

# BlueWand™ LED Dental Curing Wand System

## Operation Manual

### Modes of Operation

The BlueWand™ Dental Curing Wand is operated by an ON/OFF press button located on the operation panel, opposite the blue LED tip. Diagram 1 shows an example of the operation panel.



*Diagram 1: Operation Panel*

There are 6 standard curing modes of operation available in 2 functions (Manual and Automatic or “Touch-less”):

1. 5 seconds (“5” LED is on)
2. 10 seconds (“10” LED is on)
3. 15 seconds (“15” LED is on)
4. 5 seconds at 25% reduced power (“Mode” and “5” LED are on)
5. 10 second ramp (“Mode and “10” LED are on)
6. 15 seconds at 25% reduced power (“Mode” and “15” LED are on)

As the ON/OFF button is pressed, a series of LEDs located on the operation panel will indicate set time modes of operation. Diagram 2 shows how the LEDs indicate mode 5 (10 second ramp) on the operation panel.



*Diagram 2: LEDs indicating 10 second ramp mode.*

Once the desired mode is selected the BlueWand™ will wait for 3 seconds, followed by a beep sound indicating the start of the mode of operation selected. The high intensity blue curing LED will activate and perform the mode of operation selected. To cancel operation at any time while the blue curing LED is active, press the ON/OFF button located on the operation panel.

## Manual and Automatic Functions

As mentioned in **Modes of Operation**, the BlueWand™ Dental Curing Wand has 6 standard modes of operation available in 2 functions. These 2 functions are **Manual** and **Automatic** or “touch-less”. Manual is the default function set when the BlueWand™ is first used. Automatic allows a user to select a mode of operation for repetitive use, such as for sealants or orthodontic brackets.

### Switching Between Manual and Automatic Operation Functions

Press and hold the ON/OFF button located on the operation panel of the BlueWand™ Dental Curing Wand for 5 seconds, then release the button. You should hear a 3 second beep and see one of the LEDs on the operation panel turn on.

If the “5” second LED is on then the BlueWand™ is set to for **Manual** operation.

If the “10” second LED is on then the BlueWand™ is set to for **Automatic** operation.

To change between these functions, repeat the process until the BlueWand™ is set to the desired function.

### Manual Operation Use

1. Press the ON/OFF button until the operation panel LEDs indicate the desired mode of operation.
2. Wait for 3 seconds.
3. Use the BlueWand™ as needed.
4. To cancel operation at any time press the ON/OFF button.
5. The BlueWand™ Dental Curing Wand will store the previously used mode of operation. To re-activate the same mode of operation, press the ON/OFF button once.

### Automatic Operation Use

1. Press the ON/OFF button until the operation panel LEDs indicate the desired mode of operation.
2. Place the BlueWand™ Dental Curing Wand into the charging base.
3. When the BlueWand™ is to be used, remove it from the charging base.
4. Wait 3 seconds.
5. Use the BlueWand™ as needed.
6. To cancel operation at any time press the ON/OFF button or place the unit back into the charging base.
7. The BlueWand™ Dental Curing Wand will store the previously used mode of operation. To re-activate the same mode of operation, remove it from the charging base.
8. *A “swipe” method may also be used to start and stop BlueWand™ operation. This involves hovering the BlueWand™ with the operation panel face-down 1-2 cm. over the top of the charging base without having to place it inside. Once the BlueWand's™ operation panel is moved away from the charging base, the 3 second delay is reset.*

## Battery Monitoring

The BlueWand™ Dental Curing Wand is continuously monitoring its battery power. When the battery requires charging, the BlueWand™ will indicate using the following methods:

**Normal Battery Power:** The unit will beep once every button press, when blue LED operation starts and stops, and every 5 seconds during operation. Rated light intensity output is guaranteed.

**Low Battery Power:** The unit will rapidly beep twice at a higher frequency than normal for every button press as well as when blue LED operation starts and stops. The unit will beep every 5 seconds in the same manner as when the BlueWand™ has normal battery power. Rated light intensity output is **still** guaranteed but the unit requires charging.

**Very Low Battery Power:** The unit will behave in a similar manner as the low battery charge status, but in addition the blue LED will pulse every 2 seconds with a single beep every second during curing. Rated light intensity output is **not** guaranteed; the unit requires charging.

**No Battery Power:** The unit will behave in a similar manner as the very low battery charge status; however the blue LED will not activate. The unit requires a full overnight recharge before it can operate normally again.

## Maximizing the Number of BlueWand™ Curing Exposures

- After using the BlueWand™, place it in the charging base to provide the unit with a steady charge.
- Keep the unit placed in the charging base overnight or during long periods of inactivity to keep the BlueWand™ optimally charged.
- The BlueWand™ Dental Curing Wand is rated for over hundred 10-second exposures at 600mW on a full charge without the need for recharging.

## Cleaning Information

The BlueWand™ LED Dental Curing System can be disinfected against viruses, bacteria, and fungi by using a surface disinfectant cleaner. A Cure Sleeve™ can be used over the LED tip to prevent cross contamination and composite build-up on the curing LED.

### **CAUTION:**

**Do not autoclave or chemclean this product, nor place it in an ultrasonic cleaner. Damage to internal electronics may occur.**

**The use of Micrylium's BioSURF™ disinfectant may cause damage to this product.**

### **Warranty Registration**

Go online to <http://www.bluewand.net/> to register the BlueWand™ LED Dental Curing System