates the battery is charging or the battery is low.

**FC** – Indicates the battery is fully charged.

- The last curing time or "FC" will flash on the display panel when the light is on the charging base. This indicates that the battery is full and/or operational.
- The unit is equipped with a battery protection program. If the battery is removed and replaced, connect it to the power adaptor or charging base to release the protection.